

# **Former Wollensack Optical**

**MONROE, NEW YORK**

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## **Construction Completion Report**

**Tank Removals and Construction Related Activities**

**NYSDEC Site Number: C828209**

**Prepared for:**

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**Prepared by:**

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**JUNE 2020**

# CERTIFICATIONS

I, Daniel Noll, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Construction Completion Report (CCR) was implemented and that all construction activities were completed in substantial conformance with the Department-approved ISMP.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Daniel P. Noll, of LaBella Associates, D.P.C., 300 State Street, Rochester, New York, am certifying as Owner's Designated Site Representative and I have been authorized and designated by all site owners to sign this certification for the site.

DANIEL P. NOLL  
NYS Professional Engineer #

6/23/2020  
Date



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Signature



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## 1.0 BACKGROUND AND SITE DESCRIPTION

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Jefferson Wollensack, LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in January, 2019, to investigate and remediate a 0.48-acre property located at 872 and 878 Hudson Avenue, Rochester, New York (see Figure 1). The property will be remediated to restricted residential use and will be used for residential apartments.

The site is located in the County of Monroe, New York and is identified as Block 2 Lot 58 and Block 2 Lot 59 on the City of Rochester Tax Map # 091.81-2-59 and #091.81-2-58. The site is situated on an approximately 0.48-acre area bounded by Roycroft Drive and residential properties to the north, Avenue D and a convenience store to the south, residential properties to the east, and Hudson Avenue and residential properties to the west. The boundaries and surrounding properties are shown on Figure 2.

An electronic copy of this Construction Completion Report (CCR) with all supporting documentation is included as Appendix A.

## 2.0 SUMMARY OF SITE REMEDY

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### 2.1 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site and presented in the ISMP.

#### 2.1.1 Groundwater RAOs

##### RAOs for Public Health Protection

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

#### RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination.

#### **2.1.2 Soil RAOs**

##### RAOs for Public Health Protection

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

##### RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota due to ingestion/direct contact with contaminated soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

#### **2.1.3 Soil Vapor RAOs**

##### RAOs for Public Health Protection

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

## 2.2 Description of ISMP Activities

Excavation management and remedial activities at the site were conducted in accordance with the ISMP dated January, 2019.

The factors considered during the excavation activities are those listed in 6NYCRR 375-1.8. Please note the final remedy has not been determined as of the date of this report. The work completed as part of the excavation activities included the following components:

- Decommissioning of aboveground storage tanks (ASTs) and one (1) underground storage tank (UST) in accordance with 6NYCRR Part 613.
- Compliance with the requirements of the ISMP that include components of the excavation work plan that relate to the site development project.

### **3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS, AND REMEDIAL CONTRACTS**

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The ISMP was implemented prior to the completion of the Remedial Investigation (RI) and to manage contamination at the site during redevelopment activities until a site wide remedy decision and final Site Management Plan (SMP) are developed, approved, and implemented. The site development included the rehabilitation of the existing vacant building into a residential apartment building. Monitoring was conducted at the site during the disturbance of the subsurface that was associated with underground utilities, parking lot construction, and removal of ASTs and a UST. Logs related to the monitoring work associated with the ISMP are included in the applicable Appendices that are discussed and referenced in Section 4.0.

## 4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

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Remedial and excavation work activities completed at the site were conducted in accordance with the ISMP for the Former Wollensack Optical site (January, 2019). All deviations from the ISMP are noted below in Section 4.7. The following key activities were completed in accordance with the ISMP:

- Removal/closure of seven (7) 275-gallon fuel oil ASTs located in the southern vault.
- Pumping of two (2) USTs and removal of the southern UST located immediately east of the site building.
- Excavation of petroleum contaminated soil in the area of the southern UST pit and documentation soil sampling following the remedial excavation in accordance with DER-10 and NYSDEC approval.
- Pumping and disposal of water in Site building basement.
- Installation of underground plumbing within the site building footprint.
- Installation of a sanitary sewer lateral north of the site building.
- Box-out of parking lot area and placement of NYSDEC-approved stone.
- Removal of the basement concrete slab.
- Importation and placement of NYSDEC approved backfill material.
- Reuse of NYSDEC approved on-site material.
- Implementation of the Community Air Monitoring Plan (CAMP) during all earthwork activities.

### 4.1 Governing Documents

#### 4.1.1 Site Specific Health & Safety Plan (HASP)

The HASP was included in Appendix 4 of the ISMP. All work performed was in compliance with governmental requirements, including site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.



#### **4.1.2 Quality Assurance Project Plan (QAPP)**

The QAPP was included as Appendix 5 of the ISMP. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

#### **4.1.3 Soil/Materials Management Plan (S/MMP)**

All subsurface work was completed in accordance with the ISMP for the Former Wollensack Optical site. The Excavation Work Plan (EWP) was included in Appendix 3 of the ISMP. The EWP governs activities that may encounter remaining contamination and defines methods for notification, excavation, handling, screening, transport, disposal, importation of material, and reuse of materials. The EWP was followed during site activities to ensure compliance with applicable Federal, State and local laws and regulations.

#### **4.1.4 Community Air Monitoring Plan (CAMP)**

The CAMP was implemented during the ISMP activities and was conducted in accordance with the NYSDOH Generic CAMP included as Appendix 4 of the ISMP. Equipment for CAMP monitoring included upwind and downwind monitoring with a MiniRAE 3000 PIDs for VOC readings and TSI DustTrak™ II Aerosol Monitors (model 8530) for particulate concentrations in air. Based on daily wind conditions, a background monitoring (upwind) location and downwind location were positioned to monitor VOCs and concentrations of particulates in the air. Action levels for VOCs in the CAMP were specified as greater than 5 ppm, in which case work was to be halted and corrective actions are to be taken such as backfilling or covering soils.

Actions levels for particulate concentrations downwind were specified as greater than 100 µg/m<sup>3</sup> above background concentrations for a 15-minute period or if airborne dust was observed leaving the work area. In the event 100 µg/m<sup>3</sup> is exceeded the CAMP specifies that fugitive dust control techniques must be employed which can include wetting down haul roads, spraying buckets, and covering areas with plastic sheeting. If downwind particulate levels exceed

150 µg/m<sup>3</sup> above background concentrations work must be halted and dust control measures must be reevaluated. Actual CAMP results and response actions are provided in section 4.2.5.

#### **4.1.5 *Community Participant Plan***

This Section summarizes the pertinent elements of the Community Participation Plan that were performed during the implementation of the ISMP and those elements that pertain to the remainder of the remedial program. Elements of the Community Participation Plan include:

- Copies of the ISMP and other project documents are located in the following document repositories for public review:
  - Phillis Wheatley Library, 33 Dr. Samuel McCree Way, Rochester, New York
  - NYSDEC Region 8 Office, 6274 East Avon-Lima Road, Avon, New York

The NYSDEC approved Community Participation Plan for this site is dated January 2019.

## **4.2 Remedial and ISMP Program Elements**

### **4.2.1 *Contractors and Consultants***

The following provides consultants and contractors involved with the work associated with the ISMP:

**Table 4.2.1 – Contractors and Consultants**

| <b>Contractor/ Consultant</b>                                                  | <b>Role</b>                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LaBella Associates, D.P.C.                                                     | Environmental consultant responsible for correspondence with NYSDEC, insuring compliance with applicable BCP documents, environmental oversight, reporting, sample collection and CAMP monitoring. Certifying Engineer of Record- Daniel P. Noll, P.E.                                                                                                                                                                    |
| LaBella Environmental, LLC                                                     | Environmental contractor responsible for decommissioning the ASTs and USTs.                                                                                                                                                                                                                                                                                                                                               |
| Rock Environmental                                                             | Responsible for submitting the NYSDEC Petroleum Bulk Storage (PBS) Application for registration and closure of the ASTs, as well as, submitting the NYSDEC PBS Pre-Work Notification for AST closure. Rock Environmental also assisted with the AST removals which included opening the AST vault from ground level and lifting tanks out of the vault. Rock Environmental was responsible for backfill of the AST vault. |
| Alpha Analytical                                                               | Laboratory testing of samples.                                                                                                                                                                                                                                                                                                                                                                                            |
| T&R Towing and Service (aka Finger Lakes Envirotech, LLC or T&R Environmental) | Responsible for pumping USTs of contents and transporting to Covanta Niagara for disposal.                                                                                                                                                                                                                                                                                                                                |
| Waste Management High Acres Landfill; Covanta Niagara;                         | Waste disposal facilities.                                                                                                                                                                                                                                                                                                                                                                                                |
| Victor Excavating                                                              | Loaded and disposed of soil associated with the parking lot box-out.                                                                                                                                                                                                                                                                                                                                                      |
| Riccelli Enterprises; T&R Towing and Service; Casella                          | Waste hauler for contaminated soil.                                                                                                                                                                                                                                                                                                                                                                                       |

#### **4.2.2 Site Preparation**

A Dig Safely underground utility stakeout was conducted prior to all underground intrusive work at the site.

Rock Environmental previously mobilized equipment to the site for general site development of the building structure several weeks prior to AST removal. LaBella mobilized an excavator to the site for the UST removal the week of the planned work. Public utility mark outs were completed prior to ground intrusive activities.

NYSDEC PBS pre-work notifications were submitted to the department prior to removal or excavation of ASTs and USTs. Tank removal permits were acquired from the City of Rochester prior to tank removals at the site and are included in Appendix C. It should be noted that the permit for UST removal included the northern UST; however, the northern UST is located beneath a temporary electrical line supplying power to the site building and job trailer, and therefore was not removed. The northern UST is planned to be removed in July 2020. The City of Rochester Fire Marshal was also notified to observe the tank removals. A right-of-way permit was secured by Rock Environmental for work on the sidewalk to access the AST vault. The portion of the sidewalk was marked off to prevent public access to the area prior to and during work until it the sidewalk was restored.

Work performed as part of the remediation site development work was conducted by the site contractors listed in Table 4.2.1 that were previously mobilized to the site to perform other construction tasks. Table 4.2.2 details the time frames of the remedial and excavation work activities.

**Table 4.2.2 – Time Frames of Remedial and Excavation Work Activities**

| <b>Item</b>                                             | <b>General Time Frame of Site Work</b> |
|---------------------------------------------------------|----------------------------------------|
| <b><i>AST Decommissioning</i></b>                       |                                        |
| AST decommissioning and disposal                        | 5/22/2019                              |
| Backfill AST vault with flowable fill                   | 6/11/2019, 6/12/2019                   |
| <b><i>UST Decommissioning</i></b>                       |                                        |
| Remove and dispose of tank contents                     | 11/13/2019, 1/6/2020 (drums)           |
| Test pits surrounding southern UST                      | 11/13/2019                             |
| <b><i>Containerized Water From Basement</i></b>         |                                        |
| Remove and dispose of water from Site building basement | 12/3/2019, 4/7/2020                    |
| UST decommissioning, disposal and backfill              | 12/19/19*, 12/20/19, 12/30/20          |
| Soil disposal                                           | 1/6/20*, 1/10/20, 1/13/20              |

| Item                                                           | General Time Frame of Site Work                                                                                |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b><i>Parking Lot Box-Out</i></b>                              |                                                                                                                |
| Box-Out parking lot and soil disposal                          | 1/8/20 to 1/10/20                                                                                              |
| Grading imported crushed stone in parking lot                  | 1/13/2020                                                                                                      |
| <b><i>Basement Slab Removal</i></b>                            |                                                                                                                |
| Removal of basement slab                                       | 12/3/2019 to 12/6/2019                                                                                         |
| <b><i>Subgrade Plumbing Installation for Site Building</i></b> |                                                                                                                |
| Plumbing installation                                          | 12/13/19, 12/16/19, 12/17/19,<br>12/30/19, 12/31/19, 1/2/20, 1/3/20*,<br>1/6/20 to 1/10/20, 1/13/20 to 1/16/20 |
| <b><i>Sanitary Sewer Lateral Installation</i></b>              |                                                                                                                |
| Install Sanitary Sewer Lateral                                 | 2/4/20, 2/5/20,                                                                                                |
| Soil Disposal                                                  | 2/26/20                                                                                                        |

Notes:

- (1) \*Refer to Section 4.7 Summary of Deviations
- (2) Subsurface excavation work not completed in May and June 2019. As such, the CAMP was not implemented during this time.
- (3) One (1) CAMP setup was utilized days when only interior work was conducted. The following dates only 1 CAMP setup was used: 12/3/2019 through 12/6/2019, 12/13/2019, 12/16/2019, 12/17/2019, 12/31/2019, 1/2/2020, 1/3/2020, 1/6/2020 and 1/7/2020. Refer to section 4.2.5 for more information.
- (4) Upwind and Downwind CAMP data was collected from January 14, 2020 to January 16, 2020 however no exterior activities were completed in this timeframe requiring CAMP.

Documentation of agency approvals required by the ISMP including requests for import and contained-in determinations are detailed in Sections 4.5 and 4.3.6, respectively. Other non-agency permits relating to the remediation project are provided in Appendix C.

#### **4.2.3 General Site Controls**

Site controls utilized during the ISMP implementation generally consisted of the following:

- Record keeping associated with environmental monitoring was completed by LaBella.
- The site building and boundary were locked each afternoon at the end of the day and all windows were boarded up to prevent access. A fence was placed around the entire site or work area after AST removals to prevent unauthorized access to the site.
- On-site equipment was decontaminated after use each day by removing soil build-up using hand tools. Equipment and vehicles leaving the site were thoroughly scraped of all contaminated soil before exiting the site or being loaded onto transport trailers.
- Construction of the stabilized entrances using NYSDEC-approved clean stone to reduce soil tracking and potential cross-contamination.

Any soil excavated from the site was placed on top of polyethylene sheeting in designated stockpiles for landfill disposal and/or characterization for potential on-site reuse. At the end of each work day any exposed stockpiles were covered with polyethylene sheeting and secured for erosion control.

#### **4.2.4 Nuisance Controls**

##### **Decontamination**

Equipment and vehicles leaving the site were thoroughly scraped of all contaminated soil using hand tools (brooms, shovels, etc.) before exiting the Site or being loaded onto transport trailers as needed. Stabilized construction entrances constructed of NYSDEC-approved imported materials and geotextile fabric were also utilized to reduce potential tracking of soil off-site.

##### **Dust Control**

Airborne particulate levels were monitored both visually and with the CAMP monitoring equipment. As described further in Section 4.2.5.

CAMP thresholds were frequently exceeded for dust during the demolition of the basement slab and other interior work. These exceedances during interior work were due to demolition work being completed by site contractors in other portions of the building, as discussed in Section 4.2.5.

##### **Odor Control**

Strong odors associated with contaminants of concern at the site (e.g., petroleum odors) were not encountered during the ISMP implementation for the tank removals and other subsurface work described in this CCR and as such, corrective actions associated with odor control were not required.

##### **Truck Routing**

The heaviest traffic to and from the site was associated with the transport of contaminated materials off-site for disposal or importation of backfill materials. Trucks generally entered and exited the Site from Avenue D and traveled Hudson Avenue to the Route 104 expressway.

#### **4.2.5 CAMP Results**

Per the ISMP, one (1) upwind and one (1) downwind CAMP station was generally utilized as part of the ISMP implementation for ground intrusive work. During interior excavation work, one (1) CAMP station was utilized as noted as a deviation in Section 4.7. Although locations varied slightly by day due to wind direction, the upwind CAMP station was generally located in the northern portion of the Site while the downwind CAMP station was generally located in the southern portion of the Site, along the property line bordering Avenue D.

Each CAMP station consisted of a particulate monitor (DustTrak II Model 8530) and PID (MiniRAE 3000) which recorded measurements on a 15-minute average. The CAMP monitoring results did not identify any particulate or VOC levels above action thresholds identified in the CAMP, with the exception of the following:

- During the demolition of the concrete slab within the building basement. These exceedances are attributed to the dust from breaking up the concrete and not from the subsurface soil beneath the basement slab. Workers performing the demolition work donned respirators and Tyvek suits.
- Exceedances for dust were common at CAMP stations placed within the interior of the site building due to interior demolition and rehabilitation work, sweeping of the floors, and other activities not associated with the excavation of soil. Moving the CAMP station away from these areas at times did show a decrease in dust concentrations. This data along with visual observations at the time of the work, indicate dust exceedances were a result of interior renovation work and not from soil/subsurface excavations.
- The action level for VOCs was exceeded on December 30 and 31, 2019 and January 3, 2020. These exceedances were attributed to the plumbers petroleum fueled equipment to saw cut and remove the floor and glues to connect the piping being used within the monitoring area, and not with VOC emissions from subsurface media. This was confirmed by moving the PID away from where the glue was being used or when the glues were no longer in use and their containers sealed. Once the PID was moved away from the plumbing glue or when the glue was not used and container sealed, VOC readings decreased to background concentrations.

No CAMP monitoring was completed during the removal of the ASTs in the vault as no excavation/disturbance of subsurface soil was required, no petroleum products were identified within the ASTs, and no petroleum odors were observed throughout the AST removal.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix B.

#### **4.2.6 Reporting**

Monthly progress reports consisted of a summary of the previous month's activities, including any soils tested and/or transported off-site, agency approvals, relevant laboratory data and mapping and any other pertinent notes about the ISMP. These reports also included anticipated activities for the coming month. Monthly progress reports were distributed to the NYSDEC, New York State Department of Health (NYSDOH) and other relevant parties.

Daily field notes were recorded during tank removal and site development activities to document general information about daily activities and tanks. All daily and monthly reports are included in electronic format in Appendix D.

The digital photo log is included in electronic format in Appendix E.

#### **4.3 Contaminated Materials Removal and ISMP Related Excavation Management Activities**

On-site locations from which materials were removed from the site are identified as follows:

- Aboveground Storage Tanks (ASTs)
- Underground Storage Tank (UST)
- Basement Slab Removal and Subgrade Plumbing within the Site Building
- Parking Lot Box-Out and North Entrance Stabilization
- Sanitary Sewer Lateral

A list of the soil cleanup objectives (SCOs) for the contaminants of concern for this project is NYCRR Part 375-6.8(b) SCOs for a Restricted Residential Site.

Figures of the location of original sources and areas where excavations were performed are shown in Figures 3 and 4.

Contaminated material removed as part of the work is summarized below.



#### **4.3.1 AST Closure**

Seven (7) unregistered 275-gallon heating oil (fuel oil) tanks from a vault under the sidewalk along Avenue D (see Figure 3) and just south of the site building was completed on May 22, 2019. The vault was connected to the site building basement by a doorway and appeared to have a concrete bottom and cinder block or concrete block walls. The tank vault is located outside of the BCP site boundary.

The NYSDEC Pre-work Notification for Bulk Storage Tank Installation or Closure form was completed and submitted to the NYSDEC by Rock Environmental prior to removal of the ASTs. Additionally, a Petroleum Bulk Storage Application was submitted to the NYSDEC by Rock Environmental for the registration and permanent closure of the seven (7) 275-gallon ASTs following the removal of the tanks on-site.

The seven (7) 275-gallon ASTs in the vault appeared to be highly corroded single-walled steel tanks. Each tank was observed to have rusted holes of varying size on the upper half of each tank. Inspection of each tank interior did not identify any liquid or sludge contents (i.e. the tanks were empty) and thus the tanks did not require any pumping prior to removal. A portion of the concrete vault ceiling (Avenue D sidewalk) was removed to provide access to the ASTs for removal. The interiors of each tank were gauged with a 4-gas meter which indicated a zero (0) percent lower explosive limit (LEL) in each tank and oxygen levels in each tank at 20.9%. Following inspection and approval from a City of Rochester Fire Marshal (Mr. Steve Ersteniuk), the ASTs were removed from the vault via an excavator and placed on a LaBella trailer. The ASTs were subsequently disposed as scrap metal at Metalico, Inc. scrap yard located at 1515 Scottsville Road in Rochester, New York. The vault containing the AST was filled with flowable fill and a new concrete sidewalk was installed. A bilco door area on-Site was also filled with flowable fill when the AST vault was backfilled. A LaBella representative was not on-site for the backfilling activities using flowable fill.

Refer to Section 4.3.6 for disposal documentation and Section 4.5 for a summary of backfill materials. Refer to Appendix E for photos associated with the AST removals.

#### **4.3.2 UST Closure – Southern UST**

During the remedial investigation, two USTs were identified adjacent to suspect fill port pipes. One UST designated as the “Southern UST” was located immediately adjacent to the eastern side of the site building and the second UST (designated as the “Northern UST”) was located in the north eastern portion of the site at the location shown on Figure 3.

During a site visit by LaBella personnel on November 7, 2019 a fuel oil odor was noted in the building. LaBella discovered approximately 6-inches of water in the former boiler pit within the basement with less than 1-inch of apparent fuel oil floating on top of it. Based on this discovery, Spill #1907970 was opened with the NYSDEC. LaBella also completed test pitting around the exterior underground storage tank (UST) located immediately east of the basement. Test pits completed to the north, south and east of the UST did not identify significant evidence of impairment but soils directly below the UST could not be accessed at this time. The maximum PID reading measured was 30-ppm at 5-ft below ground surface (bgs) directly south of the UST. Test pit logs and field notes are included in Appendix D.

The UST was accessed using the excavator and was found to have filled with apparent rainwater with 8-inches of oil floating on top of the water within the UST. When this UST was first discovered in June 2019, approximately 8.5-inches of oily water was observed in this tank. Refer to the June 2019 Monthly Progress Report for additional information.

The contents of each UST were removed on November 13, 2019. Approximately 8.5-inches of an oily water mixture was pumped out of the northern UST and an oil water mixture consisting of approximately 40-inches of water and 8-inches of oil was pumped from the Southern UST. At this time, water was also pumped from the basement boiler pit that appeared to have accumulated over-time as the building was vacant for several years. As of the date of this CCR, only the southern UST has been removed, as an electrical line is located over the Northern UST. As previously discussed with the NYSDEC, the Northern UST is planned to be removed in July 2020 once the electrical line is relocated. As previously noted, the contents of the Northern UST were pumped on November 13, 2019 to prevent a release.

On December 19, 2019 LaBella Environmental, LLC mobilized to the site and began by pumping out approximately 200 gallons of water that had appeared to re-enter the Southern UST since it was previously pumped-out on November 13, 2019. The 200-gallons of water was pumped into 55-gallon drums pending disposal. Soil was excavated above the tank segregating “clean” soil from petroleum impacted soil. Non-petroleum impacted soil from the top 2-ft of the soil column was staged in a separate pile on and covered by poly-sheeting. This pile was approximately 5 cubic yards in volume. This segregated pile was later shipped to the landfill during the parking lot box-out work (refer to Section 4.3.3).

The tank measured approximately 11-ft long and 4-ft in diameter indicating it was approximately 1,000 gallons in size. The City of Rochester Fire Marshal (Mr. Steve Ersteniuk) observed the tank removal work to confirm compliance with City of Rochester regulations. A permit was obtained from the City of Rochester for the tank removal and included in Appendix C. The UST was rendered inert by adding carbon dioxide into the tank. The final meter readings on the tank approved for removal by the City of Rochester Fire Marshal were zero (0) percent LEL and fourteen (14) percent oxygen. The tank was then removed from the subsurface and placed onto a LaBella trailer, cleaned, and transported to Metalico, Inc. and disposed as scrap metal. The UST was constructed of steel and was observed to have several holes in the tank due to rusting. Refer to Appendix E for photos of the UST removal.

On December 20, 2019, petroleum contaminated soil was removed from the base and sidewalls of the tank pit that exhibited evidence of impairment. A poly-lined roll-off dumpster was filled with contaminated soil, and additional contaminated soil was placed on poly sheeting next to the roll-off dumpster pending disposal. This pile was approximately 25-cubic yards in volume. Documentation samples were collected from the north, south, east and west sidewalls and from bottom of the excavation at locations that exhibited the highest remaining PID readings that are detailed on Figure 3. Following the collection of documentation samples, the bottom and sidewalls of the tank pit were lined with poly sheeting as a demarcation layer and the pit was backfilled with NYSDEC-approved imported stone.

Material disposed as part of this work is detailed in Section 4.3.6 and the excavation was backfilled with NYSDEC-approved crusher run stone as detailed in Section 4.5.

### ***4.3.3 Parking Lot Box-Out Area and North Entrance Stabilization***

In the Spring of 2019 Hamilton-Stern excavated surface soil from the north entrance and placed recycled concrete to stabilize the entrance in the area shown on Figure 4. A LaBella environmental monitor was not notified about or on-site for the excavation and stockpiling of soil or the importation of recycled concrete. The NSYDEC was then notified on May 23, 2019 and made aware of the soil pile generated and imported recycled concrete. Approximately 30-40 cubic yards of soil material was generated and staged in the parking lot area. The stockpile was not staged on poly sheeting but it was covered with plastic and the excavated material was disposed with the material as part of the parking lot box out discussed below.

Beginning on January 8, 2020, Victor Excavating began excavating soil at the site to place the subbase for the exterior parking lot, sidewalk, and other exterior rehabilitation work. The soil removal encompassed the north and east areas of the site building as shown on Figure 4. Soil was generally excavated from the ground surface to approximately 2 feet below grade and directly loaded directly into Part 364 permitted trucks for disposal. Victor Excavating completed the parking lot soil excavation on January 10, 2020. This work also included disposal of the soil pile generated in Spring 2019 and the top-cut of non-petroleum impacted soil generated during the Southern UST removal (refer to Section 4.3.2). Approximately 2-feet of remaining material below the soil pile generated in Spring 2019 was also removed as part of the parking lot box-out. Soil disposed as part of this work is detailed in Section 4.3.6. Although parking lot construction is not yet completed, approximately 24-inches of NYSDEC-approved crusher run stone was placed in the parking-lot box out at this time, as detailed in Section 4.5.

### ***4.3.4 Basement Slab Removal and Subgrade Plumbing Installation at Site Building***

As requested by the NYSDEC, LaBella conducted CAMP monitoring for the concrete basement slab removal during the timeframe of December 3 to 6, 2019. As part of this work additional water that accumulated in the basement was pumped into a holding tank and disposed off-site. A new concrete basement slab was installed on February 18, 2020. Refer to Section 4.3.6 for disposal documentation.

Intermittently from December 13, 2019 to January 16, 2020, excavations for the installation of the sub-grade plumbing were completed on the 1<sup>st</sup> floor of the building at the locations shown on Figure 4. A sump was also installed within the basement during this time. The soil excavated was placed on and covered with poly sheeting and characterized for reuse at the site. The NYSDEC approved the reuse of this material on December 26, 2019, and the material was used to backfill the plumbing excavations (see Section 4.3.7). Following reuse of this material, approximately 6 inches of concrete was poured over the reused soil/plumbing excavations.

#### **4.3.5 Sanitary Sewer Lateral Installation**

On February 4, 2020, Victor Excavating began excavation of a trench on-site for installation of a new sewer lateral line that was completed on February 5, 2020. The trench was excavated to approximately 6-ft wide and extended to a depth of approximately 8-ft and a portion of the excavation extended outside the BCP site boundary onto the Hudson Avenue right-of-way. Soil removed from the trench was placed on poly sheeting, sampled for waste characterization, and covered with poly sheeting. No excavated soil was reused as backfill.

Soil disposed as part of this work is detailed in Section 4.3.6 and the excavation was backfilled with NYSDEC-approved imported stone as detailed in Section 4.5.

#### **4.3.6 Disposal Details**

Table 4.3.6A shows the total quantities of each category of material removed from the site and the disposal locations. Waste disposal documentation including laboratory reports, manifests, weight tickets and Contained-In Demonstration approvals are included in Appendix F.

**TABLE 4.3.6A – Summary of Contaminated Materials Disposal**

| <b>Item</b>                 | <b>Date(s) of Disposal</b> | <b>Total Quantity Removed</b> | <b>Disposal Facility</b>                                 | <b>Disposal Transporter</b> | <b>Summary of Waste Characterization Sampling and Disposal Documentation</b>  |
|-----------------------------|----------------------------|-------------------------------|----------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------|
| AST Closure – Tank Disposal | 5/22/2019                  | Seven 275 gallon tanks        | Metalico Rochester, 1615 Scottsville Road, Rochester, NY | LaBella Environmental, LLC  | -Disposed as scrap Metal.<br>-Refer to Appendix F for Disposal Documentation. |
| UST Closure – Tank Disposal | 12/18/2019                 | One 1,000 gallon tank         | Metalico Rochester, 1615 Scottsville Road, Rochester, NY | LaBella Environmental, LLC  | -Disposed as scrap Metal.<br>Refer to Appendix F for Disposal Documentation.  |

| Item                                                                                                            | Date(s) of Disposal            | Total Quantity Removed                                                            | Disposal Facility                                                                         | Disposal Transporter                                                                                  | Summary of Waste Characterization Sampling and Disposal Documentation                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UST Closure - Soil Disposal                                                                                     | 1/6/2020, 1/10/2020, 1/13/2020 | 39.04 tons*                                                                       | High Acres Landfill, 425 Perinton Parkway, Fairport, NY<br><br>Landfill Profile #121838NY | T&R Environmental, Permit No. 7A-709, Riccelli Trucking Permit No. 7A-402, Casella Permit No. 8A-1099 | -Collected representative sample from contaminated soil stockpile & roll-off dumpster for Contained-In Demonstration and landfill profile.<br>-Alpha Analytical Lab Report L1961283<br>-Refer to Appendix F for Contained-In Demonstration Approval and Disposal Documentation.                                                         |
| UST Closure – Tank Contents Disposal and Boiler Pit pumping                                                     | 11/13/2019, 1/6/2020           | -1,845 gallons via vac truck<br>-200 gallons via 4 drums (total of 2,045 gallons) | Covanta Niagara, 100 Energy Blvd, Niagara Falls, NY (NYSDEC Permit ID 9-2911-00113/00039) | Finger Lakes Envirotech, LLC (NYR00178632)                                                            | -Waste characterization sampling not required.<br>-Refer to Appendix F for Disposal Documentation.                                                                                                                                                                                                                                      |
| Pumping out Boiler Pit                                                                                          | 12/3/2019                      | 1,222 gallons via vac trucks                                                      | Covanta Niagara, 100 Energy Blvd, Niagara Falls, NY (NYSDEC Permit ID 9-2911-00113/00039) | Finger Lakes Envirotech, LLC (NYR00178632)                                                            | -Waste characterization sampling not required.<br>-Refer to Appendix F for Disposal Documentation.                                                                                                                                                                                                                                      |
| Disposal of Parking Lot Box-Out Soil, Soil Pile generated in Spring 2019 and top-cut from Southern UST removal. | 1/8/2020, 1/9/2020, 1/10/2020, | 1,078.40 tons*                                                                    | High Acres Landfill, 425 Perinton Parkway, Fairport, NY<br><br>Landfill Profile #121857NY | Riccelli Trucking Permit No. 7A-402                                                                   | -Collected representative samples from in-place soil to be removed for disposal and soil pile generated during Spring 2019. Samples collected for Contained-In Demonstration and landfill profile.<br>-Alpha Analytical Lab Report L1960048<br>-Refer to Appendix F for Contained In Demonstration Approval and Disposal Documentation. |
| Sanitary Sewer Lateral Installation Soil Disposal                                                               | 2/26/2020                      | 90.63 tons*                                                                       | High Acres Landfill, 425 Perinton Parkway, Fairport, NY<br><br>Landfill Profile #121857NY | Riccelli Trucking Permit No. 7A-402                                                                   | -Collected representative sample from soil stockpile for Contained-In Demonstration and landfill profile.<br>-Alpha Analytical Lab Report L2006207<br>-Refer to Appendix F for Contained In Demonstration Approval and Disposal Documentation.                                                                                          |

\*See attached Table 4.3.6B for a summary of soil disposal.

#### 4.3.7 On-Site Reuse

Excavated material was generated during the installation of the subgrade plumbing for the site building. The excavated soil was placed on and covered with poly sheeting within the Site building and sampled for reuse in accordance with DER-10 Table 5.4(e)10. A Request to Reuse Soil was submitted to the NYSDEC and approved on December 26, 2019. A copy of the Request to Reuse Soil and NYSDEC approval as well as associated analytical data is included in Appendix G.

The soil was reused within the excavated plumbing trench it was removed from at the location shown on Figure 5. The soil was subsequently covered with concrete when the floor slab was re-poured.

#### 4.4 Remedial Performance/Documentation Sampling

Documentation Sampling was only completed as part of the UST closure work.

Documentation samples were conducted in accordance with NYSDEC DER-10 Section 5.4(b)(5)(2) and correspondence with the NYSDEC. Due to the size of the excavation, four (4) excavation sidewalls and one (1) bottom documentation samples were collected from the remedial excavation and analyzed for USEPA TCL and NYSDEC CP-51 list VOCs and USEPA TCL and NYSDEC CP-51 list SVOCs using USEPA Methods 8260 and 8270, respectively. The samples were designated as TANK-BOT-122019, TANK-EAST-122019, TANK-NORTH-122019, TANK-SOUTH-122019, and TANK-WEST-122019 were collected at depths of 11-ft bgs, 10-ft bgs, 8-ft bgs, 8-ft bgs and 8-ft bgs, respectively from the southern UST pit at the locations of the highest remaining PID readings. A summary of the documentation sample results are included in Table 4.4A below.

**Table 4.4A – Summary of Documentation Sample Results**

| Sample ID        | Sample Depth (ft bgs) | PID Reading (ppm) | Summary of Results                                                           |
|------------------|-----------------------|-------------------|------------------------------------------------------------------------------|
| TANK-BOT-122019  | 11                    | 30                | No VOCs or SVOCs detected at concentrations above the Unrestricted Use SCOs. |
| TANK-EAST-122019 | 10                    | 2.8               | No VOCs or SVOCs detected at concentrations above the Unrestricted Use SCOs. |

| Sample ID         | Sample Depth (ft bgs) | PID Reading (ppm) | Summary of Results                                                                                                                                                                                                                                    |
|-------------------|-----------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TANK-NORTH-122019 | 8                     | 2.7               | No VOCs or SVOCs detected at concentrations above the Unrestricted Use SCOs, with the exception of the VOC acetone at an estimated concentration. The estimated concentrations of acetone was not detected above the Restricted Residential Use SCOs. |
| TANK-SOUTH-122019 | 8                     | 45.4              | No VOCs or SVOCs detected at concentrations above the Unrestricted Use SCOs.                                                                                                                                                                          |
| TANK-WEST-122019  | 8                     | 16.4              | No VOCs or SVOCs detected at concentrations above the Unrestricted Use SCOs.                                                                                                                                                                          |

Sampling activities were conducted in accordance with LaBella's Quality Control Program included in Appendix 6 of the ISMP. The results indicate that sample results are below the Restricted Residential Use SCOs.

Only the VOC acetone was detected above the Unrestricted Use SCOs at an estimated concentration. Acetone is a common laboratory contaminant and this detection likely does not represent actual site conditions.

A table and figure summarizing all end-point sampling is included in Table 4.4B and Figure 3, respectively, and all exceedances of SCOs are highlighted.

Data Usability Summary Reports (DUSRs) were prepared for all documentation samples. The DUSR is included in Appendix H, and associated raw is provided electronically in Appendix I. The results of the DUSR indicate the data should be considered technically defensible and completely usable in its present form.

#### 4.5 Imported Backfill

A table of all sources of imported backfill with quantities for each source is shown in Table 4.5. Please note that some imported material was exempt from chemical testing in accordance with DER-10 Section 5.4(e)(5).



**TABLE 4.5 – Imported Backfill Material Summary**

| Location or Use                                            | Type                     | Source                                                         | Estimated Volume or Tonnage                                                      | NYSDEC Approval Date |
|------------------------------------------------------------|--------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|
| Site Entrances/Exits for stabilization and erosion control | Recycled Concrete        | The Dolomite Group<br>1085 Buffalo Road<br>Rochester, New York | 30.15 tons                                                                       | May 23, 2019         |
| Backfill of southern UST pit                               | CR#2 (Crusher Run Stone) | The Dolomite Group<br>746 Whalen Road<br>Rochester, New York   | 68.48 tons                                                                       | December 18, 2019    |
| Parking Lot Subbase, Sanitary Sewer Lateral                | CR#2 (Crusher Run Stone) | The Dolomite Group<br>746 Whalen Road<br>Rochester, New York   | -Parking Lot Subbase 717.44 tons<br>-Sanitary Sewer Lateral 144.98 tons          | January 13, 2020     |
| Backfill of AST and Bilco Door Area                        | Flowable Fill*           | Manitou Concrete<br>1260 Jefferson Road<br>Rochester, New York | 16 Cubic Yards (total)<br>-Bilco Door 4 cubic yards<br>-AST Vault 12 cubic yards | NA*                  |
| Sanitary Sewer Lateral                                     | #1 and #2 Blend Stone    | The Dolomite Group<br>746 Whalen Road<br>Rochester, New York   | 18.94 tons                                                                       | December 26, 2020    |

Note:

\*Note material was technically not imported for this use in AST vault as it was not within the BCP Site boundary. The material receipt shows 16 cubic yards of flowable fill were received, however, a portion of this material was also used for backfill of the Bilco door area shown on Figure 5. No approval required per DER-10.

A request for import of 3A and 4A stone from the Dolomite Group quarry on Penfield Road in Rochester was submitted to the NYSDEC on May 30, 2019 and approved on June 6, 2019 for use as backfill within the AST vault. However, only flowable fill was used and the 3A and 4A stone was not imported and used at the site.

Requests for import, associated approvals, and associated weigh or volume receipts are included in Appendix J.

A figure showing the site locations where backfill was used at the site is shown in Figure 5.

#### 4.6 Soil Cover or Cap System

Exposure to remaining contamination in soil/fill at the site is anticipated to be addressed by a soil cover or cap system placed over the site. The final cover or cap system is anticipated to be presented in a Remedial Action Work Plan and documented in the final SMP and FER for the site.

#### 4.7 Deviations from the ISMP

The following deviations are noted in Table 4.7 for the work completed as part of the CCR.

**Table 4.7 – Summary of Deviations**

| Item                       | Deviation                                                                                                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section 4.3.6              | A manifest ID is not listed on weight ticket 1329769 but is assumed to be related to manifest 70317 based on the corresponding manifest.                                                                                                                                                           |
| Section 4.3.6              | Imported materials (CR #2) were approved for import from the Dolomite facility in Penfield, NY. The contractor also imported CR #2 from the Dolomite facilities in Walworth, NY and Iroquois Stone (Brockport, NY).                                                                                |
| Section 4.2.5 (Appendix B) | Upwind data from 12/19/2019 and 12/20/2019 during the UST removal was collected; however, data was unable to be downloaded from the equipment due to equipment malfunction.                                                                                                                        |
| Section 4.2.5 (Appendix B) | Issues were encountered downloading downwind PID data for the dates 2/4/2020 and 2/5/2020 as part of the sewer trench excavation. Data was collected however the monitoring unit was unable to download the data. Documents showing the dates and times of data collected are shown in Appendix B. |
| Section 4.2.5 (Appendix B) | CAMP data consisting of particulate monitoring and PID readings collected at the upwind location on 2/26/2020 during load out of soils related to the sewer lateral trench could not be downloaded due to equipment malfunction.                                                                   |
| Section 4.2.5 (Appendix B) | Interior work utilized one (1) CAMP setup to monitor dust and VOC levels within the work zone in the interior of the building rather than an upwind and downwind perimeter stations.                                                                                                               |

| Item                       | Deviation                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            |                                                                                                                                                                                                                                                                     |
| Section 4.2.5 (Appendix B) | Exterior CAMP data for 1/6/2020 could not be located.                                                                                                                                                                                                               |
| Appendix D                 | Although not a deviation, field notes dated 12/18/2019 are incorrectly dated and should be identified as 12/19/2019. Additionally field notes dated 10/2/2019 through 10/6/2019 are also incorrectly dated and are actually from dates 12/2/2019 through 12/6/2019. |
| Section 4.2.2 (Appendix D) | Field notes collected on 1/3/2020 could not be located. However, LaBella was on-site and CAMP data was collected and provided on this date.                                                                                                                         |

I:\JEFFERSON WOLLENSACK LLC\2182207 - 872 & 886 HUDSON BROWNFIELD\REPORTS\SITE DEVELOPMENT  
CCR\RPT.C828209.2020-06-24.ISMP CCR AND TANK REMOVALS.DOCX



# FIGURES











I:\Jefferson Wollensack LLC\2182207 - 872 & 886 Hudson Brownfield\Drawings\Site Development CCR\Figure 3 - Tank Removal Documentation Sampling.mxd



It is a violation of New York Education Law Article 145 Sec 7203 for a person to represent themselves as a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, professional engineer or land surveyor, altering architect, engineer or land surveyor "altered" by followed by their signature and date of such alteration, and a specific description of the alteration.

PROJECT / CLIENT

Client:  
JEFFERSON WOLLENSACK, LLC

Project:  
CONSTRUCTION COMPLETION REPORT  
FORMER WOLLENSACK OPTICAL  
NYSDEC BCP SITE #C828209  
872 AND 888 HUDSON AVENUE  
ROCHESTER, NEW YORK

DRAWING TITLE

TANK CLOSURE AND DOCUMENTATION  
SAMPLE LOCATIONS

|            |              |     |
|------------|--------------|-----|
| ISSUED FOR | DESIGNED BY: | MFP |
| FINAL      | DRAWN BY:    | MFP |
|            | REVIEWED BY: | MFP |

Tuesday, June 23, 2020

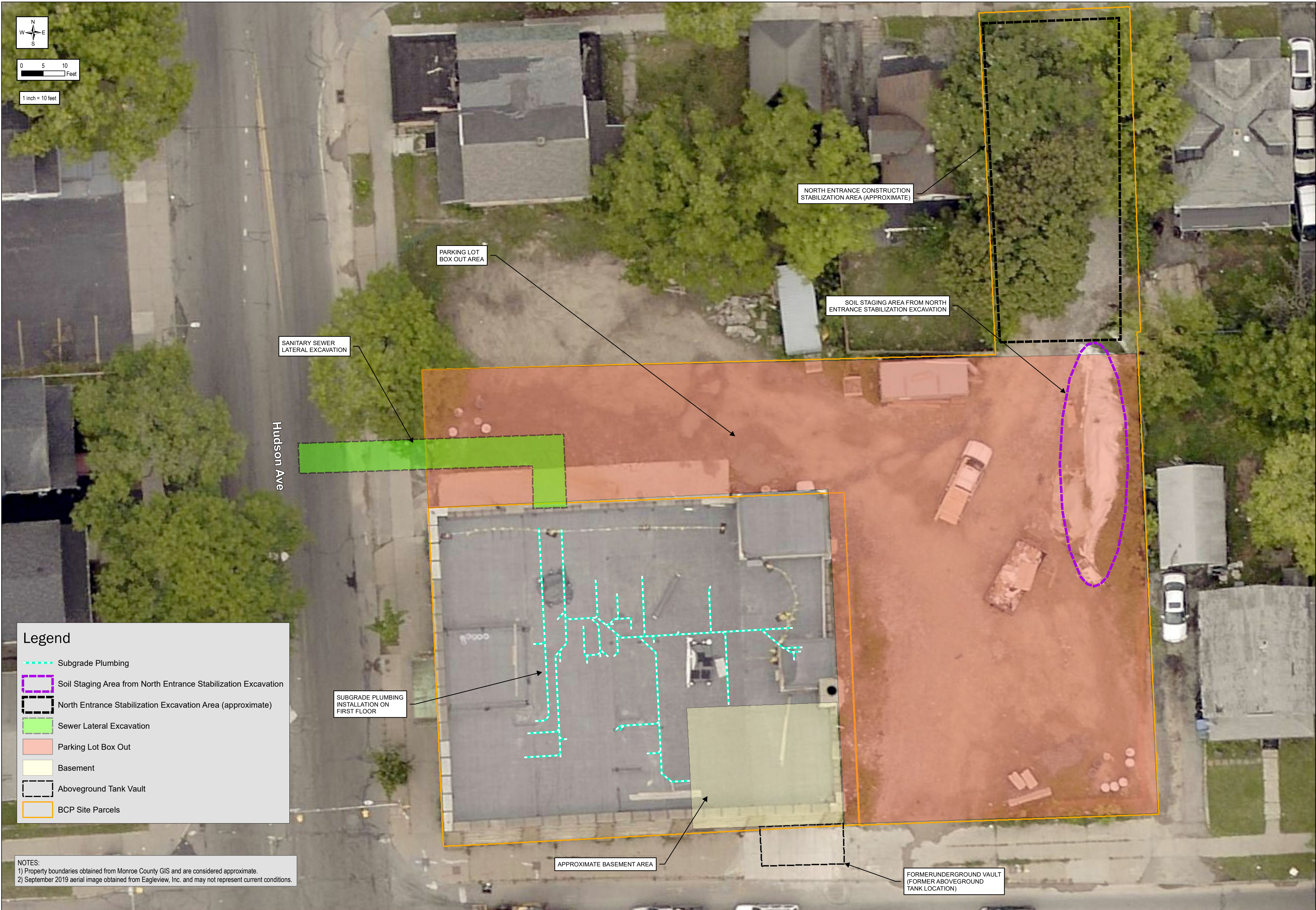
PROJECT/DRAWING NUMBER

[ 2182207 ]

[ FIGURE 3 ]



I:\Jefferson Wollensack LLC\2182207 - 872 & 886 Hudson Brownfield\Drawings\Site Development\CCRF\Figure 4 - ISMP Work Locations.mxd



PROJECT / CLIENT

Client: JEFFERSON WOLLENSACK, LLC

Project: CONSTRUCTION COMPLETION REPORT  
FORMER WOLLENSACK OPTICAL  
NYSDEC BCP SITE #C828209  
872 AND 888 HUDSON AVENUE  
ROCHESTER, NEW YORK

DRAWING TITLE

IMPORTED AND MATERIAL  
REUSE LOCATIONS

|                       |              |           |              |
|-----------------------|--------------|-----------|--------------|
| ISSUED FOR            | DESIGNED BY: | DRAWN BY: | REVIEWED BY: |
| FINAL                 | MFP          | MFP       | MFP          |
| Monday, June 22, 2020 |              |           |              |

PROJECT/DRAWING NUMBER

[ 2182207 ]

[ FIGURE 4 ]

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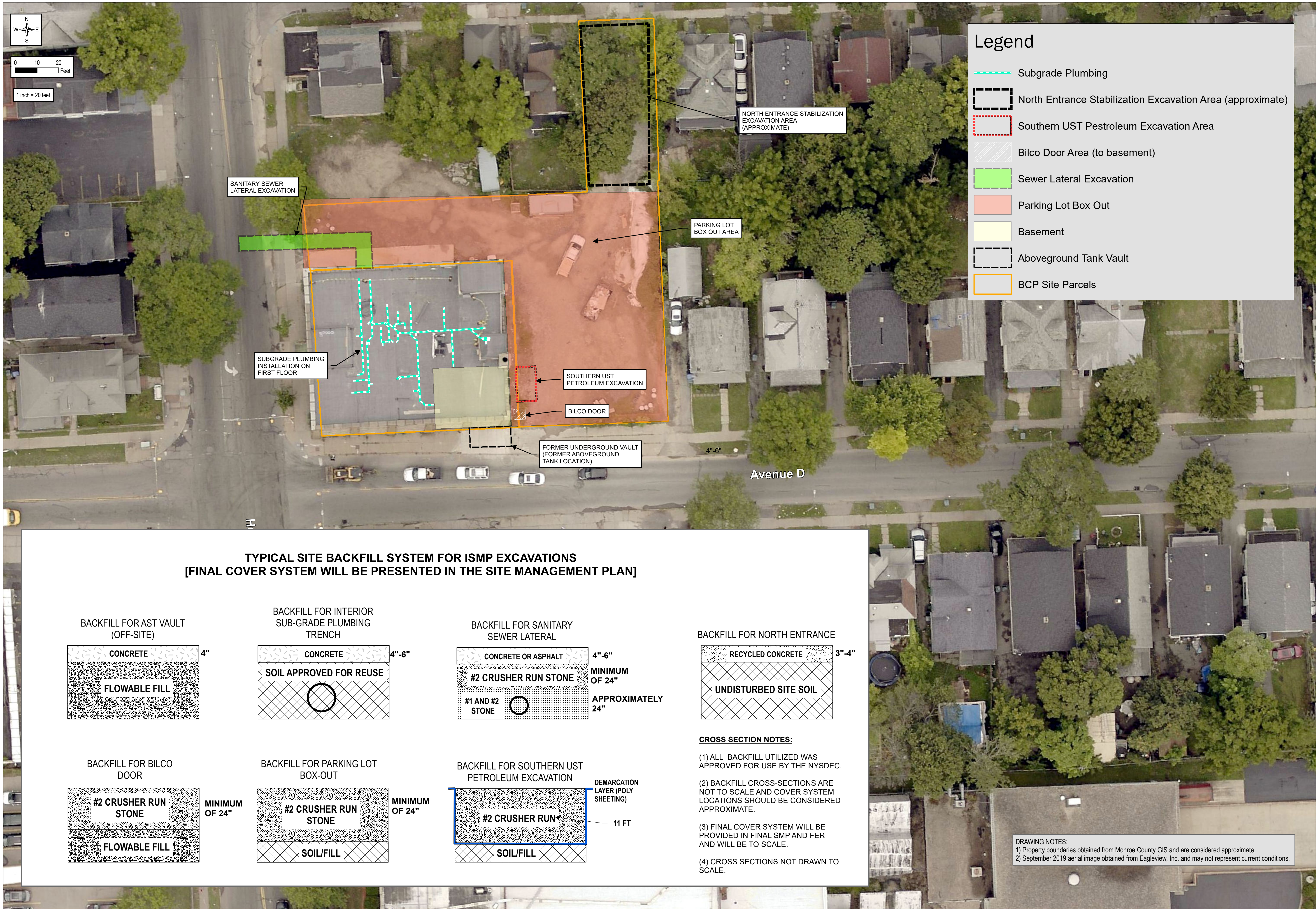
It is a violation of New York Education Law Article 145 Sec 7203 for a person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, professional engineer, or land surveyor, altering architect, engineer or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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CAP 000007320



I:\Jefferson Wollensack LLC\2182207 - 872 & 886 Hudson Brownfield\Drawings\Site Development\CCRF\Figure 5 - ISMP Backfill Locations Larger.mxd



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**PROJECT / CLIENT**

Client: JEFFERSON WOLLENSACK, LLC

Project: CONSTRUCTION COMPLETION REPORT  
FORMER WOLLENSACK OPTICAL  
NYSDEC BCP SITE #C828209  
872 AND 888 HUDSON AVENUE  
ROCHESTER, NEW YORK

**DRAWING TITLE**

IMPORTERD MATERIAL  
REUSE AND LOCATIONS

ISSUED FOR: FINAL

DESIGNED BY: MFP

DRAWN BY: MFP

REVIEWED BY: MFP

Tuesday, November 10, 2020

INTENDED TO PRINT AS 22" X 34"

**PROJECT/DRAWING NUMBER**

[ 2182207 ]

[ FIGURE 5 ]





# TABLES



**TABLE 4.3.6B**  
**Jefferson Wollensack Soil Disposal Tracking**



| Hauler                             | Truck #      | Date      | Profile | Weigh Ticket | Manifest | Tonnage |
|------------------------------------|--------------|-----------|---------|--------------|----------|---------|
| TASK: Parking Lot Box Out          |              |           |         |              |          |         |
| Riccelli                           | Riccelli 21  | 1/8/2020  | 121857  | 1329065      | 70310    | 17.75   |
| Riccelli                           | Riccelli 360 | 1/8/2020  | 121857  | 1329067      | 79700    | 14.90   |
| Riccelli                           | Riccelli 11  | 1/8/2020  | 121857  | 1329075      | 0088733  | 19.64   |
| Riccelli                           | Riccelli 338 | 1/8/2020  | 121857  | 1329071      | 70474    | 15.59   |
| Riccelli                           | Riccelli 17  | 1/8/2020  | 121857  | 1329083      | 0088743  | 19.20   |
| Riccelli                           | Riccelli 21  | 1/8/2020  | 121857  | 1329151      | 70311    | 23.22   |
| Riccelli                           | Riccelli 360 | 1/8/2020  | 121857  | 1329155      | 79699    | 20.33   |
| Riccelli                           | Riccelli 11  | 1/8/2020  | 121857  | 1329161      | 0088734  | 18.56   |
| Riccelli                           | Riccelli 338 | 1/8/2020  | 121857  | 1329159      | 70475    | 19.62   |
| Riccelli                           | Riccelli 17  | 1/8/2020  | 121857  | 1329199      | 0088741  | 21.33   |
| Riccelli                           | Riccelli 21  | 1/8/2020  | 121857  | 1329215      | 70312    | 22.32   |
| Riccelli                           | Riccelli 360 | 1/8/2020  | 121857  | 1329266      | 79701    | 18.77   |
| Riccelli                           | Riccelli 338 | 1/8/2020  | 121857  | 1329268      | 70476    | 21.68   |
| Riccelli                           | Riccelli 360 | 1/9/2020  | 121857  | 1329371      | 79703    | 16.98   |
| Riccelli                           | Riccelli 21  | 1/9/2020  | 121857  | 1329378      | 70313    | 21.40   |
| Riccelli                           | Riccelli 338 | 1/9/2020  | 121857  | 1329379      | 70477    | 22.64   |
| Riccelli                           | Riccelli 17  | 1/9/2020  | 121857  | 1329381      | 0088742  | 20.84   |
| Riccelli                           | Riccelli 13  | 1/9/2020  | 121857  | 1329432      | 0088735  | 19.27   |
| Riccelli                           | Riccelli 360 | 1/9/2020  | 121857  | 1329465      | 79702    | 22.51   |
| Riccelli                           | Riccelli 12  | 1/9/2020  | 121857  | 1329463      | 10458    | 19.72   |
| Riccelli                           | Riccelli 21  | 1/9/2020  | 121857  | 1329474      | 70314    | 20.69   |
| Riccelli                           | Riccelli 338 | 1/9/2020  | 121857  | 1329479      | 70480    | 20.90   |
| Riccelli                           | Riccelli 17  | 1/9/2020  | 121857  | 1329521      | 0088740  | 23.16   |
| Riccelli                           | Riccelli 13  | 1/9/2020  | 121857  | 1329545      | 0088736  | 22.68   |
| Riccelli                           | Riccelli 360 | 1/9/2020  | 121857  | 1329548      | 10461    | 24.83   |
| Riccelli                           | Riccelli 12  | 1/9/2020  | 121857  | 1329552      | 10459    | 23.89   |
| Riccelli                           | Riccelli 21  | 1/9/2020  | 121857  | 1329554      | 70315    | 23.59   |
| Riccelli                           | Riccelli 338 | 1/9/2020  | 121857  | 1329559      | 70478    | 20.44   |
| Riccelli                           | Riccelli 17  | 1/9/2020  | 121857  | 1329593      | 0088744  | 21.65   |
| Riccelli                           | Riccelli 13  | 1/9/2020  | 121857  | 1329608      | 0088732  | 21.29   |
| Riccelli                           | Riccelli 360 | 1/9/2020  | 121857  | 1329615      | 0088749  | 22.90   |
| Riccelli                           | Riccelli 21  | 1/9/2020  | 121857  | 1329618      | 70316    | 19.75   |
| Riccelli                           | Riccelli 12  | 1/9/2020  | 121857  | 1329620      | 10460    | 19.49   |
| Riccelli                           | Riccelli 338 | 1/9/2020  | 121857  | 1329622      | 70479    | 24.04   |
| Riccelli                           | Riccelli 360 | 1/10/2020 | 121857  | 1329707      | 0088748  | 19.91   |
| Riccelli                           | Riccelli 51  | 1/10/2020 | 121857  | 1329711      | 70364    | 16.33   |
| Riccelli                           | Riccelli 338 | 1/10/2020 | 121857  | 1329718      | 70481    | 23.15   |
| Riccelli                           | Riccelli 17  | 1/10/2020 | 121857  | 1329721      | 0088516  | 21.24   |
| Riccelli                           | Riccelli 11  | 1/10/2020 | 121857  | 1329723      | 0088737  | 22.46   |
| Riccelli                           | Riccelli 360 | 1/10/2020 | 121857  | 1329739      | 0088747  | 21.72   |
| Riccelli                           | Riccelli 51  | 1/10/2020 | 121857  | 1329743      | 70497    | 16.42   |
| Riccelli                           | Riccelli 338 | 1/10/2020 | 121857  | 1329751      | 70482    | 20.21   |
| Riccelli                           | Riccelli 11  | 1/10/2020 | 121857  | 1329754      | 0088738  | 21.40   |
| Riccelli                           | Riccelli 17  | 1/10/2020 | 121857  | 1329764      | 0088745  | 21.55   |
| Riccelli                           | Riccelli 21  | 1/10/2020 | 121857  | 1329769      | 70317    | 26.53   |
| Riccelli                           | Riccelli 360 | 1/10/2020 | 121857  | 1329776      | 0088746  | 22.78   |
| Riccelli                           | Riccelli 51  | 1/10/2020 | 121857  | 1329784      | 70496    | 18.24   |
| Riccelli                           | Riccelli 338 | 1/10/2020 | 121857  | 1329794      | 70483    | 24.70   |
| Riccelli                           | Riccelli 11  | 1/10/2020 | 121857  | 1329800      | 70365    | 22.03   |
| Riccelli                           | Riccelli 17  | 1/10/2020 | 121857  | 1329803      | 0088515  | 22.01   |
| Riccelli                           | Riccelli 325 | 1/10/2020 | 121857  | 1329807      | 70318    | 32.15   |
| Parking Lot Box Out Total: 1078.40 |              |           |         |              |          |         |



| SAMPLE ID:                  | NYCRR Part<br>375<br>Unrestricted<br>Use SCOs | NYCRR Part<br>375 Restricted<br>Residential Use<br>SCOs | NYCRR Part<br>375 Protection<br>of<br>Groundwater<br>SCOs | New York DEC<br>CP-51 Soil<br>Cleanup Levels | TANK-BOT-122019 |     | TANK-EAST-122019 |    | TANK-NORTH-<br>122019 |    | TANK-SOUTH-<br>122019 |    | DUP-01-122019<br>(Parent = South) |     | TANK-WEST-<br>122019 |    |
|-----------------------------|-----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|-----------------|-----|------------------|----|-----------------------|----|-----------------------|----|-----------------------------------|-----|----------------------|----|
| SAMPLE TYPE                 |                                               |                                                         |                                                           |                                              | BOTTOM          |     | SIDEWALL         |    | SIDEWALL              |    | SIDEWALL              |    | SIDEWALL                          |     | SIDEWALL             |    |
| COLLECTION DATE:            |                                               |                                                         |                                                           |                                              | 12/20/2019      |     | 12/20/2019       |    | 12/20/2019            |    | 12/20/2019            |    | 12/20/2019                        |     | 12/20/2019           |    |
| SAMPLE DEPTH (bgs):         |                                               |                                                         |                                                           |                                              | 11'             |     | 10'              |    | 8'                    |    | 8'                    |    | 8'                                |     | 8'                   |    |
|                             |                                               |                                                         |                                                           |                                              | Conc            | Q   | Conc             | Q  | Conc                  | Q  | Conc                  | Q  | Conc                              | Q   | Conc                 | Q  |
| Volatile Organic Compounds  |                                               |                                                         |                                                           |                                              |                 |     |                  |    |                       |    |                       |    |                                   |     |                      |    |
| 1,1,1-Trichloroethane       | 0.68                                          | 100                                                     | 0.68                                                      | NL                                           | 0.058           | UD  | 0.00041          | U  | 0.00042               | U  | 0.048                 | UD | 0.1                               | UD  | 0.12                 | UD |
| 1,1,1,2-Tetrachloroethane   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.058           | UD  | 0.00041          | U  | 0.00042               | UJ | 0.048                 | UD | 0.1                               | UD  | 0.12                 | UD |
| 1,1,2-Trichloroethane       | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| 1,1-Dichloroethane          | 0.27                                          | 26                                                      | 0.27                                                      | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| 1,1-Dichloroethene          | 0.33                                          | 100                                                     | 0.33                                                      | NL                                           | 0.12            | UD  | 0.00082          | UJ | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| 1,2,4-Trichlorobenzene      | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.23            | UD  | 0.0016           | U  | 0.0017                | UJ | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| 1,2,4-Trimethylbenzene      | 3.6                                           | 52                                                      | 3.6                                                       | 3.6                                          | 0.23            | UD  | 0.0012           | J  | 0.0017                | UJ | 0.38                  |    | 1.8                               | D   | 2.5                  | D  |
| 1,2-Dibromo-3-chloropropane | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.35            | UD  | 0.0025           | U  | 0.0025                | U  | 0.29                  | UD | 0.61                              | UD  | 0.7                  | UD |
| 1,2-Dibromoethane           | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| 1,2-Dichlorobenzene         | 1.1                                           | 100                                                     | 1.1                                                       | NL                                           | 0.23            | UD  | 0.0016           | U  | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| 1,2-Dichloroethane          | 0.02                                          | 3.1                                                     | 0.02                                                      | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| 1,2-Dichloropropane         | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| 1,3,5-Trimethylbenzene      | 8.4                                           | 52                                                      | 8.4                                                       | NL                                           | 0.23            | UD  | 0.0002           | J  | 0.0017                | UJ | 0.058                 | J  | 0.25                              | JD  | 0.44                 | JD |
| 1,3-Dichlorobenzene         | 2.4                                           | 49                                                      | 2.4                                                       | NL                                           | 0.23            | UD  | 0.0016           | U  | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| 1,4-Dichlorobenzene         | 1.8                                           | 13                                                      | 1.8                                                       | NL                                           | 0.23            | UD  | 0.0016           | U  | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| 2-Butanone                  | 0.12                                          | 100                                                     | 0.12                                                      | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.0083                | U  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| 2-Hexanone                  | NL                                            | NL                                                      | NL                                                        | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.0083                | U  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| 4-Methyl-2-pentanone        | NL                                            | NL                                                      | NL                                                        | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.0083                | U  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| Acetone                     | 0.05                                          | 100                                                     | 0.05                                                      | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.064                 | J  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| Benzene                     | 0.06                                          | 4.8                                                     | 0.06                                                      | 0.06                                         | 0.058           | UD  | 0.00041          | U  | 0.00042               | U  | 0.048                 | UD | 0.1                               | UD  | 0.12                 | UD |
| Bromodichloromethane        | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.058           | UD  | 0.00041          | U  | 0.00042               | U  | 0.048                 | UD | 0.1                               | UD  | 0.12                 | UD |
| Bromoform                   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.46            | UD  | 0.0033           | U  | 0.0033                | U  | 0.39                  | UD | 0.82                              | UD  | 0.93                 | UD |
| Bromomethane                | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.23            | UD  | 0.0016           | UJ | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| Carbon disulfide            | NL                                            | NL                                                      | NL                                                        | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.0083                | U  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| Carbon tetrachloride        | 0.76                                          | 2.4                                                     | 0.76                                                      | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| Chlorobenzene               | 1.1                                           | 100                                                     | 1.1                                                       | NL                                           | 0.058           | UD  | 0.00041          | U  | 0.00042               | U  | 0.048                 | UD | 0.1                               | UD  | 0.12                 | UD |
| Chloroethane                | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.23            | UD  | 0.0016           | UJ | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| Chloroform                  | 0.37                                          | 49                                                      | 0.37                                                      | NL                                           | 0.17            | UD  | 0.0012           | U  | 0.00029               | J  | 0.14                  | UD | 0.31                              | UD  | 0.35                 | UD |
| Chloromethane               | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.46            | UD  | 0.0033           | U  | 0.0033                | U  | 0.39                  | UD | 0.82                              | UD  | 0.93                 | UD |
| cis-1,2-Dichloroethene      | 0.25                                          | 100                                                     | 0.25                                                      | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| cis-1,3-Dichloropropene     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.058           | UD  | 0.00041          | U  | 0.00042               | U  | 0.048                 | UD | 0.1                               | UD  | 0.12                 | UD |
| Cyclohexane                 | NL                                            | NL                                                      | NL                                                        | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.0083                | U  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| Dibromochloromethane        | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| Dichlorodifluoromethane     | NL                                            | NL                                                      | NL                                                        | NL                                           | 1.2             | UD  | 0.0082           | U  | 0.0083                | U  | 0.97                  | UD | 2                                 | UD  | 2.3                  | UD |
| Ethylbenzene                | 1                                             | 41                                                      | 1                                                         | 1                                            | 0.12            | UD  | 0.00082          | U  | 0.00083               | UJ | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| Freon-113                   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.46            | UD  | 0.0033           | U  | 0.0033                | U  | 0.39                  | UD | 0.82                              | UD  | 0.93                 | UD |
| Isopropylbenzene            | NL                                            | NL                                                      | NL                                                        | 2.3                                          | 0.12            | UD  | 0.00082          | U  | 0.00083               | UJ | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| Methyl Acetate              | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.46            | UD  | 0.0033           | U  | 0.0016                | J  | 0.39                  | UD | 0.82                              | UD  | 0.93                 | UD |
| Methyl cyclohexane          | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.46            | UD  | 0.0033           | U  | 0.0033                | U  | 0.39                  | UD | 0.82                              | UD  | 0.93                 | UD |
| Methyl tert butyl ether     | 0.93                                          | 100                                                     | 0.93                                                      | 0.93                                         | 0.23            | UD  | 0.0016           | U  | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| Methylene chloride          | 0.05                                          | 100                                                     | 0.05                                                      | NL                                           | 0.58            | UD  | 0.0041           | U  | 0.0042                | U  | 0.48                  | UD | 1                                 | UD  | 1.2                  | UD |
| n-Butylbenzene              | 12                                            | 100                                                     | 12                                                        | 12                                           | 0.031           | JD  | 0.00077          | J  | 0.00083               | UJ | 0.38                  |    | 1.4                               | D   | 0.98                 | D  |
| n-Propylbenzene             | 3.9                                           | 100                                                     | 3.9                                                       | 3.9                                          | 0.12            | UD  | 0.00082          | U  | 0.00083               | UJ | 0.097                 | UD | 0.047                             | JD  | 0.06                 | JD |
| Naphthalene                 | 12                                            | 100                                                     | 12                                                        | 12                                           | 1.6             | DJ  | 0.009            |    | 0.0033                | UJ | 2.2                   |    | 10                                | D   | 6.3                  | D  |
| o-Xylene                    | NL                                            | NL                                                      | NL                                                        | 0.26                                         | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| p-Isopropyltoluene          | NL                                            | NL                                                      | NL                                                        | 10                                           | 0.12            | UD  | 0.00031          | J  | 0.00083               | UJ | 0.09                  | J  | 0.39                              | D   | 0.44                 | D  |
| p/m-Xylene                  | NL                                            | NL                                                      | NL                                                        | 0.26                                         | 0.23            | UD  | 0.0016           | U  | 0.0017                | U  | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| sec-Butylbenzene            | 11                                            | 100                                                     | 11                                                        | 11                                           | 0.12            | UD  | 0.00017          | J  | 0.00083               | UJ | 0.049                 | J  | 0.2                               | D   | 0.27                 | D  |
| Styrene                     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| tert-Butylbenzene           | 5.9                                           | 100                                                     | 5.9                                                       | 5.9                                          | 0.23            | UD  | 0.0016           | U  | 0.0017                | UJ | 0.19                  | UD | 0.41                              | UD  | 0.47                 | UD |
| Tetrachloroethene           | 1.3                                           | 19                                                      | 1.3                                                       | NL                                           | 0.058           | UD  | 0.00041          | U  | 0.00042               | U  | 0.048                 | UD | 0.1                               | UD  | 0.079                | JD |
| Toluene                     | 0.7                                           | 100                                                     | 0.7                                                       | 0.7                                          | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| trans-1,2-Dichloroethene    | 0.19                                          | 100                                                     | 0.19                                                      | NL                                           | 0.17            | UD  | 0.00043          | J  | 0.0012                | U  | 0.14                  | UD | 0.31                              | UD  | 0.35                 | UD |
| trans-1,3-Dichloropropene   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| Trichloroethene             | 0.47                                          | 21                                                      | 0.47                                                      | NL                                           | 0.058           | UDJ | 0.00041          | U  | 0.00082               | J  | 0.031                 | JD | 0.1                               | UDJ | 0.15                 | DJ |
| Trichlorofluoromethane      | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.46            | UD  | 0.0033           | UJ | 0.0033                | U  | 0.39                  | UD | 0.82                              | UD  | 0.93                 | UD |
| Vinyl chloride              | 0.02                                          | 0.9                                                     | 0.02                                                      | NL                                           | 0.12            | UD  | 0.00082          | U  | 0.00083               | U  | 0.097                 | UD | 0.2                               | UD  | 0.23                 | UD |
| Total VOCs                  | -                                             | -                                                       | -                                                         | -                                            | 1.631           | D   | 0.01208          |    | 0.06671               |    | 3.188                 | D  | 14.087                            | D   | 11.219               | D  |
| Total TIC Compounds         | -                                             | -                                                       | -                                                         | -                                            | 29.2            | JD  | 1.34             | J  | 0.0747                | J  | 44.9                  | JD | 212                               | JD  | 144                  | JD |
| TOTAL VOCs + TICs           | -                                             | -                                                       | -                                                         | -                                            | 30.831          | D   | 1.35208          |    | 0.14141               |    | 48.088                | D  | 226.087                           | D   | 155.219              | D  |

NOTES:  
All values displayed in milligrams per kilograms (mg/kg) or parts per million (ppm).  
"NL" indicates Not Listed.  
"U" indicates the compound was not detected above the indicated laboratory method detection limit (MDL).  
"D" indicates the sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.  
"J" indicates an estimated value.  
"-" indicates not applicable  
Single Underline indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective (SCO).  
Yellow highlight indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Protection of Groundwater SCO.  
VOCs analyzed by USEPA Method 8260.



| SAMPLE ID:                     | NYCRR Part<br>375<br>Unrestricted<br>Use SCOs | NYCRR Part<br>375 Restricted<br>Residential Use<br>SCOs | NYCRR Part<br>375 Protection<br>of<br>Groundwater<br>SCOs | New York DEC<br>CP-51 Soil<br>Cleanup Levels | TANK-BOT-122019 | TANK-EAST-122019 | TANK-NORTH-<br>122019 | TANK-SOUTH-<br>122019 | DUP-01-122019<br>(Parent = South) | TANK-WEST-<br>122019 |         |    |       |    |        |    |
|--------------------------------|-----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|-----------------|------------------|-----------------------|-----------------------|-----------------------------------|----------------------|---------|----|-------|----|--------|----|
| SAMPLE TYPE                    |                                               |                                                         |                                                           |                                              | BOTTOM          | SIDEWALL         | SIDEWALL              | SIDEWALL              | SIDEWALL                          | SIDEWALL             |         |    |       |    |        |    |
| COLLECTION DATE:               |                                               |                                                         |                                                           |                                              | 12/20/2019      | 12/20/2019       | 12/20/2019            | 12/20/2019            | 12/20/2019                        | 12/20/2019           |         |    |       |    |        |    |
| SAMPLE DEPTH (bgs):            |                                               |                                                         |                                                           |                                              | 11'             | 10'              | 8'                    | 8'                    | 8'                                | 8'                   |         |    |       |    |        |    |
|                                |                                               |                                                         |                                                           |                                              | Conc            | Q                | Conc                  | Q                     | Conc                              | Q                    | Conc    | Q  |       |    |        |    |
| Semivolatile Organic Compounds |                                               |                                                         |                                                           |                                              |                 |                  |                       |                       |                                   |                      |         |    |       |    |        |    |
| 1,2,4,5-Tetrachlorobenzene     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2,3,4,6-Tetrachlorophenol      | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2,4,5-Trichlorophenol          | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2,4,6-Trichlorophenol          | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.12            | U                | 0.11                  | U                     | 0.12                              | U                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| 2,4-Dichlorophenol             | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.18            | U                | 0.17                  | U                     | 0.17                              | U                    | 0.85    | UD | 0.83  | UD | 1.8    | UD |
| 2,4-Dimethylphenol             | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2,4-Dinitrophenol              | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.96            | U                | 0.89                  | U                     | 0.93                              | U                    | 4.6     | UD | 4.4   | UD | 9.6    | UD |
| 2,4-Dinitrotoluene             | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2,6-Dinitrotoluene             | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2-Chloronaphthalene            | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2-Chlorophenol                 | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2-Methylnaphthalene            | NL                                            | NL                                                      | NL                                                        | NL                                           | 1.2             |                  | 0.22                  | U                     | 0.23                              | U                    | 15      | D  | 18    | D  | 30     | D  |
| 2-Methylphenol                 | 0.33                                          | 100                                                     | 0.33                                                      | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2-Nitroaniline                 | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 2-Nitrophenol                  | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.43            | U                | 0.4                   | U                     | 0.42                              | U                    | 2       | UD | 2     | UD | 4.3    | UD |
| 3,3'-Dichlorobenzidine         | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 3-Methylphenol/ 4-Methylpheno  | 0.33                                          | 100                                                     | 0.33                                                      | NL                                           | 0.29            | U                | 0.27                  | U                     | 0.28                              | U                    | 1.4     | UD | 1.3   | UD | 2.9    | UD |
| 3-Nitroaniline                 | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 4,6-Dinitro-o-cresol           | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.52            | U                | 0.48                  | U                     | 0.5                               | U                    | 2.5     | UD | 2.4   | UD | 5.2    | UD |
| 4-Bromophenyl phenyl ether     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 4-Chloroaniline                | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 4-Chlorophenyl phenyl ether    | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 4-Nitroaniline                 | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| 4-Nitrophenol                  | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.28            | U                | 0.26                  | U                     | 0.27                              | U                    | 1.3     | UD | 1.3   | UD | 2.8    | UD |
| Acenaphthene                   | 20                                            | 100                                                     | 98                                                        | 20                                           | 0.042           | J                | 0.15                  | U                     | 0.16                              | U                    | 0.46    | JD | 0.5   | JD | 1.3    | JD |
| Acenaphthylene                 | 100                                           | 100                                                     | 107                                                       | 100                                          | 0.16            | U                | 0.15                  | U                     | 0.16                              | U                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Acetophenone                   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Anthracene                     | 100                                           | 100                                                     | 1000                                                      | 100                                          | 0.12            | U                | 0.11                  | U                     | 0.12                              | U                    | 0.57    | UD | 0.55  | UD | 0.52   | JD |
| Atrazine                       | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.16            | U                | 0.15                  | U                     | 0.16                              | U                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Benzaldehyde                   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.26            | U                | 0.24                  | U                     | 0.26                              | U                    | 1.2     | UD | 1.2   | UD | 2.6    | UD |
| Benzo(a)anthracene             | 1                                             | 1                                                       | 1                                                         | 1                                            | 0.12            | U                | 0.11                  | U                     | 0.064                             | J                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Benzo(a)pyrene                 | 1                                             | 1                                                       | 22                                                        | 1                                            | 0.16            | U                | 0.15                  | U                     | 0.16                              | U                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Benzo(b)fluoranthene           | 1                                             | 1                                                       | 1.7                                                       | 1                                            | 0.12            | U                | 0.11                  | U                     | 0.062                             | J                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Benzo(ghi)perylene             | 100                                           | 100                                                     | 1000                                                      | 100                                          | 0.16            | U                | 0.15                  | U                     | 0.033                             | J                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Benzo(k)fluoranthene           | 0.8                                           | 3.9                                                     | 1.7                                                       | 0.8                                          | 0.12            | U                | 0.11                  | U                     | 0.12                              | U                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Biphenyl                       | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.16            | J                | 0.42                  | U                     | 0.44                              | U                    | 1.7     | JD | 2.1   | D  | 3.7    | JD |
| Bis(2-chloroethoxy)methane     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.22            | U                | 0.2                   | U                     | 0.21                              | U                    | 1       | UD | 1     | UD | 2.2    | UD |
| Bis(2-chloroethyl)ether        | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.18            | U                | 0.17                  | U                     | 0.17                              | U                    | 0.85    | UD | 0.83  | UD | 1.8    | UD |
| Bis(2-chloroisopropyl)ether    | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.24            | U                | 0.22                  | U                     | 0.23                              | U                    | 1.1     | UD | 1.1   | UD | 2.4    | UD |
| Bis(2-ethylhexyl)phthalate     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Butyl benzyl phthalate         | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Caprolactam                    | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Carbazole                      | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Chrysene                       | 1                                             | 3.9                                                     | 1                                                         | 1                                            | 0.12            | U                | 0.11                  | U                     | 0.053                             | J                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Di-n-butylphthalate            | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Di-n-octylphthalate            | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Dibenzo(a,h)anthracene         | 0.33                                          | 0.33                                                    | 1000                                                      | 0.33                                         | 0.12            | U                | 0.11                  | U                     | 0.12                              | U                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Dibenzofuran                   | 7                                             | 59                                                      | 210                                                       | NL                                           | 0.074           | J                | 0.18                  | U                     | 0.19                              | U                    | 0.73    | JD | 0.87  | JD | 1.5    | JD |
| Diethyl phthalate              | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Dimethyl phthalate             | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Fluoranthene                   | 100                                           | 100                                                     | 1000                                                      | 100                                          | 0.12            | U                | 0.11                  | U                     | 0.13                              |                      | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Fluorene                       | 30                                            | 100                                                     | 386                                                       | 30                                           | 0.098           | J                | 0.18                  | U                     | 0.19                              | U                    | 0.98    | D  | 1.2   | D  | 2.5    | D  |
| Hexachlorobenzene              | 0.33                                          | 1.2                                                     | 3.2                                                       | NL                                           | 0.12            | U                | 0.11                  | U                     | 0.12                              | U                    | 0.57    | UD | 0.55  | UD | 1.2    | UD |
| Hexachlorobutadiene            | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Hexachlorocyclopentadiene      | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.57            | U                | 0.53                  | U                     | 0.56                              | U                    | 2.7     | UD | 2.6   | UD | 5.7    | UD |
| Hexachloroethane               | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.16            | U                | 0.15                  | U                     | 0.16                              | U                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Indeno(1,2,3-cd)pyrene         | 0.5                                           | 0.5                                                     | 8.2                                                       | 0.5                                          | 0.16            | U                | 0.15                  | U                     | 0.035                             | J                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Isophorone                     | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.18            | U                | 0.17                  | U                     | 0.17                              | U                    | 0.85    | UD | 0.83  | UD | 1.8    | UD |
| n-Nitrosodi-n-propylamine      | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Naphthalene                    | 12                                            | 100                                                     | 12                                                        | 12                                           | 0.21            |                  | 0.18                  | U                     | 0.19                              | U                    | 2.6     | D  | 3.2   | D  | 5.5    | D  |
| NDPA/DPA                       | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.16            | U                | 0.15                  | U                     | 0.16                              | U                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Nitrobenzene                   | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.18            | U                | 0.17                  | U                     | 0.17                              | U                    | 0.85    | UD | 0.83  | UD | 1.8    | UD |
| p-Chloro-m-cresol              | NL                                            | NL                                                      | NL                                                        | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Pentachlorophenol              | 0.8                                           | 6.7                                                     | 0.8                                                       | NL                                           | 0.16            | U                | 0.15                  | U                     | 0.16                              | U                    | 0.76    | UD | 0.74  | UD | 1.6    | UD |
| Phenanthrene                   | 100                                           | 100                                                     | 1000                                                      | 100                                          | 0.22            |                  | 0.11                  | U                     | 0.079                             | J                    | 2.3     | D  | 2.6   | D  | 5.1    | D  |
| Phenol                         | 0.33                                          | 100                                                     | 0.33                                                      | NL                                           | 0.2             | U                | 0.18                  | U                     | 0.19                              | U                    | 0.95    | UD | 0.92  | UD | 2      | UD |
| Pyrene                         | 100                                           | 100                                                     | 1000                                                      | 100                                          | 0.02            | J                | 0.11                  | U                     | 0.11                              | J                    | 0.096   | JD | 0.13  | JD | 0.4    | JD |
| Total SVOCs                    | -                                             | -                                                       | -                                                         | -                                            | 2.024           |                  | -                     |                       | 0.566                             |                      | 23.866  | D  | 28.6  | D  | 50.52  | D  |
| Total TIC Compounds            | -                                             | -                                                       | -                                                         | -                                            | 23.3            | J                | -                     |                       | -                                 |                      | 198     | JD | 276   | JD | 646    | JD |
| TOTAL SVOCs + TICs             | -                                             | -                                                       | -                                                         | -                                            | 25.324          |                  | 0                     |                       | 0.566                             |                      | 221.866 | D  | 304.6 | D  | 696.52 | D  |

NOTES:

All values displayed in milligrams per kilograms (mg/kg) or parts per million (ppm).

"NL" indicates Not Listed.

"U" indicates the compound was not detected above the indicated laboratory method detection limit (MDL).

"D" indicates the sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

"J" indicates an estimated value.

"-" indicates not applicable

SVOCs analyzed by USEPA Method 8270.





# **APPENDIX A**

## **Electronic Copy of Construction Completion Report**





# APPENDIX B

## Community Air Monitoring Plan (CAMP) Logs



# **Basement/First Floor Interior CAMP Data**

**(Basement Slab Removal and  
Subgrade Plumbing Installation for  
Site Building)**



# Test 001

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/03/2019  |
| Instrument S/N | 8530183205  | Start Time       | 08:05:33    |
|                |             | Stop Date        | 12/03/2019  |
|                |             | Stop Time        | 15:05:33    |
|                |             | Total Time       | 0:07:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.116 mg/m <sup>3</sup> |
| Max            | 1.230 mg/m <sup>3</sup> |
| Max Date       | 12/03/2019              |
| Max Time       | 08:50:33                |
| Min            | 0.040 mg/m <sup>3</sup> |
| Min Date       | 12/03/2019              |
| Min Time       | 08:35:33                |
| TWA (8 hr)     | 0.102                   |
| TWA Start Date | 12/03/2019              |
| TWA Start Time | 08:05:33                |
| TWA End Time   | 15:05:33                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/03/2019 | 08:20:33 | 0.044                     |
| 2          | 12/03/2019 | 08:35:33 | 0.040                     |
| 3          | 12/03/2019 | 08:50:33 | 1.230                     |
| 4          | 12/03/2019 | 09:05:33 | 0.216                     |
| 5          | 12/03/2019 | 09:20:33 | 0.091                     |
| 6          | 12/03/2019 | 09:35:33 | 0.234                     |
| 7          | 12/03/2019 | 09:50:33 | 0.102                     |
| 8          | 12/03/2019 | 10:05:33 | 0.121                     |
| 9          | 12/03/2019 | 10:20:33 | 0.071                     |
| 10         | 12/03/2019 | 10:35:33 | 0.054                     |
| 11         | 12/03/2019 | 10:50:33 | 0.064                     |
| 12         | 12/03/2019 | 11:05:33 | 0.040                     |
| 13         | 12/03/2019 | 11:20:33 | 0.063                     |
| 14         | 12/03/2019 | 11:35:33 | 0.058                     |
| 15         | 12/03/2019 | 11:50:33 | 0.071                     |
| 16         | 12/03/2019 | 12:05:33 | 0.052                     |
| 17         | 12/03/2019 | 12:20:33 | 0.049                     |
| 18         | 12/03/2019 | 12:35:33 | 0.048                     |
| 19         | 12/03/2019 | 12:50:33 | 0.059                     |
| 20         | 12/03/2019 | 13:05:33 | 0.074                     |
| 21         | 12/03/2019 | 13:20:33 | 0.056                     |



| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 12/03/2019 | 13:35:33 | 0.060          |
| 23         | 12/03/2019 | 13:50:33 | 0.055          |
| 24         | 12/03/2019 | 14:05:33 | 0.052          |
| 25         | 12/03/2019 | 14:20:33 | 0.057          |
| 26         | 12/03/2019 | 14:35:33 | 0.064          |
| 27         | 12/03/2019 | 14:50:33 | 0.054          |
| 28         | 12/03/2019 | 15:05:33 | 0.071          |



# Test 002

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/04/2019  |
| Instrument S/N | 8530183205  | Start Time       | 07:08:40    |
|                |             | Stop Date        | 12/04/2019  |
|                |             | Stop Time        | 15:08:40    |
|                |             | Total Time       | 0:08:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                          |
|----------------|--------------------------|
|                | <b>AEROSOL</b>           |
| Avg            | 0.352 mg/m <sup>3</sup>  |
| Max            | 3.390 mg/m <sup>3</sup>  |
| Max Date       | 12/04/2019               |
| Max Time       | 09:38:40                 |
| Min            | -0.056 mg/m <sup>3</sup> |
| Min Date       | 12/04/2019               |
| Min Time       | 08:23:40                 |
| TWA (8 hr)     | 0.352                    |
| TWA Start Date | 12/04/2019               |
| TWA Start Time | 07:08:40                 |
| TWA End Time   | 15:08:40                 |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/04/2019 | 07:23:40 | -0.031                    |
| 2          | 12/04/2019 | 07:38:40 | -0.015                    |
| 3          | 12/04/2019 | 07:53:40 | -0.048                    |
| 4          | 12/04/2019 | 08:08:40 | -0.055                    |
| 5          | 12/04/2019 | 08:23:40 | -0.056                    |
| 6          | 12/04/2019 | 08:38:40 | -0.049                    |
| 7          | 12/04/2019 | 08:53:40 | -0.050                    |
| 8          | 12/04/2019 | 09:08:40 | 0.199                     |
| 9          | 12/04/2019 | 09:23:40 | 1.270                     |
| 10         | 12/04/2019 | 09:38:40 | 3.390                     |
| 11         | 12/04/2019 | 09:53:40 | 1.330                     |
| 12         | 12/04/2019 | 10:08:40 | 0.033                     |
| 13         | 12/04/2019 | 10:23:40 | -0.014                    |
| 14         | 12/04/2019 | 10:38:40 | 0.303                     |
| 15         | 12/04/2019 | 10:53:40 | 0.737                     |
| 16         | 12/04/2019 | 11:08:40 | 2.390                     |
| 17         | 12/04/2019 | 11:23:40 | 0.260                     |
| 18         | 12/04/2019 | 11:38:40 | 0.068                     |
| 19         | 12/04/2019 | 11:53:40 | 0.004                     |
| 20         | 12/04/2019 | 12:08:40 | -0.034                    |
| 21         | 12/04/2019 | 12:23:40 | -0.040                    |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 12/04/2019 | 12:38:40 | -0.036         |
| 23         | 12/04/2019 | 12:53:40 | 0.992          |
| 24         | 12/04/2019 | 13:08:40 | 0.476          |
| 25         | 12/04/2019 | 13:23:40 | 0.050          |
| 26         | 12/04/2019 | 13:38:40 | 0.022          |
| 27         | 12/04/2019 | 13:53:40 | 0.033          |
| 28         | 12/04/2019 | 14:08:40 | 0.238          |
| 29         | 12/04/2019 | 14:23:40 | -0.025         |
| 30         | 12/04/2019 | 14:38:40 | -0.044         |
| 31         | 12/04/2019 | 14:53:40 | -0.032         |
| 32         | 12/04/2019 | 15:08:40 | -0.017         |



# Test 003

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/05/2019  |
| Instrument S/N | 8530183205  | Start Time       | 07:09:14    |
|                |             | Stop Date        | 12/05/2019  |
|                |             | Stop Time        | 15:09:14    |
|                |             | Total Time       | 0:08:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                          |
|----------------|--------------------------|
|                | <b>AEROSOL</b>           |
| Avg            | 0.668 mg/m <sup>3</sup>  |
| Max            | 7.540 mg/m <sup>3</sup>  |
| Max Date       | 12/05/2019               |
| Max Time       | 11:39:14                 |
| Min            | -0.051 mg/m <sup>3</sup> |
| Min Date       | 12/05/2019               |
| Min Time       | 09:39:14                 |
| TWA (8 hr)     | 0.668                    |
| TWA Start Date | 12/05/2019               |
| TWA Start Time | 07:09:14                 |
| TWA End Time   | 15:09:14                 |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/05/2019 | 07:24:14 | 0.011                     |
| 2          | 12/05/2019 | 07:39:14 | -0.044                    |
| 3          | 12/05/2019 | 07:54:14 | 0.009                     |
| 4          | 12/05/2019 | 08:09:14 | 0.020                     |
| 5          | 12/05/2019 | 08:24:14 | 0.248                     |
| 6          | 12/05/2019 | 08:39:14 | 0.489                     |
| 7          | 12/05/2019 | 08:54:14 | 0.140                     |
| 8          | 12/05/2019 | 09:09:14 | -0.033                    |
| 9          | 12/05/2019 | 09:24:14 | -0.036                    |
| 10         | 12/05/2019 | 09:39:14 | -0.051                    |
| 11         | 12/05/2019 | 09:54:14 | 0.652                     |
| 12         | 12/05/2019 | 10:09:14 | 1.470                     |
| 13         | 12/05/2019 | 10:24:14 | 0.006                     |
| 14         | 12/05/2019 | 10:39:14 | 0.980                     |
| 15         | 12/05/2019 | 10:54:14 | 0.237                     |
| 16         | 12/05/2019 | 11:09:14 | -0.044                    |
| 17         | 12/05/2019 | 11:24:14 | 1.570                     |
| 18         | 12/05/2019 | 11:39:14 | 7.540                     |
| 19         | 12/05/2019 | 11:54:14 | 1.290                     |
| 20         | 12/05/2019 | 12:09:14 | 0.123                     |
| 21         | 12/05/2019 | 12:24:14 | 0.092                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 12/05/2019 | 12:39:14 | 0.103          |
| 23         | 12/05/2019 | 12:54:14 | 0.157          |
| 24         | 12/05/2019 | 13:09:14 | 0.432          |
| 25         | 12/05/2019 | 13:24:14 | 0.188          |
| 26         | 12/05/2019 | 13:39:14 | 0.146          |
| 27         | 12/05/2019 | 13:54:14 | 0.097          |
| 28         | 12/05/2019 | 14:09:14 | 0.099          |
| 29         | 12/05/2019 | 14:24:14 | 0.198          |
| 30         | 12/05/2019 | 14:39:14 | 2.610          |
| 31         | 12/05/2019 | 14:54:14 | 2.450          |
| 32         | 12/05/2019 | 15:09:14 | 0.214          |



# Test 004

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/06/2019  |
| Instrument S/N | 8530183205  | Start Time       | 07:15:31    |
|                |             | Stop Date        | 12/06/2019  |
|                |             | Stop Time        | 14:45:31    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                          |
|----------------|--------------------------|
|                | AEROSOL                  |
| Avg            | 0.244 mg/m <sup>3</sup>  |
| Max            | 1.320 mg/m <sup>3</sup>  |
| Max Date       | 12/06/2019               |
| Max Time       | 10:15:31                 |
| Min            | -0.044 mg/m <sup>3</sup> |
| Min Date       | 12/06/2019               |
| Min Time       | 14:45:31                 |
| TWA (8 hr)     | 0.229                    |
| TWA Start Date | 12/06/2019               |
| TWA Start Time | 07:15:31                 |
| TWA End Time   | 14:45:31                 |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/06/2019 | 07:30:31 | -0.037                    |
| 2          | 12/06/2019 | 07:45:31 | 0.085                     |
| 3          | 12/06/2019 | 08:00:31 | 0.642                     |
| 4          | 12/06/2019 | 08:15:31 | 0.052                     |
| 5          | 12/06/2019 | 08:30:31 | -0.001                    |
| 6          | 12/06/2019 | 08:45:31 | 0.535                     |
| 7          | 12/06/2019 | 09:00:31 | 0.359                     |
| 8          | 12/06/2019 | 09:15:31 | 0.076                     |
| 9          | 12/06/2019 | 09:30:31 | 0.070                     |
| 10         | 12/06/2019 | 09:45:31 | -0.018                    |
| 11         | 12/06/2019 | 10:00:31 | 0.272                     |
| 12         | 12/06/2019 | 10:15:31 | 1.320                     |
| 13         | 12/06/2019 | 10:30:31 | 0.672                     |
| 14         | 12/06/2019 | 10:45:31 | 0.663                     |
| 15         | 12/06/2019 | 11:00:31 | 0.384                     |
| 16         | 12/06/2019 | 11:15:31 | 0.083                     |
| 17         | 12/06/2019 | 11:30:31 | 0.100                     |
| 18         | 12/06/2019 | 11:45:31 | 0.091                     |
| 19         | 12/06/2019 | 12:00:31 | 0.055                     |
| 20         | 12/06/2019 | 12:15:31 | 0.056                     |
| 21         | 12/06/2019 | 12:30:31 | 0.023                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 12/06/2019 | 12:45:31 | 0.000          |
| 23         | 12/06/2019 | 13:00:31 | -0.004         |
| 24         | 12/06/2019 | 13:15:31 | 0.488          |
| 25         | 12/06/2019 | 13:30:31 | 0.981          |
| 26         | 12/06/2019 | 13:45:31 | 0.241          |
| 27         | 12/06/2019 | 14:00:31 | 0.128          |
| 28         | 12/06/2019 | 14:15:31 | 0.049          |
| 29         | 12/06/2019 | 14:30:31 | 0.001          |
| 30         | 12/06/2019 | 14:45:31 | -0.044         |



# Test 006

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/13/2019  |
| Instrument S/N | 8530183205  | Start Time       | 10:03:29    |
|                |             | Stop Date        | 12/13/2019  |
|                |             | Stop Time        | 15:03:29    |
|                |             | Total Time       | 0:05:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.135 mg/m <sup>3</sup> |
| Max            | 0.376 mg/m <sup>3</sup> |
| Max Date       | 12/13/2019              |
| Max Time       | 10:48:29                |
| Min            | 0.060 mg/m <sup>3</sup> |
| Min Date       | 12/13/2019              |
| Min Time       | 14:18:29                |
| TWA (8 hr)     | 0.085                   |
| TWA Start Date | 12/13/2019              |
| TWA Start Time | 10:03:29                |
| TWA End Time   | 15:03:29                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/13/2019 | 10:18:29 | 0.298                     |
| 2          | 12/13/2019 | 10:33:29 | 0.355                     |
| 3          | 12/13/2019 | 10:48:29 | 0.376                     |
| 4          | 12/13/2019 | 11:03:29 | 0.181                     |
| 5          | 12/13/2019 | 11:18:29 | 0.115                     |
| 6          | 12/13/2019 | 11:33:29 | 0.075                     |
| 7          | 12/13/2019 | 11:48:29 | 0.089                     |
| 8          | 12/13/2019 | 12:03:29 | 0.081                     |
| 9          | 12/13/2019 | 12:18:29 | 0.070                     |
| 10         | 12/13/2019 | 12:33:29 | 0.072                     |
| 11         | 12/13/2019 | 12:48:29 | 0.158                     |
| 12         | 12/13/2019 | 13:03:29 | 0.207                     |
| 13         | 12/13/2019 | 13:18:29 | 0.086                     |
| 14         | 12/13/2019 | 13:33:29 | 0.074                     |
| 15         | 12/13/2019 | 13:48:29 | 0.067                     |
| 16         | 12/13/2019 | 14:03:29 | 0.063                     |
| 17         | 12/13/2019 | 14:18:29 | 0.060                     |
| 18         | 12/13/2019 | 14:33:29 | 0.060                     |
| 19         | 12/13/2019 | 14:48:29 | 0.120                     |
| 20         | 12/13/2019 | 15:03:29 | 0.101                     |

# Test 008

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/16/2019  |
| Instrument S/N | 8530183205  | Start Time       | 08:26:16    |
|                |             | Stop Date        | 12/16/2019  |
|                |             | Stop Time        | 11:11:16    |
|                |             | Total Time       | 0:02:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.002 mg/m <sup>3</sup> |
| Max            | 0.004 mg/m <sup>3</sup> |
| Max Date       | 12/16/2019              |
| Max Time       | 08:41:16                |
| Min            | 0.000 mg/m <sup>3</sup> |
| Min Date       | 12/16/2019              |
| Min Time       | 10:26:16                |
| TWA (8 hr)     | 0.001                   |
| TWA Start Date | 12/16/2019              |
| TWA Start Time | 08:26:16                |
| TWA End Time   | 11:11:16                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/16/2019 | 08:41:16 | 0.004                     |
| 2          | 12/16/2019 | 08:56:16 | 0.004                     |
| 3          | 12/16/2019 | 09:11:16 | 0.003                     |
| 4          | 12/16/2019 | 09:26:16 | 0.001                     |
| 5          | 12/16/2019 | 09:41:16 | 0.003                     |
| 6          | 12/16/2019 | 09:56:16 | 0.004                     |
| 7          | 12/16/2019 | 10:11:16 | 0.001                     |
| 8          | 12/16/2019 | 10:26:16 | 0.000                     |
| 9          | 12/16/2019 | 10:41:16 | 0.000                     |
| 10         | 12/16/2019 | 10:56:16 | 0.000                     |
| 11         | 12/16/2019 | 11:11:16 | 0.000                     |



# Test 009

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/17/2019  |
| Instrument S/N | 8530183205  | Start Time       | 07:39:15    |
|                |             | Stop Date        | 12/17/2019  |
|                |             | Stop Time        | 12:09:15    |
|                |             | Total Time       | 0:04:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.001 mg/m <sup>3</sup> |
| Max            | 0.002 mg/m <sup>3</sup> |
| Max Date       | 12/17/2019              |
| Max Time       | 10:39:15                |
| Min            | 0.000 mg/m <sup>3</sup> |
| Min Date       | 12/17/2019              |
| Min Time       | 07:54:15                |
| TWA (8 hr)     | 0.000                   |
| TWA Start Date | 12/17/2019              |
| TWA Start Time | 07:39:15                |
| TWA End Time   | 12:09:15                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/17/2019 | 07:54:15 | 0.000                     |
| 2          | 12/17/2019 | 08:09:15 | 0.000                     |
| 3          | 12/17/2019 | 08:24:15 | 0.000                     |
| 4          | 12/17/2019 | 08:39:15 | 0.000                     |
| 5          | 12/17/2019 | 08:54:15 | 0.000                     |
| 6          | 12/17/2019 | 09:09:15 | 0.000                     |
| 7          | 12/17/2019 | 09:24:15 | 0.001                     |
| 8          | 12/17/2019 | 09:39:15 | 0.000                     |
| 9          | 12/17/2019 | 09:54:15 | 0.000                     |
| 10         | 12/17/2019 | 10:09:15 | 0.000                     |
| 11         | 12/17/2019 | 10:24:15 | 0.001                     |
| 12         | 12/17/2019 | 10:39:15 | 0.002                     |
| 13         | 12/17/2019 | 10:54:15 | 0.002                     |
| 14         | 12/17/2019 | 11:09:15 | 0.001                     |
| 15         | 12/17/2019 | 11:24:15 | 0.001                     |
| 16         | 12/17/2019 | 11:39:15 | 0.002                     |
| 17         | 12/17/2019 | 11:54:15 | 0.002                     |
| 18         | 12/17/2019 | 12:09:15 | 0.001                     |

# Test 001

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/30/2019  |
| Instrument S/N | 8530143406  | Start Time       | 08:24:34    |
|                |             | Stop Date        | 12/30/2019  |
|                |             | Stop Time        | 11:09:34    |
|                |             | Total Time       | 0:02:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.162 mg/m <sup>3</sup> |
| Max            | 0.727 mg/m <sup>3</sup> |
| Max Date       | 12/30/2019              |
| Max Time       | 09:54:34                |
| Min            | 0.029 mg/m <sup>3</sup> |
| Min Date       | 12/30/2019              |
| Min Time       | 09:09:34                |
| TWA (8 hr)     | 0.056                   |
| TWA Start Date | 12/30/2019              |
| TWA Start Time | 08:24:34                |
| TWA End Time   | 11:09:34                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/30/2019 | 08:39:34 | 0.154                     |
| 2          | 12/30/2019 | 08:54:34 | 0.092                     |
| 3          | 12/30/2019 | 09:09:34 | 0.029                     |
| 4          | 12/30/2019 | 09:24:34 | 0.057                     |
| 5          | 12/30/2019 | 09:39:34 | 0.046                     |
| 6          | 12/30/2019 | 09:54:34 | 0.727                     |
| 7          | 12/30/2019 | 10:09:34 | 0.210                     |
| 8          | 12/30/2019 | 10:24:34 | 0.069                     |
| 9          | 12/30/2019 | 10:39:34 | 0.033                     |
| 10         | 12/30/2019 | 10:54:34 | 0.134                     |
| 11         | 12/30/2019 | 11:09:34 | 0.229                     |



# Test 001

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/30/2019  |
| Instrument S/N | 8530141110  | Start Time       | 07:38:58    |
|                |             | Stop Date        | 12/30/2019  |
|                |             | Stop Time        | 15:08:58    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.241 mg/m <sup>3</sup> |
| Max            | 0.376 mg/m <sup>3</sup> |
| Max Date       | 12/30/2019              |
| Max Time       | 08:38:58                |
| Min            | 0.089 mg/m <sup>3</sup> |
| Min Date       | 12/30/2019              |
| Min Time       | 15:08:58                |
| TWA (8 hr)     | 0.226                   |
| TWA Start Date | 12/30/2019              |
| TWA Start Time | 07:38:58                |
| TWA End Time   | 15:08:58                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/30/2019 | 07:53:58 | 0.299                     |
| 2          | 12/30/2019 | 08:08:58 | 0.278                     |
| 3          | 12/30/2019 | 08:23:58 | 0.240                     |
| 4          | 12/30/2019 | 08:38:58 | 0.376                     |
| 5          | 12/30/2019 | 08:53:58 | 0.317                     |
| 6          | 12/30/2019 | 09:08:58 | 0.209                     |
| 7          | 12/30/2019 | 09:23:58 | 0.241                     |
| 8          | 12/30/2019 | 09:38:58 | 0.236                     |
| 9          | 12/30/2019 | 09:53:58 | 0.231                     |
| 10         | 12/30/2019 | 10:08:58 | 0.259                     |
| 11         | 12/30/2019 | 10:23:58 | 0.231                     |
| 12         | 12/30/2019 | 10:38:58 | 0.194                     |
| 13         | 12/30/2019 | 10:53:58 | 0.229                     |
| 14         | 12/30/2019 | 11:08:58 | 0.207                     |
| 15         | 12/30/2019 | 11:23:58 | 0.235                     |
| 16         | 12/30/2019 | 11:38:58 | 0.316                     |
| 17         | 12/30/2019 | 11:53:58 | 0.280                     |
| 18         | 12/30/2019 | 12:08:58 | 0.207                     |
| 19         | 12/30/2019 | 12:23:58 | 0.170                     |
| 20         | 12/30/2019 | 12:38:58 | 0.169                     |
| 21         | 12/30/2019 | 12:53:58 | 0.176                     |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 22         | 12/30/2019 | 13:08:58 | 0.190                     |
| 23         | 12/30/2019 | 13:23:58 | 0.321                     |
| 24         | 12/30/2019 | 13:38:58 | 0.337                     |
| 25         | 12/30/2019 | 13:53:58 | 0.360                     |
| 26         | 12/30/2019 | 14:08:58 | 0.304                     |
| 27         | 12/30/2019 | 14:23:58 | 0.248                     |
| 28         | 12/30/2019 | 14:38:58 | 0.178                     |
| 29         | 12/30/2019 | 14:53:58 | 0.091                     |
| 30         | 12/30/2019 | 15:08:58 | 0.089                     |



# Test 002

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/31/2019  |
| Instrument S/N | 8530141110  | Start Time       | 07:06:29    |
|                |             | Stop Date        | 12/31/2019  |
|                |             | Stop Time        | 14:51:29    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.171 mg/m <sup>3</sup> |
| Max            | 0.439 mg/m <sup>3</sup> |
| Max Date       | 12/31/2019              |
| Max Time       | 08:51:29                |
| Min            | 0.026 mg/m <sup>3</sup> |
| Min Date       | 12/31/2019              |
| Min Time       | 07:21:29                |
| TWA (8 hr)     | 0.165                   |
| TWA Start Date | 12/31/2019              |
| TWA Start Time | 07:06:29                |
| TWA End Time   | 14:51:29                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/31/2019 | 07:21:29 | 0.026                     |
| 2          | 12/31/2019 | 07:36:29 | 0.036                     |
| 3          | 12/31/2019 | 07:51:29 | 0.029                     |
| 4          | 12/31/2019 | 08:06:29 | 0.045                     |
| 5          | 12/31/2019 | 08:21:29 | 0.042                     |
| 6          | 12/31/2019 | 08:36:29 | 0.066                     |
| 7          | 12/31/2019 | 08:51:29 | 0.439                     |
| 8          | 12/31/2019 | 09:06:29 | 0.249                     |
| 9          | 12/31/2019 | 09:21:29 | 0.181                     |
| 10         | 12/31/2019 | 09:36:29 | 0.229                     |
| 11         | 12/31/2019 | 09:51:29 | 0.290                     |
| 12         | 12/31/2019 | 10:06:29 | 0.240                     |
| 13         | 12/31/2019 | 10:21:29 | 0.273                     |
| 14         | 12/31/2019 | 10:36:29 | 0.358                     |
| 15         | 12/31/2019 | 10:51:29 | 0.257                     |
| 16         | 12/31/2019 | 11:06:29 | 0.157                     |
| 17         | 12/31/2019 | 11:21:29 | 0.116                     |
| 18         | 12/31/2019 | 11:36:29 | 0.079                     |
| 19         | 12/31/2019 | 11:51:29 | 0.137                     |
| 20         | 12/31/2019 | 12:06:29 | 0.102                     |
| 21         | 12/31/2019 | 12:21:29 | 0.067                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 12/31/2019 | 12:36:29 | 0.044          |
| 23         | 12/31/2019 | 12:51:29 | 0.043          |
| 24         | 12/31/2019 | 13:06:29 | 0.115          |
| 25         | 12/31/2019 | 13:21:29 | 0.398          |
| 26         | 12/31/2019 | 13:36:29 | 0.348          |
| 27         | 12/31/2019 | 13:51:29 | 0.238          |
| 28         | 12/31/2019 | 14:06:29 | 0.218          |
| 29         | 12/31/2019 | 14:21:29 | 0.247          |
| 30         | 12/31/2019 | 14:36:29 | 0.148          |
| 31         | 12/31/2019 | 14:51:29 | 0.078          |



# Test 003

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/02/2020  |
| Instrument S/N | 8530141110  | Start Time       | 06:58:33    |
|                |             | Stop Date        | 01/02/2020  |
|                |             | Stop Time        | 14:58:33    |
|                |             | Total Time       | 0:08:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.111 mg/m <sup>3</sup> |
| Max            | 0.344 mg/m <sup>3</sup> |
| Max Date       | 01/02/2020              |
| Max Time       | 07:58:33                |
| Min            | 0.012 mg/m <sup>3</sup> |
| Min Date       | 01/02/2020              |
| Min Time       | 07:13:33                |
| TWA (8 hr)     | 0.111                   |
| TWA Start Date | 01/02/2020              |
| TWA Start Time | 06:58:33                |
| TWA End Time   | 14:58:33                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/02/2020 | 07:13:33 | 0.012                     |
| 2          | 01/02/2020 | 07:28:33 | 0.114                     |
| 3          | 01/02/2020 | 07:43:33 | 0.250                     |
| 4          | 01/02/2020 | 07:58:33 | 0.344                     |
| 5          | 01/02/2020 | 08:13:33 | 0.316                     |
| 6          | 01/02/2020 | 08:28:33 | 0.240                     |
| 7          | 01/02/2020 | 08:43:33 | 0.161                     |
| 8          | 01/02/2020 | 08:58:33 | 0.111                     |
| 9          | 01/02/2020 | 09:13:33 | 0.058                     |
| 10         | 01/02/2020 | 09:28:33 | 0.052                     |
| 11         | 01/02/2020 | 09:43:33 | 0.039                     |
| 12         | 01/02/2020 | 09:58:33 | 0.094                     |
| 13         | 01/02/2020 | 10:13:33 | 0.061                     |
| 14         | 01/02/2020 | 10:28:33 | 0.057                     |
| 15         | 01/02/2020 | 10:43:33 | 0.120                     |
| 16         | 01/02/2020 | 10:58:33 | 0.147                     |
| 17         | 01/02/2020 | 11:13:33 | 0.119                     |
| 18         | 01/02/2020 | 11:28:33 | 0.230                     |
| 19         | 01/02/2020 | 11:43:33 | 0.146                     |
| 20         | 01/02/2020 | 11:58:33 | 0.085                     |
| 21         | 01/02/2020 | 12:13:33 | 0.061                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/02/2020 | 12:28:33 | 0.086          |
| 23         | 01/02/2020 | 12:43:33 | 0.057          |
| 24         | 01/02/2020 | 12:58:33 | 0.056          |
| 25         | 01/02/2020 | 13:13:33 | 0.076          |
| 26         | 01/02/2020 | 13:28:33 | 0.058          |
| 27         | 01/02/2020 | 13:43:33 | 0.047          |
| 28         | 01/02/2020 | 13:58:33 | 0.048          |
| 29         | 01/02/2020 | 14:13:33 | 0.057          |
| 30         | 01/02/2020 | 14:28:33 | 0.054          |
| 31         | 01/02/2020 | 14:43:33 | 0.113          |
| 32         | 01/02/2020 | 14:58:33 | 0.084          |



# Test 004

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/03/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:05:17    |
|                |             | Stop Date        | 01/03/2020  |
|                |             | Stop Time        | 14:50:17    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.169 mg/m <sup>3</sup> |
| Max            | 0.313 mg/m <sup>3</sup> |
| Max Date       | 01/03/2020              |
| Max Time       | 10:35:17                |
| Min            | 0.022 mg/m <sup>3</sup> |
| Min Date       | 01/03/2020              |
| Min Time       | 07:20:17                |
| TWA (8 hr)     | 0.164                   |
| TWA Start Date | 01/03/2020              |
| TWA Start Time | 07:05:17                |
| TWA End Time   | 14:50:17                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/03/2020 | 07:20:17 | 0.022                     |
| 2          | 01/03/2020 | 07:35:17 | 0.031                     |
| 3          | 01/03/2020 | 07:50:17 | 0.035                     |
| 4          | 01/03/2020 | 08:05:17 | 0.039                     |
| 5          | 01/03/2020 | 08:20:17 | 0.050                     |
| 6          | 01/03/2020 | 08:35:17 | 0.051                     |
| 7          | 01/03/2020 | 08:50:17 | 0.048                     |
| 8          | 01/03/2020 | 09:05:17 | 0.045                     |
| 9          | 01/03/2020 | 09:20:17 | 0.166                     |
| 10         | 01/03/2020 | 09:35:17 | 0.251                     |
| 11         | 01/03/2020 | 09:50:17 | 0.302                     |
| 12         | 01/03/2020 | 10:05:17 | 0.301                     |
| 13         | 01/03/2020 | 10:20:17 | 0.256                     |
| 14         | 01/03/2020 | 10:35:17 | 0.313                     |
| 15         | 01/03/2020 | 10:50:17 | 0.256                     |
| 16         | 01/03/2020 | 11:05:17 | 0.214                     |
| 17         | 01/03/2020 | 11:20:17 | 0.210                     |
| 18         | 01/03/2020 | 11:35:17 | 0.200                     |
| 19         | 01/03/2020 | 11:50:17 | 0.194                     |
| 20         | 01/03/2020 | 12:05:17 | 0.194                     |
| 21         | 01/03/2020 | 12:20:17 | 0.184                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/03/2020 | 12:35:17 | 0.180          |
| 23         | 01/03/2020 | 12:50:17 | 0.178          |
| 24         | 01/03/2020 | 13:05:17 | 0.177          |
| 25         | 01/03/2020 | 13:20:17 | 0.163          |
| 26         | 01/03/2020 | 13:35:17 | 0.157          |
| 27         | 01/03/2020 | 13:50:17 | 0.165          |
| 28         | 01/03/2020 | 14:05:17 | 0.152          |
| 29         | 01/03/2020 | 14:20:17 | 0.178          |
| 30         | 01/03/2020 | 14:35:17 | 0.262          |
| 31         | 01/03/2020 | 14:50:17 | 0.277          |



# Test 005

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/06/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:00:50    |
|                |             | Stop Date        | 01/06/2020  |
|                |             | Stop Time        | 15:00:50    |
|                |             | Total Time       | 0:08:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.067 mg/m <sup>3</sup> |
| Max            | 0.153 mg/m <sup>3</sup> |
| Max Date       | 01/06/2020              |
| Max Time       | 07:30:50                |
| Min            | 0.032 mg/m <sup>3</sup> |
| Min Date       | 01/06/2020              |
| Min Time       | 12:15:50                |
| TWA (8 hr)     | 0.067                   |
| TWA Start Date | 01/06/2020              |
| TWA Start Time | 07:00:50                |
| TWA End Time   | 15:00:50                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/06/2020 | 07:15:50 | 0.095                     |
| 2          | 01/06/2020 | 07:30:50 | 0.153                     |
| 3          | 01/06/2020 | 07:45:50 | 0.064                     |
| 4          | 01/06/2020 | 08:00:50 | 0.036                     |
| 5          | 01/06/2020 | 08:15:50 | 0.040                     |
| 6          | 01/06/2020 | 08:30:50 | 0.036                     |
| 7          | 01/06/2020 | 08:45:50 | 0.052                     |
| 8          | 01/06/2020 | 09:00:50 | 0.038                     |
| 9          | 01/06/2020 | 09:15:50 | 0.033                     |
| 10         | 01/06/2020 | 09:30:50 | 0.038                     |
| 11         | 01/06/2020 | 09:45:50 | 0.041                     |
| 12         | 01/06/2020 | 10:00:50 | 0.049                     |
| 13         | 01/06/2020 | 10:15:50 | 0.095                     |
| 14         | 01/06/2020 | 10:30:50 | 0.145                     |
| 15         | 01/06/2020 | 10:45:50 | 0.138                     |
| 16         | 01/06/2020 | 11:00:50 | 0.078                     |
| 17         | 01/06/2020 | 11:15:50 | 0.084                     |
| 18         | 01/06/2020 | 11:30:50 | 0.076                     |
| 19         | 01/06/2020 | 11:45:50 | 0.066                     |
| 20         | 01/06/2020 | 12:00:50 | 0.048                     |
| 21         | 01/06/2020 | 12:15:50 | 0.032                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/06/2020 | 12:30:50 | 0.035          |
| 23         | 01/06/2020 | 12:45:50 | 0.052          |
| 24         | 01/06/2020 | 13:00:50 | 0.051          |
| 25         | 01/06/2020 | 13:15:50 | 0.070          |
| 26         | 01/06/2020 | 13:30:50 | 0.056          |
| 27         | 01/06/2020 | 13:45:50 | 0.056          |
| 28         | 01/06/2020 | 14:00:50 | 0.047          |
| 29         | 01/06/2020 | 14:15:50 | 0.055          |
| 30         | 01/06/2020 | 14:30:50 | 0.072          |
| 31         | 01/06/2020 | 14:45:50 | 0.103          |
| 32         | 01/06/2020 | 15:00:50 | 0.125          |



# Test 006

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/07/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:04:13    |
|                |             | Stop Date        | 01/07/2020  |
|                |             | Stop Time        | 14:49:13    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.160 mg/m <sup>3</sup> |
| Max            | 0.422 mg/m <sup>3</sup> |
| Max Date       | 01/07/2020              |
| Max Time       | 08:19:13                |
| Min            | 0.033 mg/m <sup>3</sup> |
| Min Date       | 01/07/2020              |
| Min Time       | 13:49:13                |
| TWA (8 hr)     | 0.155                   |
| TWA Start Date | 01/07/2020              |
| TWA Start Time | 07:04:13                |
| TWA End Time   | 14:49:13                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/07/2020 | 07:19:13 | 0.122                     |
| 2          | 01/07/2020 | 07:34:13 | 0.143                     |
| 3          | 01/07/2020 | 07:49:13 | 0.219                     |
| 4          | 01/07/2020 | 08:04:13 | 0.276                     |
| 5          | 01/07/2020 | 08:19:13 | 0.422                     |
| 6          | 01/07/2020 | 08:34:13 | 0.353                     |
| 7          | 01/07/2020 | 08:49:13 | 0.336                     |
| 8          | 01/07/2020 | 09:04:13 | 0.311                     |
| 9          | 01/07/2020 | 09:19:13 | 0.292                     |
| 10         | 01/07/2020 | 09:34:13 | 0.344                     |
| 11         | 01/07/2020 | 09:49:13 | 0.380                     |
| 12         | 01/07/2020 | 10:04:13 | 0.383                     |
| 13         | 01/07/2020 | 10:19:13 | 0.204                     |
| 14         | 01/07/2020 | 10:34:13 | 0.143                     |
| 15         | 01/07/2020 | 10:49:13 | 0.117                     |
| 16         | 01/07/2020 | 11:04:13 | 0.108                     |
| 17         | 01/07/2020 | 11:19:13 | 0.091                     |
| 18         | 01/07/2020 | 11:34:13 | 0.084                     |
| 19         | 01/07/2020 | 11:49:13 | 0.074                     |
| 20         | 01/07/2020 | 12:04:13 | 0.058                     |
| 21         | 01/07/2020 | 12:19:13 | 0.076                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/07/2020 | 12:34:13 | 0.072          |
| 23         | 01/07/2020 | 12:49:13 | 0.049          |
| 24         | 01/07/2020 | 13:04:13 | 0.036          |
| 25         | 01/07/2020 | 13:19:13 | 0.043          |
| 26         | 01/07/2020 | 13:34:13 | 0.041          |
| 27         | 01/07/2020 | 13:49:13 | 0.033          |
| 28         | 01/07/2020 | 14:04:13 | 0.038          |
| 29         | 01/07/2020 | 14:19:13 | 0.042          |
| 30         | 01/07/2020 | 14:34:13 | 0.042          |
| 31         | 01/07/2020 | 14:49:13 | 0.043          |



# Test 007

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/08/2020  |
| Instrument S/N | 8530141110  | Start Time       | 06:59:31    |
|                |             | Stop Date        | 01/08/2020  |
|                |             | Stop Time        | 14:44:31    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.102 mg/m <sup>3</sup> |
| Max            | 0.304 mg/m <sup>3</sup> |
| Max Date       | 01/08/2020              |
| Max Time       | 13:29:31                |
| Min            | 0.016 mg/m <sup>3</sup> |
| Min Date       | 01/08/2020              |
| Min Time       | 07:14:31                |
| TWA (8 hr)     | 0.099                   |
| TWA Start Date | 01/08/2020              |
| TWA Start Time | 06:59:31                |
| TWA End Time   | 14:44:31                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/08/2020 | 07:14:31 | 0.016                     |
| 2          | 01/08/2020 | 07:29:31 | 0.020                     |
| 3          | 01/08/2020 | 07:44:31 | 0.038                     |
| 4          | 01/08/2020 | 07:59:31 | 0.043                     |
| 5          | 01/08/2020 | 08:14:31 | 0.036                     |
| 6          | 01/08/2020 | 08:29:31 | 0.072                     |
| 7          | 01/08/2020 | 08:44:31 | 0.107                     |
| 8          | 01/08/2020 | 08:59:31 | 0.082                     |
| 9          | 01/08/2020 | 09:14:31 | 0.146                     |
| 10         | 01/08/2020 | 09:29:31 | 0.154                     |
| 11         | 01/08/2020 | 09:44:31 | 0.161                     |
| 12         | 01/08/2020 | 09:59:31 | 0.141                     |
| 13         | 01/08/2020 | 10:14:31 | 0.120                     |
| 14         | 01/08/2020 | 10:29:31 | 0.147                     |
| 15         | 01/08/2020 | 10:44:31 | 0.138                     |
| 16         | 01/08/2020 | 10:59:31 | 0.121                     |
| 17         | 01/08/2020 | 11:14:31 | 0.097                     |
| 18         | 01/08/2020 | 11:29:31 | 0.076                     |
| 19         | 01/08/2020 | 11:44:31 | 0.106                     |
| 20         | 01/08/2020 | 11:59:31 | 0.120                     |
| 21         | 01/08/2020 | 12:14:31 | 0.093                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/08/2020 | 12:29:31 | 0.041          |
| 23         | 01/08/2020 | 12:44:31 | 0.032          |
| 24         | 01/08/2020 | 12:59:31 | 0.042          |
| 25         | 01/08/2020 | 13:14:31 | 0.100          |
| 26         | 01/08/2020 | 13:29:31 | 0.304          |
| 27         | 01/08/2020 | 13:44:31 | 0.144          |
| 28         | 01/08/2020 | 13:59:31 | 0.099          |
| 29         | 01/08/2020 | 14:14:31 | 0.089          |
| 30         | 01/08/2020 | 14:29:31 | 0.146          |
| 31         | 01/08/2020 | 14:44:31 | 0.141          |



# Test 008

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/09/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:23:02    |
|                |             | Stop Date        | 01/09/2020  |
|                |             | Stop Time        | 13:53:02    |
|                |             | Total Time       | 0:06:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.341 mg/m <sup>3</sup> |
| Max            | 2.670 mg/m <sup>3</sup> |
| Max Date       | 01/09/2020              |
| Max Time       | 09:38:02                |
| Min            | 0.014 mg/m <sup>3</sup> |
| Min Date       | 01/09/2020              |
| Min Time       | 13:53:02                |
| TWA (8 hr)     | 0.277                   |
| TWA Start Date | 01/09/2020              |
| TWA Start Time | 07:23:02                |
| TWA End Time   | 13:53:02                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/09/2020 | 07:38:02 | 0.055                     |
| 2          | 01/09/2020 | 07:53:02 | 0.047                     |
| 3          | 01/09/2020 | 08:08:02 | 0.037                     |
| 4          | 01/09/2020 | 08:23:02 | 0.035                     |
| 5          | 01/09/2020 | 08:38:02 | 0.105                     |
| 6          | 01/09/2020 | 08:53:02 | 0.530                     |
| 7          | 01/09/2020 | 09:08:02 | 1.030                     |
| 8          | 01/09/2020 | 09:23:02 | 0.421                     |
| 9          | 01/09/2020 | 09:38:02 | 2.670                     |
| 10         | 01/09/2020 | 09:53:02 | 1.790                     |
| 11         | 01/09/2020 | 10:08:02 | 0.651                     |
| 12         | 01/09/2020 | 10:23:02 | 0.323                     |
| 13         | 01/09/2020 | 10:38:02 | 0.180                     |
| 14         | 01/09/2020 | 10:53:02 | 0.113                     |
| 15         | 01/09/2020 | 11:08:02 | 0.085                     |
| 16         | 01/09/2020 | 11:23:02 | 0.056                     |
| 17         | 01/09/2020 | 11:38:02 | 0.042                     |
| 18         | 01/09/2020 | 11:53:02 | 0.097                     |
| 19         | 01/09/2020 | 12:08:02 | 0.269                     |
| 20         | 01/09/2020 | 12:23:02 | 0.132                     |
| 21         | 01/09/2020 | 12:38:02 | 0.081                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/09/2020 | 12:53:02 | 0.048          |
| 23         | 01/09/2020 | 13:08:02 | 0.030          |
| 24         | 01/09/2020 | 13:23:02 | 0.021          |
| 25         | 01/09/2020 | 13:38:02 | 0.016          |
| 26         | 01/09/2020 | 13:53:02 | 0.014          |



# Test 009

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/10/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:12:38    |
|                |             | Stop Date        | 01/10/2020  |
|                |             | Stop Time        | 15:30:38    |
|                |             | Total Time       | 0:08:18:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.060 mg/m <sup>3</sup> |
| Max            | 0.126 mg/m <sup>3</sup> |
| Max Date       | 01/10/2020              |
| Max Time       | 09:27:38                |
| Min            | 0.000 mg/m <sup>3</sup> |
| Min Date       | 01/10/2020              |
| Min Time       | 12:12:49                |
| TWA (8 hr)     | 0.037                   |
| TWA Start Date | 01/10/2020              |
| TWA Start Time | 07:12:38                |
| TWA End Time   | 15:30:38                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/10/2020 | 07:27:38 | 0.031                     |
| 2          | 01/10/2020 | 07:42:38 | 0.064                     |
| 3          | 01/10/2020 | 07:57:38 | 0.095                     |
| 4          | 01/10/2020 | 08:12:38 | 0.064                     |
| 5          | 01/10/2020 | 08:27:38 | 0.057                     |
| 6          | 01/10/2020 | 08:42:38 | 0.070                     |
| 7          | 01/10/2020 | 08:57:38 | 0.085                     |
| 8          | 01/10/2020 | 09:12:38 | 0.085                     |
| 9          | 01/10/2020 | 09:27:38 | 0.126                     |
| 10         | 01/10/2020 | 09:42:38 | 0.056                     |
| 11         | 01/10/2020 | 09:57:38 | 0.028                     |
| 12         | 01/10/2020 | 10:12:38 | 0.043                     |
| 13         | 01/10/2020 | 10:27:38 | 0.068                     |
| 14         | 01/10/2020 | 10:42:38 | 0.071                     |
| 15         | 01/10/2020 | 10:57:38 | 0.068                     |
| 16         | 01/10/2020 | 11:12:38 | 0.062                     |
| 17         | 01/10/2020 | 12:12:49 | 0.000                     |
| 18         | 01/10/2020 | 15:30:38 | 0.000                     |

# Test 010

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/13/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:03:34    |
|                |             | Stop Date        | 01/13/2020  |
|                |             | Stop Time        | 15:03:34    |
|                |             | Total Time       | 0:08:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.039 mg/m <sup>3</sup> |
| Max            | 0.115 mg/m <sup>3</sup> |
| Max Date       | 01/13/2020              |
| Max Time       | 11:33:34                |
| Min            | 0.020 mg/m <sup>3</sup> |
| Min Date       | 01/13/2020              |
| Min Time       | 12:33:34                |
| TWA (8 hr)     | 0.039                   |
| TWA Start Date | 01/13/2020              |
| TWA Start Time | 07:03:34                |
| TWA End Time   | 15:03:34                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/13/2020 | 07:18:34 | 0.028                     |
| 2          | 01/13/2020 | 07:33:34 | 0.068                     |
| 3          | 01/13/2020 | 07:48:34 | 0.038                     |
| 4          | 01/13/2020 | 08:03:34 | 0.035                     |
| 5          | 01/13/2020 | 08:18:34 | 0.033                     |
| 6          | 01/13/2020 | 08:33:34 | 0.028                     |
| 7          | 01/13/2020 | 08:48:34 | 0.026                     |
| 8          | 01/13/2020 | 09:03:34 | 0.024                     |
| 9          | 01/13/2020 | 09:18:34 | 0.023                     |
| 10         | 01/13/2020 | 09:33:34 | 0.024                     |
| 11         | 01/13/2020 | 09:48:34 | 0.023                     |
| 12         | 01/13/2020 | 10:03:34 | 0.021                     |
| 13         | 01/13/2020 | 10:18:34 | 0.022                     |
| 14         | 01/13/2020 | 10:33:34 | 0.021                     |
| 15         | 01/13/2020 | 10:48:34 | 0.022                     |
| 16         | 01/13/2020 | 11:03:34 | 0.035                     |
| 17         | 01/13/2020 | 11:18:34 | 0.046                     |
| 18         | 01/13/2020 | 11:33:34 | 0.115                     |
| 19         | 01/13/2020 | 11:48:34 | 0.059                     |
| 20         | 01/13/2020 | 12:03:34 | 0.047                     |
| 21         | 01/13/2020 | 12:18:34 | 0.040                     |



| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/13/2020 | 12:33:34 | 0.020          |
| 23         | 01/13/2020 | 12:48:34 | 0.023          |
| 24         | 01/13/2020 | 13:03:34 | 0.028          |
| 25         | 01/13/2020 | 13:18:34 | 0.040          |
| 26         | 01/13/2020 | 13:33:34 | 0.039          |
| 27         | 01/13/2020 | 13:48:34 | 0.053          |
| 28         | 01/13/2020 | 14:03:34 | 0.053          |
| 29         | 01/13/2020 | 14:18:34 | 0.055          |
| 30         | 01/13/2020 | 14:33:34 | 0.056          |
| 31         | 01/13/2020 | 14:48:34 | 0.051          |
| 32         | 01/13/2020 | 15:03:34 | 0.058          |

# Test 011

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/14/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:02:01    |
|                |             | Stop Date        | 01/14/2020  |
|                |             | Stop Time        | 11:02:01    |
|                |             | Total Time       | 0:04:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.073 mg/m <sup>3</sup> |
| Max            | 0.197 mg/m <sup>3</sup> |
| Max Date       | 01/14/2020              |
| Max Time       | 11:02:01                |
| Min            | 0.029 mg/m <sup>3</sup> |
| Min Date       | 01/14/2020              |
| Min Time       | 07:17:01                |
| TWA (8 hr)     | 0.036                   |
| TWA Start Date | 01/14/2020              |
| TWA Start Time | 07:02:01                |
| TWA End Time   | 11:02:01                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/14/2020 | 07:17:01 | 0.029                     |
| 2          | 01/14/2020 | 07:32:01 | 0.039                     |
| 3          | 01/14/2020 | 07:47:01 | 0.045                     |
| 4          | 01/14/2020 | 08:02:01 | 0.054                     |
| 5          | 01/14/2020 | 08:17:01 | 0.070                     |
| 6          | 01/14/2020 | 08:32:01 | 0.090                     |
| 7          | 01/14/2020 | 08:47:01 | 0.105                     |
| 8          | 01/14/2020 | 09:02:01 | 0.100                     |
| 9          | 01/14/2020 | 09:17:01 | 0.062                     |
| 10         | 01/14/2020 | 09:32:01 | 0.044                     |
| 11         | 01/14/2020 | 09:47:01 | 0.044                     |
| 12         | 01/14/2020 | 10:02:01 | 0.047                     |
| 13         | 01/14/2020 | 10:17:01 | 0.057                     |
| 14         | 01/14/2020 | 10:32:01 | 0.069                     |
| 15         | 01/14/2020 | 10:47:01 | 0.112                     |
| 16         | 01/14/2020 | 11:02:01 | 0.197                     |

# Test 012

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/14/2020  |
| Instrument S/N | 8530141110  | Start Time       | 11:08:16    |
|                |             | Stop Date        | 01/14/2020  |
|                |             | Stop Time        | 14:53:16    |
|                |             | Total Time       | 0:03:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.070 mg/m <sup>3</sup> |
| Max            | 0.196 mg/m <sup>3</sup> |
| Max Date       | 01/14/2020              |
| Max Time       | 11:23:16                |
| Min            | 0.041 mg/m <sup>3</sup> |
| Min Date       | 01/14/2020              |
| Min Time       | 14:23:16                |
| TWA (8 hr)     | 0.033                   |
| TWA Start Date | 01/14/2020              |
| TWA Start Time | 11:08:16                |
| TWA End Time   | 14:53:16                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/14/2020 | 11:23:16 | 0.196                     |
| 2          | 01/14/2020 | 11:38:16 | 0.110                     |
| 3          | 01/14/2020 | 11:53:16 | 0.066                     |
| 4          | 01/14/2020 | 12:08:16 | 0.069                     |
| 5          | 01/14/2020 | 12:23:16 | 0.063                     |
| 6          | 01/14/2020 | 12:38:16 | 0.055                     |
| 7          | 01/14/2020 | 12:53:16 | 0.054                     |
| 8          | 01/14/2020 | 13:08:16 | 0.074                     |
| 9          | 01/14/2020 | 13:23:16 | 0.065                     |
| 10         | 01/14/2020 | 13:38:16 | 0.074                     |
| 11         | 01/14/2020 | 13:53:16 | 0.050                     |
| 12         | 01/14/2020 | 14:08:16 | 0.046                     |
| 13         | 01/14/2020 | 14:23:16 | 0.041                     |
| 14         | 01/14/2020 | 14:38:16 | 0.041                     |
| 15         | 01/14/2020 | 14:53:16 | 0.041                     |



# Test 013

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/15/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:05:06    |
|                |             | Stop Date        | 01/15/2020  |
|                |             | Stop Time        | 14:50:06    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.177 mg/m <sup>3</sup> |
| Max            | 0.569 mg/m <sup>3</sup> |
| Max Date       | 01/15/2020              |
| Max Time       | 13:35:06                |
| Min            | 0.022 mg/m <sup>3</sup> |
| Min Date       | 01/15/2020              |
| Min Time       | 07:35:06                |
| TWA (8 hr)     | 0.172                   |
| TWA Start Date | 01/15/2020              |
| TWA Start Time | 07:05:06                |
| TWA End Time   | 14:50:06                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/15/2020 | 07:20:06 | 0.025                     |
| 2          | 01/15/2020 | 07:35:06 | 0.022                     |
| 3          | 01/15/2020 | 07:50:06 | 0.024                     |
| 4          | 01/15/2020 | 08:05:06 | 0.043                     |
| 5          | 01/15/2020 | 08:20:06 | 0.071                     |
| 6          | 01/15/2020 | 08:35:06 | 0.069                     |
| 7          | 01/15/2020 | 08:50:06 | 0.061                     |
| 8          | 01/15/2020 | 09:05:06 | 0.062                     |
| 9          | 01/15/2020 | 09:20:06 | 0.065                     |
| 10         | 01/15/2020 | 09:35:06 | 0.051                     |
| 11         | 01/15/2020 | 09:50:06 | 0.418                     |
| 12         | 01/15/2020 | 10:05:06 | 0.335                     |
| 13         | 01/15/2020 | 10:20:06 | 0.212                     |
| 14         | 01/15/2020 | 10:35:06 | 0.182                     |
| 15         | 01/15/2020 | 10:50:06 | 0.121                     |
| 16         | 01/15/2020 | 11:05:06 | 0.068                     |
| 17         | 01/15/2020 | 11:20:06 | 0.051                     |
| 18         | 01/15/2020 | 11:35:06 | 0.071                     |
| 19         | 01/15/2020 | 11:50:06 | 0.078                     |
| 20         | 01/15/2020 | 12:05:06 | 0.139                     |
| 21         | 01/15/2020 | 12:20:06 | 0.149                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/15/2020 | 12:35:06 | 0.171          |
| 23         | 01/15/2020 | 12:50:06 | 0.300          |
| 24         | 01/15/2020 | 13:05:06 | 0.351          |
| 25         | 01/15/2020 | 13:20:06 | 0.372          |
| 26         | 01/15/2020 | 13:35:06 | 0.569          |
| 27         | 01/15/2020 | 13:50:06 | 0.466          |
| 28         | 01/15/2020 | 14:05:06 | 0.297          |
| 29         | 01/15/2020 | 14:20:06 | 0.196          |
| 30         | 01/15/2020 | 14:35:06 | 0.193          |
| 31         | 01/15/2020 | 14:50:06 | 0.268          |

# Test 014

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/16/2020  |
| Instrument S/N | 8530141110  | Start Time       | 07:03:04    |
|                |             | Stop Date        | 01/16/2020  |
|                |             | Stop Time        | 14:33:04    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.211 mg/m <sup>3</sup> |
| Max            | 0.670 mg/m <sup>3</sup> |
| Max Date       | 01/16/2020              |
| Max Time       | 12:33:04                |
| Min            | 0.054 mg/m <sup>3</sup> |
| Min Date       | 01/16/2020              |
| Min Time       | 07:18:04                |
| TWA (8 hr)     | 0.198                   |
| TWA Start Date | 01/16/2020              |
| TWA Start Time | 07:03:04                |
| TWA End Time   | 14:33:04                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/16/2020 | 07:18:04 | 0.054                     |
| 2          | 01/16/2020 | 07:33:04 | 0.086                     |
| 3          | 01/16/2020 | 07:48:04 | 0.552                     |
| 4          | 01/16/2020 | 08:03:04 | 0.521                     |
| 5          | 01/16/2020 | 08:18:04 | 0.246                     |
| 6          | 01/16/2020 | 08:33:04 | 0.137                     |
| 7          | 01/16/2020 | 08:48:04 | 0.120                     |
| 8          | 01/16/2020 | 09:03:04 | 0.210                     |
| 9          | 01/16/2020 | 09:18:04 | 0.255                     |
| 10         | 01/16/2020 | 09:33:04 | 0.183                     |
| 11         | 01/16/2020 | 09:48:04 | 0.134                     |
| 12         | 01/16/2020 | 10:03:04 | 0.066                     |
| 13         | 01/16/2020 | 10:18:04 | 0.074                     |
| 14         | 01/16/2020 | 10:33:04 | 0.096                     |
| 15         | 01/16/2020 | 10:48:04 | 0.145                     |
| 16         | 01/16/2020 | 11:03:04 | 0.123                     |
| 17         | 01/16/2020 | 11:18:04 | 0.195                     |
| 18         | 01/16/2020 | 11:33:04 | 0.130                     |
| 19         | 01/16/2020 | 11:48:04 | 0.106                     |
| 20         | 01/16/2020 | 12:03:04 | 0.100                     |
| 21         | 01/16/2020 | 12:18:04 | 0.353                     |



| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/16/2020 | 12:33:04 | 0.670          |
| 23         | 01/16/2020 | 12:48:04 | 0.362          |
| 24         | 01/16/2020 | 13:03:04 | 0.199          |
| 25         | 01/16/2020 | 13:18:04 | 0.213          |
| 26         | 01/16/2020 | 13:33:04 | 0.230          |
| 27         | 01/16/2020 | 13:48:04 | 0.200          |
| 28         | 01/16/2020 | 14:03:04 | 0.145          |
| 29         | 01/16/2020 | 14:18:04 | 0.184          |
| 30         | 01/16/2020 | 14:33:04 | 0.232          |

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19/12/03 09:17

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

-----

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/3/2019 9:17

End 12/3/2019 13:44

Sample Per 60

Number of 266

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure Type Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) |
|-------|----------------|-------------------|
| 1     | 12/3/2019 9:18 | 0                 |
| 2     | 12/3/2019 9:19 | 0                 |
| 3     | 12/3/2019 9:20 | 0                 |
| 4     | 12/3/2019 9:21 | 0                 |
| 5     | 12/3/2019 9:22 | 0                 |

|    |                 |     |
|----|-----------------|-----|
| 6  | 12/3/2019 9:23  | 0   |
| 7  | 12/3/2019 9:24  | 0   |
| 8  | 12/3/2019 9:25  | 0   |
| 9  | 12/3/2019 9:26  | 0   |
| 10 | 12/3/2019 9:27  | 0   |
| 11 | 12/3/2019 9:28  | 0   |
| 12 | 12/3/2019 9:29  | 0   |
| 13 | 12/3/2019 9:30  | 0   |
| 14 | 12/3/2019 9:31  | 0   |
| 15 | 12/3/2019 9:32  | 0   |
| 16 | 12/3/2019 9:33  | 0   |
| 17 | 12/3/2019 9:34  | 0   |
| 18 | 12/3/2019 9:35  | 0   |
| 19 | 12/3/2019 9:36  | 0   |
| 20 | 12/3/2019 9:37  | 0   |
| 21 | 12/3/2019 9:38  | 0   |
| 22 | 12/3/2019 9:39  | 0   |
| 23 | 12/3/2019 9:40  | 0   |
| 24 | 12/3/2019 9:41  | 0   |
| 25 | 12/3/2019 9:42  | 0   |
| 26 | 12/3/2019 9:43  | 0   |
| 27 | 12/3/2019 9:44  | 0   |
| 28 | 12/3/2019 9:45  | 0   |
| 29 | 12/3/2019 9:46  | 0   |
| 30 | 12/3/2019 9:47  | 0   |
| 31 | 12/3/2019 9:48  | 0   |
| 32 | 12/3/2019 9:49  | 0   |
| 33 | 12/3/2019 9:50  | 0   |
| 34 | 12/3/2019 9:51  | 0   |
| 35 | 12/3/2019 9:52  | 0.1 |
| 36 | 12/3/2019 9:53  | 0.1 |
| 37 | 12/3/2019 9:54  | 0.2 |
| 38 | 12/3/2019 9:55  | 0.3 |
| 39 | 12/3/2019 9:56  | 0.3 |
| 40 | 12/3/2019 9:57  | 0.2 |
| 41 | 12/3/2019 9:58  | 0.2 |
| 42 | 12/3/2019 9:59  | 0.2 |
| 43 | 12/3/2019 10:00 | 0.2 |
| 44 | 12/3/2019 10:01 | 0.2 |
| 45 | 12/3/2019 10:02 | 0.1 |
| 46 | 12/3/2019 10:03 | 0.1 |
| 47 | 12/3/2019 10:04 | 0.1 |
| 48 | 12/3/2019 10:05 | 0.1 |
| 49 | 12/3/2019 10:06 | 0.1 |
| 50 | 12/3/2019 10:07 | 0.1 |
| 51 | 12/3/2019 10:08 | 0.1 |
| 52 | 12/3/2019 10:09 | 0.1 |



|    |                 |     |
|----|-----------------|-----|
| 53 | 12/3/2019 10:10 | 0.1 |
| 54 | 12/3/2019 10:11 | 0.1 |
| 55 | 12/3/2019 10:12 | 0.1 |
| 56 | 12/3/2019 10:13 | 0.1 |
| 57 | 12/3/2019 10:14 | 0.1 |
| 58 | 12/3/2019 10:15 | 0.1 |
| 59 | 12/3/2019 10:16 | 0.1 |
| 60 | 12/3/2019 10:17 | 0.1 |
| 61 | 12/3/2019 10:18 | 0.2 |
| 62 | 12/3/2019 10:19 | 0.2 |
| 63 | 12/3/2019 10:20 | 0.2 |
| 64 | 12/3/2019 10:21 | 0.2 |
| 65 | 12/3/2019 10:22 | 0.2 |
| 66 | 12/3/2019 10:23 | 0.2 |
| 67 | 12/3/2019 10:24 | 0.2 |
| 68 | 12/3/2019 10:25 | 0.2 |
| 69 | 12/3/2019 10:26 | 0.3 |
| 70 | 12/3/2019 10:27 | 0.4 |
| 71 | 12/3/2019 10:28 | 0.4 |
| 72 | 12/3/2019 10:29 | 0.4 |
| 73 | 12/3/2019 10:30 | 0.4 |
| 74 | 12/3/2019 10:31 | 0.4 |
| 75 | 12/3/2019 10:32 | 0.4 |
| 76 | 12/3/2019 10:33 | 0.4 |
| 77 | 12/3/2019 10:34 | 0.4 |
| 78 | 12/3/2019 10:35 | 0.4 |
| 79 | 12/3/2019 10:36 | 0.4 |
| 80 | 12/3/2019 10:37 | 0.4 |
| 81 | 12/3/2019 10:38 | 0.4 |
| 82 | 12/3/2019 10:39 | 0.3 |
| 83 | 12/3/2019 10:40 | 0.3 |
| 84 | 12/3/2019 10:41 | 0.3 |
| 85 | 12/3/2019 10:42 | 0.3 |
| 86 | 12/3/2019 10:43 | 0.3 |
| 87 | 12/3/2019 10:44 | 0.2 |
| 88 | 12/3/2019 10:45 | 0.2 |
| 89 | 12/3/2019 10:46 | 0.2 |
| 90 | 12/3/2019 10:47 | 0.2 |
| 91 | 12/3/2019 10:48 | 0.2 |
| 92 | 12/3/2019 10:49 | 0.2 |
| 93 | 12/3/2019 10:50 | 0.2 |
| 94 | 12/3/2019 10:51 | 0.2 |
| 95 | 12/3/2019 10:52 | 0.3 |
| 96 | 12/3/2019 10:53 | 0.3 |
| 97 | 12/3/2019 10:54 | 0.3 |
| 98 | 12/3/2019 10:55 | 0.3 |
| 99 | 12/3/2019 10:56 | 0.3 |

|     |                 |     |
|-----|-----------------|-----|
| 100 | 12/3/2019 10:57 | 0.4 |
| 101 | 12/3/2019 10:58 | 0.4 |
| 102 | 12/3/2019 10:59 | 0.4 |
| 103 | 12/3/2019 11:00 | 0.4 |
| 104 | 12/3/2019 11:01 | 0.4 |
| 105 | 12/3/2019 11:02 | 0.4 |
| 106 | 12/3/2019 11:03 | 0.3 |
| 107 | 12/3/2019 11:04 | 0.3 |
| 108 | 12/3/2019 11:05 | 0.3 |
| 109 | 12/3/2019 11:06 | 0.3 |
| 110 | 12/3/2019 11:07 | 0.2 |
| 111 | 12/3/2019 11:08 | 0.2 |
| 112 | 12/3/2019 11:09 | 0.2 |
| 113 | 12/3/2019 11:10 | 0.2 |
| 114 | 12/3/2019 11:11 | 0.2 |
| 115 | 12/3/2019 11:12 | 0.2 |
| 116 | 12/3/2019 11:13 | 0.2 |
| 117 | 12/3/2019 11:14 | 0.3 |
| 118 | 12/3/2019 11:15 | 0.3 |
| 119 | 12/3/2019 11:16 | 0.4 |
| 120 | 12/3/2019 11:17 | 0.4 |
| 121 | 12/3/2019 11:18 | 0.4 |
| 122 | 12/3/2019 11:19 | 0.4 |
| 123 | 12/3/2019 11:20 | 0.4 |
| 124 | 12/3/2019 11:21 | 0.4 |
| 125 | 12/3/2019 11:22 | 0.4 |
| 126 | 12/3/2019 11:23 | 0.4 |
| 127 | 12/3/2019 11:24 | 0.4 |
| 128 | 12/3/2019 11:25 | 0.4 |
| 129 | 12/3/2019 11:26 | 0.4 |
| 130 | 12/3/2019 11:27 | 0.4 |
| 131 | 12/3/2019 11:28 | 0.4 |
| 132 | 12/3/2019 11:29 | 0.4 |
| 133 | 12/3/2019 11:30 | 0.4 |
| 134 | 12/3/2019 11:31 | 0.4 |
| 135 | 12/3/2019 11:32 | 0.4 |
| 136 | 12/3/2019 11:33 | 0.4 |
| 137 | 12/3/2019 11:34 | 0.4 |
| 138 | 12/3/2019 11:35 | 0.4 |
| 139 | 12/3/2019 11:36 | 0.4 |
| 140 | 12/3/2019 11:37 | 0.4 |
| 141 | 12/3/2019 11:38 | 0.4 |
| 142 | 12/3/2019 11:39 | 0.4 |
| 143 | 12/3/2019 11:40 | 0.4 |
| 144 | 12/3/2019 11:41 | 0.4 |
| 145 | 12/3/2019 11:42 | 0.4 |
| 146 | 12/3/2019 11:43 | 0.4 |

|     |                 |     |
|-----|-----------------|-----|
| 147 | 12/3/2019 11:44 | 0.4 |
| 148 | 12/3/2019 11:45 | 0.4 |
| 149 | 12/3/2019 11:46 | 0.4 |
| 150 | 12/3/2019 11:47 | 0.4 |
| 151 | 12/3/2019 11:48 | 0.4 |
| 152 | 12/3/2019 11:49 | 0.4 |
| 153 | 12/3/2019 11:50 | 0.4 |
| 154 | 12/3/2019 11:51 | 0.4 |
| 155 | 12/3/2019 11:52 | 0.4 |
| 156 | 12/3/2019 11:53 | 0.4 |
| 157 | 12/3/2019 11:54 | 0.3 |
| 158 | 12/3/2019 11:55 | 0.3 |
| 159 | 12/3/2019 11:56 | 0.3 |
| 160 | 12/3/2019 11:57 | 0.3 |
| 161 | 12/3/2019 11:58 | 0.3 |
| 162 | 12/3/2019 11:59 | 0.3 |
| 163 | 12/3/2019 12:00 | 0.3 |
| 164 | 12/3/2019 12:01 | 0.3 |
| 165 | 12/3/2019 12:02 | 0.3 |
| 166 | 12/3/2019 12:03 | 0.3 |
| 167 | 12/3/2019 12:04 | 0.3 |
| 168 | 12/3/2019 12:05 | 0.3 |
| 169 | 12/3/2019 12:06 | 0.2 |
| 170 | 12/3/2019 12:07 | 0.2 |
| 171 | 12/3/2019 12:08 | 0.2 |
| 172 | 12/3/2019 12:09 | 0.2 |
| 173 | 12/3/2019 12:10 | 0.2 |
| 174 | 12/3/2019 12:11 | 0.2 |
| 175 | 12/3/2019 12:12 | 0.2 |
| 176 | 12/3/2019 12:13 | 0.2 |
| 177 | 12/3/2019 12:14 | 0.2 |
| 178 | 12/3/2019 12:15 | 0.3 |
| 179 | 12/3/2019 12:16 | 0.3 |
| 180 | 12/3/2019 12:17 | 0.3 |
| 181 | 12/3/2019 12:18 | 0.3 |
| 182 | 12/3/2019 12:19 | 0.3 |
| 183 | 12/3/2019 12:20 | 0.3 |
| 184 | 12/3/2019 12:21 | 0.3 |
| 185 | 12/3/2019 12:22 | 0.3 |
| 186 | 12/3/2019 12:23 | 0.3 |
| 187 | 12/3/2019 12:24 | 0.3 |
| 188 | 12/3/2019 12:25 | 0.3 |
| 189 | 12/3/2019 12:26 | 0.3 |
| 190 | 12/3/2019 12:27 | 0.3 |
| 191 | 12/3/2019 12:28 | 0.3 |
| 192 | 12/3/2019 12:29 | 0.3 |
| 193 | 12/3/2019 12:30 | 0.3 |



|     |                 |     |
|-----|-----------------|-----|
| 194 | 12/3/2019 12:31 | 0.3 |
| 195 | 12/3/2019 12:32 | 0.4 |
| 196 | 12/3/2019 12:33 | 0.4 |
| 197 | 12/3/2019 12:34 | 0.4 |
| 198 | 12/3/2019 12:35 | 0.4 |
| 199 | 12/3/2019 12:36 | 0.3 |
| 200 | 12/3/2019 12:37 | 0.3 |
| 201 | 12/3/2019 12:38 | 0.3 |
| 202 | 12/3/2019 12:39 | 0.3 |
| 203 | 12/3/2019 12:40 | 0.3 |
| 204 | 12/3/2019 12:41 | 0.3 |
| 205 | 12/3/2019 12:42 | 0.3 |
| 206 | 12/3/2019 12:43 | 0.4 |
| 207 | 12/3/2019 12:44 | 0.4 |
| 208 | 12/3/2019 12:45 | 0.4 |
| 209 | 12/3/2019 12:46 | 0.4 |
| 210 | 12/3/2019 12:47 | 0.4 |
| 211 | 12/3/2019 12:48 | 0.4 |
| 212 | 12/3/2019 12:49 | 0.3 |
| 213 | 12/3/2019 12:50 | 0.3 |
| 214 | 12/3/2019 12:51 | 0.3 |
| 215 | 12/3/2019 12:52 | 0.3 |
| 216 | 12/3/2019 12:53 | 0.3 |
| 217 | 12/3/2019 12:54 | 0.3 |
| 218 | 12/3/2019 12:55 | 0.3 |
| 219 | 12/3/2019 12:56 | 0.3 |
| 220 | 12/3/2019 12:57 | 0.3 |
| 221 | 12/3/2019 12:58 | 0.3 |
| 222 | 12/3/2019 12:59 | 0.3 |
| 223 | 12/3/2019 13:00 | 0.3 |
| 224 | 12/3/2019 13:01 | 0.3 |
| 225 | 12/3/2019 13:02 | 0.3 |
| 226 | 12/3/2019 13:03 | 0.3 |
| 227 | 12/3/2019 13:04 | 0.3 |
| 228 | 12/3/2019 13:05 | 0.3 |
| 229 | 12/3/2019 13:06 | 0.3 |
| 230 | 12/3/2019 13:07 | 0.3 |
| 231 | 12/3/2019 13:08 | 0.3 |
| 232 | 12/3/2019 13:09 | 0.3 |
| 233 | 12/3/2019 13:10 | 0.3 |
| 234 | 12/3/2019 13:11 | 0.3 |
| 235 | 12/3/2019 13:12 | 0.3 |
| 236 | 12/3/2019 13:13 | 0.3 |
| 237 | 12/3/2019 13:14 | 0.3 |
| 238 | 12/3/2019 13:15 | 0.3 |
| 239 | 12/3/2019 13:16 | 0.3 |
| 240 | 12/3/2019 13:17 | 0.3 |

|         |                 |     |
|---------|-----------------|-----|
| 241     | 12/3/2019 13:18 | 0.3 |
| 242     | 12/3/2019 13:19 | 0.3 |
| 243     | 12/3/2019 13:20 | 0.3 |
| 244     | 12/3/2019 13:21 | 0.3 |
| 245     | 12/3/2019 13:22 | 0.3 |
| 246     | 12/3/2019 13:23 | 0.3 |
| 247     | 12/3/2019 13:24 | 0.3 |
| 248     | 12/3/2019 13:25 | 0.3 |
| 249     | 12/3/2019 13:26 | 0.3 |
| 250     | 12/3/2019 13:27 | 0.3 |
| 251     | 12/3/2019 13:28 | 0.3 |
| 252     | 12/3/2019 13:29 | 0.3 |
| 253     | 12/3/2019 13:30 | 0.3 |
| 254     | 12/3/2019 13:31 | 0.3 |
| 255     | 12/3/2019 13:32 | 0.3 |
| 256     | 12/3/2019 13:33 | 0.3 |
| 257     | 12/3/2019 13:34 | 0.3 |
| 258     | 12/3/2019 13:35 | 0.3 |
| 259     | 12/3/2019 13:36 | 0.3 |
| 260     | 12/3/2019 13:37 | 0.3 |
| 261     | 12/3/2019 13:38 | 0.3 |
| 262     | 12/3/2019 13:39 | 0.3 |
| 263     | 12/3/2019 13:40 | 0.3 |
| 264     | 12/3/2019 13:41 | 0.3 |
| 265     | 12/3/2019 13:42 | 0.3 |
| 266     | 12/3/2019 13:43 | 0.3 |
| Peak    |                 | 0.4 |
| Min     |                 | 0   |
| Average |                 | 0.3 |

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19/12/03 13:55

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## Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/3/2019 13:55

End 12/3/2019 16:27

Sample Per 60

Number of 152

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) |
|-------|-----------------|-------------------|
| 1     | 12/3/2019 13:56 | 0.3               |
| 2     | 12/3/2019 13:57 | 0.3               |
| 3     | 12/3/2019 13:58 | 0.3               |
| 4     | 12/3/2019 13:59 | 0.3               |
| 5     | 12/3/2019 14:00 | 0.3               |



|    |                 |     |
|----|-----------------|-----|
| 6  | 12/3/2019 14:01 | 0.3 |
| 7  | 12/3/2019 14:02 | 0.3 |
| 8  | 12/3/2019 14:03 | 0.3 |
| 9  | 12/3/2019 14:04 | 0.3 |
| 10 | 12/3/2019 14:05 | 0.3 |
| 11 | 12/3/2019 14:06 | 0.3 |
| 12 | 12/3/2019 14:07 | 0.3 |
| 13 | 12/3/2019 14:08 | 0.3 |
| 14 | 12/3/2019 14:09 | 0.3 |
| 15 | 12/3/2019 14:10 | 0.3 |
| 16 | 12/3/2019 14:11 | 0.4 |
| 17 | 12/3/2019 14:12 | 0.3 |
| 18 | 12/3/2019 14:13 | 0.3 |
| 19 | 12/3/2019 14:14 | 0.3 |
| 20 | 12/3/2019 14:15 | 0.3 |
| 21 | 12/3/2019 14:16 | 0.3 |
| 22 | 12/3/2019 14:17 | 0.3 |
| 23 | 12/3/2019 14:18 | 0.3 |
| 24 | 12/3/2019 14:19 | 0.3 |
| 25 | 12/3/2019 14:20 | 0.3 |
| 26 | 12/3/2019 14:21 | 0.3 |
| 27 | 12/3/2019 14:22 | 0.3 |
| 28 | 12/3/2019 14:23 | 0.3 |
| 29 | 12/3/2019 14:24 | 0.3 |
| 30 | 12/3/2019 14:25 | 0.3 |
| 31 | 12/3/2019 14:26 | 0.3 |
| 32 | 12/3/2019 14:27 | 0.3 |
| 33 | 12/3/2019 14:28 | 0.3 |
| 34 | 12/3/2019 14:29 | 0.3 |
| 35 | 12/3/2019 14:30 | 0.3 |
| 36 | 12/3/2019 14:31 | 0.3 |
| 37 | 12/3/2019 14:32 | 0.3 |
| 38 | 12/3/2019 14:33 | 0.3 |
| 39 | 12/3/2019 14:34 | 0.3 |
| 40 | 12/3/2019 14:35 | 0.3 |
| 41 | 12/3/2019 14:36 | 0.3 |
| 42 | 12/3/2019 14:37 | 0.3 |
| 43 | 12/3/2019 14:38 | 0.3 |
| 44 | 12/3/2019 14:39 | 0.3 |
| 45 | 12/3/2019 14:40 | 0.3 |
| 46 | 12/3/2019 14:41 | 0.3 |
| 47 | 12/3/2019 14:42 | 0.3 |
| 48 | 12/3/2019 14:43 | 0.3 |
| 49 | 12/3/2019 14:44 | 0.3 |
| 50 | 12/3/2019 14:45 | 0.3 |
| 51 | 12/3/2019 14:46 | 0.3 |
| 52 | 12/3/2019 14:47 | 0.3 |

|    |                 |     |
|----|-----------------|-----|
| 53 | 12/3/2019 14:48 | 0.3 |
| 54 | 12/3/2019 14:49 | 0.3 |
| 55 | 12/3/2019 14:50 | 0.3 |
| 56 | 12/3/2019 14:51 | 0.3 |
| 57 | 12/3/2019 14:52 | 0.3 |
| 58 | 12/3/2019 14:53 | 0.3 |
| 59 | 12/3/2019 14:54 | 0.3 |
| 60 | 12/3/2019 14:55 | 0.3 |
| 61 | 12/3/2019 14:56 | 0.3 |
| 62 | 12/3/2019 14:57 | 0.3 |
| 63 | 12/3/2019 14:58 | 0.3 |
| 64 | 12/3/2019 14:59 | 0.3 |
| 65 | 12/3/2019 15:00 | 0.3 |
| 66 | 12/3/2019 15:01 | 0.3 |
| 67 | 12/3/2019 15:02 | 0.3 |
| 68 | 12/3/2019 15:03 | 0.3 |
| 69 | 12/3/2019 15:04 | 0.3 |
| 70 | 12/3/2019 15:05 | 0.3 |
| 71 | 12/3/2019 15:06 | 0.3 |
| 72 | 12/3/2019 15:07 | 0.3 |
| 73 | 12/3/2019 15:08 | 0.3 |
| 74 | 12/3/2019 15:09 | 0.3 |
| 75 | 12/3/2019 15:10 | 0.3 |
| 76 | 12/3/2019 15:11 | 0.3 |
| 77 | 12/3/2019 15:12 | 0.3 |
| 78 | 12/3/2019 15:13 | 0.3 |
| 79 | 12/3/2019 15:14 | 0.3 |
| 80 | 12/3/2019 15:15 | 0.3 |
| 81 | 12/3/2019 15:16 | 0.3 |
| 82 | 12/3/2019 15:17 | 0.3 |
| 83 | 12/3/2019 15:18 | 0.3 |
| 84 | 12/3/2019 15:19 | 0.3 |
| 85 | 12/3/2019 15:20 | 0.3 |
| 86 | 12/3/2019 15:21 | 0.3 |
| 87 | 12/3/2019 15:22 | 0.3 |
| 88 | 12/3/2019 15:23 | 0.3 |
| 89 | 12/3/2019 15:24 | 0.3 |
| 90 | 12/3/2019 15:25 | 0.4 |
| 91 | 12/3/2019 15:26 | 0.4 |
| 92 | 12/3/2019 15:27 | 0.4 |
| 93 | 12/3/2019 15:28 | 0.4 |
| 94 | 12/3/2019 15:29 | 0.4 |
| 95 | 12/3/2019 15:30 | 0.4 |
| 96 | 12/3/2019 15:31 | 0.4 |
| 97 | 12/3/2019 15:32 | 0.4 |
| 98 | 12/3/2019 15:33 | 0.4 |
| 99 | 12/3/2019 15:34 | 0.4 |

|     |                 |     |
|-----|-----------------|-----|
| 100 | 12/3/2019 15:35 | 0.4 |
| 101 | 12/3/2019 15:36 | 0.3 |
| 102 | 12/3/2019 15:37 | 0.3 |
| 103 | 12/3/2019 15:38 | 0.3 |
| 104 | 12/3/2019 15:39 | 0.3 |
| 105 | 12/3/2019 15:40 | 0.3 |
| 106 | 12/3/2019 15:41 | 0.3 |
| 107 | 12/3/2019 15:42 | 0.3 |
| 108 | 12/3/2019 15:43 | 0.3 |
| 109 | 12/3/2019 15:44 | 0.3 |
| 110 | 12/3/2019 15:45 | 0.3 |
| 111 | 12/3/2019 15:46 | 0.3 |
| 112 | 12/3/2019 15:47 | 0.3 |
| 113 | 12/3/2019 15:48 | 0.3 |
| 114 | 12/3/2019 15:49 | 0.3 |
| 115 | 12/3/2019 15:50 | 0.3 |
| 116 | 12/3/2019 15:51 | 0.3 |
| 117 | 12/3/2019 15:52 | 0.3 |
| 118 | 12/3/2019 15:53 | 0.3 |
| 119 | 12/3/2019 15:54 | 0.3 |
| 120 | 12/3/2019 15:55 | 0.3 |
| 121 | 12/3/2019 15:56 | 0.3 |
| 122 | 12/3/2019 15:57 | 0.3 |
| 123 | 12/3/2019 15:58 | 0.3 |
| 124 | 12/3/2019 15:59 | 0.3 |
| 125 | 12/3/2019 16:00 | 0.3 |
| 126 | 12/3/2019 16:01 | 0.4 |
| 127 | 12/3/2019 16:02 | 0.4 |
| 128 | 12/3/2019 16:03 | 0.4 |
| 129 | 12/3/2019 16:04 | 0.4 |
| 130 | 12/3/2019 16:05 | 0.4 |
| 131 | 12/3/2019 16:06 | 0.4 |
| 132 | 12/3/2019 16:07 | 0.4 |
| 133 | 12/3/2019 16:08 | 0.4 |
| 134 | 12/3/2019 16:09 | 0.4 |
| 135 | 12/3/2019 16:10 | 0.4 |
| 136 | 12/3/2019 16:11 | 0.5 |
| 137 | 12/3/2019 16:12 | 0.5 |
| 138 | 12/3/2019 16:13 | 0.5 |
| 139 | 12/3/2019 16:14 | 0.5 |
| 140 | 12/3/2019 16:15 | 0.4 |
| 141 | 12/3/2019 16:16 | 0.4 |
| 142 | 12/3/2019 16:17 | 0.4 |
| 143 | 12/3/2019 16:18 | 0.4 |
| 144 | 12/3/2019 16:19 | 0.4 |
| 145 | 12/3/2019 16:20 | 0.4 |
| 146 | 12/3/2019 16:21 | 0.4 |



|         |                 |     |
|---------|-----------------|-----|
| 147     | 12/3/2019 16:22 | 0.4 |
| 148     | 12/3/2019 16:23 | 0.4 |
| 149     | 12/3/2019 16:24 | 0.4 |
| 150     | 12/3/2019 16:25 | 0.4 |
| 151     | 12/3/2019 16:26 | 0.4 |
| 152     | 12/3/2019 16:27 | 0.4 |
| Peak    |                 | 0.5 |
| Min     |                 | 0.3 |
| Average |                 | 0.3 |

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19/12/04 08:21

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

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Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/4/2019 8:21

End 12/4/2019 16:33

Sample Per 60

Number of 491

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure Type Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

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## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) |
|-------|----------------|-------------------|
| 1     | 12/4/2019 8:22 | 0.2               |
| 2     | 12/4/2019 8:23 | 0.1               |
| 3     | 12/4/2019 8:24 | 0.1               |
| 4     | 12/4/2019 8:25 | 0.1               |
| 5     | 12/4/2019 8:26 | 0.1               |

|    |                |     |
|----|----------------|-----|
| 6  | 12/4/2019 8:27 | 0.2 |
| 7  | 12/4/2019 8:28 | 0.2 |
| 8  | 12/4/2019 8:29 | 0.1 |
| 9  | 12/4/2019 8:30 | 0.1 |
| 10 | 12/4/2019 8:31 | 0.1 |
| 11 | 12/4/2019 8:32 | 0.1 |
| 12 | 12/4/2019 8:33 | 0.1 |
| 13 | 12/4/2019 8:34 | 0.1 |
| 14 | 12/4/2019 8:35 | 0.1 |
| 15 | 12/4/2019 8:36 | 0.1 |
| 16 | 12/4/2019 8:37 | 0.1 |
| 17 | 12/4/2019 8:38 | 0.1 |
| 18 | 12/4/2019 8:39 | 0.1 |
| 19 | 12/4/2019 8:40 | 0.1 |
| 20 | 12/4/2019 8:41 | 0.1 |
| 21 | 12/4/2019 8:42 | 0.1 |
| 22 | 12/4/2019 8:43 | 0   |
| 23 | 12/4/2019 8:44 | 0   |
| 24 | 12/4/2019 8:45 | 0   |
| 25 | 12/4/2019 8:46 | 0   |
| 26 | 12/4/2019 8:47 | 0   |
| 27 | 12/4/2019 8:48 | 0.1 |
| 28 | 12/4/2019 8:49 | 0.1 |
| 29 | 12/4/2019 8:50 | 0.1 |
| 30 | 12/4/2019 8:51 | 0.1 |
| 31 | 12/4/2019 8:52 | 0.1 |
| 32 | 12/4/2019 8:53 | 0   |
| 33 | 12/4/2019 8:54 | 0   |
| 34 | 12/4/2019 8:55 | 0   |
| 35 | 12/4/2019 8:56 | 0   |
| 36 | 12/4/2019 8:57 | 0   |
| 37 | 12/4/2019 8:58 | 0   |
| 38 | 12/4/2019 8:59 | 0   |
| 39 | 12/4/2019 9:00 | 0   |
| 40 | 12/4/2019 9:01 | 0   |
| 41 | 12/4/2019 9:02 | 0   |
| 42 | 12/4/2019 9:03 | 0.1 |
| 43 | 12/4/2019 9:04 | 0.1 |
| 44 | 12/4/2019 9:05 | 0.1 |
| 45 | 12/4/2019 9:06 | 0.1 |
| 46 | 12/4/2019 9:07 | 0.1 |
| 47 | 12/4/2019 9:08 | 0.1 |
| 48 | 12/4/2019 9:09 | 0.1 |
| 49 | 12/4/2019 9:10 | 0.1 |
| 50 | 12/4/2019 9:11 | 0.1 |
| 51 | 12/4/2019 9:12 | 0.1 |
| 52 | 12/4/2019 9:13 | 0.1 |



|    |                 |     |
|----|-----------------|-----|
| 53 | 12/4/2019 9:14  | 0   |
| 54 | 12/4/2019 9:15  | 0   |
| 55 | 12/4/2019 9:16  | 0   |
| 56 | 12/4/2019 9:17  | 0   |
| 57 | 12/4/2019 9:18  | 0   |
| 58 | 12/4/2019 9:19  | 0   |
| 59 | 12/4/2019 9:20  | 0   |
| 60 | 12/4/2019 9:21  | 0   |
| 61 | 12/4/2019 9:22  | 0   |
| 62 | 12/4/2019 9:23  | 0   |
| 63 | 12/4/2019 9:24  | 0   |
| 64 | 12/4/2019 9:25  | 0.1 |
| 65 | 12/4/2019 9:26  | 0.1 |
| 66 | 12/4/2019 9:27  | 0.1 |
| 67 | 12/4/2019 9:28  | 0.1 |
| 68 | 12/4/2019 9:29  | 0.1 |
| 69 | 12/4/2019 9:30  | 0.1 |
| 70 | 12/4/2019 9:31  | 0.1 |
| 71 | 12/4/2019 9:32  | 0.1 |
| 72 | 12/4/2019 9:33  | 0.1 |
| 73 | 12/4/2019 9:34  | 0.1 |
| 74 | 12/4/2019 9:35  | 0.1 |
| 75 | 12/4/2019 9:36  | 0.1 |
| 76 | 12/4/2019 9:37  | 0.1 |
| 77 | 12/4/2019 9:38  | 0.1 |
| 78 | 12/4/2019 9:39  | 0.1 |
| 79 | 12/4/2019 9:40  | 0.1 |
| 80 | 12/4/2019 9:41  | 0.1 |
| 81 | 12/4/2019 9:42  | 0.1 |
| 82 | 12/4/2019 9:43  | 0.1 |
| 83 | 12/4/2019 9:44  | 0.1 |
| 84 | 12/4/2019 9:45  | 0.1 |
| 85 | 12/4/2019 9:46  | 0.1 |
| 86 | 12/4/2019 9:47  | 0.1 |
| 87 | 12/4/2019 9:48  | 0.1 |
| 88 | 12/4/2019 9:49  | 0.1 |
| 89 | 12/4/2019 9:50  | 0.1 |
| 90 | 12/4/2019 9:51  | 0.1 |
| 91 | 12/4/2019 9:52  | 0.1 |
| 92 | 12/4/2019 9:53  | 0.1 |
| 93 | 12/4/2019 9:54  | 0.1 |
| 94 | 12/4/2019 9:55  | 0.1 |
| 95 | 12/4/2019 9:56  | 0.1 |
| 96 | 12/4/2019 9:57  | 0.1 |
| 97 | 12/4/2019 9:58  | 0.1 |
| 98 | 12/4/2019 9:59  | 0.1 |
| 99 | 12/4/2019 10:00 | 0.1 |

|     |                 |     |
|-----|-----------------|-----|
| 100 | 12/4/2019 10:01 | 0.1 |
| 101 | 12/4/2019 10:02 | 0.1 |
| 102 | 12/4/2019 10:03 | 0.1 |
| 103 | 12/4/2019 10:04 | 0.1 |
| 104 | 12/4/2019 10:05 | 0.2 |
| 105 | 12/4/2019 10:06 | 0.2 |
| 106 | 12/4/2019 10:07 | 0.3 |
| 107 | 12/4/2019 10:08 | 0.3 |
| 108 | 12/4/2019 10:09 | 0.3 |
| 109 | 12/4/2019 10:10 | 0.3 |
| 110 | 12/4/2019 10:11 | 0.4 |
| 111 | 12/4/2019 10:12 | 0.4 |
| 112 | 12/4/2019 10:13 | 0.4 |
| 113 | 12/4/2019 10:14 | 0.4 |
| 114 | 12/4/2019 10:15 | 0.4 |
| 115 | 12/4/2019 10:16 | 0.4 |
| 116 | 12/4/2019 10:17 | 0.4 |
| 117 | 12/4/2019 10:18 | 0.4 |
| 118 | 12/4/2019 10:19 | 0.4 |
| 119 | 12/4/2019 10:20 | 0.4 |
| 120 | 12/4/2019 10:21 | 0.5 |
| 121 | 12/4/2019 10:22 | 0.5 |
| 122 | 12/4/2019 10:23 | 0.5 |
| 123 | 12/4/2019 10:24 | 0.5 |
| 124 | 12/4/2019 10:25 | 0.5 |
| 125 | 12/4/2019 10:26 | 0.5 |
| 126 | 12/4/2019 10:27 | 0.5 |
| 127 | 12/4/2019 10:28 | 0.5 |
| 128 | 12/4/2019 10:29 | 0.5 |
| 129 | 12/4/2019 10:30 | 0.5 |
| 130 | 12/4/2019 10:31 | 0.5 |
| 131 | 12/4/2019 10:32 | 0.5 |
| 132 | 12/4/2019 10:33 | 0.5 |
| 133 | 12/4/2019 10:34 | 0.5 |
| 134 | 12/4/2019 10:35 | 0.5 |
| 135 | 12/4/2019 10:36 | 0.5 |
| 136 | 12/4/2019 10:37 | 0.5 |
| 137 | 12/4/2019 10:38 | 0.5 |
| 138 | 12/4/2019 10:39 | 0.5 |
| 139 | 12/4/2019 10:40 | 0.5 |
| 140 | 12/4/2019 10:41 | 0.5 |
| 141 | 12/4/2019 10:42 | 0.5 |
| 142 | 12/4/2019 10:43 | 0.5 |
| 143 | 12/4/2019 10:44 | 0.5 |
| 144 | 12/4/2019 10:45 | 0.5 |
| 145 | 12/4/2019 10:46 | 0.5 |
| 146 | 12/4/2019 10:47 | 0.5 |

|     |                 |     |
|-----|-----------------|-----|
| 147 | 12/4/2019 10:48 | 0.5 |
| 148 | 12/4/2019 10:49 | 0.5 |
| 149 | 12/4/2019 10:50 | 0.6 |
| 150 | 12/4/2019 10:51 | 0.6 |
| 151 | 12/4/2019 10:52 | 0.6 |
| 152 | 12/4/2019 10:53 | 0.6 |
| 153 | 12/4/2019 10:54 | 0.6 |
| 154 | 12/4/2019 10:55 | 0.6 |
| 155 | 12/4/2019 10:56 | 0.6 |
| 156 | 12/4/2019 10:57 | 0.6 |
| 157 | 12/4/2019 10:58 | 0.6 |
| 158 | 12/4/2019 10:59 | 0.6 |
| 159 | 12/4/2019 11:00 | 0.6 |
| 160 | 12/4/2019 11:01 | 0.6 |
| 161 | 12/4/2019 11:02 | 0.6 |
| 162 | 12/4/2019 11:03 | 0.6 |
| 163 | 12/4/2019 11:04 | 0.6 |
| 164 | 12/4/2019 11:05 | 0.6 |
| 165 | 12/4/2019 11:06 | 0.6 |
| 166 | 12/4/2019 11:07 | 0.6 |
| 167 | 12/4/2019 11:08 | 0.6 |
| 168 | 12/4/2019 11:09 | 0.6 |
| 169 | 12/4/2019 11:10 | 0.6 |
| 170 | 12/4/2019 11:11 | 0.6 |
| 171 | 12/4/2019 11:12 | 0.6 |
| 172 | 12/4/2019 11:13 | 0.6 |
| 173 | 12/4/2019 11:14 | 0.6 |
| 174 | 12/4/2019 11:15 | 0.6 |
| 175 | 12/4/2019 11:16 | 0.6 |
| 176 | 12/4/2019 11:17 | 0.6 |
| 177 | 12/4/2019 11:18 | 0.6 |
| 178 | 12/4/2019 11:19 | 0.6 |
| 179 | 12/4/2019 11:20 | 0.6 |
| 180 | 12/4/2019 11:21 | 0.6 |
| 181 | 12/4/2019 11:22 | 0.6 |
| 182 | 12/4/2019 11:23 | 0.6 |
| 183 | 12/4/2019 11:24 | 0.6 |
| 184 | 12/4/2019 11:25 | 0.6 |
| 185 | 12/4/2019 11:26 | 0.6 |
| 186 | 12/4/2019 11:27 | 0.6 |
| 187 | 12/4/2019 11:28 | 0.6 |
| 188 | 12/4/2019 11:29 | 0.6 |
| 189 | 12/4/2019 11:30 | 0.7 |
| 190 | 12/4/2019 11:31 | 0.7 |
| 191 | 12/4/2019 11:32 | 0.7 |
| 192 | 12/4/2019 11:33 | 0.7 |
| 193 | 12/4/2019 11:34 | 0.7 |



|     |                 |     |
|-----|-----------------|-----|
| 194 | 12/4/2019 11:35 | 0.7 |
| 195 | 12/4/2019 11:36 | 0.7 |
| 196 | 12/4/2019 11:37 | 0.7 |
| 197 | 12/4/2019 11:38 | 0.7 |
| 198 | 12/4/2019 11:39 | 0.7 |
| 199 | 12/4/2019 11:40 | 0.7 |
| 200 | 12/4/2019 11:41 | 0.7 |
| 201 | 12/4/2019 11:42 | 0.8 |
| 202 | 12/4/2019 11:43 | 0.8 |
| 203 | 12/4/2019 11:44 | 0.8 |
| 204 | 12/4/2019 11:45 | 0.8 |
| 205 | 12/4/2019 11:46 | 0.7 |
| 206 | 12/4/2019 11:47 | 0.8 |
| 207 | 12/4/2019 11:48 | 0.8 |
| 208 | 12/4/2019 11:49 | 0.8 |
| 209 | 12/4/2019 11:50 | 0.8 |
| 210 | 12/4/2019 11:51 | 0.8 |
| 211 | 12/4/2019 11:52 | 0.8 |
| 212 | 12/4/2019 11:53 | 0.8 |
| 213 | 12/4/2019 11:54 | 0.8 |
| 214 | 12/4/2019 11:55 | 0.8 |
| 215 | 12/4/2019 11:56 | 0.8 |
| 216 | 12/4/2019 11:57 | 0.8 |
| 217 | 12/4/2019 11:58 | 0.7 |
| 218 | 12/4/2019 11:59 | 0.7 |
| 219 | 12/4/2019 12:00 | 0.7 |
| 220 | 12/4/2019 12:01 | 0.7 |
| 221 | 12/4/2019 12:02 | 0.7 |
| 222 | 12/4/2019 12:03 | 0.7 |
| 223 | 12/4/2019 12:04 | 0.7 |
| 224 | 12/4/2019 12:05 | 0.7 |
| 225 | 12/4/2019 12:06 | 0.7 |
| 226 | 12/4/2019 12:07 | 0.7 |
| 227 | 12/4/2019 12:08 | 0.7 |
| 228 | 12/4/2019 12:09 | 0.7 |
| 229 | 12/4/2019 12:10 | 0.7 |
| 230 | 12/4/2019 12:11 | 0.7 |
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| 380 | 12/4/2019 14:41 | 0.5 |
| 381 | 12/4/2019 14:42 | 0.5 |

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| 458 | 12/4/2019 15:59 | 0.5 |
| 459 | 12/4/2019 16:00 | 0.5 |
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| 476     | 12/4/2019 16:17 | 0.5 |
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| 480     | 12/4/2019 16:21 | 0.5 |
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| 486     | 12/4/2019 16:27 | 0.6 |
| 487     | 12/4/2019 16:28 | 0.6 |
| 488     | 12/4/2019 16:29 | 0.6 |
| 489     | 12/4/2019 16:30 | 0.6 |
| 490     | 12/4/2019 16:31 | 0.6 |
| 491     | 12/4/2019 16:32 | 0.6 |
| Peak    |                 | 0.8 |
| Min     |                 | 0   |
| Average |                 | 0.4 |



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19/12/05 08:23

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

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Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID RAE00000

User ID USER0000

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Begin 12/5/2019 8:23

End 12/5/2019 16:30

Sample Per 60

Number of 487

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Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) |
|-------|----------------|-------------------|
| 1     | 12/5/2019 8:24 | 0.1               |
| 2     | 12/5/2019 8:25 | 0.1               |
| 3     | 12/5/2019 8:26 | 0.1               |
| 4     | 12/5/2019 8:27 | 0.2               |
| 5     | 12/5/2019 8:28 | 0.1               |

|    |                |     |
|----|----------------|-----|
| 6  | 12/5/2019 8:29 | 0.2 |
| 7  | 12/5/2019 8:30 | 0.1 |
| 8  | 12/5/2019 8:31 | 0.1 |
| 9  | 12/5/2019 8:32 | 0.1 |
| 10 | 12/5/2019 8:33 | 0.1 |
| 11 | 12/5/2019 8:34 | 0.1 |
| 12 | 12/5/2019 8:35 | 0.1 |
| 13 | 12/5/2019 8:36 | 0.1 |
| 14 | 12/5/2019 8:37 | 0.1 |
| 15 | 12/5/2019 8:38 | 0.1 |
| 16 | 12/5/2019 8:39 | 0.1 |
| 17 | 12/5/2019 8:40 | 0.1 |
| 18 | 12/5/2019 8:41 | 0.1 |
| 19 | 12/5/2019 8:42 | 0   |
| 20 | 12/5/2019 8:43 | 0   |
| 21 | 12/5/2019 8:44 | 0   |
| 22 | 12/5/2019 8:45 | 0   |
| 23 | 12/5/2019 8:46 | 0   |
| 24 | 12/5/2019 8:47 | 0   |
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| 31 | 12/5/2019 8:54 | 0   |
| 32 | 12/5/2019 8:55 | 0   |
| 33 | 12/5/2019 8:56 | 0   |
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| 35 | 12/5/2019 8:58 | 0   |
| 36 | 12/5/2019 8:59 | 0.1 |
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| 39 | 12/5/2019 9:02 | 0.1 |
| 40 | 12/5/2019 9:03 | 0   |
| 41 | 12/5/2019 9:04 | 0   |
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| 43 | 12/5/2019 9:06 | 0   |
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| 49 | 12/5/2019 9:12 | 0.2 |
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| 51 | 12/5/2019 9:14 | 0.2 |
| 52 | 12/5/2019 9:15 | 0.2 |

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| 54 | 12/5/2019 9:17  | 0.2 |
| 55 | 12/5/2019 9:18  | 0.2 |
| 56 | 12/5/2019 9:19  | 0.1 |
| 57 | 12/5/2019 9:20  | 0.1 |
| 58 | 12/5/2019 9:21  | 0.1 |
| 59 | 12/5/2019 9:22  | 0.1 |
| 60 | 12/5/2019 9:23  | 0.2 |
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| 63 | 12/5/2019 9:26  | 0.2 |
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| 99 | 12/5/2019 10:02 | 0.3 |

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| 115 | 12/5/2019 10:18 | 0.3 |
| 116 | 12/5/2019 10:19 | 0.3 |
| 117 | 12/5/2019 10:20 | 0.3 |
| 118 | 12/5/2019 10:21 | 0.3 |
| 119 | 12/5/2019 10:22 | 0.3 |
| 120 | 12/5/2019 10:23 | 0.3 |
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| 143 | 12/5/2019 10:46 | 0.4 |
| 144 | 12/5/2019 10:47 | 0.4 |
| 145 | 12/5/2019 10:48 | 0.4 |
| 146 | 12/5/2019 10:49 | 0.4 |



|     |                 |     |
|-----|-----------------|-----|
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| 160 | 12/5/2019 11:03 | 0.4 |
| 161 | 12/5/2019 11:04 | 0.5 |
| 162 | 12/5/2019 11:05 | 0.5 |
| 163 | 12/5/2019 11:06 | 0.5 |
| 164 | 12/5/2019 11:07 | 0.5 |
| 165 | 12/5/2019 11:08 | 0.5 |
| 166 | 12/5/2019 11:09 | 0.5 |
| 167 | 12/5/2019 11:10 | 0.5 |
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| 171 | 12/5/2019 11:14 | 0.6 |
| 172 | 12/5/2019 11:15 | 0.6 |
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| 174 | 12/5/2019 11:17 | 0.6 |
| 175 | 12/5/2019 11:18 | 0.6 |
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| 193 | 12/5/2019 11:36 | 0.6 |

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| 199 | 12/5/2019 11:42 | 0.6 |
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| 220 | 12/5/2019 12:03 | 0.6 |
| 221 | 12/5/2019 12:04 | 0.6 |
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| 223 | 12/5/2019 12:06 | 0.6 |
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| 240 | 12/5/2019 12:23 | 0.6 |

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| 266 | 12/5/2019 12:49 | 0.9 |
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| 270 | 12/5/2019 12:53 | 1   |
| 271 | 12/5/2019 12:54 | 1   |
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| 273 | 12/5/2019 12:56 | 1   |
| 274 | 12/5/2019 12:57 | 1   |
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| 284 | 12/5/2019 13:07 | 1   |
| 285 | 12/5/2019 13:08 | 1   |
| 286 | 12/5/2019 13:09 | 1   |
| 287 | 12/5/2019 13:10 | 1   |

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| 289 | 12/5/2019 13:12 | 1   |
| 290 | 12/5/2019 13:13 | 1   |
| 291 | 12/5/2019 13:14 | 1   |
| 292 | 12/5/2019 13:15 | 1   |
| 293 | 12/5/2019 13:16 | 1   |
| 294 | 12/5/2019 13:17 | 1   |
| 295 | 12/5/2019 13:18 | 1   |
| 296 | 12/5/2019 13:19 | 1   |
| 297 | 12/5/2019 13:20 | 1   |
| 298 | 12/5/2019 13:21 | 0.9 |
| 299 | 12/5/2019 13:22 | 1   |
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| 302 | 12/5/2019 13:25 | 0.9 |
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| 310 | 12/5/2019 13:33 | 0.9 |
| 311 | 12/5/2019 13:34 | 0.9 |
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| 313 | 12/5/2019 13:36 | 1   |
| 314 | 12/5/2019 13:37 | 1   |
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| 319 | 12/5/2019 13:42 | 0.9 |
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| 321 | 12/5/2019 13:44 | 0.9 |
| 322 | 12/5/2019 13:45 | 0.9 |
| 323 | 12/5/2019 13:46 | 0.9 |
| 324 | 12/5/2019 13:47 | 0.9 |
| 325 | 12/5/2019 13:48 | 0.9 |
| 326 | 12/5/2019 13:49 | 1   |
| 327 | 12/5/2019 13:50 | 1   |
| 328 | 12/5/2019 13:51 | 1   |
| 329 | 12/5/2019 13:52 | 1   |
| 330 | 12/5/2019 13:53 | 1   |
| 331 | 12/5/2019 13:54 | 1   |
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| 333 | 12/5/2019 13:56 | 1   |
| 334 | 12/5/2019 13:57 | 1   |



|     |                 |     |
|-----|-----------------|-----|
| 335 | 12/5/2019 13:58 | 1   |
| 336 | 12/5/2019 13:59 | 1   |
| 337 | 12/5/2019 14:00 | 1   |
| 338 | 12/5/2019 14:01 | 1   |
| 339 | 12/5/2019 14:02 | 1   |
| 340 | 12/5/2019 14:03 | 1   |
| 341 | 12/5/2019 14:04 | 1   |
| 342 | 12/5/2019 14:05 | 1   |
| 343 | 12/5/2019 14:06 | 1   |
| 344 | 12/5/2019 14:07 | 1   |
| 345 | 12/5/2019 14:08 | 1   |
| 346 | 12/5/2019 14:09 | 1   |
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| 349 | 12/5/2019 14:12 | 1.1 |
| 350 | 12/5/2019 14:13 | 1   |
| 351 | 12/5/2019 14:14 | 1.1 |
| 352 | 12/5/2019 14:15 | 1.1 |
| 353 | 12/5/2019 14:16 | 1.1 |
| 354 | 12/5/2019 14:17 | 1.1 |
| 355 | 12/5/2019 14:18 | 1.1 |
| 356 | 12/5/2019 14:19 | 1.1 |
| 357 | 12/5/2019 14:20 | 1.1 |
| 358 | 12/5/2019 14:21 | 1.1 |
| 359 | 12/5/2019 14:22 | 1.1 |
| 360 | 12/5/2019 14:23 | 1   |
| 361 | 12/5/2019 14:24 | 1   |
| 362 | 12/5/2019 14:25 | 1   |
| 363 | 12/5/2019 14:26 | 1   |
| 364 | 12/5/2019 14:27 | 1   |
| 365 | 12/5/2019 14:28 | 1   |
| 366 | 12/5/2019 14:29 | 1   |
| 367 | 12/5/2019 14:30 | 1   |
| 368 | 12/5/2019 14:31 | 1   |
| 369 | 12/5/2019 14:32 | 1   |
| 370 | 12/5/2019 14:33 | 1   |
| 371 | 12/5/2019 14:34 | 1   |
| 372 | 12/5/2019 14:35 | 1   |
| 373 | 12/5/2019 14:36 | 1   |
| 374 | 12/5/2019 14:37 | 0.9 |
| 375 | 12/5/2019 14:38 | 0.9 |
| 376 | 12/5/2019 14:39 | 0.9 |
| 377 | 12/5/2019 14:40 | 0.9 |
| 378 | 12/5/2019 14:41 | 0.9 |
| 379 | 12/5/2019 14:42 | 0.9 |
| 380 | 12/5/2019 14:43 | 0.9 |
| 381 | 12/5/2019 14:44 | 0.9 |

|     |                 |     |
|-----|-----------------|-----|
| 382 | 12/5/2019 14:45 | 0.9 |
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| 384 | 12/5/2019 14:47 | 0.9 |
| 385 | 12/5/2019 14:48 | 0.9 |
| 386 | 12/5/2019 14:49 | 0.9 |
| 387 | 12/5/2019 14:50 | 0.9 |
| 388 | 12/5/2019 14:51 | 0.9 |
| 389 | 12/5/2019 14:52 | 0.9 |
| 390 | 12/5/2019 14:53 | 0.9 |
| 391 | 12/5/2019 14:54 | 0.9 |
| 392 | 12/5/2019 14:55 | 0.9 |
| 393 | 12/5/2019 14:56 | 0.9 |
| 394 | 12/5/2019 14:57 | 0.9 |
| 395 | 12/5/2019 14:58 | 0.9 |
| 396 | 12/5/2019 14:59 | 0.9 |
| 397 | 12/5/2019 15:00 | 0.9 |
| 398 | 12/5/2019 15:01 | 0.9 |
| 399 | 12/5/2019 15:02 | 0.9 |
| 400 | 12/5/2019 15:03 | 0.9 |
| 401 | 12/5/2019 15:04 | 0.9 |
| 402 | 12/5/2019 15:05 | 0.9 |
| 403 | 12/5/2019 15:06 | 0.9 |
| 404 | 12/5/2019 15:07 | 0.9 |
| 405 | 12/5/2019 15:08 | 0.9 |
| 406 | 12/5/2019 15:09 | 0.9 |
| 407 | 12/5/2019 15:10 | 0.9 |
| 408 | 12/5/2019 15:11 | 0.9 |
| 409 | 12/5/2019 15:12 | 0.9 |
| 410 | 12/5/2019 15:13 | 0.9 |
| 411 | 12/5/2019 15:14 | 0.9 |
| 412 | 12/5/2019 15:15 | 0.9 |
| 413 | 12/5/2019 15:16 | 0.9 |
| 414 | 12/5/2019 15:17 | 0.9 |
| 415 | 12/5/2019 15:18 | 0.9 |
| 416 | 12/5/2019 15:19 | 0.9 |
| 417 | 12/5/2019 15:20 | 0.9 |
| 418 | 12/5/2019 15:21 | 0.9 |
| 419 | 12/5/2019 15:22 | 0.9 |
| 420 | 12/5/2019 15:23 | 1   |
| 421 | 12/5/2019 15:24 | 1   |
| 422 | 12/5/2019 15:25 | 1   |
| 423 | 12/5/2019 15:26 | 1   |
| 424 | 12/5/2019 15:27 | 1   |
| 425 | 12/5/2019 15:28 | 1   |
| 426 | 12/5/2019 15:29 | 1   |
| 427 | 12/5/2019 15:30 | 1   |
| 428 | 12/5/2019 15:31 | 1   |

|     |                 |     |
|-----|-----------------|-----|
| 429 | 12/5/2019 15:32 | 1   |
| 430 | 12/5/2019 15:33 | 1   |
| 431 | 12/5/2019 15:34 | 1.1 |
| 432 | 12/5/2019 15:35 | 1.1 |
| 433 | 12/5/2019 15:36 | 1   |
| 434 | 12/5/2019 15:37 | 1.1 |
| 435 | 12/5/2019 15:38 | 1.1 |
| 436 | 12/5/2019 15:39 | 1.1 |
| 437 | 12/5/2019 15:40 | 1.1 |
| 438 | 12/5/2019 15:41 | 1.1 |
| 439 | 12/5/2019 15:42 | 1   |
| 440 | 12/5/2019 15:43 | 1   |
| 441 | 12/5/2019 15:44 | 1   |
| 442 | 12/5/2019 15:45 | 1.1 |
| 443 | 12/5/2019 15:46 | 1.1 |
| 444 | 12/5/2019 15:47 | 1   |
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| 446 | 12/5/2019 15:49 | 1.1 |
| 447 | 12/5/2019 15:50 | 1.1 |
| 448 | 12/5/2019 15:51 | 1.1 |
| 449 | 12/5/2019 15:52 | 1.1 |
| 450 | 12/5/2019 15:53 | 1.1 |
| 451 | 12/5/2019 15:54 | 1.1 |
| 452 | 12/5/2019 15:55 | 1.1 |
| 453 | 12/5/2019 15:56 | 1.1 |
| 454 | 12/5/2019 15:57 | 1.1 |
| 455 | 12/5/2019 15:58 | 1.1 |
| 456 | 12/5/2019 15:59 | 1.1 |
| 457 | 12/5/2019 16:00 | 1.1 |
| 458 | 12/5/2019 16:01 | 1.1 |
| 459 | 12/5/2019 16:02 | 1.1 |
| 460 | 12/5/2019 16:03 | 1.1 |
| 461 | 12/5/2019 16:04 | 1.1 |
| 462 | 12/5/2019 16:05 | 1   |
| 463 | 12/5/2019 16:06 | 1   |
| 464 | 12/5/2019 16:07 | 1   |
| 465 | 12/5/2019 16:08 | 1   |
| 466 | 12/5/2019 16:09 | 1   |
| 467 | 12/5/2019 16:10 | 1   |
| 468 | 12/5/2019 16:11 | 1   |
| 469 | 12/5/2019 16:12 | 1   |
| 470 | 12/5/2019 16:13 | 1   |
| 471 | 12/5/2019 16:14 | 1   |
| 472 | 12/5/2019 16:15 | 1   |
| 473 | 12/5/2019 16:16 | 1   |
| 474 | 12/5/2019 16:17 | 1   |
| 475 | 12/5/2019 16:18 | 1   |

|         |                 |     |
|---------|-----------------|-----|
| 476     | 12/5/2019 16:19 | 1   |
| 477     | 12/5/2019 16:20 | 1   |
| 478     | 12/5/2019 16:21 | 1   |
| 479     | 12/5/2019 16:22 | 1   |
| 480     | 12/5/2019 16:23 | 1   |
| 481     | 12/5/2019 16:24 | 1   |
| 482     | 12/5/2019 16:25 | 1   |
| 483     | 12/5/2019 16:26 | 1   |
| 484     | 12/5/2019 16:27 | 1   |
| 485     | 12/5/2019 16:28 | 1   |
| 486     | 12/5/2019 16:29 | 1   |
| 487     | 12/5/2019 16:30 | 1   |
| Peak    |                 | 1.1 |
| Min     |                 | 0   |
| Average |                 | 0.7 |



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19/12/06 08:36

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/6/2019 8:36

End 12/6/2019 16:11

Sample Per 60

Number of 455

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) |
|-------|----------------|-------------------|
| 1     | 12/6/2019 8:37 | 0                 |
| 2     | 12/6/2019 8:38 | 0.2               |
| 3     | 12/6/2019 8:39 | 0.2               |
| 4     | 12/6/2019 8:40 | 0.2               |
| 5     | 12/6/2019 8:41 | 0.2               |

|    |                |     |
|----|----------------|-----|
| 6  | 12/6/2019 8:42 | 0.2 |
| 7  | 12/6/2019 8:43 | 0.2 |
| 8  | 12/6/2019 8:44 | 0.2 |
| 9  | 12/6/2019 8:45 | 0.2 |
| 10 | 12/6/2019 8:46 | 0.2 |
| 11 | 12/6/2019 8:47 | 0.2 |
| 12 | 12/6/2019 8:48 | 0.2 |
| 13 | 12/6/2019 8:49 | 0.2 |
| 14 | 12/6/2019 8:50 | 0.2 |
| 15 | 12/6/2019 8:51 | 0.2 |
| 16 | 12/6/2019 8:52 | 0.2 |
| 17 | 12/6/2019 8:53 | 0.2 |
| 18 | 12/6/2019 8:54 | 0.2 |
| 19 | 12/6/2019 8:55 | 0.2 |
| 20 | 12/6/2019 8:56 | 0.2 |
| 21 | 12/6/2019 8:57 | 0.2 |
| 22 | 12/6/2019 8:58 | 0.3 |
| 23 | 12/6/2019 8:59 | 0.3 |
| 24 | 12/6/2019 9:00 | 0.3 |
| 25 | 12/6/2019 9:01 | 0.3 |
| 26 | 12/6/2019 9:02 | 0.3 |
| 27 | 12/6/2019 9:03 | 0.3 |
| 28 | 12/6/2019 9:04 | 0.3 |
| 29 | 12/6/2019 9:05 | 0.3 |
| 30 | 12/6/2019 9:06 | 0.3 |
| 31 | 12/6/2019 9:07 | 0.4 |
| 32 | 12/6/2019 9:08 | 0.4 |
| 33 | 12/6/2019 9:09 | 0.3 |
| 34 | 12/6/2019 9:10 | 0.3 |
| 35 | 12/6/2019 9:11 | 0.3 |
| 36 | 12/6/2019 9:12 | 0.3 |
| 37 | 12/6/2019 9:13 | 0.3 |
| 38 | 12/6/2019 9:14 | 0.3 |
| 39 | 12/6/2019 9:15 | 0.3 |
| 40 | 12/6/2019 9:16 | 0.3 |
| 41 | 12/6/2019 9:17 | 0.3 |
| 42 | 12/6/2019 9:18 | 0.3 |
| 43 | 12/6/2019 9:19 | 0.3 |
| 44 | 12/6/2019 9:20 | 0.3 |
| 45 | 12/6/2019 9:21 | 0.3 |
| 46 | 12/6/2019 9:22 | 0.3 |
| 47 | 12/6/2019 9:23 | 0.3 |
| 48 | 12/6/2019 9:24 | 0.3 |
| 49 | 12/6/2019 9:25 | 0.3 |
| 50 | 12/6/2019 9:26 | 0.3 |
| 51 | 12/6/2019 9:27 | 0.3 |
| 52 | 12/6/2019 9:28 | 0.3 |

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|----|-----------------|-----|
| 53 | 12/6/2019 9:29  | 0.3 |
| 54 | 12/6/2019 9:30  | 0.3 |
| 55 | 12/6/2019 9:31  | 0.3 |
| 56 | 12/6/2019 9:32  | 0.3 |
| 57 | 12/6/2019 9:33  | 0.3 |
| 58 | 12/6/2019 9:34  | 0.3 |
| 59 | 12/6/2019 9:35  | 0.3 |
| 60 | 12/6/2019 9:36  | 0.3 |
| 61 | 12/6/2019 9:37  | 0.3 |
| 62 | 12/6/2019 9:38  | 0.3 |
| 63 | 12/6/2019 9:39  | 0.3 |
| 64 | 12/6/2019 9:40  | 0.3 |
| 65 | 12/6/2019 9:41  | 0.3 |
| 66 | 12/6/2019 9:42  | 0.3 |
| 67 | 12/6/2019 9:43  | 0.3 |
| 68 | 12/6/2019 9:44  | 0.3 |
| 69 | 12/6/2019 9:45  | 0.3 |
| 70 | 12/6/2019 9:46  | 0.3 |
| 71 | 12/6/2019 9:47  | 0.3 |
| 72 | 12/6/2019 9:48  | 0.3 |
| 73 | 12/6/2019 9:49  | 0.3 |
| 74 | 12/6/2019 9:50  | 0.3 |
| 75 | 12/6/2019 9:51  | 0.3 |
| 76 | 12/6/2019 9:52  | 0.3 |
| 77 | 12/6/2019 9:53  | 0.4 |
| 78 | 12/6/2019 9:54  | 0.4 |
| 79 | 12/6/2019 9:55  | 0.4 |
| 80 | 12/6/2019 9:56  | 0.4 |
| 81 | 12/6/2019 9:57  | 0.4 |
| 82 | 12/6/2019 9:58  | 0.4 |
| 83 | 12/6/2019 9:59  | 0.4 |
| 84 | 12/6/2019 10:00 | 0.4 |
| 85 | 12/6/2019 10:01 | 0.4 |
| 86 | 12/6/2019 10:02 | 0.4 |
| 87 | 12/6/2019 10:03 | 0.4 |
| 88 | 12/6/2019 10:04 | 0.5 |
| 89 | 12/6/2019 10:05 | 0.5 |
| 90 | 12/6/2019 10:06 | 0.5 |
| 91 | 12/6/2019 10:07 | 0.5 |
| 92 | 12/6/2019 10:08 | 0.5 |
| 93 | 12/6/2019 10:09 | 0.5 |
| 94 | 12/6/2019 10:10 | 0.5 |
| 95 | 12/6/2019 10:11 | 0.6 |
| 96 | 12/6/2019 10:12 | 0.6 |
| 97 | 12/6/2019 10:13 | 0.5 |
| 98 | 12/6/2019 10:14 | 0.5 |
| 99 | 12/6/2019 10:15 | 0.5 |

|     |                 |     |
|-----|-----------------|-----|
| 100 | 12/6/2019 10:16 | 0.5 |
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| 107 | 12/6/2019 10:23 | 0.6 |
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| 130 | 12/6/2019 10:46 | 0.6 |
| 131 | 12/6/2019 10:47 | 0.6 |
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| 146 | 12/6/2019 11:02 | 0.6 |



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| 148 | 12/6/2019 11:04 | 0.6 |
| 149 | 12/6/2019 11:05 | 0.6 |
| 150 | 12/6/2019 11:06 | 0.6 |
| 151 | 12/6/2019 11:07 | 0.7 |
| 152 | 12/6/2019 11:08 | 0.7 |
| 153 | 12/6/2019 11:09 | 0.7 |
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| 165 | 12/6/2019 11:21 | 0.9 |
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| 208 | 12/6/2019 12:04 | 1.5 |
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| 210 | 12/6/2019 12:06 | 1.5 |
| 211 | 12/6/2019 12:07 | 1.5 |
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| 277 | 12/6/2019 13:13 | 3.8 |
| 278 | 12/6/2019 13:14 | 3.9 |
| 279 | 12/6/2019 13:15 | 3.9 |
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| 281 | 12/6/2019 13:17 | 4   |
| 282 | 12/6/2019 13:18 | 4   |
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| 284 | 12/6/2019 13:20 | 4.1 |
| 285 | 12/6/2019 13:21 | 4.1 |
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| 287 | 12/6/2019 13:23 | 4.2 |

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| 289 | 12/6/2019 13:25 | 4.1 |
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| 291 | 12/6/2019 13:27 | 3.9 |
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| 309 | 12/6/2019 13:45 | 3.3 |
| 310 | 12/6/2019 13:46 | 3.3 |
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| 322 | 12/6/2019 13:58 | 2.9 |
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| 326 | 12/6/2019 14:02 | 2.8 |
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| 328 | 12/6/2019 14:04 | 2.7 |
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| 331 | 12/6/2019 14:07 | 2.5 |
| 332 | 12/6/2019 14:08 | 2.5 |
| 333 | 12/6/2019 14:09 | 2.4 |
| 334 | 12/6/2019 14:10 | 2.4 |



|     |                 |     |
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| 336 | 12/6/2019 14:12 | 2.3 |
| 337 | 12/6/2019 14:13 | 2.3 |
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| 339 | 12/6/2019 14:15 | 2.2 |
| 340 | 12/6/2019 14:16 | 2.2 |
| 341 | 12/6/2019 14:17 | 2.2 |
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| 343 | 12/6/2019 14:19 | 2.1 |
| 344 | 12/6/2019 14:20 | 2.1 |
| 345 | 12/6/2019 14:21 | 2.1 |
| 346 | 12/6/2019 14:22 | 2.1 |
| 347 | 12/6/2019 14:23 | 2.1 |
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| 351 | 12/6/2019 14:27 | 2   |
| 352 | 12/6/2019 14:28 | 2   |
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| 357 | 12/6/2019 14:33 | 2   |
| 358 | 12/6/2019 14:34 | 2.1 |
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| 360 | 12/6/2019 14:36 | 2   |
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| 363 | 12/6/2019 14:39 | 2   |
| 364 | 12/6/2019 14:40 | 2   |
| 365 | 12/6/2019 14:41 | 2   |
| 366 | 12/6/2019 14:42 | 2   |
| 367 | 12/6/2019 14:43 | 2   |
| 368 | 12/6/2019 14:44 | 1.9 |
| 369 | 12/6/2019 14:45 | 1.9 |
| 370 | 12/6/2019 14:46 | 1.9 |
| 371 | 12/6/2019 14:47 | 1.9 |
| 372 | 12/6/2019 14:48 | 1.9 |
| 373 | 12/6/2019 14:49 | 1.9 |
| 374 | 12/6/2019 14:50 | 1.9 |
| 375 | 12/6/2019 14:51 | 1.8 |
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| 377 | 12/6/2019 14:53 | 1.8 |
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| 379 | 12/6/2019 14:55 | 1.8 |
| 380 | 12/6/2019 14:56 | 1.8 |
| 381 | 12/6/2019 14:57 | 1.8 |

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| 382 | 12/6/2019 14:58 | 1.8 |
| 383 | 12/6/2019 14:59 | 1.7 |
| 384 | 12/6/2019 15:00 | 1.7 |
| 385 | 12/6/2019 15:01 | 1.7 |
| 386 | 12/6/2019 15:02 | 1.7 |
| 387 | 12/6/2019 15:03 | 1.7 |
| 388 | 12/6/2019 15:04 | 1.6 |
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| 398 | 12/6/2019 15:14 | 1.6 |
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| 400 | 12/6/2019 15:16 | 1.6 |
| 401 | 12/6/2019 15:17 | 1.5 |
| 402 | 12/6/2019 15:18 | 1.5 |
| 403 | 12/6/2019 15:19 | 1.5 |
| 404 | 12/6/2019 15:20 | 1.5 |
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| 406 | 12/6/2019 15:22 | 1.5 |
| 407 | 12/6/2019 15:23 | 1.5 |
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| 411 | 12/6/2019 15:27 | 1.5 |
| 412 | 12/6/2019 15:28 | 1.5 |
| 413 | 12/6/2019 15:29 | 1.5 |
| 414 | 12/6/2019 15:30 | 1.5 |
| 415 | 12/6/2019 15:31 | 1.5 |
| 416 | 12/6/2019 15:32 | 1.5 |
| 417 | 12/6/2019 15:33 | 1.5 |
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| 421 | 12/6/2019 15:37 | 1.4 |
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| 423 | 12/6/2019 15:39 | 1.4 |
| 424 | 12/6/2019 15:40 | 1.4 |
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| 426 | 12/6/2019 15:42 | 1.4 |
| 427 | 12/6/2019 15:43 | 1.4 |
| 428 | 12/6/2019 15:44 | 1.4 |

|     |                 |     |
|-----|-----------------|-----|
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| 430 | 12/6/2019 15:46 | 1.4 |
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| 432 | 12/6/2019 15:48 | 1.3 |
| 433 | 12/6/2019 15:49 | 1.3 |
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| 441 | 12/6/2019 15:57 | 1.2 |
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| 447 | 12/6/2019 16:03 | 1.4 |
| 448 | 12/6/2019 16:04 | 1.4 |
| 449 | 12/6/2019 16:05 | 1.4 |
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| 453 | 12/6/2019 16:09 | 1.3 |
| 454 | 12/6/2019 16:10 | 1.3 |
| 455 | 12/6/2019 16:11 | 1.3 |

|         |     |
|---------|-----|
| Peak    | 4.2 |
| Min     | 0   |
| Average | 1.6 |

19/12/13 09:32

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## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

Site ID RAE00000

User ID USER0000

Begin 12/13/2019 9:32

End 12/13/2019 16:33

Sample Per 60

Number of 420

Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) |
|-------|-----------------|-------------------|
| 1     | 12/13/2019 9:33 | 0.2               |
| 2     | 12/13/2019 9:34 | 0.2               |
| 3     | 12/13/2019 9:35 | 0.2               |
| 4     | 12/13/2019 9:36 | 0.2               |
| 5     | 12/13/2019 9:37 | 0.3               |



|    |                  |     |
|----|------------------|-----|
| 6  | 12/13/2019 9:38  | 0.3 |
| 7  | 12/13/2019 9:39  | 0.2 |
| 8  | 12/13/2019 9:40  | 0.2 |
| 9  | 12/13/2019 9:41  | 0.2 |
| 10 | 12/13/2019 9:42  | 0.2 |
| 11 | 12/13/2019 9:43  | 0.2 |
| 12 | 12/13/2019 9:44  | 0.2 |
| 13 | 12/13/2019 9:45  | 0.2 |
| 14 | 12/13/2019 9:46  | 0.3 |
| 15 | 12/13/2019 9:47  | 0.3 |
| 16 | 12/13/2019 9:48  | 0.3 |
| 17 | 12/13/2019 9:49  | 0.3 |
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| 19 | 12/13/2019 9:51  | 0.3 |
| 20 | 12/13/2019 9:52  | 0.3 |
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| 22 | 12/13/2019 9:54  | 0.2 |
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| 25 | 12/13/2019 9:57  | 0.2 |
| 26 | 12/13/2019 9:58  | 0.2 |
| 27 | 12/13/2019 9:59  | 0.2 |
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| 31 | 12/13/2019 10:03 | 0.1 |
| 32 | 12/13/2019 10:04 | 0.1 |
| 33 | 12/13/2019 10:05 | 0.1 |
| 34 | 12/13/2019 10:06 | 0.1 |
| 35 | 12/13/2019 10:07 | 0.2 |
| 36 | 12/13/2019 10:08 | 0.1 |
| 37 | 12/13/2019 10:09 | 0.1 |
| 38 | 12/13/2019 10:10 | 0.1 |
| 39 | 12/13/2019 10:11 | 0.1 |
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| 42 | 12/13/2019 10:14 | 0.1 |
| 43 | 12/13/2019 10:15 | 0.1 |
| 44 | 12/13/2019 10:16 | 0.1 |
| 45 | 12/13/2019 10:17 | 0.1 |
| 46 | 12/13/2019 10:18 | 0.1 |
| 47 | 12/13/2019 10:19 | 0.1 |
| 48 | 12/13/2019 10:20 | 0.1 |
| 49 | 12/13/2019 10:21 | 0.1 |
| 50 | 12/13/2019 10:22 | 0.1 |
| 51 | 12/13/2019 10:23 | 0.1 |
| 52 | 12/13/2019 10:24 | 0.1 |

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| 54 | 12/13/2019 10:26 | 0.1 |
| 55 | 12/13/2019 10:27 | 0.1 |
| 56 | 12/13/2019 10:28 | 0.1 |
| 57 | 12/13/2019 10:29 | 0.1 |
| 58 | 12/13/2019 10:30 | 0.1 |
| 59 | 12/13/2019 10:31 | 0.1 |
| 60 | 12/13/2019 10:32 | 0.1 |
| 61 | 12/13/2019 10:33 | 0.1 |
| 62 | 12/13/2019 10:34 | 0.1 |
| 63 | 12/13/2019 10:35 | 0.1 |
| 64 | 12/13/2019 10:36 | 0.1 |
| 65 | 12/13/2019 10:37 | 0.1 |
| 66 | 12/13/2019 10:38 | 0.1 |
| 67 | 12/13/2019 10:39 | 0.1 |
| 68 | 12/13/2019 10:40 | 0.1 |
| 69 | 12/13/2019 10:41 | 0.2 |
| 70 | 12/13/2019 10:42 | 0.2 |
| 71 | 12/13/2019 10:43 | 0.2 |
| 72 | 12/13/2019 10:44 | 0.2 |
| 73 | 12/13/2019 10:45 | 0.2 |
| 74 | 12/13/2019 10:46 | 0.2 |
| 75 | 12/13/2019 10:47 | 0.2 |
| 76 | 12/13/2019 10:48 | 0.2 |
| 77 | 12/13/2019 10:49 | 0.2 |
| 78 | 12/13/2019 10:50 | 0.2 |
| 79 | 12/13/2019 10:51 | 0.2 |
| 80 | 12/13/2019 10:52 | 0.3 |
| 81 | 12/13/2019 10:53 | 0.3 |
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| 87 | 12/13/2019 10:59 | 0.5 |
| 88 | 12/13/2019 11:00 | 0.6 |
| 89 | 12/13/2019 11:01 | 0.7 |
| 90 | 12/13/2019 11:02 | 1.1 |
| 91 | 12/13/2019 11:03 | 1.3 |
| 92 | 12/13/2019 11:04 | 1   |
| 93 | 12/13/2019 11:05 | 0.8 |
| 94 | 12/13/2019 11:06 | 0.7 |
| 95 | 12/13/2019 11:07 | 0.7 |
| 96 | 12/13/2019 11:08 | 0.8 |
| 97 | 12/13/2019 11:09 | 0.8 |
| 98 | 12/13/2019 11:10 | 0.7 |
| 99 | 12/13/2019 11:11 | 0.8 |

|     |                  |     |
|-----|------------------|-----|
| 100 | 12/13/2019 11:12 | 0.8 |
| 101 | 12/13/2019 11:13 | 0.7 |
| 102 | 12/13/2019 11:14 | 0.7 |
| 103 | 12/13/2019 11:15 | 0.7 |
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| 105 | 12/13/2019 11:17 | 0.7 |
| 106 | 12/13/2019 11:18 | 0.7 |
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| 132 | 12/13/2019 11:44 | 0.4 |
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| 146 | 12/13/2019 11:58 | 0.5 |

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| 157 | 12/13/2019 12:09 | 0.4 |
| 158 | 12/13/2019 12:10 | 0.4 |
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| 206 | 12/13/2019 12:58 | 0.6 |
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| 236 | 12/13/2019 13:28 | 0.3 |
| 237 | 12/13/2019 13:29 | 0.4 |
| 238 | 12/13/2019 13:30 | 0.4 |
| 239 | 12/13/2019 13:31 | 0.3 |
| 240 | 12/13/2019 13:32 | 0.3 |



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|-----|------------------|-----|
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| 243 | 12/13/2019 13:35 | 0.3 |
| 244 | 12/13/2019 13:36 | 0.3 |
| 245 | 12/13/2019 13:37 | 0.3 |
| 246 | 12/13/2019 13:38 | 0.3 |
| 247 | 12/13/2019 13:39 | 0.3 |
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| 251 | 12/13/2019 13:43 | 0.3 |
| 252 | 12/13/2019 13:44 | 0.3 |
| 253 | 12/13/2019 13:45 | 0.3 |
| 254 | 12/13/2019 13:46 | 0.3 |
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| 259 | 12/13/2019 13:51 | 0.3 |
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| 265 | 12/13/2019 13:57 | 0.5 |
| 266 | 12/13/2019 13:58 | 0.4 |
| 267 | 12/13/2019 13:59 | 0.4 |
| 268 | 12/13/2019 14:00 | 0.4 |
| 269 | 12/13/2019 14:01 | 0.4 |
| 270 | 12/13/2019 14:02 | 0.4 |
| 271 | 12/13/2019 14:03 | 0.6 |
| 272 | 12/13/2019 14:04 | 0.4 |
| 273 | 12/13/2019 14:05 | 0.4 |
| 274 | 12/13/2019 14:06 | 0.4 |
| 275 | 12/13/2019 14:07 | 0.4 |
| 276 | 12/13/2019 14:08 | 0.4 |
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| 278 | 12/13/2019 14:10 | 0.3 |
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| 281 | 12/13/2019 14:13 | 0.4 |
| 282 | 12/13/2019 14:14 | 0.3 |
| 283 | 12/13/2019 14:15 | 0.3 |
| 284 | 12/13/2019 14:16 | 0.3 |
| 285 | 12/13/2019 14:17 | 0.3 |
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| 287 | 12/13/2019 14:19 | 0.3 |

|     |                  |     |
|-----|------------------|-----|
| 288 | 12/13/2019 14:20 | 0.2 |
| 289 | 12/13/2019 14:21 | 0.2 |
| 290 | 12/13/2019 14:22 | 0.2 |
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| 293 | 12/13/2019 14:25 | 0.2 |
| 294 | 12/13/2019 14:26 | 0.2 |
| 295 | 12/13/2019 14:27 | 0.2 |
| 296 | 12/13/2019 14:28 | 0.2 |
| 297 | 12/13/2019 14:29 | 0.2 |
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| 301 | 12/13/2019 14:33 | 0.2 |
| 302 | 12/13/2019 14:34 | 0.2 |
| 303 | 12/13/2019 14:35 | 0.2 |
| 304 | 12/13/2019 14:36 | 0.2 |
| 305 | 12/13/2019 14:37 | 0.2 |
| 306 | 12/13/2019 14:38 | 0.2 |
| 307 | 12/13/2019 14:39 | 0.2 |
| 308 | 12/13/2019 14:40 | 0.2 |
| 309 | 12/13/2019 14:41 | 0.2 |
| 310 | 12/13/2019 14:42 | 0.2 |
| 311 | 12/13/2019 14:43 | 0.2 |
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| 320 | 12/13/2019 14:52 | 0.3 |
| 321 | 12/13/2019 14:53 | 0.3 |
| 322 | 12/13/2019 14:54 | 0.2 |
| 323 | 12/13/2019 14:55 | 0.3 |
| 324 | 12/13/2019 14:56 | 0.2 |
| 325 | 12/13/2019 14:57 | 0.2 |
| 326 | 12/13/2019 14:58 | 0.3 |
| 327 | 12/13/2019 14:59 | 0.3 |
| 328 | 12/13/2019 15:00 | 0.3 |
| 329 | 12/13/2019 15:01 | 0.2 |
| 330 | 12/13/2019 15:02 | 0.3 |
| 331 | 12/13/2019 15:03 | 0.3 |
| 332 | 12/13/2019 15:04 | 0.3 |
| 333 | 12/13/2019 15:05 | 0.3 |
| 334 | 12/13/2019 15:06 | 0.3 |

|     |                  |     |
|-----|------------------|-----|
| 335 | 12/13/2019 15:07 | 0.3 |
| 336 | 12/13/2019 15:08 | 0.3 |
| 337 | 12/13/2019 15:09 | 0.3 |
| 338 | 12/13/2019 15:10 | 0.3 |
| 339 | 12/13/2019 15:11 | 0.2 |
| 340 | 12/13/2019 15:12 | 0.2 |
| 341 | 12/13/2019 15:13 | 0.2 |
| 342 | 12/13/2019 15:14 | 0.2 |
| 343 | 12/13/2019 15:15 | 0.2 |
| 344 | 12/13/2019 15:16 | 0.2 |
| 345 | 12/13/2019 15:17 | 0.2 |
| 346 | 12/13/2019 15:18 | 0.2 |
| 347 | 12/13/2019 15:19 | 0.2 |
| 348 | 12/13/2019 15:20 | 0.2 |
| 349 | 12/13/2019 15:21 | 0.2 |
| 350 | 12/13/2019 15:22 | 0.3 |
| 351 | 12/13/2019 15:23 | 0.3 |
| 352 | 12/13/2019 15:24 | 0.4 |
| 353 | 12/13/2019 15:25 | 0.4 |
| 354 | 12/13/2019 15:26 | 0.4 |
| 355 | 12/13/2019 15:27 | 0.4 |
| 356 | 12/13/2019 15:28 | 0.4 |
| 357 | 12/13/2019 15:29 | 0.3 |
| 358 | 12/13/2019 15:30 | 0.3 |
| 359 | 12/13/2019 15:31 | 0.4 |
| 360 | 12/13/2019 15:32 | 0.3 |
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| 362 | 12/13/2019 15:34 | 0.3 |
| 363 | 12/13/2019 15:35 | 0.3 |
| 364 | 12/13/2019 15:36 | 0.3 |
| 365 | 12/13/2019 15:37 | 0.3 |
| 366 | 12/13/2019 15:38 | 0.3 |
| 367 | 12/13/2019 15:39 | 0.3 |
| 368 | 12/13/2019 15:40 | 0.3 |
| 369 | 12/13/2019 15:41 | 0.3 |
| 370 | 12/13/2019 15:42 | 0.3 |
| 371 | 12/13/2019 15:43 | 0.3 |
| 372 | 12/13/2019 15:44 | 0.3 |
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| 374 | 12/13/2019 15:46 | 0.3 |
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| 377 | 12/13/2019 15:49 | 0.3 |
| 378 | 12/13/2019 15:50 | 0.3 |
| 379 | 12/13/2019 15:51 | 0.3 |
| 380 | 12/13/2019 15:52 | 0.3 |
| 381 | 12/13/2019 15:53 | 0.3 |

|     |                  |     |
|-----|------------------|-----|
| 382 | 12/13/2019 15:54 | 0.3 |
| 383 | 12/13/2019 15:55 | 0.3 |
| 384 | 12/13/2019 15:56 | 0.3 |
| 385 | 12/13/2019 15:57 | 0.3 |
| 386 | 12/13/2019 15:58 | 0.3 |
| 387 | 12/13/2019 15:59 | 0.3 |
| 388 | 12/13/2019 16:00 | 0.3 |
| 389 | 12/13/2019 16:01 | 0.3 |
| 390 | 12/13/2019 16:02 | 0.3 |
| 391 | 12/13/2019 16:03 | 0.2 |
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| 393 | 12/13/2019 16:05 | 0.3 |
| 394 | 12/13/2019 16:06 | 0.3 |
| 395 | 12/13/2019 16:07 | 0.3 |
| 396 | 12/13/2019 16:08 | 0.3 |
| 397 | 12/13/2019 16:09 | 0.3 |
| 398 | 12/13/2019 16:10 | 0.3 |
| 399 | 12/13/2019 16:11 | 0.3 |
| 400 | 12/13/2019 16:12 | 0.3 |
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| 402 | 12/13/2019 16:14 | 0.3 |
| 403 | 12/13/2019 16:15 | 0.3 |
| 404 | 12/13/2019 16:16 | 0.3 |
| 405 | 12/13/2019 16:17 | 0.3 |
| 406 | 12/13/2019 16:18 | 0.3 |
| 407 | 12/13/2019 16:19 | 0.3 |
| 408 | 12/13/2019 16:20 | 0.3 |
| 409 | 12/13/2019 16:21 | 0.2 |
| 410 | 12/13/2019 16:22 | 0.2 |
| 411 | 12/13/2019 16:23 | 0.3 |
| 412 | 12/13/2019 16:24 | 0.3 |
| 413 | 12/13/2019 16:25 | 0.3 |
| 414 | 12/13/2019 16:26 | 0.3 |
| 415 | 12/13/2019 16:27 | 0.3 |
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| 417 | 12/13/2019 16:29 | 0.3 |
| 418 | 12/13/2019 16:30 | 0.3 |
| 419 | 12/13/2019 16:31 | 0.3 |
| 420 | 12/13/2019 16:32 | 0.3 |

|         |     |
|---------|-----|
| Peak    | 1.3 |
| Min     | 0.1 |
| Average | 0.3 |

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19/12/16 08:54

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

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Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/16/2019 8:54

End 12/16/2019 12:33

Sample Per 60

Number of 219

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

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## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) |
|-------|-----------------|-------------------|
| 1     | 12/16/2019 8:55 | 0.2               |
| 2     | 12/16/2019 8:56 | 0.2               |
| 3     | 12/16/2019 8:57 | 0.2               |
| 4     | 12/16/2019 8:58 | 0.2               |
| 5     | 12/16/2019 8:59 | 0.3               |



|    |                 |     |
|----|-----------------|-----|
| 6  | 12/16/2019 9:00 | 0.3 |
| 7  | 12/16/2019 9:01 | 0.3 |
| 8  | 12/16/2019 9:02 | 0.4 |
| 9  | 12/16/2019 9:03 | 0.5 |
| 10 | 12/16/2019 9:04 | 0.4 |
| 11 | 12/16/2019 9:05 | 0.4 |
| 12 | 12/16/2019 9:06 | 0.4 |
| 13 | 12/16/2019 9:07 | 0.4 |
| 14 | 12/16/2019 9:08 | 0.4 |
| 15 | 12/16/2019 9:09 | 0.5 |
| 16 | 12/16/2019 9:10 | 0.4 |
| 17 | 12/16/2019 9:11 | 0.5 |
| 18 | 12/16/2019 9:12 | 0.6 |
| 19 | 12/16/2019 9:13 | 0.6 |
| 20 | 12/16/2019 9:14 | 0.7 |
| 21 | 12/16/2019 9:15 | 0.8 |
| 22 | 12/16/2019 9:16 | 0.6 |
| 23 | 12/16/2019 9:17 | 0.7 |
| 24 | 12/16/2019 9:18 | 0.6 |
| 25 | 12/16/2019 9:19 | 0.5 |
| 26 | 12/16/2019 9:20 | 0.4 |
| 27 | 12/16/2019 9:21 | 0.5 |
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| 29 | 12/16/2019 9:23 | 0.5 |
| 30 | 12/16/2019 9:24 | 0.5 |
| 31 | 12/16/2019 9:25 | 0.5 |
| 32 | 12/16/2019 9:26 | 0.5 |
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| 34 | 12/16/2019 9:28 | 0.4 |
| 35 | 12/16/2019 9:29 | 0.4 |
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| 39 | 12/16/2019 9:33 | 0.5 |
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| 48 | 12/16/2019 9:42 | 0.5 |
| 49 | 12/16/2019 9:43 | 0.5 |
| 50 | 12/16/2019 9:44 | 0.6 |
| 51 | 12/16/2019 9:45 | 0.6 |
| 52 | 12/16/2019 9:46 | 0.6 |

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| 53 | 12/16/2019 9:47  | 0.6 |
| 54 | 12/16/2019 9:48  | 0.6 |
| 55 | 12/16/2019 9:49  | 0.6 |
| 56 | 12/16/2019 9:50  | 0.6 |
| 57 | 12/16/2019 9:51  | 0.5 |
| 58 | 12/16/2019 9:52  | 0.6 |
| 59 | 12/16/2019 9:53  | 0.7 |
| 60 | 12/16/2019 9:54  | 0.8 |
| 61 | 12/16/2019 9:55  | 0.5 |
| 62 | 12/16/2019 9:56  | 0.7 |
| 63 | 12/16/2019 9:57  | 0.6 |
| 64 | 12/16/2019 9:58  | 0.5 |
| 65 | 12/16/2019 9:59  | 0.4 |
| 66 | 12/16/2019 10:00 | 0.6 |
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| 72 | 12/16/2019 10:06 | 0.4 |
| 73 | 12/16/2019 10:07 | 0.5 |
| 74 | 12/16/2019 10:08 | 0.5 |
| 75 | 12/16/2019 10:09 | 0.6 |
| 76 | 12/16/2019 10:10 | 0.4 |
| 77 | 12/16/2019 10:11 | 0.4 |
| 78 | 12/16/2019 10:12 | 0.5 |
| 79 | 12/16/2019 10:13 | 0.5 |
| 80 | 12/16/2019 10:14 | 0.4 |
| 81 | 12/16/2019 10:15 | 0.3 |
| 82 | 12/16/2019 10:16 | 0.5 |
| 83 | 12/16/2019 10:17 | 0.6 |
| 84 | 12/16/2019 10:18 | 0.6 |
| 85 | 12/16/2019 10:19 | 0.6 |
| 86 | 12/16/2019 10:20 | 0.6 |
| 87 | 12/16/2019 10:21 | 0.6 |
| 88 | 12/16/2019 10:22 | 0.5 |
| 89 | 12/16/2019 10:23 | 0.4 |
| 90 | 12/16/2019 10:24 | 0.4 |
| 91 | 12/16/2019 10:25 | 0.4 |
| 92 | 12/16/2019 10:26 | 0.4 |
| 93 | 12/16/2019 10:27 | 0.3 |
| 94 | 12/16/2019 10:28 | 0.3 |
| 95 | 12/16/2019 10:29 | 0.3 |
| 96 | 12/16/2019 10:30 | 0.3 |
| 97 | 12/16/2019 10:31 | 0.3 |
| 98 | 12/16/2019 10:32 | 0.3 |
| 99 | 12/16/2019 10:33 | 0.2 |

|     |                  |     |
|-----|------------------|-----|
| 100 | 12/16/2019 10:34 | 0.3 |
| 101 | 12/16/2019 10:35 | 0.3 |
| 102 | 12/16/2019 10:36 | 0.3 |
| 103 | 12/16/2019 10:37 | 0.2 |
| 104 | 12/16/2019 10:38 | 0.2 |
| 105 | 12/16/2019 10:39 | 0.2 |
| 106 | 12/16/2019 10:40 | 0.2 |
| 107 | 12/16/2019 10:41 | 0.2 |
| 108 | 12/16/2019 10:42 | 0.2 |
| 109 | 12/16/2019 10:43 | 0.3 |
| 110 | 12/16/2019 10:44 | 0.4 |
| 111 | 12/16/2019 10:45 | 0.3 |
| 112 | 12/16/2019 10:46 | 0.3 |
| 113 | 12/16/2019 10:47 | 0.2 |
| 114 | 12/16/2019 10:48 | 0.3 |
| 115 | 12/16/2019 10:49 | 0.3 |
| 116 | 12/16/2019 10:50 | 0.4 |
| 117 | 12/16/2019 10:51 | 0.5 |
| 118 | 12/16/2019 10:52 | 0.6 |
| 119 | 12/16/2019 10:53 | 0.5 |
| 120 | 12/16/2019 10:54 | 0.5 |
| 121 | 12/16/2019 10:55 | 0.6 |
| 122 | 12/16/2019 10:56 | 0.7 |
| 123 | 12/16/2019 10:57 | 0.5 |
| 124 | 12/16/2019 10:58 | 0.5 |
| 125 | 12/16/2019 10:59 | 0.5 |
| 126 | 12/16/2019 11:00 | 0.6 |
| 127 | 12/16/2019 11:01 | 0.7 |
| 128 | 12/16/2019 11:02 | 0.8 |
| 129 | 12/16/2019 11:03 | 0.8 |
| 130 | 12/16/2019 11:04 | 0.8 |
| 131 | 12/16/2019 11:05 | 0.8 |
| 132 | 12/16/2019 11:06 | 0.8 |
| 133 | 12/16/2019 11:07 | 0.9 |
| 134 | 12/16/2019 11:08 | 0.9 |
| 135 | 12/16/2019 11:09 | 0.9 |
| 136 | 12/16/2019 11:10 | 0.7 |
| 137 | 12/16/2019 11:11 | 0.7 |
| 138 | 12/16/2019 11:12 | 0.5 |
| 139 | 12/16/2019 11:13 | 0.5 |
| 140 | 12/16/2019 11:14 | 0.5 |
| 141 | 12/16/2019 11:15 | 0.4 |
| 142 | 12/16/2019 11:16 | 0.5 |
| 143 | 12/16/2019 11:17 | 0.8 |
| 144 | 12/16/2019 11:18 | 1.2 |
| 145 | 12/16/2019 11:19 | 1.5 |
| 146 | 12/16/2019 11:20 | 1.7 |

|     |                  |     |
|-----|------------------|-----|
| 147 | 12/16/2019 11:21 | 1.5 |
| 148 | 12/16/2019 11:22 | 1.4 |
| 149 | 12/16/2019 11:23 | 1.1 |
| 150 | 12/16/2019 11:24 | 1.1 |
| 151 | 12/16/2019 11:25 | 1.1 |
| 152 | 12/16/2019 11:26 | 1.1 |
| 153 | 12/16/2019 11:27 | 1.1 |
| 154 | 12/16/2019 11:28 | 1   |
| 155 | 12/16/2019 11:29 | 1   |
| 156 | 12/16/2019 11:30 | 0.9 |
| 157 | 12/16/2019 11:31 | 0.8 |
| 158 | 12/16/2019 11:32 | 0.7 |
| 159 | 12/16/2019 11:33 | 0.6 |
| 160 | 12/16/2019 11:34 | 0.6 |
| 161 | 12/16/2019 11:35 | 0.6 |
| 162 | 12/16/2019 11:36 | 0.6 |
| 163 | 12/16/2019 11:37 | 0.5 |
| 164 | 12/16/2019 11:38 | 0.5 |
| 165 | 12/16/2019 11:39 | 0.4 |
| 166 | 12/16/2019 11:40 | 0.4 |
| 167 | 12/16/2019 11:41 | 0.4 |
| 168 | 12/16/2019 11:42 | 0.3 |
| 169 | 12/16/2019 11:43 | 0.3 |
| 170 | 12/16/2019 11:44 | 0.3 |
| 171 | 12/16/2019 11:45 | 0.3 |
| 172 | 12/16/2019 11:46 | 0.3 |
| 173 | 12/16/2019 11:47 | 0.2 |
| 174 | 12/16/2019 11:48 | 0.2 |
| 175 | 12/16/2019 11:49 | 0.3 |
| 176 | 12/16/2019 11:50 | 0.2 |
| 177 | 12/16/2019 11:51 | 0.2 |
| 178 | 12/16/2019 11:52 | 0.2 |
| 179 | 12/16/2019 11:53 | 0.2 |
| 180 | 12/16/2019 11:54 | 0.2 |
| 181 | 12/16/2019 11:55 | 0.2 |
| 182 | 12/16/2019 11:56 | 0.2 |
| 183 | 12/16/2019 11:57 | 0.2 |
| 184 | 12/16/2019 11:58 | 0.2 |
| 185 | 12/16/2019 11:59 | 0.2 |
| 186 | 12/16/2019 12:00 | 0.2 |
| 187 | 12/16/2019 12:01 | 0.2 |
| 188 | 12/16/2019 12:02 | 0.2 |
| 189 | 12/16/2019 12:03 | 0.2 |
| 190 | 12/16/2019 12:04 | 0.2 |
| 191 | 12/16/2019 12:05 | 0.2 |
| 192 | 12/16/2019 12:06 | 0.2 |
| 193 | 12/16/2019 12:07 | 0.2 |

|         |                  |     |
|---------|------------------|-----|
| 194     | 12/16/2019 12:08 | 0.2 |
| 195     | 12/16/2019 12:09 | 0.2 |
| 196     | 12/16/2019 12:10 | 0.2 |
| 197     | 12/16/2019 12:11 | 0.2 |
| 198     | 12/16/2019 12:12 | 0.2 |
| 199     | 12/16/2019 12:13 | 0.2 |
| 200     | 12/16/2019 12:14 | 0.2 |
| 201     | 12/16/2019 12:15 | 0.2 |
| 202     | 12/16/2019 12:16 | 0.2 |
| 203     | 12/16/2019 12:17 | 0.2 |
| 204     | 12/16/2019 12:18 | 0.2 |
| 205     | 12/16/2019 12:19 | 0.2 |
| 206     | 12/16/2019 12:20 | 0.2 |
| 207     | 12/16/2019 12:21 | 0.2 |
| 208     | 12/16/2019 12:22 | 0.3 |
| 209     | 12/16/2019 12:23 | 0.2 |
| 210     | 12/16/2019 12:24 | 0.2 |
| 211     | 12/16/2019 12:25 | 0.2 |
| 212     | 12/16/2019 12:26 | 0.2 |
| 213     | 12/16/2019 12:27 | 0.2 |
| 214     | 12/16/2019 12:28 | 0.2 |
| 215     | 12/16/2019 12:29 | 0.2 |
| 216     | 12/16/2019 12:30 | 0.2 |
| 217     | 12/16/2019 12:31 | 0.2 |
| 218     | 12/16/2019 12:32 | 0.2 |
| 219     | 12/16/2019 12:33 | 0.2 |
| Peak    |                  | 1.7 |
| Min     |                  | 0.2 |
| Average |                  | 0.5 |



19/12/17 08:54

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## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Power Down

Site ID RAE00000

User ID USER0000

Begin 12/17/2019 8:54

End 12/17/2019 13:25

Sample Per 60

Number of 270

Sensor PID(ppm)

Sensor SN S023030031VC

Measure Type Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) |
|-------|-----------------|-------------------|
| 1     | 12/17/2019 8:55 | 0                 |
| 2     | 12/17/2019 8:56 | 0                 |
| 3     | 12/17/2019 8:57 | 0                 |
| 4     | 12/17/2019 8:58 | 0                 |
| 5     | 12/17/2019 8:59 | 0                 |

|    |                 |     |
|----|-----------------|-----|
| 6  | 12/17/2019 9:00 | 0   |
| 7  | 12/17/2019 9:01 | 0   |
| 8  | 12/17/2019 9:02 | 0   |
| 9  | 12/17/2019 9:03 | 0   |
| 10 | 12/17/2019 9:04 | 0   |
| 11 | 12/17/2019 9:05 | 0   |
| 12 | 12/17/2019 9:06 | 0   |
| 13 | 12/17/2019 9:07 | 0   |
| 14 | 12/17/2019 9:08 | 0   |
| 15 | 12/17/2019 9:09 | 0   |
| 16 | 12/17/2019 9:10 | 0   |
| 17 | 12/17/2019 9:11 | 0   |
| 18 | 12/17/2019 9:12 | 0   |
| 19 | 12/17/2019 9:13 | 0   |
| 20 | 12/17/2019 9:14 | 0   |
| 21 | 12/17/2019 9:15 | 0   |
| 22 | 12/17/2019 9:16 | 0   |
| 23 | 12/17/2019 9:17 | 0   |
| 24 | 12/17/2019 9:18 | 0   |
| 25 | 12/17/2019 9:19 | 0   |
| 26 | 12/17/2019 9:20 | 0   |
| 27 | 12/17/2019 9:21 | 0   |
| 28 | 12/17/2019 9:22 | 0   |
| 29 | 12/17/2019 9:23 | 0   |
| 30 | 12/17/2019 9:24 | 0   |
| 31 | 12/17/2019 9:25 | 0.1 |
| 32 | 12/17/2019 9:26 | 0   |
| 33 | 12/17/2019 9:27 | 0   |
| 34 | 12/17/2019 9:28 | 0   |
| 35 | 12/17/2019 9:29 | 0   |
| 36 | 12/17/2019 9:30 | 0   |
| 37 | 12/17/2019 9:31 | 0   |
| 38 | 12/17/2019 9:32 | 0   |
| 39 | 12/17/2019 9:33 | 0   |
| 40 | 12/17/2019 9:34 | 0   |
| 41 | 12/17/2019 9:35 | 0   |
| 42 | 12/17/2019 9:36 | 0   |
| 43 | 12/17/2019 9:37 | 0   |
| 44 | 12/17/2019 9:38 | 0   |
| 45 | 12/17/2019 9:39 | 0   |
| 46 | 12/17/2019 9:40 | 0   |
| 47 | 12/17/2019 9:41 | 0   |
| 48 | 12/17/2019 9:42 | 0   |
| 49 | 12/17/2019 9:43 | 0   |
| 50 | 12/17/2019 9:44 | 0   |
| 51 | 12/17/2019 9:45 | 0   |
| 52 | 12/17/2019 9:46 | 0   |

|    |                  |     |
|----|------------------|-----|
| 53 | 12/17/2019 9:47  | 0   |
| 54 | 12/17/2019 9:48  | 0   |
| 55 | 12/17/2019 9:49  | 0   |
| 56 | 12/17/2019 9:50  | 0   |
| 57 | 12/17/2019 9:51  | 0   |
| 58 | 12/17/2019 9:52  | 0   |
| 59 | 12/17/2019 9:53  | 0   |
| 60 | 12/17/2019 9:54  | 0   |
| 61 | 12/17/2019 9:55  | 0   |
| 62 | 12/17/2019 9:56  | 0   |
| 63 | 12/17/2019 9:57  | 0   |
| 64 | 12/17/2019 9:58  | 0   |
| 65 | 12/17/2019 9:59  | 0   |
| 66 | 12/17/2019 10:00 | 0   |
| 67 | 12/17/2019 10:01 | 0   |
| 68 | 12/17/2019 10:02 | 0   |
| 69 | 12/17/2019 10:03 | 0   |
| 70 | 12/17/2019 10:04 | 0   |
| 71 | 12/17/2019 10:05 | 0   |
| 72 | 12/17/2019 10:06 | 0   |
| 73 | 12/17/2019 10:07 | 0   |
| 74 | 12/17/2019 10:08 | 0   |
| 75 | 12/17/2019 10:09 | 0   |
| 76 | 12/17/2019 10:10 | 0   |
| 77 | 12/17/2019 10:11 | 0.1 |
| 78 | 12/17/2019 10:12 | 0   |
| 79 | 12/17/2019 10:13 | 0.1 |
| 80 | 12/17/2019 10:14 | 0.1 |
| 81 | 12/17/2019 10:15 | 0.1 |
| 82 | 12/17/2019 10:16 | 0.1 |
| 83 | 12/17/2019 10:17 | 0.1 |
| 84 | 12/17/2019 10:18 | 0.1 |
| 85 | 12/17/2019 10:19 | 0.1 |
| 86 | 12/17/2019 10:20 | 0.1 |
| 87 | 12/17/2019 10:21 | 0   |
| 88 | 12/17/2019 10:22 | 0   |
| 89 | 12/17/2019 10:23 | 0   |
| 90 | 12/17/2019 10:24 | 0   |
| 91 | 12/17/2019 10:25 | 0   |
| 92 | 12/17/2019 10:26 | 0   |
| 93 | 12/17/2019 10:27 | 0   |
| 94 | 12/17/2019 10:28 | 0   |
| 95 | 12/17/2019 10:29 | 0   |
| 96 | 12/17/2019 10:30 | 0   |
| 97 | 12/17/2019 10:31 | 0   |
| 98 | 12/17/2019 10:32 | 0   |
| 99 | 12/17/2019 10:33 | 0   |

|     |                  |     |
|-----|------------------|-----|
| 100 | 12/17/2019 10:34 | 0   |
| 101 | 12/17/2019 10:35 | 0   |
| 102 | 12/17/2019 10:36 | 0   |
| 103 | 12/17/2019 10:37 | 0   |
| 104 | 12/17/2019 10:38 | 0   |
| 105 | 12/17/2019 10:39 | 0   |
| 106 | 12/17/2019 10:40 | 0   |
| 107 | 12/17/2019 10:41 | 0   |
| 108 | 12/17/2019 10:42 | 0   |
| 109 | 12/17/2019 10:43 | 0   |
| 110 | 12/17/2019 10:44 | 0   |
| 111 | 12/17/2019 10:45 | 0   |
| 112 | 12/17/2019 10:46 | 0   |
| 113 | 12/17/2019 10:47 | 0   |
| 114 | 12/17/2019 10:48 | 0   |
| 115 | 12/17/2019 10:49 | 0   |
| 116 | 12/17/2019 10:50 | 0   |
| 117 | 12/17/2019 10:51 | 0   |
| 118 | 12/17/2019 10:52 | 0   |
| 119 | 12/17/2019 10:53 | 0   |
| 120 | 12/17/2019 10:54 | 0   |
| 121 | 12/17/2019 10:55 | 0   |
| 122 | 12/17/2019 10:56 | 0   |
| 123 | 12/17/2019 10:57 | 0.1 |
| 124 | 12/17/2019 10:58 | 0   |
| 125 | 12/17/2019 10:59 | 0.1 |
| 126 | 12/17/2019 11:00 | 0.1 |
| 127 | 12/17/2019 11:01 | 0   |
| 128 | 12/17/2019 11:02 | 0.1 |
| 129 | 12/17/2019 11:03 | 0.1 |
| 130 | 12/17/2019 11:04 | 0.1 |
| 131 | 12/17/2019 11:05 | 0.1 |
| 132 | 12/17/2019 11:06 | 0.1 |
| 133 | 12/17/2019 11:07 | 0.1 |
| 134 | 12/17/2019 11:08 | 0.1 |
| 135 | 12/17/2019 11:09 | 0.1 |
| 136 | 12/17/2019 11:10 | 0.1 |
| 137 | 12/17/2019 11:11 | 0.1 |
| 138 | 12/17/2019 11:12 | 0.1 |
| 139 | 12/17/2019 11:13 | 0.1 |
| 140 | 12/17/2019 11:14 | 0.1 |
| 141 | 12/17/2019 11:15 | 0.1 |
| 142 | 12/17/2019 11:16 | 0.1 |
| 143 | 12/17/2019 11:17 | 0.1 |
| 144 | 12/17/2019 11:18 | 0.1 |
| 145 | 12/17/2019 11:19 | 0.1 |
| 146 | 12/17/2019 11:20 | 0.1 |

|     |                  |     |
|-----|------------------|-----|
| 147 | 12/17/2019 11:21 | 0.1 |
| 148 | 12/17/2019 11:22 | 0.1 |
| 149 | 12/17/2019 11:23 | 0.1 |
| 150 | 12/17/2019 11:24 | 0.1 |
| 151 | 12/17/2019 11:25 | 0.1 |
| 152 | 12/17/2019 11:26 | 0.1 |
| 153 | 12/17/2019 11:27 | 0.1 |
| 154 | 12/17/2019 11:28 | 0.1 |
| 155 | 12/17/2019 11:29 | 0.1 |
| 156 | 12/17/2019 11:30 | 0.1 |
| 157 | 12/17/2019 11:31 | 0.1 |
| 158 | 12/17/2019 11:32 | 0.1 |
| 159 | 12/17/2019 11:33 | 0.1 |
| 160 | 12/17/2019 11:34 | 0.1 |
| 161 | 12/17/2019 11:35 | 0.1 |
| 162 | 12/17/2019 11:36 | 0.1 |
| 163 | 12/17/2019 11:37 | 0.2 |
| 164 | 12/17/2019 11:38 | 0.4 |
| 165 | 12/17/2019 11:39 | 0.4 |
| 166 | 12/17/2019 11:40 | 0.2 |
| 167 | 12/17/2019 11:41 | 0.2 |
| 168 | 12/17/2019 11:42 | 0.4 |
| 169 | 12/17/2019 11:43 | 0.6 |
| 170 | 12/17/2019 11:44 | 0.6 |
| 171 | 12/17/2019 11:45 | 0.6 |
| 172 | 12/17/2019 11:46 | 0.8 |
| 173 | 12/17/2019 11:47 | 0.7 |
| 174 | 12/17/2019 11:48 | 0.8 |
| 175 | 12/17/2019 11:49 | 1   |
| 176 | 12/17/2019 11:50 | 1.1 |
| 177 | 12/17/2019 11:51 | 1.2 |
| 178 | 12/17/2019 11:52 | 1.2 |
| 179 | 12/17/2019 11:53 | 1.2 |
| 180 | 12/17/2019 11:54 | 1.1 |
| 181 | 12/17/2019 11:55 | 1.2 |
| 182 | 12/17/2019 11:56 | 1.1 |
| 183 | 12/17/2019 11:57 | 1   |
| 184 | 12/17/2019 11:58 | 1   |
| 185 | 12/17/2019 11:59 | 0.9 |
| 186 | 12/17/2019 12:00 | 1   |
| 187 | 12/17/2019 12:01 | 1   |
| 188 | 12/17/2019 12:02 | 1   |
| 189 | 12/17/2019 12:03 | 0.9 |
| 190 | 12/17/2019 12:04 | 0.8 |
| 191 | 12/17/2019 12:05 | 0.7 |
| 192 | 12/17/2019 12:06 | 0.8 |
| 193 | 12/17/2019 12:07 | 0.8 |



|     |                  |     |
|-----|------------------|-----|
| 194 | 12/17/2019 12:08 | 0.8 |
| 195 | 12/17/2019 12:09 | 0.6 |
| 196 | 12/17/2019 12:10 | 0.6 |
| 197 | 12/17/2019 12:11 | 0.9 |
| 198 | 12/17/2019 12:12 | 0.8 |
| 199 | 12/17/2019 12:13 | 0.7 |
| 200 | 12/17/2019 12:14 | 0.9 |
| 201 | 12/17/2019 12:15 | 0.9 |
| 202 | 12/17/2019 12:16 | 0.6 |
| 203 | 12/17/2019 12:17 | 0.5 |
| 204 | 12/17/2019 12:18 | 0.6 |
| 205 | 12/17/2019 12:19 | 0.7 |
| 206 | 12/17/2019 12:20 | 0.7 |
| 207 | 12/17/2019 12:21 | 0.8 |
| 208 | 12/17/2019 12:22 | 0.6 |
| 209 | 12/17/2019 12:23 | 0.5 |
| 210 | 12/17/2019 12:24 | 0.6 |
| 211 | 12/17/2019 12:25 | 0.6 |
| 212 | 12/17/2019 12:26 | 0.7 |
| 213 | 12/17/2019 12:27 | 0.8 |
| 214 | 12/17/2019 12:28 | 0.7 |
| 215 | 12/17/2019 12:29 | 0.6 |
| 216 | 12/17/2019 12:30 | 0.8 |
| 217 | 12/17/2019 12:31 | 0.9 |
| 218 | 12/17/2019 12:32 | 0.8 |
| 219 | 12/17/2019 12:33 | 0.7 |
| 220 | 12/17/2019 12:34 | 0.7 |
| 221 | 12/17/2019 12:35 | 0.6 |
| 222 | 12/17/2019 12:36 | 0.6 |
| 223 | 12/17/2019 12:37 | 0.5 |
| 224 | 12/17/2019 12:38 | 0.7 |
| 225 | 12/17/2019 12:39 | 0.6 |
| 226 | 12/17/2019 12:40 | 0.7 |
| 227 | 12/17/2019 12:41 | 0.5 |
| 228 | 12/17/2019 12:42 | 0.5 |
| 229 | 12/17/2019 12:43 | 0.5 |
| 230 | 12/17/2019 12:44 | 0.7 |
| 231 | 12/17/2019 12:45 | 0.6 |
| 232 | 12/17/2019 12:46 | 0.7 |
| 233 | 12/17/2019 12:47 | 0.9 |
| 234 | 12/17/2019 12:48 | 1   |
| 235 | 12/17/2019 12:49 | 1.2 |
| 236 | 12/17/2019 12:50 | 0.7 |
| 237 | 12/17/2019 12:51 | 0.7 |
| 238 | 12/17/2019 12:52 | 0.8 |
| 239 | 12/17/2019 12:53 | 0.8 |
| 240 | 12/17/2019 12:54 | 0.9 |

|         |                  |     |
|---------|------------------|-----|
| 241     | 12/17/2019 12:55 | 0.9 |
| 242     | 12/17/2019 12:56 | 0.8 |
| 243     | 12/17/2019 12:57 | 1.1 |
| 244     | 12/17/2019 12:58 | 1.1 |
| 245     | 12/17/2019 12:59 | 1.1 |
| 246     | 12/17/2019 13:00 | 1.2 |
| 247     | 12/17/2019 13:01 | 1   |
| 248     | 12/17/2019 13:02 | 1.1 |
| 249     | 12/17/2019 13:03 | 0.9 |
| 250     | 12/17/2019 13:04 | 0.7 |
| 251     | 12/17/2019 13:05 | 0.9 |
| 252     | 12/17/2019 13:06 | 0.9 |
| 253     | 12/17/2019 13:07 | 1   |
| 254     | 12/17/2019 13:08 | 1.2 |
| 255     | 12/17/2019 13:09 | 1   |
| 256     | 12/17/2019 13:10 | 1.1 |
| 257     | 12/17/2019 13:11 | 1.1 |
| 258     | 12/17/2019 13:12 | 0.9 |
| 259     | 12/17/2019 13:13 | 0.6 |
| 260     | 12/17/2019 13:14 | 0.6 |
| 261     | 12/17/2019 13:15 | 0.5 |
| 262     | 12/17/2019 13:16 | 0.5 |
| 263     | 12/17/2019 13:17 | 0.5 |
| 264     | 12/17/2019 13:18 | 0.5 |
| 265     | 12/17/2019 13:19 | 0.5 |
| 266     | 12/17/2019 13:20 | 0.5 |
| 267     | 12/17/2019 13:21 | 0.4 |
| 268     | 12/17/2019 13:22 | 0.5 |
| 269     | 12/17/2019 13:23 | 0.4 |
| 270     | 12/17/2019 13:24 | 0.6 |
| Peak    |                  | 1.2 |
| Min     |                  | 0   |
| Average |                  | 0.3 |

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19/12/30 07:37

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A

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Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Power Down

-----

Site ID 12345678

User ID 12345678

-----

Begin 12/30/2019 7:37

End 12/30/2019 15:20

Sample Per 900

Number of 30

-----

Sensor PID(ppm)

Sensor SN S023030130U6

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 12/27/2019 14:06

Peak 16.6

Min 0.3

Average 2.9

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## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 12/30/2019 7:52 | 0.6               | 1                 | 0.5                |
| 2     | 12/30/2019 8:07 | 0.4               | 0.5               | 0.4                |
| 3     | 12/30/2019 8:22 | 0.3               | 0.4               | 0.3                |
| 4     | 12/30/2019 8:37 | 0.3               | 0.3               | 0.3                |
| 5     | 12/30/2019 8:52 | 0.3               | 0.3               | 0.3                |

|         |                  |     |      |      |
|---------|------------------|-----|------|------|
| 6       | 12/30/2019 9:07  | 0.3 | 0.4  | 0.3  |
| 7       | 12/30/2019 9:22  | 0.5 | 0.6  | 0.5  |
| 8       | 12/30/2019 9:37  | 0.5 | 1.3  | 0.5  |
| 9       | 12/30/2019 9:52  | 0.4 | 0.5  | 0.4  |
| 10      | 12/30/2019 10:07 | 0.4 | 0.6  | 0.5  |
| 11      | 12/30/2019 10:22 | 0.4 | 0.6  | 0.4  |
| 12      | 12/30/2019 10:37 | 0.4 | 0.5  | 0.4  |
| 13      | 12/30/2019 10:52 | 0.4 | 0.6  | 0.5  |
| 14      | 12/30/2019 11:07 | 1.3 | 7.9  | 1.3  |
| 15      | 12/30/2019 11:22 | 2.5 | 11.8 | 2.6  |
| 16      | 12/30/2019 11:37 | 2.3 | 2.7  | 1.7  |
| 17      | 12/30/2019 11:52 | 2   | 2.6  | 1.8  |
| 18      | 12/30/2019 12:07 | 2.3 | 3.2  | 3.2  |
| 19      | 12/30/2019 12:22 | 3.5 | 5.5  | 4.1  |
| 20      | 12/30/2019 12:37 | 4.6 | 6.5  | 5.9  |
| 21      | 12/30/2019 12:52 | 5.5 | 6.7  | 4.5  |
| 22      | 12/30/2019 13:07 | 4.9 | 6.2  | 4.4  |
| 23      | 12/30/2019 13:22 | 7.1 | 11.6 | 7.4  |
| 24      | 12/30/2019 13:37 | 6.4 | 8.4  | 5.8  |
| 25      | 12/30/2019 13:52 | 5.4 | 8.4  | 4.4  |
| 26      | 12/30/2019 14:07 | 5   | 22.2 | 16.6 |
| 27      | 12/30/2019 14:22 | 6.8 | 20.4 | 4.8  |
| 28      | 12/30/2019 14:37 | 3.3 | 6.4  | 3.5  |
| 29      | 12/30/2019 14:52 | 2.6 | 5.1  | 1.4  |
| 30      | 12/30/2019 15:07 | 4.6 | 11.9 | 7.4  |
| Peak    |                  | 7.1 | 22.2 | 16.6 |
| Min     |                  | 0.3 | 0.3  | 0.3  |
| Average |                  | 2.5 | 5.2  | 2.9  |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 7:52  | 0                 | 0.5                |
| 2     | 12/30/2019 8:07  | 0                 | 0.9                |
| 3     | 12/30/2019 8:22  | 0                 | 0.7                |
| 4     | 12/30/2019 8:37  | 0                 | 0.6                |
| 5     | 12/30/2019 8:52  | 0.1               | 0.6                |
| 6     | 12/30/2019 9:07  | 0.1               | 0.6                |
| 7     | 12/30/2019 9:22  | 0.1               | 0.8                |
| 8     | 12/30/2019 9:37  | 0.1               | 1                  |
| 9     | 12/30/2019 9:52  | 0.1               | 0.9                |
| 10    | 12/30/2019 10:07 | 0.1               | 0.9                |
| 11    | 12/30/2019 10:22 | 0.1               | 0.9                |
| 12    | 12/30/2019 10:37 | 0.2               | 0.8                |
| 13    | 12/30/2019 10:52 | 0.2               | 0.9                |
| 14    | 12/30/2019 11:07 | 0.2               | 1.8                |

|    |                  |     |      |
|----|------------------|-----|------|
| 15 | 12/30/2019 11:22 | 0.3 | 3.9  |
| 16 | 12/30/2019 11:37 | 0.3 | 4.3  |
| 17 | 12/30/2019 11:52 | 0.4 | 3.5  |
| 18 | 12/30/2019 12:07 | 0.5 | 5    |
| 19 | 12/30/2019 12:22 | 0.6 | 7.3  |
| 20 | 12/30/2019 12:37 | 0.8 | 10   |
| 21 | 12/30/2019 12:52 | 0.9 | 10.4 |
| 22 | 12/30/2019 13:07 | 1.1 | 8.9  |
| 23 | 12/30/2019 13:22 | 1.3 | 11.8 |
| 24 | 12/30/2019 13:37 | 1.5 | 13.2 |
| 25 | 12/30/2019 13:52 | 1.6 | 10.2 |
| 26 | 12/30/2019 14:07 | 2.2 | 21   |
| 27 | 12/30/2019 14:22 | 2.3 | 21.4 |
| 28 | 12/30/2019 14:37 | 2.4 | 8.3  |
| 29 | 12/30/2019 14:52 | 2.5 | 4.9  |
| 30 | 12/30/2019 15:07 | 2.7 | 8.8  |



19/12/30 10:10

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## Summary

Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-925155  
Unit Firmware Ver V2.20A

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Battery Low

Site ID 12345682  
User ID 12345678

Begin 12/30/2019 10:10  
End 12/30/2019 12:00  
Sample Period(s) 900  
Number of Records 7

Sensor PID(ppm)  
Sensor SN S023030202V3  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 12/27/2019 13:57  
Peak 1  
Min 0.4  
Average 0.6

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## Datalog

| Index | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|------------------|-------------------|-------------------|--------------------|
| 1     | 12/30/2019 10:25 | 0.3               | 0.4               | 0.4                |
| 2     | 12/30/2019 10:40 | 0.4               | 0.4               | 0.4                |
| 3     | 12/30/2019 10:55 | 0.4               | 0.5               | 0.5                |
| 4     | 12/30/2019 11:10 | 0.5               | 0.5               | 0.5                |
| 5     | 12/30/2019 11:25 | 0.6               | 0.6               | 0.6                |

|         |   |                  |     |     |     |
|---------|---|------------------|-----|-----|-----|
|         | 6 | 12/30/2019 11:40 | 0.7 | 0.8 | 0.8 |
|         | 7 | 12/30/2019 11:55 | 0.9 | 1   | 1   |
| Peak    |   |                  | 0.9 | 1   | 1   |
| Min     |   |                  | 0.3 | 0.4 | 0.4 |
| Average |   |                  | 0.5 | 0.6 | 0.6 |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 10:25 | 0                 | 0.4                |
| 2     | 12/30/2019 10:40 | 0                 | 0.8                |
| 3     | 12/30/2019 10:55 | 0                 | 0.9                |
| 4     | 12/30/2019 11:10 | 0.1               | 1                  |
| 5     | 12/30/2019 11:25 | 0.1               | 1.1                |
| 6     | 12/30/2019 11:40 | 0.1               | 1.4                |
| 7     | 12/30/2019 11:55 | 0.1               | 1.8                |

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19/12/30 12:04

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#### Summary

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-----
Unit Name      MiniRAE 3000(PGM-7320)
Unit SN       592-925155
Unit Firmware Ver V2.20A
-----
Running Mode   Hygiene Mode
Datalog Mode   Auto
Diagnostic Mode No
Stop Reason    Power Down
-----
Site ID        12345682
User ID        12345678
-----
Begin          12/30/2019 12:04
End            12/30/2019 13:02
Sample Period(s) 900
Number of Records 3
-----
Sensor         PID(ppm)
Sensor SN      S023030202V3
Measure Type   Avg; Max; Real
Span           100
Span 2         1000
Low Alarm      50
High Alarm     100
Over Alarm     15000

```

|                  |                  |
|------------------|------------------|
| STEL Alarm       | 25               |
| TWA Alarm        | 10               |
| Measurement Gas  | Isobutylene      |
| Calibration Time | 12/27/2019 13:57 |
| Peak             | 1.3              |
| Min              | 1                |
| Average          | 1.1              |

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#### Datalog

| Index   | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|---------|------------------|-------------------|-------------------|--------------------|
| 1       | 12/30/2019 12:19 | 0.9               | 1                 | 1                  |
| 2       | 12/30/2019 12:34 | 1.1               | 1.1               | 1.1                |
| 3       | 12/30/2019 12:49 | 1.2               | 1.4               | 1.3                |
| Peak    |                  | 1.2               | 1.4               | 1.3                |
| Min     |                  | 0.9               | 1                 | 1                  |
| Average |                  | 1.1               | 1.2               | 1.1                |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 12:19 | 0                 | 1                  |
| 2     | 12/30/2019 12:34 | 0.1               | 2.1                |
| 3     | 12/30/2019 12:49 | 0.1               | 2.4                |

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19/12/30 13:05

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#### Summary

|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-925155             |
| Unit Firmware Ver | V2.20A                 |

|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Power Down   |

|         |          |
|---------|----------|
| Site ID | 12345682 |
| User ID | 12345678 |

|                   |                  |
|-------------------|------------------|
| Begin             | 12/30/2019 13:05 |
| End               | 12/30/2019 13:26 |
| Sample Period(s)  | 900              |
| Number of Records | 1                |

```

-----
Sensor          PID(ppm)
Sensor SN       S023030202V3
Measure Type    Avg; Max; Real
Span            100
Span 2          1000
Low Alarm       50
High Alarm      100
Over Alarm      15000
STEL Alarm      25
TWA Alarm       10
Measurement Gas Isobutylene
Calibration Time 12/27/2019 13:57
Peak            0.9
Min             0.9
Average         0.9

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#### Datalog

| Index   | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|---------|------------------|-------------------|-------------------|--------------------|
| 1       | 12/30/2019 13:20 | 0.9               | 1.1               | 0.9                |
| Peak    |                  | 0.9               | 1.1               | 0.9                |
| Min     |                  | 0.9               | 1.1               | 0.9                |
| Average |                  | 0.9               | 1.1               | 0.9                |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 13:20 | 0                 | 0.9                |

19/12/31 07:07

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## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

Site ID 12345678

User ID 12345678

Begin 12/31/2019 7:07

End 12/31/2019 14:55

Sample Per 900

Number of 31

Sensor PID(ppm)

Sensor SN S023030130U6

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 14:06

Peak 11.2

Min 0.8

Average 4.3

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## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 12/31/2019 7:22 | 1                 | 1.7               | 0.8                |
| 2     | 12/31/2019 7:37 | 0.8               | 1.1               | 1.1                |
| 3     | 12/31/2019 7:52 | 1.8               | 3.2               | 2.4                |
| 4     | 12/31/2019 8:07 | 3                 | 4.4               | 2.2                |
| 5     | 12/31/2019 8:22 | 2.7               | 4                 | 4                  |



|         |                  |      |      |      |
|---------|------------------|------|------|------|
| 6       | 12/31/2019 8:37  | 4.8  | 6.7  | 5.3  |
| 7       | 12/31/2019 8:52  | 7.2  | 8.8  | 7.5  |
| 8       | 12/31/2019 9:07  | 5.1  | 7.5  | 5    |
| 9       | 12/31/2019 9:22  | 4.2  | 7.6  | 7.6  |
| 10      | 12/31/2019 9:37  | 9.7  | 24   | 11.2 |
| 11      | 12/31/2019 9:52  | 10.5 | 22.8 | 8.5  |
| 12      | 12/31/2019 10:07 | 9.5  | 15.4 | 8.4  |
| 13      | 12/31/2019 10:22 | 7.3  | 9.9  | 7.8  |
| 14      | 12/31/2019 10:37 | 6.7  | 7.9  | 5.8  |
| 15      | 12/31/2019 10:52 | 5.8  | 6.9  | 6.6  |
| 16      | 12/31/2019 11:07 | 5.4  | 6.6  | 5    |
| 17      | 12/31/2019 11:22 | 4    | 5    | 3.4  |
| 18      | 12/31/2019 11:37 | 2.9  | 3.8  | 2.7  |
| 19      | 12/31/2019 11:52 | 2.6  | 2.9  | 2.4  |
| 20      | 12/31/2019 12:07 | 2.2  | 2.9  | 2    |
| 21      | 12/31/2019 12:22 | 1.9  | 2.5  | 1.8  |
| 22      | 12/31/2019 12:37 | 1.8  | 2.5  | 1.7  |
| 23      | 12/31/2019 12:52 | 2    | 3.1  | 3    |
| 24      | 12/31/2019 13:07 | 2.5  | 3.4  | 3.4  |
| 25      | 12/31/2019 13:22 | 2.7  | 4.3  | 3.3  |
| 26      | 12/31/2019 13:37 | 3.5  | 5.1  | 3.8  |
| 27      | 12/31/2019 13:52 | 4.2  | 6.2  | 4.3  |
| 28      | 12/31/2019 14:07 | 4.5  | 5.9  | 3.8  |
| 29      | 12/31/2019 14:22 | 4.3  | 6    | 3.9  |
| 30      | 12/31/2019 14:37 | 3.7  | 4.9  | 3.1  |
| 31      | 12/31/2019 14:52 | 3    | 3.6  | 2.9  |
| Peak    |                  | 10.5 | 24   | 11.2 |
| Min     |                  | 0.8  | 1.1  | 0.8  |
| Average |                  | 4.2  | 6.5  | 4.3  |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/31/2019 7:22  | 0                 | 0.8                |
| 2     | 12/31/2019 7:37  | 0.1               | 1.9                |
| 3     | 12/31/2019 7:52  | 0.1               | 3.5                |
| 4     | 12/31/2019 8:07  | 0.2               | 4.6                |
| 5     | 12/31/2019 8:22  | 0.3               | 6.2                |
| 6     | 12/31/2019 8:37  | 0.5               | 9.3                |
| 7     | 12/31/2019 8:52  | 0.7               | 12.8               |
| 8     | 12/31/2019 9:07  | 0.9               | 12.5               |
| 9     | 12/31/2019 9:22  | 1.1               | 12.6               |
| 10    | 12/31/2019 9:37  | 1.5               | 18.8               |
| 11    | 12/31/2019 9:52  | 1.7               | 19.7               |
| 12    | 12/31/2019 10:07 | 2                 | 16.9               |
| 13    | 12/31/2019 10:22 | 2.2               | 16.2               |

|    |                  |     |      |
|----|------------------|-----|------|
| 14 | 12/31/2019 10:37 | 2.4 | 13.6 |
| 15 | 12/31/2019 10:52 | 2.6 | 12.4 |
| 16 | 12/31/2019 11:07 | 2.8 | 11.6 |
| 17 | 12/31/2019 11:22 | 2.9 | 8.4  |
| 18 | 12/31/2019 11:37 | 3   | 6.1  |
| 19 | 12/31/2019 11:52 | 3.1 | 5.1  |
| 20 | 12/31/2019 12:07 | 3.1 | 4.4  |
| 21 | 12/31/2019 12:22 | 3.2 | 3.8  |
| 22 | 12/31/2019 12:37 | 3.2 | 3.5  |
| 23 | 12/31/2019 12:52 | 3.3 | 4.7  |
| 24 | 12/31/2019 13:07 | 3.4 | 6.4  |
| 25 | 12/31/2019 13:22 | 3.5 | 6.7  |
| 26 | 12/31/2019 13:37 | 3.6 | 7.1  |
| 27 | 12/31/2019 13:52 | 3.8 | 8.1  |
| 28 | 12/31/2019 14:07 | 3.9 | 8.1  |
| 29 | 12/31/2019 14:22 | 4   | 7.7  |
| 30 | 12/31/2019 14:37 | 4.1 | 7    |
| 31 | 12/31/2019 14:52 | 4.2 | 6    |

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20/01/02 07:00  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/2/2020 7:00  
End 1/2/2020 15:10  
Sample Per 900  
Number of 32  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 8  
Min 0.4  
Average 1.8

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Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/2/2020 7:15 | 0.4               | 1.2               | 0.4                |
| 2     | 1/2/2020 7:30 | 0.4               | 0.4               | 0.4                |
| 3     | 1/2/2020 7:45 | 0.5               | 1.1               | 1                  |
| 4     | 1/2/2020 8:00 | 1.2               | 2                 | 1.5                |
| 5     | 1/2/2020 8:15 | 1.9               | 2.9               | 2.7                |

|         |                |     |      |     |
|---------|----------------|-----|------|-----|
| 6       | 1/2/2020 8:30  | 2.8 | 3.6  | 2.9 |
| 7       | 1/2/2020 8:45  | 2.6 | 3.2  | 2.2 |
| 8       | 1/2/2020 9:00  | 1.9 | 2.9  | 1.4 |
| 9       | 1/2/2020 9:15  | 2.5 | 4.6  | 2.3 |
| 10      | 1/2/2020 9:30  | 3.9 | 8    | 8   |
| 11      | 1/2/2020 9:45  | 3.9 | 10.9 | 3.2 |
| 12      | 1/2/2020 10:00 | 3.2 | 11   | 3.7 |
| 13      | 1/2/2020 10:15 | 4.2 | 29   | 3.9 |
| 14      | 1/2/2020 10:30 | 3.8 | 8.8  | 3.7 |
| 15      | 1/2/2020 10:45 | 3   | 5.1  | 2.4 |
| 16      | 1/2/2020 11:00 | 2.4 | 3.1  | 1.7 |
| 17      | 1/2/2020 11:15 | 2   | 3.3  | 2   |
| 18      | 1/2/2020 11:30 | 1.7 | 2.2  | 1.3 |
| 19      | 1/2/2020 11:45 | 1.4 | 1.8  | 1.1 |
| 20      | 1/2/2020 12:00 | 1   | 1.3  | 1.1 |
| 21      | 1/2/2020 12:15 | 1   | 3.4  | 0.8 |
| 22      | 1/2/2020 12:30 | 0.9 | 1.1  | 1   |
| 23      | 1/2/2020 12:45 | 0.9 | 1    | 0.9 |
| 24      | 1/2/2020 13:00 | 0.8 | 1.2  | 0.7 |
| 25      | 1/2/2020 13:15 | 1   | 1.8  | 1   |
| 26      | 1/2/2020 13:30 | 0.8 | 2    | 0.6 |
| 27      | 1/2/2020 13:45 | 0.7 | 1.6  | 0.7 |
| 28      | 1/2/2020 14:00 | 0.7 | 1.7  | 0.6 |
| 29      | 1/2/2020 14:15 | 0.7 | 2    | 0.7 |
| 30      | 1/2/2020 14:30 | 0.7 | 1    | 0.7 |
| 31      | 1/2/2020 14:45 | 1.2 | 2    | 1.8 |
| 32      | 1/2/2020 15:00 | 1.4 | 1.9  | 1.1 |
| Peak    |                | 4.2 | 29   | 8   |
| Min     |                | 0.4 | 0.4  | 0.4 |
| Average |                | 1.7 | 4    | 1.8 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/2/2020 7:15  | 0                 | 0.4                |
| 2     | 1/2/2020 7:30  | 0                 | 0.8                |
| 3     | 1/2/2020 7:45  | 0.1               | 1.4                |
| 4     | 1/2/2020 8:00  | 0.1               | 2.5                |
| 5     | 1/2/2020 8:15  | 0.2               | 4.2                |
| 6     | 1/2/2020 8:30  | 0.3               | 5.6                |
| 7     | 1/2/2020 8:45  | 0.3               | 5.1                |
| 8     | 1/2/2020 9:00  | 0.4               | 3.6                |
| 9     | 1/2/2020 9:15  | 0.5               | 3.7                |
| 10    | 1/2/2020 9:30  | 0.7               | 10.3               |
| 11    | 1/2/2020 9:45  | 0.8               | 11.2               |
| 12    | 1/2/2020 10:00 | 0.9               | 6.9                |

|    |                |     |     |
|----|----------------|-----|-----|
| 13 | 1/2/2020 10:15 | 1.1 | 7.6 |
| 14 | 1/2/2020 10:30 | 1.2 | 7.6 |
| 15 | 1/2/2020 10:45 | 1.2 | 6.1 |
| 16 | 1/2/2020 11:00 | 1.3 | 4.1 |
| 17 | 1/2/2020 11:15 | 1.4 | 3.7 |
| 18 | 1/2/2020 11:30 | 1.4 | 3.3 |
| 19 | 1/2/2020 11:45 | 1.4 | 2.4 |
| 20 | 1/2/2020 12:00 | 1.5 | 2.2 |
| 21 | 1/2/2020 12:15 | 1.5 | 1.9 |
| 22 | 1/2/2020 12:30 | 1.5 | 1.8 |
| 23 | 1/2/2020 12:45 | 1.6 | 1.9 |
| 24 | 1/2/2020 13:00 | 1.6 | 1.6 |
| 25 | 1/2/2020 13:15 | 1.6 | 1.7 |
| 26 | 1/2/2020 13:30 | 1.6 | 1.6 |
| 27 | 1/2/2020 13:45 | 1.6 | 1.3 |
| 28 | 1/2/2020 14:00 | 1.7 | 1.3 |
| 29 | 1/2/2020 14:15 | 1.7 | 1.3 |
| 30 | 1/2/2020 14:30 | 1.7 | 1.4 |
| 31 | 1/2/2020 14:45 | 1.8 | 2.5 |
| 32 | 1/2/2020 15:00 | 1.8 | 2.9 |

=====  
20/01/03 07:06  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Pause in Menu Mode  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/3/2020 7:06  
End 1/3/2020 13:44  
Sample Per 900  
Number of 26  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 8.7  
Min 0.5  
Average 4.3

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Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/3/2020 7:21 | 0.5               | 1.1               | 0.5                |
| 2     | 1/3/2020 7:36 | 0.5               | 0.5               | 0.5                |
| 3     | 1/3/2020 7:51 | 0.5               | 0.6               | 0.6                |
| 4     | 1/3/2020 8:06 | 1.5               | 3.4               | 2.1                |
| 5     | 1/3/2020 8:21 | 3.2               | 4.8               | 2.9                |



|         |                |     |      |     |
|---------|----------------|-----|------|-----|
| 6       | 1/3/2020 8:36  | 3.2 | 4.9  | 2.8 |
| 7       | 1/3/2020 8:51  | 4.1 | 5.6  | 2.8 |
| 8       | 1/3/2020 9:06  | 3.2 | 4.6  | 3.9 |
| 9       | 1/3/2020 9:21  | 3.3 | 4    | 3   |
| 10      | 1/3/2020 9:36  | 2.9 | 3.2  | 3   |
| 11      | 1/3/2020 9:51  | 2.9 | 3.3  | 2.6 |
| 12      | 1/3/2020 10:06 | 3.5 | 5.2  | 3.2 |
| 13      | 1/3/2020 10:21 | 3.8 | 5.9  | 3.3 |
| 14      | 1/3/2020 10:36 | 4.3 | 5    | 4.5 |
| 15      | 1/3/2020 10:51 | 3.9 | 5.2  | 3.8 |
| 16      | 1/3/2020 11:06 | 3.2 | 3.9  | 2.7 |
| 17      | 1/3/2020 11:21 | 2.7 | 3    | 2.8 |
| 18      | 1/3/2020 11:36 | 3.7 | 5.2  | 5.1 |
| 19      | 1/3/2020 11:51 | 6.3 | 10.1 | 8.3 |
| 20      | 1/3/2020 12:06 | 7.9 | 9.4  | 7.9 |
| 21      | 1/3/2020 12:21 | 8.1 | 9.5  | 7.5 |
| 22      | 1/3/2020 12:36 | 7.8 | 8.7  | 7.7 |
| 23      | 1/3/2020 12:51 | 8.3 | 9.4  | 8.7 |
| 24      | 1/3/2020 13:06 | 7.5 | 8.7  | 6.9 |
| 25      | 1/3/2020 13:21 | 6.4 | 7.5  | 6.1 |
| 26      | 1/3/2020 13:36 | 6.3 | 7.5  | 7.5 |
| Peak    |                | 8.3 | 10.1 | 8.7 |
| Min     |                | 0.5 | 0.5  | 0.5 |
| Average |                | 4.2 | 5.4  | 4.3 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/3/2020 7:21  | 0                 | 0.5                |
| 2     | 1/3/2020 7:36  | 0                 | 1                  |
| 3     | 1/3/2020 7:51  | 0.1               | 1.1                |
| 4     | 1/3/2020 8:06  | 0.1               | 2.7                |
| 5     | 1/3/2020 8:21  | 0.2               | 5                  |
| 6     | 1/3/2020 8:36  | 0.3               | 5.7                |
| 7     | 1/3/2020 8:51  | 0.4               | 5.6                |
| 8     | 1/3/2020 9:06  | 0.5               | 6.7                |
| 9     | 1/3/2020 9:21  | 0.6               | 6.9                |
| 10    | 1/3/2020 9:36  | 0.7               | 6                  |
| 11    | 1/3/2020 9:51  | 0.8               | 5.6                |
| 12    | 1/3/2020 10:06 | 0.9               | 5.8                |
| 13    | 1/3/2020 10:21 | 1                 | 6.5                |
| 14    | 1/3/2020 10:36 | 1.1               | 7.8                |
| 15    | 1/3/2020 10:51 | 1.2               | 8.3                |
| 16    | 1/3/2020 11:06 | 1.3               | 6.5                |
| 17    | 1/3/2020 11:21 | 1.4               | 5.5                |
| 18    | 1/3/2020 11:36 | 1.6               | 7.9                |

|    |                |     |      |
|----|----------------|-----|------|
| 19 | 1/3/2020 11:51 | 1.8 | 13.4 |
| 20 | 1/3/2020 12:06 | 2.1 | 16.2 |
| 21 | 1/3/2020 12:21 | 2.3 | 15.4 |
| 22 | 1/3/2020 12:36 | 2.5 | 15.2 |
| 23 | 1/3/2020 12:51 | 2.8 | 16.4 |
| 24 | 1/3/2020 13:06 | 3   | 15.6 |
| 25 | 1/3/2020 13:21 | 3.2 | 13   |
| 26 | 1/3/2020 13:36 | 3.5 | 13.6 |

=====  
20/01/03 13:45  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/3/2020 13:45  
End 1/3/2020 15:00  
Sample Per 900  
Number of 5  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 6.9  
Min 2.7  
Average 5.3

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/3/2020 14:00 | 5.7               | 6.9               | 5.7                |
| 2     | 1/3/2020 14:15 | 6.1               | 7.2               | 6.9                |
| 3     | 1/3/2020 14:30 | 6.2               | 7                 | 6.4                |
| 4     | 1/3/2020 14:45 | 5.6               | 6.4               | 5                  |
| 5     | 1/3/2020 15:00 | 3.6               | 5.4               | 2.7                |

|         |     |     |     |
|---------|-----|-----|-----|
| Peak    | 6.2 | 7.2 | 6.9 |
| Min     | 3.6 | 5.4 | 2.7 |
| Average | 5.4 | 6.6 | 5.3 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/3/2020 14:00 | 0.2               | 5.7                |
| 2     | 1/3/2020 14:15 | 0.4               | 12.6               |
| 3     | 1/3/2020 14:30 | 0.6               | 13.3               |
| 4     | 1/3/2020 14:45 | 0.8               | 11.4               |
| 5     | 1/3/2020 15:00 | 0.8               | 7.7                |

=====  
20/01/06 07:03  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/6/2020 7:03  
End 1/6/2020 15:03  
Sample Per 900  
Number of 32  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 1.2  
Min 0  
Average 0.2

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Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/6/2020 7:18 | 0                 | 0                 | 0                  |
| 2     | 1/6/2020 7:33 | 0                 | 0                 | 0                  |
| 3     | 1/6/2020 7:48 | 0                 | 0                 | 0                  |
| 4     | 1/6/2020 8:03 | 0.7               | 1.9               | 1.1                |
| 5     | 1/6/2020 8:18 | 0.9               | 1.4               | 0.7                |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/6/2020 8:33  | 0.2 | 0.7 | 0   |
| 7       | 1/6/2020 8:48  | 0   | 0.3 | 0   |
| 8       | 1/6/2020 9:03  | 0   | 0   | 0   |
| 9       | 1/6/2020 9:18  | 0   | 0.2 | 0   |
| 10      | 1/6/2020 9:33  | 0.1 | 0.5 | 0.2 |
| 11      | 1/6/2020 9:48  | 0.3 | 0.5 | 0.1 |
| 12      | 1/6/2020 10:03 | 0   | 0.3 | 0   |
| 13      | 1/6/2020 10:18 | 0.1 | 0.4 | 0.1 |
| 14      | 1/6/2020 10:33 | 0.7 | 1.3 | 0.9 |
| 15      | 1/6/2020 10:48 | 1   | 1.7 | 1.2 |
| 16      | 1/6/2020 11:03 | 0.9 | 1.3 | 0.5 |
| 17      | 1/6/2020 11:18 | 0.4 | 0.5 | 0.2 |
| 18      | 1/6/2020 11:33 | 0.4 | 0.7 | 0.1 |
| 19      | 1/6/2020 11:48 | 0   | 0.2 | 0   |
| 20      | 1/6/2020 12:03 | 0   | 0   | 0   |
| 21      | 1/6/2020 12:18 | 0   | 0   | 0   |
| 22      | 1/6/2020 12:33 | 0.1 | 0.5 | 0.2 |
| 23      | 1/6/2020 12:48 | 0.1 | 0.5 | 0   |
| 24      | 1/6/2020 13:03 | 0   | 0   | 0   |
| 25      | 1/6/2020 13:18 | 0   | 0   | 0   |
| 26      | 1/6/2020 13:33 | 0   | 0   | 0   |
| 27      | 1/6/2020 13:48 | 0   | 0   | 0   |
| 28      | 1/6/2020 14:03 | 0   | 0   | 0   |
| 29      | 1/6/2020 14:18 | 0   | 0   | 0   |
| 30      | 1/6/2020 14:33 | 0   | 0   | 0   |
| 31      | 1/6/2020 14:48 | 0   | 0   | 0   |
| 32      | 1/6/2020 15:03 | 0   | 0   | 0   |
| Peak    |                | 1   | 1.9 | 1.2 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0.2 | 0.4 | 0.2 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/6/2020 7:18  | 0                 | 0                  |
| 2     | 1/6/2020 7:33  | 0                 | 0                  |
| 3     | 1/6/2020 7:48  | 0                 | 0                  |
| 4     | 1/6/2020 8:03  | 0                 | 1.1                |
| 5     | 1/6/2020 8:18  | 0.1               | 1.8                |
| 6     | 1/6/2020 8:33  | 0.1               | 0.7                |
| 7     | 1/6/2020 8:48  | 0.1               | 0                  |
| 8     | 1/6/2020 9:03  | 0.1               | 0                  |
| 9     | 1/6/2020 9:18  | 0.1               | 0                  |
| 10    | 1/6/2020 9:33  | 0.1               | 0.2                |
| 11    | 1/6/2020 9:48  | 0.1               | 0.3                |
| 12    | 1/6/2020 10:03 | 0.1               | 0.1                |



|    |                |     |     |
|----|----------------|-----|-----|
| 13 | 1/6/2020 10:18 | 0.1 | 0.1 |
| 14 | 1/6/2020 10:33 | 0.1 | 1   |
| 15 | 1/6/2020 10:48 | 0.1 | 2.1 |
| 16 | 1/6/2020 11:03 | 0.1 | 1.7 |
| 17 | 1/6/2020 11:18 | 0.2 | 0.7 |
| 18 | 1/6/2020 11:33 | 0.2 | 0.3 |
| 19 | 1/6/2020 11:48 | 0.2 | 0.1 |
| 20 | 1/6/2020 12:03 | 0.2 | 0   |
| 21 | 1/6/2020 12:18 | 0.2 | 0   |
| 22 | 1/6/2020 12:33 | 0.2 | 0.2 |
| 23 | 1/6/2020 12:48 | 0.2 | 0.2 |
| 24 | 1/6/2020 13:03 | 0.2 | 0   |
| 25 | 1/6/2020 13:18 | 0.2 | 0   |
| 26 | 1/6/2020 13:33 | 0.2 | 0   |
| 27 | 1/6/2020 13:48 | 0.2 | 0   |
| 28 | 1/6/2020 14:03 | 0.2 | 0   |
| 29 | 1/6/2020 14:18 | 0.2 | 0   |
| 30 | 1/6/2020 14:33 | 0.2 | 0   |
| 31 | 1/6/2020 14:48 | 0.2 | 0   |
| 32 | 1/6/2020 15:03 | 0.2 | 0   |

=====  
20/01/07 07:07

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# Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A  
-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down  
-----

Site ID 12345678

User ID 12345678  
-----

Begin 1/7/2020 7:07

End 1/7/2020 15:01

Sample Per 900

Number of 31  
-----

Sensor PID(ppm)

Sensor SN S023030130U6

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 14:06

Peak 3

Min 0

Average 0.8

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# Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/7/2020 7:22 | 0                 | 0                 | 0                  |
| 2     | 1/7/2020 7:37 | 0                 | 0                 | 0                  |
| 3     | 1/7/2020 7:52 | 1.5               | 3.1               | 3                  |
| 4     | 1/7/2020 8:07 | 2.5               | 4.1               | 2.5                |
| 5     | 1/7/2020 8:22 | 3.4               | 4.3               | 3                  |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/7/2020 8:37  | 2.4 | 3.1 | 2.4 |
| 7       | 1/7/2020 8:52  | 2   | 2.5 | 1.7 |
| 8       | 1/7/2020 9:07  | 1.5 | 1.8 | 1.2 |
| 9       | 1/7/2020 9:22  | 1.2 | 2   | 1.9 |
| 10      | 1/7/2020 9:37  | 2.3 | 3   | 2.1 |
| 11      | 1/7/2020 9:52  | 1.9 | 2.3 | 1.6 |
| 12      | 1/7/2020 10:07 | 1.1 | 1.7 | 0.6 |
| 13      | 1/7/2020 10:22 | 0.4 | 0.7 | 0.1 |
| 14      | 1/7/2020 10:37 | 0.4 | 0.7 | 0.4 |
| 15      | 1/7/2020 10:52 | 1.1 | 1.8 | 1.5 |
| 16      | 1/7/2020 11:07 | 1.1 | 1.5 | 0.8 |
| 17      | 1/7/2020 11:22 | 0.5 | 0.8 | 0.2 |
| 18      | 1/7/2020 11:37 | 0.1 | 0.4 | 0   |
| 19      | 1/7/2020 11:52 | 0   | 0.3 | 0   |
| 20      | 1/7/2020 12:07 | 0   | 0   | 0   |
| 21      | 1/7/2020 12:22 | 0.1 | 0.4 | 0.4 |
| 22      | 1/7/2020 12:37 | 0.7 | 1.1 | 0.6 |
| 23      | 1/7/2020 12:52 | 0.2 | 0.6 | 0   |
| 24      | 1/7/2020 13:07 | 0   | 0   | 0   |
| 25      | 1/7/2020 13:22 | 0   | 0   | 0   |
| 26      | 1/7/2020 13:37 | 0   | 0   | 0   |
| 27      | 1/7/2020 13:52 | 0   | 0.1 | 0   |
| 28      | 1/7/2020 14:07 | 0.7 | 1.2 | 0.7 |
| 29      | 1/7/2020 14:22 | 0.4 | 0.9 | 0.3 |
| 30      | 1/7/2020 14:37 | 0.1 | 0.4 | 0   |
| 31      | 1/7/2020 14:52 | 0   | 0   | 0   |
| Peak    |                | 3.4 | 4.3 | 3   |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0.8 | 1.3 | 0.8 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/7/2020 7:22  | 0                 | 0                  |
| 2     | 1/7/2020 7:37  | 0                 | 0                  |
| 3     | 1/7/2020 7:52  | 0.1               | 3                  |
| 4     | 1/7/2020 8:07  | 0.2               | 5.5                |
| 5     | 1/7/2020 8:22  | 0.3               | 5.5                |
| 6     | 1/7/2020 8:37  | 0.3               | 5.4                |
| 7     | 1/7/2020 8:52  | 0.4               | 4.1                |
| 8     | 1/7/2020 9:07  | 0.4               | 2.9                |
| 9     | 1/7/2020 9:22  | 0.5               | 3.1                |
| 10    | 1/7/2020 9:37  | 0.6               | 4                  |
| 11    | 1/7/2020 9:52  | 0.6               | 3.7                |
| 12    | 1/7/2020 10:07 | 0.6               | 2.2                |
| 13    | 1/7/2020 10:22 | 0.6               | 0.7                |

|    |                |     |     |
|----|----------------|-----|-----|
| 14 | 1/7/2020 10:37 | 0.6 | 0.5 |
| 15 | 1/7/2020 10:52 | 0.7 | 1.9 |
| 16 | 1/7/2020 11:07 | 0.7 | 2.3 |
| 17 | 1/7/2020 11:22 | 0.7 | 1   |
| 18 | 1/7/2020 11:37 | 0.7 | 0.2 |
| 19 | 1/7/2020 11:52 | 0.7 | 0   |
| 20 | 1/7/2020 12:07 | 0.7 | 0   |
| 21 | 1/7/2020 12:22 | 0.7 | 0.4 |
| 22 | 1/7/2020 12:37 | 0.8 | 1   |
| 23 | 1/7/2020 12:52 | 0.8 | 0.6 |
| 24 | 1/7/2020 13:07 | 0.8 | 0   |
| 25 | 1/7/2020 13:22 | 0.8 | 0   |
| 26 | 1/7/2020 13:37 | 0.8 | 0   |
| 27 | 1/7/2020 13:52 | 0.8 | 0   |
| 28 | 1/7/2020 14:07 | 0.8 | 0.7 |
| 29 | 1/7/2020 14:22 | 0.8 | 1   |
| 30 | 1/7/2020 14:37 | 0.8 | 0.3 |
| 31 | 1/7/2020 14:52 | 0.8 | 0   |

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20/01/08 07:02

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/8/2020 7:02

End 1/8/2020 14:49

Sample Per 900

Number of 31

-----

Sensor PID(ppm)

Sensor SN S023030130U6

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 14:06

Peak 0.1

Min 0

Average 0

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Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/8/2020 7:17 | 0                 | 0                 | 0                  |
| 2     | 1/8/2020 7:32 | 0                 | 0                 | 0                  |
| 3     | 1/8/2020 7:47 | 0                 | 0                 | 0                  |
| 4     | 1/8/2020 8:02 | 0                 | 0                 | 0                  |
| 5     | 1/8/2020 8:17 | 0                 | 0                 | 0                  |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/8/2020 8:32  | 0   | 0   | 0   |
| 7       | 1/8/2020 8:47  | 0   | 0   | 0   |
| 8       | 1/8/2020 9:02  | 0   | 0   | 0   |
| 9       | 1/8/2020 9:17  | 0   | 0   | 0   |
| 10      | 1/8/2020 9:32  | 0   | 0   | 0   |
| 11      | 1/8/2020 9:47  | 0   | 0   | 0   |
| 12      | 1/8/2020 10:02 | 0.1 | 0.6 | 0.1 |
| 13      | 1/8/2020 10:17 | 0   | 0.1 | 0   |
| 14      | 1/8/2020 10:32 | 0   | 0   | 0   |
| 15      | 1/8/2020 10:47 | 0   | 0   | 0   |
| 16      | 1/8/2020 11:02 | 0   | 0   | 0   |
| 17      | 1/8/2020 11:17 | 0   | 0   | 0   |
| 18      | 1/8/2020 11:32 | 0   | 0   | 0   |
| 19      | 1/8/2020 11:47 | 0   | 0   | 0   |
| 20      | 1/8/2020 12:02 | 0   | 0   | 0   |
| 21      | 1/8/2020 12:17 | 0   | 0   | 0   |
| 22      | 1/8/2020 12:32 | 0   | 0   | 0   |
| 23      | 1/8/2020 12:47 | 0   | 0   | 0   |
| 24      | 1/8/2020 13:02 | 0   | 0   | 0   |
| 25      | 1/8/2020 13:17 | 0   | 0   | 0   |
| 26      | 1/8/2020 13:32 | 0   | 0   | 0   |
| 27      | 1/8/2020 13:47 | 0   | 0   | 0   |
| 28      | 1/8/2020 14:02 | 0   | 0   | 0   |
| 29      | 1/8/2020 14:17 | 0   | 0   | 0   |
| 30      | 1/8/2020 14:32 | 0   | 0   | 0   |
| 31      | 1/8/2020 14:47 | 0   | 0   | 0   |
| Peak    |                | 0.1 | 0.6 | 0.1 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0   | 0   | 0   |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/8/2020 7:17  | 0                 | 0                  |
| 2     | 1/8/2020 7:32  | 0                 | 0                  |
| 3     | 1/8/2020 7:47  | 0                 | 0                  |
| 4     | 1/8/2020 8:02  | 0                 | 0                  |
| 5     | 1/8/2020 8:17  | 0                 | 0                  |
| 6     | 1/8/2020 8:32  | 0                 | 0                  |
| 7     | 1/8/2020 8:47  | 0                 | 0                  |
| 8     | 1/8/2020 9:02  | 0                 | 0                  |
| 9     | 1/8/2020 9:17  | 0                 | 0                  |
| 10    | 1/8/2020 9:32  | 0                 | 0                  |
| 11    | 1/8/2020 9:47  | 0                 | 0                  |
| 12    | 1/8/2020 10:02 | 0                 | 0.1                |
| 13    | 1/8/2020 10:17 | 0                 | 0.1                |



|    |                |   |   |
|----|----------------|---|---|
| 14 | 1/8/2020 10:32 | 0 | 0 |
| 15 | 1/8/2020 10:47 | 0 | 0 |
| 16 | 1/8/2020 11:02 | 0 | 0 |
| 17 | 1/8/2020 11:17 | 0 | 0 |
| 18 | 1/8/2020 11:32 | 0 | 0 |
| 19 | 1/8/2020 11:47 | 0 | 0 |
| 20 | 1/8/2020 12:02 | 0 | 0 |
| 21 | 1/8/2020 12:17 | 0 | 0 |
| 22 | 1/8/2020 12:32 | 0 | 0 |
| 23 | 1/8/2020 12:47 | 0 | 0 |
| 24 | 1/8/2020 13:02 | 0 | 0 |
| 25 | 1/8/2020 13:17 | 0 | 0 |
| 26 | 1/8/2020 13:32 | 0 | 0 |
| 27 | 1/8/2020 13:47 | 0 | 0 |
| 28 | 1/8/2020 14:02 | 0 | 0 |
| 29 | 1/8/2020 14:17 | 0 | 0 |
| 30 | 1/8/2020 14:32 | 0 | 0 |
| 31 | 1/8/2020 14:47 | 0 | 0 |

20/01/09 07:24

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## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

Site ID 12345678

User ID 12345678

Begin 1/9/2020 7:24

End 1/9/2020 13:58

Sample Per 900

Number of 26

Sensor PID(ppm)

Sensor SN S023030130U6

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 14:06

Peak 1.9

Min 0

Average 0.2

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## Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/9/2020 7:39 | 0                 | 0                 | 0                  |
| 2     | 1/9/2020 7:54 | 0                 | 0                 | 0                  |
| 3     | 1/9/2020 8:09 | 0                 | 0                 | 0                  |
| 4     | 1/9/2020 8:24 | 0                 | 0                 | 0                  |
| 5     | 1/9/2020 8:39 | 0                 | 1.6               | 1.6                |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/9/2020 8:54  | 1.6 | 2   | 1.9 |
| 7       | 1/9/2020 9:09  | 1.8 | 2.7 | 0.6 |
| 8       | 1/9/2020 9:24  | 0.2 | 0.6 | 0   |
| 9       | 1/9/2020 9:39  | 0.7 | 1.3 | 0.7 |
| 10      | 1/9/2020 9:54  | 0.2 | 0.7 | 0   |
| 11      | 1/9/2020 10:09 | 0   | 0   | 0   |
| 12      | 1/9/2020 10:24 | 0   | 0   | 0   |
| 13      | 1/9/2020 10:39 | 0   | 0   | 0   |
| 14      | 1/9/2020 10:54 | 0   | 0   | 0   |
| 15      | 1/9/2020 11:09 | 0   | 0   | 0   |
| 16      | 1/9/2020 11:24 | 0   | 0   | 0   |
| 17      | 1/9/2020 11:39 | 0   | 0   | 0   |
| 18      | 1/9/2020 11:54 | 0   | 0   | 0   |
| 19      | 1/9/2020 12:09 | 0   | 0   | 0   |
| 20      | 1/9/2020 12:24 | 0   | 0   | 0   |
| 21      | 1/9/2020 12:39 | 0   | 0   | 0   |
| 22      | 1/9/2020 12:54 | 0   | 0   | 0   |
| 23      | 1/9/2020 13:09 | 0   | 0   | 0   |
| 24      | 1/9/2020 13:24 | 0   | 0   | 0   |
| 25      | 1/9/2020 13:39 | 0   | 0   | 0   |
| 26      | 1/9/2020 13:54 | 0   | 0   | 0   |
| Peak    |                | 1.8 | 2.7 | 1.9 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0.2 | 0.3 | 0.2 |

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# TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/9/2020 7:39  | 0                 | 0                  |
| 2     | 1/9/2020 7:54  | 0                 | 0                  |
| 3     | 1/9/2020 8:09  | 0                 | 0                  |
| 4     | 1/9/2020 8:24  | 0                 | 0                  |
| 5     | 1/9/2020 8:39  | 0.1               | 1.6                |
| 6     | 1/9/2020 8:54  | 0.1               | 3.5                |
| 7     | 1/9/2020 9:09  | 0.1               | 2.5                |
| 8     | 1/9/2020 9:24  | 0.1               | 0.6                |
| 9     | 1/9/2020 9:39  | 0.1               | 0.7                |
| 10    | 1/9/2020 9:54  | 0.1               | 0.7                |
| 11    | 1/9/2020 10:09 | 0.1               | 0                  |
| 12    | 1/9/2020 10:24 | 0.1               | 0                  |
| 13    | 1/9/2020 10:39 | 0.1               | 0                  |
| 14    | 1/9/2020 10:54 | 0.1               | 0                  |
| 15    | 1/9/2020 11:09 | 0.1               | 0                  |
| 16    | 1/9/2020 11:24 | 0.1               | 0                  |
| 17    | 1/9/2020 11:39 | 0.1               | 0                  |
| 18    | 1/9/2020 11:54 | 0.1               | 0                  |

|    |                |     |   |
|----|----------------|-----|---|
| 19 | 1/9/2020 12:09 | 0.1 | 0 |
| 20 | 1/9/2020 12:24 | 0.1 | 0 |
| 21 | 1/9/2020 12:39 | 0.1 | 0 |
| 22 | 1/9/2020 12:54 | 0.1 | 0 |
| 23 | 1/9/2020 13:09 | 0.1 | 0 |
| 24 | 1/9/2020 13:24 | 0.1 | 0 |
| 25 | 1/9/2020 13:39 | 0.1 | 0 |
| 26 | 1/9/2020 13:54 | 0.1 | 0 |

=====  
20/01/10 07:15  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/10/2020 7:15  
End 1/10/2020 14:58  
Sample Per 900  
Number of 30  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 0  
Min 0  
Average 0

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/10/2020 7:30 | 0                 | 0                 | 0                  |
| 2     | 1/10/2020 7:45 | 0                 | 0                 | 0                  |
| 3     | 1/10/2020 8:00 | 0                 | 0                 | 0                  |
| 4     | 1/10/2020 8:15 | 0                 | 0                 | 0                  |
| 5     | 1/10/2020 8:30 | 0                 | 0                 | 0                  |

|         |                 |   |   |   |
|---------|-----------------|---|---|---|
| 6       | 1/10/2020 8:45  | 0 | 0 | 0 |
| 7       | 1/10/2020 9:00  | 0 | 0 | 0 |
| 8       | 1/10/2020 9:15  | 0 | 0 | 0 |
| 9       | 1/10/2020 9:30  | 0 | 0 | 0 |
| 10      | 1/10/2020 9:45  | 0 | 0 | 0 |
| 11      | 1/10/2020 10:00 | 0 | 0 | 0 |
| 12      | 1/10/2020 10:15 | 0 | 0 | 0 |
| 13      | 1/10/2020 10:30 | 0 | 0 | 0 |
| 14      | 1/10/2020 10:45 | 0 | 0 | 0 |
| 15      | 1/10/2020 11:00 | 0 | 0 | 0 |
| 16      | 1/10/2020 11:15 | 0 | 0 | 0 |
| 17      | 1/10/2020 11:30 | 0 | 0 | 0 |
| 18      | 1/10/2020 11:45 | 0 | 0 | 0 |
| 19      | 1/10/2020 12:00 | 0 | 0 | 0 |
| 20      | 1/10/2020 12:15 | 0 | 0 | 0 |
| 21      | 1/10/2020 12:30 | 0 | 0 | 0 |
| 22      | 1/10/2020 12:45 | 0 | 0 | 0 |
| 23      | 1/10/2020 13:00 | 0 | 0 | 0 |
| 24      | 1/10/2020 13:15 | 0 | 0 | 0 |
| 25      | 1/10/2020 13:30 | 0 | 0 | 0 |
| 26      | 1/10/2020 13:45 | 0 | 0 | 0 |
| 27      | 1/10/2020 14:00 | 0 | 0 | 0 |
| 28      | 1/10/2020 14:15 | 0 | 0 | 0 |
| 29      | 1/10/2020 14:30 | 0 | 0 | 0 |
| 30      | 1/10/2020 14:45 | 0 | 0 | 0 |
| Peak    |                 | 0 | 0 | 0 |
| Min     |                 | 0 | 0 | 0 |
| Average |                 | 0 | 0 | 0 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/10/2020 7:30  | 0                 | 0                  |
| 2     | 1/10/2020 7:45  | 0                 | 0                  |
| 3     | 1/10/2020 8:00  | 0                 | 0                  |
| 4     | 1/10/2020 8:15  | 0                 | 0                  |
| 5     | 1/10/2020 8:30  | 0                 | 0                  |
| 6     | 1/10/2020 8:45  | 0                 | 0                  |
| 7     | 1/10/2020 9:00  | 0                 | 0                  |
| 8     | 1/10/2020 9:15  | 0                 | 0                  |
| 9     | 1/10/2020 9:30  | 0                 | 0                  |
| 10    | 1/10/2020 9:45  | 0                 | 0                  |
| 11    | 1/10/2020 10:00 | 0                 | 0                  |
| 12    | 1/10/2020 10:15 | 0                 | 0                  |
| 13    | 1/10/2020 10:30 | 0                 | 0                  |
| 14    | 1/10/2020 10:45 | 0                 | 0                  |



|    |                 |   |   |
|----|-----------------|---|---|
| 15 | 1/10/2020 11:00 | 0 | 0 |
| 16 | 1/10/2020 11:15 | 0 | 0 |
| 17 | 1/10/2020 11:30 | 0 | 0 |
| 18 | 1/10/2020 11:45 | 0 | 0 |
| 19 | 1/10/2020 12:00 | 0 | 0 |
| 20 | 1/10/2020 12:15 | 0 | 0 |
| 21 | 1/10/2020 12:30 | 0 | 0 |
| 22 | 1/10/2020 12:45 | 0 | 0 |
| 23 | 1/10/2020 13:00 | 0 | 0 |
| 24 | 1/10/2020 13:15 | 0 | 0 |
| 25 | 1/10/2020 13:30 | 0 | 0 |
| 26 | 1/10/2020 13:45 | 0 | 0 |
| 27 | 1/10/2020 14:00 | 0 | 0 |
| 28 | 1/10/2020 14:15 | 0 | 0 |
| 29 | 1/10/2020 14:30 | 0 | 0 |
| 30 | 1/10/2020 14:45 | 0 | 0 |

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20/01/13 07:07

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/13/2020 7:07

End 1/13/2020 15:09

Sample Per 900

Number of 32

-----

Sensor PID(ppm)

Sensor SN S023030130U6

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 14:06

Peak 0

Min 0

Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/13/2020 7:22 | 0                 | 0                 | 0                  |
| 2     | 1/13/2020 7:37 | 0                 | 0                 | 0                  |
| 3     | 1/13/2020 7:52 | 0                 | 0                 | 0                  |
| 4     | 1/13/2020 8:07 | 0                 | 0                 | 0                  |
| 5     | 1/13/2020 8:22 | 0                 | 0                 | 0                  |

|         |                 |   |   |   |
|---------|-----------------|---|---|---|
| 6       | 1/13/2020 8:37  | 0 | 0 | 0 |
| 7       | 1/13/2020 8:52  | 0 | 0 | 0 |
| 8       | 1/13/2020 9:07  | 0 | 0 | 0 |
| 9       | 1/13/2020 9:22  | 0 | 0 | 0 |
| 10      | 1/13/2020 9:37  | 0 | 0 | 0 |
| 11      | 1/13/2020 9:52  | 0 | 0 | 0 |
| 12      | 1/13/2020 10:07 | 0 | 0 | 0 |
| 13      | 1/13/2020 10:22 | 0 | 0 | 0 |
| 14      | 1/13/2020 10:37 | 0 | 0 | 0 |
| 15      | 1/13/2020 10:52 | 0 | 0 | 0 |
| 16      | 1/13/2020 11:07 | 0 | 0 | 0 |
| 17      | 1/13/2020 11:22 | 0 | 0 | 0 |
| 18      | 1/13/2020 11:37 | 0 | 0 | 0 |
| 19      | 1/13/2020 11:52 | 0 | 0 | 0 |
| 20      | 1/13/2020 12:07 | 0 | 0 | 0 |
| 21      | 1/13/2020 12:22 | 0 | 0 | 0 |
| 22      | 1/13/2020 12:37 | 0 | 0 | 0 |
| 23      | 1/13/2020 12:52 | 0 | 0 | 0 |
| 24      | 1/13/2020 13:07 | 0 | 0 | 0 |
| 25      | 1/13/2020 13:22 | 0 | 0 | 0 |
| 26      | 1/13/2020 13:37 | 0 | 0 | 0 |
| 27      | 1/13/2020 13:52 | 0 | 0 | 0 |
| 28      | 1/13/2020 14:07 | 0 | 0 | 0 |
| 29      | 1/13/2020 14:22 | 0 | 0 | 0 |
| 30      | 1/13/2020 14:37 | 0 | 0 | 0 |
| 31      | 1/13/2020 14:52 | 0 | 0 | 0 |
| 32      | 1/13/2020 15:07 | 0 | 0 | 0 |
| Peak    |                 | 0 | 0 | 0 |
| Min     |                 | 0 | 0 | 0 |
| Average |                 | 0 | 0 | 0 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/13/2020 7:22  | 0                 | 0                  |
| 2     | 1/13/2020 7:37  | 0                 | 0                  |
| 3     | 1/13/2020 7:52  | 0                 | 0                  |
| 4     | 1/13/2020 8:07  | 0                 | 0                  |
| 5     | 1/13/2020 8:22  | 0                 | 0                  |
| 6     | 1/13/2020 8:37  | 0                 | 0                  |
| 7     | 1/13/2020 8:52  | 0                 | 0                  |
| 8     | 1/13/2020 9:07  | 0                 | 0                  |
| 9     | 1/13/2020 9:22  | 0                 | 0                  |
| 10    | 1/13/2020 9:37  | 0                 | 0                  |
| 11    | 1/13/2020 9:52  | 0                 | 0                  |
| 12    | 1/13/2020 10:07 | 0                 | 0                  |

|    |                 |   |   |
|----|-----------------|---|---|
| 13 | 1/13/2020 10:22 | 0 | 0 |
| 14 | 1/13/2020 10:37 | 0 | 0 |
| 15 | 1/13/2020 10:52 | 0 | 0 |
| 16 | 1/13/2020 11:07 | 0 | 0 |
| 17 | 1/13/2020 11:22 | 0 | 0 |
| 18 | 1/13/2020 11:37 | 0 | 0 |
| 19 | 1/13/2020 11:52 | 0 | 0 |
| 20 | 1/13/2020 12:07 | 0 | 0 |
| 21 | 1/13/2020 12:22 | 0 | 0 |
| 22 | 1/13/2020 12:37 | 0 | 0 |
| 23 | 1/13/2020 12:52 | 0 | 0 |
| 24 | 1/13/2020 13:07 | 0 | 0 |
| 25 | 1/13/2020 13:22 | 0 | 0 |
| 26 | 1/13/2020 13:37 | 0 | 0 |
| 27 | 1/13/2020 13:52 | 0 | 0 |
| 28 | 1/13/2020 14:07 | 0 | 0 |
| 29 | 1/13/2020 14:22 | 0 | 0 |
| 30 | 1/13/2020 14:37 | 0 | 0 |
| 31 | 1/13/2020 14:52 | 0 | 0 |
| 32 | 1/13/2020 15:07 | 0 | 0 |

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20/01/14 07:06

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-907676

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Battery Low

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/14/2020 7:06

End 1/14/2020 14:46

Sample Per 900

Number of 30

-----

Sensor PID(ppm)

Sensor SN S023030130U6

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 14:06

Peak 1.2

Min 0

Average 0

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/14/2020 7:21 | 0                 | 0                 | 0                  |
| 2     | 1/14/2020 7:36 | 0                 | 0                 | 0                  |
| 3     | 1/14/2020 7:51 | 0                 | 0                 | 0                  |
| 4     | 1/14/2020 8:06 | 0                 | 0                 | 0                  |
| 5     | 1/14/2020 8:21 | 0                 | 0                 | 0                  |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 6       | 1/14/2020 8:36  | 0   | 0   | 0   |
| 7       | 1/14/2020 8:51  | 0   | 0   | 0   |
| 8       | 1/14/2020 9:06  | 0   | 0   | 0   |
| 9       | 1/14/2020 9:21  | 0   | 0   | 0   |
| 10      | 1/14/2020 9:36  | 0   | 0   | 0   |
| 11      | 1/14/2020 9:51  | 0   | 0   | 0   |
| 12      | 1/14/2020 10:06 | 0   | 0   | 0   |
| 13      | 1/14/2020 10:21 | 0   | 0   | 0   |
| 14      | 1/14/2020 10:36 | 0   | 0   | 0   |
| 15      | 1/14/2020 10:51 | 0   | 0   | 0   |
| 16      | 1/14/2020 11:06 | 0   | 0   | 0   |
| 17      | 1/14/2020 11:21 | 0.9 | 4.8 | 1.2 |
| 18      | 1/14/2020 11:36 | 0.3 | 1.1 | 0   |
| 19      | 1/14/2020 11:51 | 0   | 0   | 0   |
| 20      | 1/14/2020 12:06 | 0   | 0   | 0   |
| 21      | 1/14/2020 12:21 | 0   | 0   | 0   |
| 22      | 1/14/2020 12:36 | 0   | 0   | 0   |
| 23      | 1/14/2020 12:51 | 0   | 0   | 0   |
| 24      | 1/14/2020 13:06 | 0   | 0   | 0   |
| 25      | 1/14/2020 13:21 | 0   | 0   | 0   |
| 26      | 1/14/2020 13:36 | 0   | 0   | 0   |
| 27      | 1/14/2020 13:51 | 0   | 0   | 0   |
| 28      | 1/14/2020 14:06 | 0   | 0   | 0   |
| 29      | 1/14/2020 14:21 | 0   | 0   | 0   |
| 30      | 1/14/2020 14:36 | 0   | 0   | 0   |
| Peak    |                 | 0.9 | 4.8 | 1.2 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0   | 0.2 | 0   |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/14/2020 7:21  | 0                 | 0                  |
| 2     | 1/14/2020 7:36  | 0                 | 0                  |
| 3     | 1/14/2020 7:51  | 0                 | 0                  |
| 4     | 1/14/2020 8:06  | 0                 | 0                  |
| 5     | 1/14/2020 8:21  | 0                 | 0                  |
| 6     | 1/14/2020 8:36  | 0                 | 0                  |
| 7     | 1/14/2020 8:51  | 0                 | 0                  |
| 8     | 1/14/2020 9:06  | 0                 | 0                  |
| 9     | 1/14/2020 9:21  | 0                 | 0                  |
| 10    | 1/14/2020 9:36  | 0                 | 0                  |
| 11    | 1/14/2020 9:51  | 0                 | 0                  |
| 12    | 1/14/2020 10:06 | 0                 | 0                  |
| 13    | 1/14/2020 10:21 | 0                 | 0                  |
| 14    | 1/14/2020 10:36 | 0                 | 0                  |



|    |                 |   |     |
|----|-----------------|---|-----|
| 15 | 1/14/2020 10:51 | 0 | 0   |
| 16 | 1/14/2020 11:06 | 0 | 0   |
| 17 | 1/14/2020 11:21 | 0 | 1.2 |
| 18 | 1/14/2020 11:36 | 0 | 1.2 |
| 19 | 1/14/2020 11:51 | 0 | 0   |
| 20 | 1/14/2020 12:06 | 0 | 0   |
| 21 | 1/14/2020 12:21 | 0 | 0   |
| 22 | 1/14/2020 12:36 | 0 | 0   |
| 23 | 1/14/2020 12:51 | 0 | 0   |
| 24 | 1/14/2020 13:06 | 0 | 0   |
| 25 | 1/14/2020 13:21 | 0 | 0   |
| 26 | 1/14/2020 13:36 | 0 | 0   |
| 27 | 1/14/2020 13:51 | 0 | 0   |
| 28 | 1/14/2020 14:06 | 0 | 0   |
| 29 | 1/14/2020 14:21 | 0 | 0   |
| 30 | 1/14/2020 14:36 | 0 | 0   |

=====  
20/01/15 07:09  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/15/2020 7:09  
End 1/15/2020 14:59  
Sample Per 900  
Number of 31  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 2.7  
Min 0  
Average 0.4

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/15/2020 7:24 | 0                 | 0                 | 0                  |
| 2     | 1/15/2020 7:39 | 0                 | 0                 | 0                  |
| 3     | 1/15/2020 7:54 | 0                 | 0                 | 0                  |
| 4     | 1/15/2020 8:09 | 0                 | 0                 | 0                  |
| 5     | 1/15/2020 8:24 | 0                 | 0                 | 0                  |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 6       | 1/15/2020 8:39  | 0   | 0   | 0   |
| 7       | 1/15/2020 8:54  | 0   | 0   | 0   |
| 8       | 1/15/2020 9:09  | 0   | 0   | 0   |
| 9       | 1/15/2020 9:24  | 0   | 0   | 0   |
| 10      | 1/15/2020 9:39  | 0   | 0   | 0   |
| 11      | 1/15/2020 9:54  | 0   | 0   | 0   |
| 12      | 1/15/2020 10:09 | 0   | 0   | 0   |
| 13      | 1/15/2020 10:24 | 0   | 0   | 0   |
| 14      | 1/15/2020 10:39 | 0   | 0.1 | 0   |
| 15      | 1/15/2020 10:54 | 0   | 0   | 0   |
| 16      | 1/15/2020 11:09 | 0   | 0   | 0   |
| 17      | 1/15/2020 11:24 | 0.5 | 1.9 | 1   |
| 18      | 1/15/2020 11:39 | 0.8 | 2.9 | 0.5 |
| 19      | 1/15/2020 11:54 | 0.2 | 1.1 | 0.3 |
| 20      | 1/15/2020 12:09 | 1.2 | 1.9 | 0.7 |
| 21      | 1/15/2020 12:24 | 0.4 | 0.8 | 0.1 |
| 22      | 1/15/2020 12:39 | 0   | 0.1 | 0   |
| 23      | 1/15/2020 12:54 | 0   | 0   | 0   |
| 24      | 1/15/2020 13:09 | 0   | 0   | 0   |
| 25      | 1/15/2020 13:24 | 0.6 | 5.4 | 1.1 |
| 26      | 1/15/2020 13:39 | 1.3 | 2.6 | 1.8 |
| 27      | 1/15/2020 13:54 | 1.4 | 2.2 | 1.3 |
| 28      | 1/15/2020 14:09 | 2.5 | 4.1 | 2.7 |
| 29      | 1/15/2020 14:24 | 2.1 | 3.6 | 1.7 |
| 30      | 1/15/2020 14:39 | 1.4 | 3.5 | 0.7 |
| 31      | 1/15/2020 14:54 | 0.6 | 1.4 | 1.1 |
| Peak    |                 | 2.5 | 5.4 | 2.7 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0.4 | 1   | 0.4 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/15/2020 7:24  | 0                 | 0                  |
| 2     | 1/15/2020 7:39  | 0                 | 0                  |
| 3     | 1/15/2020 7:54  | 0                 | 0                  |
| 4     | 1/15/2020 8:09  | 0                 | 0                  |
| 5     | 1/15/2020 8:24  | 0                 | 0                  |
| 6     | 1/15/2020 8:39  | 0                 | 0                  |
| 7     | 1/15/2020 8:54  | 0                 | 0                  |
| 8     | 1/15/2020 9:09  | 0                 | 0                  |
| 9     | 1/15/2020 9:24  | 0                 | 0                  |
| 10    | 1/15/2020 9:39  | 0                 | 0                  |
| 11    | 1/15/2020 9:54  | 0                 | 0                  |
| 12    | 1/15/2020 10:09 | 0                 | 0                  |
| 13    | 1/15/2020 10:24 | 0                 | 0                  |

|    |                 |     |     |
|----|-----------------|-----|-----|
| 14 | 1/15/2020 10:39 | 0   | 0   |
| 15 | 1/15/2020 10:54 | 0   | 0   |
| 16 | 1/15/2020 11:09 | 0   | 0   |
| 17 | 1/15/2020 11:24 | 0   | 1   |
| 18 | 1/15/2020 11:39 | 0   | 1.5 |
| 19 | 1/15/2020 11:54 | 0.1 | 0.8 |
| 20 | 1/15/2020 12:09 | 0.1 | 1   |
| 21 | 1/15/2020 12:24 | 0.1 | 0.8 |
| 22 | 1/15/2020 12:39 | 0.1 | 0.1 |
| 23 | 1/15/2020 12:54 | 0.1 | 0   |
| 24 | 1/15/2020 13:09 | 0.1 | 0   |
| 25 | 1/15/2020 13:24 | 0.1 | 1.1 |
| 26 | 1/15/2020 13:39 | 0.2 | 2.9 |
| 27 | 1/15/2020 13:54 | 0.2 | 3.1 |
| 28 | 1/15/2020 14:09 | 0.3 | 4   |
| 29 | 1/15/2020 14:24 | 0.3 | 4.4 |
| 30 | 1/15/2020 14:39 | 0.4 | 2.4 |
| 31 | 1/15/2020 14:54 | 0.4 | 1.8 |

=====  
20/01/16 07:07  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/16/2020 7:07  
End 1/16/2020 14:41  
Sample Per 900  
Number of 30  
-----

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 12/27/2019 14:06  
Peak 0  
Min 0  
Average 0

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/16/2020 7:22 | 0                 | 0                 | 0                  |
| 2     | 1/16/2020 7:37 | 0                 | 0                 | 0                  |
| 3     | 1/16/2020 7:52 | 0                 | 0                 | 0                  |
| 4     | 1/16/2020 8:07 | 0                 | 0                 | 0                  |
| 5     | 1/16/2020 8:22 | 0                 | 0                 | 0                  |

|         |                 |   |   |   |
|---------|-----------------|---|---|---|
| 6       | 1/16/2020 8:37  | 0 | 0 | 0 |
| 7       | 1/16/2020 8:52  | 0 | 0 | 0 |
| 8       | 1/16/2020 9:07  | 0 | 0 | 0 |
| 9       | 1/16/2020 9:22  | 0 | 0 | 0 |
| 10      | 1/16/2020 9:37  | 0 | 0 | 0 |
| 11      | 1/16/2020 9:52  | 0 | 0 | 0 |
| 12      | 1/16/2020 10:07 | 0 | 0 | 0 |
| 13      | 1/16/2020 10:22 | 0 | 0 | 0 |
| 14      | 1/16/2020 10:37 | 0 | 0 | 0 |
| 15      | 1/16/2020 10:52 | 0 | 0 | 0 |
| 16      | 1/16/2020 11:07 | 0 | 0 | 0 |
| 17      | 1/16/2020 11:22 | 0 | 0 | 0 |
| 18      | 1/16/2020 11:37 | 0 | 0 | 0 |
| 19      | 1/16/2020 11:52 | 0 | 0 | 0 |
| 20      | 1/16/2020 12:07 | 0 | 0 | 0 |
| 21      | 1/16/2020 12:22 | 0 | 0 | 0 |
| 22      | 1/16/2020 12:37 | 0 | 0 | 0 |
| 23      | 1/16/2020 12:52 | 0 | 0 | 0 |
| 24      | 1/16/2020 13:07 | 0 | 0 | 0 |
| 25      | 1/16/2020 13:22 | 0 | 0 | 0 |
| 26      | 1/16/2020 13:37 | 0 | 0 | 0 |
| 27      | 1/16/2020 13:52 | 0 | 0 | 0 |
| 28      | 1/16/2020 14:07 | 0 | 0 | 0 |
| 29      | 1/16/2020 14:22 | 0 | 0 | 0 |
| 30      | 1/16/2020 14:37 | 0 | 0 | 0 |
| Peak    |                 | 0 | 0 | 0 |
| Min     |                 | 0 | 0 | 0 |
| Average |                 | 0 | 0 | 0 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/16/2020 7:22  | 0                 | 0                  |
| 2     | 1/16/2020 7:37  | 0                 | 0                  |
| 3     | 1/16/2020 7:52  | 0                 | 0                  |
| 4     | 1/16/2020 8:07  | 0                 | 0                  |
| 5     | 1/16/2020 8:22  | 0                 | 0                  |
| 6     | 1/16/2020 8:37  | 0                 | 0                  |
| 7     | 1/16/2020 8:52  | 0                 | 0                  |
| 8     | 1/16/2020 9:07  | 0                 | 0                  |
| 9     | 1/16/2020 9:22  | 0                 | 0                  |
| 10    | 1/16/2020 9:37  | 0                 | 0                  |
| 11    | 1/16/2020 9:52  | 0                 | 0                  |
| 12    | 1/16/2020 10:07 | 0                 | 0                  |
| 13    | 1/16/2020 10:22 | 0                 | 0                  |
| 14    | 1/16/2020 10:37 | 0                 | 0                  |



**Outdoor Upwind CAMP Data  
(UST Decommissioning, Parking Lot Box-  
Out, Sanitary Sewer Lateral  
Installation)**

|                      |             |
|----------------------|-------------|
| Instrument Name      | DustTrak II |
| Model Number         | 8530        |
| Serial Number        | 8530133815  |
| Firmware Version     | 3.6         |
| Calibration Date     | 9/28/2017   |
| Test Name            | MANUAL_044  |
| Test Start Time      | 11:55:09 AM |
| Test Start Date      | 11/13/2019  |
| Test Length [D:H:M]  | 0:05:15     |
| Test Interval [M:S]  | 15:00       |
| Mass Average [mg/m3] | 0.008       |
| Mass Minimum [mg/m3] | 0.006       |
| Mass Maximum [mg/m3] | 0.011       |
| Mass TWA [mg/m3]     | 0.005       |
| Photometric User Cal | 1           |
| Flow User Cal        | 0           |
| Errors               |             |
| Number of Samples    | 21          |

| Elapsed Time [s] | Mass [mg/m3] | Alarms | Errors |
|------------------|--------------|--------|--------|
| 900              | 0.009        |        |        |
| 1800             | 0.006        |        |        |
| 2700             | 0.006        |        |        |
| 3600             | 0.006        |        |        |
| 4500             | 0.006        |        |        |
| 5400             | 0.007        |        |        |
| 6300             | 0.007        |        |        |
| 7200             | 0.006        |        |        |
| 8100             | 0.006        |        |        |
| 9000             | 0.007        |        |        |
| 9900             | 0.006        |        |        |
| 10800            | 0.007        |        |        |
| 11700            | 0.008        |        |        |
| 12600            | 0.008        |        |        |
| 13500            | 0.009        |        |        |
| 14400            | 0.009        |        |        |
| 15300            | 0.009        |        |        |
| 16200            | 0.009        |        |        |
| 17100            | 0.01         |        |        |
| 18000            | 0.009        |        |        |
| 18900            | 0.011        |        |        |

# Test 001

| Instrument     |             | Data Properties |            |
|----------------|-------------|-----------------|------------|
| Model          | DustTrak II | Start Date      | 12/30/2019 |
| Instrument S/N | 8530142609  | Start Time      | 11:20:44   |
|                |             | Stop Date       | 12/30/2019 |
|                |             | Stop Time       | 11:35:44   |
|                |             | Total Time      | 0:00:15:00 |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.007 mg/m <sup>3</sup> |
| Max            | 0.007 mg/m <sup>3</sup> |
| Max Date       | 12/30/2019              |
| Max Time       | 11:35:44                |
| Min            | 0.007 mg/m <sup>3</sup> |
| Min Date       | 12/30/2019              |
| Min Time       | 11:35:44                |
| TWA (8 hr)     | 0.000                   |
| TWA Start Date | 12/30/2019              |
| TWA Start Time | 11:20:44                |
| TWA End Time   | 11:35:44                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/30/2019 | 11:35:44 | 0.007                     |

# Test 001

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/08/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:54:26    |
|                |             | Stop Date        | 01/08/2020  |
|                |             | Stop Time        | 14:39:26    |
|                |             | Total Time       | 0:06:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.010 mg/m <sup>3</sup> |
| Max            | 0.021 mg/m <sup>3</sup> |
| Max Date       | 01/08/2020              |
| Max Time       | 08:09:26                |
| Min            | 0.006 mg/m <sup>3</sup> |
| Min Date       | 01/08/2020              |
| Min Time       | 11:09:26                |
| TWA (8 hr)     | 0.009                   |
| TWA Start Date | 01/08/2020              |
| TWA Start Time | 07:54:26                |
| TWA End Time   | 14:39:26                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/08/2020 | 08:09:26 | 0.021                     |
| 2          | 01/08/2020 | 08:24:26 | 0.019                     |
| 3          | 01/08/2020 | 08:39:26 | 0.018                     |
| 4          | 01/08/2020 | 08:54:26 | 0.011                     |
| 5          | 01/08/2020 | 09:09:26 | 0.010                     |
| 6          | 01/08/2020 | 09:24:26 | 0.015                     |
| 7          | 01/08/2020 | 09:39:26 | 0.014                     |
| 8          | 01/08/2020 | 09:54:26 | 0.010                     |
| 9          | 01/08/2020 | 10:09:26 | 0.010                     |
| 10         | 01/08/2020 | 10:24:26 | 0.008                     |
| 11         | 01/08/2020 | 10:39:26 | 0.007                     |
| 12         | 01/08/2020 | 10:54:26 | 0.007                     |
| 13         | 01/08/2020 | 11:09:26 | 0.006                     |
| 14         | 01/08/2020 | 11:24:26 | 0.007                     |
| 15         | 01/08/2020 | 11:39:26 | 0.009                     |
| 16         | 01/08/2020 | 11:54:26 | 0.012                     |
| 17         | 01/08/2020 | 12:09:26 | 0.012                     |
| 18         | 01/08/2020 | 12:24:26 | 0.011                     |
| 19         | 01/08/2020 | 12:39:26 | 0.009                     |
| 20         | 01/08/2020 | 12:54:26 | 0.007                     |
| 21         | 01/08/2020 | 13:09:26 | 0.007                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/08/2020 | 13:24:26 | 0.009          |
| 23         | 01/08/2020 | 13:39:26 | 0.007          |
| 24         | 01/08/2020 | 13:54:26 | 0.009          |
| 25         | 01/08/2020 | 14:09:26 | 0.007          |
| 26         | 01/08/2020 | 14:24:26 | 0.012          |
| 27         | 01/08/2020 | 14:39:26 | 0.008          |

# Test 002

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/09/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:15:49    |
|                |             | Stop Date        | 01/09/2020  |
|                |             | Stop Time        | 14:30:49    |
|                |             | Total Time       | 0:07:15:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.010 mg/m <sup>3</sup> |
| Max            | 0.014 mg/m <sup>3</sup> |
| Max Date       | 01/09/2020              |
| Max Time       | 09:15:49                |
| Min            | 0.006 mg/m <sup>3</sup> |
| Min Date       | 01/09/2020              |
| Min Time       | 07:45:49                |
| TWA (8 hr)     | 0.009                   |
| TWA Start Date | 01/09/2020              |
| TWA Start Time | 07:15:49                |
| TWA End Time   | 14:30:49                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/09/2020 | 07:30:49 | 0.010                     |
| 2          | 01/09/2020 | 07:45:49 | 0.006                     |
| 3          | 01/09/2020 | 08:00:49 | 0.011                     |
| 4          | 01/09/2020 | 08:15:49 | 0.011                     |
| 5          | 01/09/2020 | 08:30:49 | 0.012                     |
| 6          | 01/09/2020 | 08:45:49 | 0.013                     |
| 7          | 01/09/2020 | 09:00:49 | 0.012                     |
| 8          | 01/09/2020 | 09:15:49 | 0.014                     |
| 9          | 01/09/2020 | 09:30:49 | 0.012                     |
| 10         | 01/09/2020 | 09:45:49 | 0.012                     |
| 11         | 01/09/2020 | 10:00:49 | 0.008                     |
| 12         | 01/09/2020 | 10:15:49 | 0.007                     |
| 13         | 01/09/2020 | 10:30:49 | 0.009                     |
| 14         | 01/09/2020 | 10:45:49 | 0.007                     |
| 15         | 01/09/2020 | 11:00:49 | 0.007                     |
| 16         | 01/09/2020 | 11:15:49 | 0.007                     |
| 17         | 01/09/2020 | 11:30:49 | 0.007                     |
| 18         | 01/09/2020 | 11:45:49 | 0.008                     |
| 19         | 01/09/2020 | 12:00:49 | 0.011                     |
| 20         | 01/09/2020 | 12:15:49 | 0.011                     |
| 21         | 01/09/2020 | 12:30:49 | 0.010                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/09/2020 | 12:45:49 | 0.011          |
| 23         | 01/09/2020 | 13:00:49 | 0.010          |
| 24         | 01/09/2020 | 13:15:49 | 0.010          |
| 25         | 01/09/2020 | 13:30:49 | 0.009          |
| 26         | 01/09/2020 | 13:45:49 | 0.010          |
| 27         | 01/09/2020 | 14:00:49 | 0.011          |
| 28         | 01/09/2020 | 14:15:49 | 0.013          |
| 29         | 01/09/2020 | 14:30:49 | 0.011          |



# Test 003

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/10/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:06:52    |
|                |             | Stop Date        | 01/10/2020  |
|                |             | Stop Time        | 13:36:52    |
|                |             | Total Time       | 0:06:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.022 mg/m <sup>3</sup> |
| Max            | 0.078 mg/m <sup>3</sup> |
| Max Date       | 01/10/2020              |
| Max Time       | 12:06:52                |
| Min            | 0.009 mg/m <sup>3</sup> |
| Min Date       | 01/10/2020              |
| Min Time       | 09:21:52                |
| TWA (8 hr)     | 0.018                   |
| TWA Start Date | 01/10/2020              |
| TWA Start Time | 07:06:52                |
| TWA End Time   | 13:36:52                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/10/2020 | 07:21:52 | 0.020                     |
| 2          | 01/10/2020 | 07:36:52 | 0.022                     |
| 3          | 01/10/2020 | 07:51:52 | 0.015                     |
| 4          | 01/10/2020 | 08:06:52 | 0.016                     |
| 5          | 01/10/2020 | 08:21:52 | 0.012                     |
| 6          | 01/10/2020 | 08:36:52 | 0.011                     |
| 7          | 01/10/2020 | 08:51:52 | 0.011                     |
| 8          | 01/10/2020 | 09:06:52 | 0.016                     |
| 9          | 01/10/2020 | 09:21:52 | 0.009                     |
| 10         | 01/10/2020 | 09:36:52 | 0.009                     |
| 11         | 01/10/2020 | 09:51:52 | 0.029                     |
| 12         | 01/10/2020 | 10:06:52 | 0.047                     |
| 13         | 01/10/2020 | 10:21:52 | 0.021                     |
| 14         | 01/10/2020 | 10:36:52 | 0.031                     |
| 15         | 01/10/2020 | 10:51:52 | 0.025                     |
| 16         | 01/10/2020 | 11:06:52 | 0.012                     |
| 17         | 01/10/2020 | 11:21:52 | 0.012                     |
| 18         | 01/10/2020 | 11:36:52 | 0.011                     |
| 19         | 01/10/2020 | 11:51:52 | 0.052                     |
| 20         | 01/10/2020 | 12:06:52 | 0.078                     |
| 21         | 01/10/2020 | 12:21:52 | 0.012                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/10/2020 | 12:36:52 | 0.027          |
| 23         | 01/10/2020 | 12:51:52 | 0.022          |
| 24         | 01/10/2020 | 13:06:52 | 0.017          |
| 25         | 01/10/2020 | 13:21:52 | 0.021          |
| 26         | 01/10/2020 | 13:36:52 | 0.015          |

# Test 004

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/13/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:08:44    |
|                |             | Stop Date        | 01/13/2020  |
|                |             | Stop Time        | 14:53:44    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.018 mg/m <sup>3</sup> |
| Max            | 0.024 mg/m <sup>3</sup> |
| Max Date       | 01/13/2020              |
| Max Time       | 14:53:44                |
| Min            | 0.014 mg/m <sup>3</sup> |
| Min Date       | 01/13/2020              |
| Min Time       | 12:08:44                |
| TWA (8 hr)     | 0.017                   |
| TWA Start Date | 01/13/2020              |
| TWA Start Time | 07:08:44                |
| TWA End Time   | 14:53:44                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/13/2020 | 07:23:44 | 0.017                     |
| 2          | 01/13/2020 | 07:38:44 | 0.017                     |
| 3          | 01/13/2020 | 07:53:44 | 0.018                     |
| 4          | 01/13/2020 | 08:08:44 | 0.018                     |
| 5          | 01/13/2020 | 08:23:44 | 0.017                     |
| 6          | 01/13/2020 | 08:38:44 | 0.018                     |
| 7          | 01/13/2020 | 08:53:44 | 0.017                     |
| 8          | 01/13/2020 | 09:08:44 | 0.016                     |
| 9          | 01/13/2020 | 09:23:44 | 0.016                     |
| 10         | 01/13/2020 | 09:38:44 | 0.020                     |
| 11         | 01/13/2020 | 09:53:44 | 0.015                     |
| 12         | 01/13/2020 | 10:08:44 | 0.015                     |
| 13         | 01/13/2020 | 10:23:44 | 0.016                     |
| 14         | 01/13/2020 | 10:38:44 | 0.015                     |
| 15         | 01/13/2020 | 10:53:44 | 0.018                     |
| 16         | 01/13/2020 | 11:08:44 | 0.020                     |
| 17         | 01/13/2020 | 11:23:44 | 0.017                     |
| 18         | 01/13/2020 | 11:38:44 | 0.016                     |
| 19         | 01/13/2020 | 11:53:44 | 0.015                     |
| 20         | 01/13/2020 | 12:08:44 | 0.014                     |
| 21         | 01/13/2020 | 12:23:44 | 0.015                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/13/2020 | 12:38:44 | 0.015          |
| 23         | 01/13/2020 | 12:53:44 | 0.018          |
| 24         | 01/13/2020 | 13:08:44 | 0.017          |
| 25         | 01/13/2020 | 13:23:44 | 0.016          |
| 26         | 01/13/2020 | 13:38:44 | 0.018          |
| 27         | 01/13/2020 | 13:53:44 | 0.021          |
| 28         | 01/13/2020 | 14:08:44 | 0.021          |
| 29         | 01/13/2020 | 14:23:44 | 0.021          |
| 30         | 01/13/2020 | 14:38:44 | 0.023          |
| 31         | 01/13/2020 | 14:53:44 | 0.024          |

# Test 005

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/14/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:15:02    |
|                |             | Stop Date        | 01/14/2020  |
|                |             | Stop Time        | 14:45:02    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.037 mg/m <sup>3</sup> |
| Max            | 0.050 mg/m <sup>3</sup> |
| Max Date       | 01/14/2020              |
| Max Time       | 09:30:02                |
| Min            | 0.022 mg/m <sup>3</sup> |
| Min Date       | 01/14/2020              |
| Min Time       | 14:30:02                |
| TWA (8 hr)     | 0.035                   |
| TWA Start Date | 01/14/2020              |
| TWA Start Time | 07:15:02                |
| TWA End Time   | 14:45:02                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/14/2020 | 07:30:02 | 0.044                     |
| 2          | 01/14/2020 | 07:45:02 | 0.045                     |
| 3          | 01/14/2020 | 08:00:02 | 0.046                     |
| 4          | 01/14/2020 | 08:15:02 | 0.044                     |
| 5          | 01/14/2020 | 08:30:02 | 0.045                     |
| 6          | 01/14/2020 | 08:45:02 | 0.047                     |
| 7          | 01/14/2020 | 09:00:02 | 0.047                     |
| 8          | 01/14/2020 | 09:15:02 | 0.048                     |
| 9          | 01/14/2020 | 09:30:02 | 0.050                     |
| 10         | 01/14/2020 | 09:45:02 | 0.050                     |
| 11         | 01/14/2020 | 10:00:02 | 0.050                     |
| 12         | 01/14/2020 | 10:15:02 | 0.049                     |
| 13         | 01/14/2020 | 10:30:02 | 0.046                     |
| 14         | 01/14/2020 | 10:45:02 | 0.045                     |
| 15         | 01/14/2020 | 11:00:02 | 0.043                     |
| 16         | 01/14/2020 | 11:15:02 | 0.039                     |
| 17         | 01/14/2020 | 11:30:02 | 0.031                     |
| 18         | 01/14/2020 | 11:45:02 | 0.028                     |
| 19         | 01/14/2020 | 12:00:02 | 0.027                     |
| 20         | 01/14/2020 | 12:15:02 | 0.028                     |
| 21         | 01/14/2020 | 12:30:02 | 0.027                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/14/2020 | 12:45:02 | 0.027          |
| 23         | 01/14/2020 | 13:00:02 | 0.028          |
| 24         | 01/14/2020 | 13:15:02 | 0.027          |
| 25         | 01/14/2020 | 13:30:02 | 0.027          |
| 26         | 01/14/2020 | 13:45:02 | 0.027          |
| 27         | 01/14/2020 | 14:00:02 | 0.027          |
| 28         | 01/14/2020 | 14:15:02 | 0.025          |
| 29         | 01/14/2020 | 14:30:02 | 0.022          |
| 30         | 01/14/2020 | 14:45:02 | 0.023          |

# Test 006

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/15/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:11:00    |
|                |             | Stop Date        | 01/15/2020  |
|                |             | Stop Time        | 14:41:00    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.020 mg/m <sup>3</sup> |
| Max            | 0.032 mg/m <sup>3</sup> |
| Max Date       | 01/15/2020              |
| Max Time       | 08:41:00                |
| Min            | 0.013 mg/m <sup>3</sup> |
| Min Date       | 01/15/2020              |
| Min Time       | 12:56:00                |
| TWA (8 hr)     | 0.019                   |
| TWA Start Date | 01/15/2020              |
| TWA Start Time | 07:11:00                |
| TWA End Time   | 14:41:00                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/15/2020 | 07:26:00 | 0.022                     |
| 2          | 01/15/2020 | 07:41:00 | 0.020                     |
| 3          | 01/15/2020 | 07:56:00 | 0.024                     |
| 4          | 01/15/2020 | 08:11:00 | 0.031                     |
| 5          | 01/15/2020 | 08:26:00 | 0.031                     |
| 6          | 01/15/2020 | 08:41:00 | 0.032                     |
| 7          | 01/15/2020 | 08:56:00 | 0.030                     |
| 8          | 01/15/2020 | 09:11:00 | 0.027                     |
| 9          | 01/15/2020 | 09:26:00 | 0.025                     |
| 10         | 01/15/2020 | 09:41:00 | 0.022                     |
| 11         | 01/15/2020 | 09:56:00 | 0.030                     |
| 12         | 01/15/2020 | 10:11:00 | 0.017                     |
| 13         | 01/15/2020 | 10:26:00 | 0.019                     |
| 14         | 01/15/2020 | 10:41:00 | 0.017                     |
| 15         | 01/15/2020 | 10:56:00 | 0.016                     |
| 16         | 01/15/2020 | 11:11:00 | 0.019                     |
| 17         | 01/15/2020 | 11:26:00 | 0.015                     |
| 18         | 01/15/2020 | 11:41:00 | 0.015                     |
| 19         | 01/15/2020 | 11:56:00 | 0.032                     |
| 20         | 01/15/2020 | 12:11:00 | 0.015                     |
| 21         | 01/15/2020 | 12:26:00 | 0.014                     |



| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/15/2020 | 12:41:00 | 0.016          |
| 23         | 01/15/2020 | 12:56:00 | 0.013          |
| 24         | 01/15/2020 | 13:11:00 | 0.015          |
| 25         | 01/15/2020 | 13:26:00 | 0.015          |
| 26         | 01/15/2020 | 13:41:00 | 0.014          |
| 27         | 01/15/2020 | 13:56:00 | 0.014          |
| 28         | 01/15/2020 | 14:11:00 | 0.015          |
| 29         | 01/15/2020 | 14:26:00 | 0.015          |
| 30         | 01/15/2020 | 14:41:00 | 0.015          |

# Test 007

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/16/2020  |
| Instrument S/N | 8530153316  | Start Time       | 07:08:51    |
|                |             | Stop Date        | 01/16/2020  |
|                |             | Stop Time        | 14:38:51    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.015 mg/m <sup>3</sup> |
| Max            | 0.039 mg/m <sup>3</sup> |
| Max Date       | 01/16/2020              |
| Max Time       | 08:38:51                |
| Min            | 0.005 mg/m <sup>3</sup> |
| Min Date       | 01/16/2020              |
| Min Time       | 12:53:51                |
| TWA (8 hr)     | 0.014                   |
| TWA Start Date | 01/16/2020              |
| TWA Start Time | 07:08:51                |
| TWA End Time   | 14:38:51                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/16/2020 | 07:23:51 | 0.016                     |
| 2          | 01/16/2020 | 07:38:51 | 0.019                     |
| 3          | 01/16/2020 | 07:53:51 | 0.019                     |
| 4          | 01/16/2020 | 08:08:51 | 0.026                     |
| 5          | 01/16/2020 | 08:23:51 | 0.036                     |
| 6          | 01/16/2020 | 08:38:51 | 0.039                     |
| 7          | 01/16/2020 | 08:53:51 | 0.039                     |
| 8          | 01/16/2020 | 09:08:51 | 0.034                     |
| 9          | 01/16/2020 | 09:23:51 | 0.031                     |
| 10         | 01/16/2020 | 09:38:51 | 0.020                     |
| 11         | 01/16/2020 | 09:53:51 | 0.010                     |
| 12         | 01/16/2020 | 10:08:51 | 0.008                     |
| 13         | 01/16/2020 | 10:23:51 | 0.006                     |
| 14         | 01/16/2020 | 10:38:51 | 0.008                     |
| 15         | 01/16/2020 | 10:53:51 | 0.009                     |
| 16         | 01/16/2020 | 11:08:51 | 0.009                     |
| 17         | 01/16/2020 | 11:23:51 | 0.010                     |
| 18         | 01/16/2020 | 11:38:51 | 0.008                     |
| 19         | 01/16/2020 | 11:53:51 | 0.011                     |
| 20         | 01/16/2020 | 12:08:51 | 0.009                     |
| 21         | 01/16/2020 | 12:23:51 | 0.007                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/16/2020 | 12:38:51 | 0.006          |
| 23         | 01/16/2020 | 12:53:51 | 0.005          |
| 24         | 01/16/2020 | 13:08:51 | 0.005          |
| 25         | 01/16/2020 | 13:23:51 | 0.006          |
| 26         | 01/16/2020 | 13:38:51 | 0.008          |
| 27         | 01/16/2020 | 13:53:51 | 0.008          |
| 28         | 01/16/2020 | 14:08:51 | 0.009          |
| 29         | 01/16/2020 | 14:23:51 | 0.010          |
| 30         | 01/16/2020 | 14:38:51 | 0.007          |

# Test 022

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 02/04/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:21:38    |
|                |             | Stop Date        | 02/04/2020  |
|                |             | Stop Time        | 14:36:38    |
|                |             | Total Time       | 0:07:15:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.030 mg/m <sup>3</sup> |
| Max            | 0.055 mg/m <sup>3</sup> |
| Max Date       | 02/04/2020              |
| Max Time       | 08:21:38                |
| Min            | 0.009 mg/m <sup>3</sup> |
| Min Date       | 02/04/2020              |
| Min Time       | 13:51:38                |
| TWA (8 hr)     | 0.027                   |
| TWA Start Date | 02/04/2020              |
| TWA Start Time | 07:21:38                |
| TWA End Time   | 14:36:38                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 02/04/2020 | 07:36:38 | 0.042                     |
| 2          | 02/04/2020 | 07:51:38 | 0.046                     |
| 3          | 02/04/2020 | 08:06:38 | 0.048                     |
| 4          | 02/04/2020 | 08:21:38 | 0.055                     |
| 5          | 02/04/2020 | 08:36:38 | 0.043                     |
| 6          | 02/04/2020 | 08:51:38 | 0.038                     |
| 7          | 02/04/2020 | 09:06:38 | 0.033                     |
| 8          | 02/04/2020 | 09:21:38 | 0.035                     |
| 9          | 02/04/2020 | 09:36:38 | 0.033                     |
| 10         | 02/04/2020 | 09:51:38 | 0.033                     |
| 11         | 02/04/2020 | 10:06:38 | 0.037                     |
| 12         | 02/04/2020 | 10:21:38 | 0.032                     |
| 13         | 02/04/2020 | 10:36:38 | 0.033                     |
| 14         | 02/04/2020 | 10:51:38 | 0.031                     |
| 15         | 02/04/2020 | 11:06:38 | 0.030                     |
| 16         | 02/04/2020 | 11:21:38 | 0.030                     |
| 17         | 02/04/2020 | 11:36:38 | 0.031                     |
| 18         | 02/04/2020 | 11:51:38 | 0.031                     |
| 19         | 02/04/2020 | 12:06:38 | 0.029                     |
| 20         | 02/04/2020 | 12:21:38 | 0.029                     |
| 21         | 02/04/2020 | 12:36:38 | 0.029                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 02/04/2020 | 12:51:38 | 0.025          |
| 23         | 02/04/2020 | 13:06:38 | 0.021          |
| 24         | 02/04/2020 | 13:21:38 | 0.015          |
| 25         | 02/04/2020 | 13:36:38 | 0.012          |
| 26         | 02/04/2020 | 13:51:38 | 0.009          |
| 27         | 02/04/2020 | 14:06:38 | 0.009          |
| 28         | 02/04/2020 | 14:21:38 | 0.009          |
| 29         | 02/04/2020 | 14:36:38 | 0.011          |

# Test 023

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 02/05/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:20:50    |
|                |             | Stop Date        | 02/05/2020  |
|                |             | Stop Time        | 15:05:50    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.015 mg/m <sup>3</sup> |
| Max            | 0.165 mg/m <sup>3</sup> |
| Max Date       | 02/05/2020              |
| Max Time       | 08:35:50                |
| Min            | 0.003 mg/m <sup>3</sup> |
| Min Date       | 02/05/2020              |
| Min Time       | 10:35:50                |
| TWA (8 hr)     | 0.015                   |
| TWA Start Date | 02/05/2020              |
| TWA Start Time | 07:20:50                |
| TWA End Time   | 15:05:50                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 02/05/2020 | 07:35:50 | 0.007                     |
| 2          | 02/05/2020 | 07:50:50 | 0.008                     |
| 3          | 02/05/2020 | 08:05:50 | 0.064                     |
| 4          | 02/05/2020 | 08:20:50 | 0.005                     |
| 5          | 02/05/2020 | 08:35:50 | 0.165                     |
| 6          | 02/05/2020 | 08:50:50 | 0.060                     |
| 7          | 02/05/2020 | 09:05:50 | 0.006                     |
| 8          | 02/05/2020 | 09:20:50 | 0.043                     |
| 9          | 02/05/2020 | 09:35:50 | 0.010                     |
| 10         | 02/05/2020 | 09:50:50 | 0.005                     |
| 11         | 02/05/2020 | 10:05:50 | 0.004                     |
| 12         | 02/05/2020 | 10:20:50 | 0.004                     |
| 13         | 02/05/2020 | 10:35:50 | 0.003                     |
| 14         | 02/05/2020 | 10:50:50 | 0.004                     |
| 15         | 02/05/2020 | 11:05:50 | 0.004                     |
| 16         | 02/05/2020 | 11:20:50 | 0.004                     |
| 17         | 02/05/2020 | 11:35:50 | 0.004                     |
| 18         | 02/05/2020 | 11:50:50 | 0.004                     |
| 19         | 02/05/2020 | 12:05:50 | 0.005                     |
| 20         | 02/05/2020 | 12:20:50 | 0.006                     |
| 21         | 02/05/2020 | 12:35:50 | 0.005                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 02/05/2020 | 12:50:50 | 0.007          |
| 23         | 02/05/2020 | 13:05:50 | 0.005          |
| 24         | 02/05/2020 | 13:20:50 | 0.004          |
| 25         | 02/05/2020 | 13:35:50 | 0.004          |
| 26         | 02/05/2020 | 13:50:50 | 0.004          |
| 27         | 02/05/2020 | 14:05:50 | 0.004          |
| 28         | 02/05/2020 | 14:20:50 | 0.005          |
| 29         | 02/05/2020 | 14:35:50 | 0.005          |
| 30         | 02/05/2020 | 14:50:50 | 0.004          |
| 31         | 02/05/2020 | 15:05:50 | 0.006          |



19/11/13 09:31

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# Summary

Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912821  
Unit Firmware Ver V2.20A

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Battery Low

Site ID 12345678  
User ID 12345678

Begin 11/13/2019 9:31  
End 11/13/2019 13:28  
Sample Period(s) 60  
Number of Records 237

Sensor PID(ppm)  
Sensor SN S023030084R6  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 10/14/2019 10:30  
Peak 0  
Min 0  
Average 0

\*\*\*\*\*

# Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 11/13/2019 9:32 | 0                 | 0                 | 0                  |
| 2     | 11/13/2019 9:33 | 0                 | 0                 | 0                  |
| 3     | 11/13/2019 9:34 | 0                 | 0                 | 0                  |
| 4     | 11/13/2019 9:35 | 0                 | 0                 | 0                  |
| 5     | 11/13/2019 9:36 | 0                 | 0                 | 0                  |
| 6     | 11/13/2019 9:37 | 0                 | 0                 | 0                  |
| 7     | 11/13/2019 9:38 | 0                 | 0                 | 0                  |
| 8     | 11/13/2019 9:39 | 0                 | 0                 | 0                  |
| 9     | 11/13/2019 9:40 | 0                 | 0                 | 0                  |
| 10    | 11/13/2019 9:41 | 0                 | 0                 | 0                  |
| 11    | 11/13/2019 9:42 | 0                 | 0                 | 0                  |
| 12    | 11/13/2019 9:43 | 0                 | 0                 | 0                  |

|    |                  |   |   |   |
|----|------------------|---|---|---|
| 13 | 11/13/2019 9:44  | 0 | 0 | 0 |
| 14 | 11/13/2019 9:45  | 0 | 0 | 0 |
| 15 | 11/13/2019 9:46  | 0 | 0 | 0 |
| 16 | 11/13/2019 9:47  | 0 | 0 | 0 |
| 17 | 11/13/2019 9:48  | 0 | 0 | 0 |
| 18 | 11/13/2019 9:49  | 0 | 0 | 0 |
| 19 | 11/13/2019 9:50  | 0 | 0 | 0 |
| 20 | 11/13/2019 9:51  | 0 | 0 | 0 |
| 21 | 11/13/2019 9:52  | 0 | 0 | 0 |
| 22 | 11/13/2019 9:53  | 0 | 0 | 0 |
| 23 | 11/13/2019 9:54  | 0 | 0 | 0 |
| 24 | 11/13/2019 9:55  | 0 | 0 | 0 |
| 25 | 11/13/2019 9:56  | 0 | 0 | 0 |
| 26 | 11/13/2019 9:57  | 0 | 0 | 0 |
| 27 | 11/13/2019 9:58  | 0 | 0 | 0 |
| 28 | 11/13/2019 9:59  | 0 | 0 | 0 |
| 29 | 11/13/2019 10:00 | 0 | 0 | 0 |
| 30 | 11/13/2019 10:01 | 0 | 0 | 0 |
| 31 | 11/13/2019 10:02 | 0 | 0 | 0 |
| 32 | 11/13/2019 10:03 | 0 | 0 | 0 |
| 33 | 11/13/2019 10:04 | 0 | 0 | 0 |
| 34 | 11/13/2019 10:05 | 0 | 0 | 0 |
| 35 | 11/13/2019 10:06 | 0 | 0 | 0 |
| 36 | 11/13/2019 10:07 | 0 | 0 | 0 |
| 37 | 11/13/2019 10:08 | 0 | 0 | 0 |
| 38 | 11/13/2019 10:09 | 0 | 0 | 0 |
| 39 | 11/13/2019 10:10 | 0 | 0 | 0 |
| 40 | 11/13/2019 10:11 | 0 | 0 | 0 |
| 41 | 11/13/2019 10:12 | 0 | 0 | 0 |
| 42 | 11/13/2019 10:13 | 0 | 0 | 0 |
| 43 | 11/13/2019 10:14 | 0 | 0 | 0 |
| 44 | 11/13/2019 10:15 | 0 | 0 | 0 |
| 45 | 11/13/2019 10:16 | 0 | 0 | 0 |
| 46 | 11/13/2019 10:17 | 0 | 0 | 0 |
| 47 | 11/13/2019 10:18 | 0 | 0 | 0 |
| 48 | 11/13/2019 10:19 | 0 | 0 | 0 |
| 49 | 11/13/2019 10:20 | 0 | 0 | 0 |
| 50 | 11/13/2019 10:21 | 0 | 0 | 0 |
| 51 | 11/13/2019 10:22 | 0 | 0 | 0 |
| 52 | 11/13/2019 10:23 | 0 | 0 | 0 |
| 53 | 11/13/2019 10:24 | 0 | 0 | 0 |
| 54 | 11/13/2019 10:25 | 0 | 0 | 0 |
| 55 | 11/13/2019 10:26 | 0 | 0 | 0 |
| 56 | 11/13/2019 10:27 | 0 | 0 | 0 |
| 57 | 11/13/2019 10:28 | 0 | 0 | 0 |
| 58 | 11/13/2019 10:29 | 0 | 0 | 0 |
| 59 | 11/13/2019 10:30 | 0 | 0 | 0 |
| 60 | 11/13/2019 10:31 | 0 | 0 | 0 |
| 61 | 11/13/2019 10:32 | 0 | 0 | 0 |
| 62 | 11/13/2019 10:33 | 0 | 0 | 0 |
| 63 | 11/13/2019 10:34 | 0 | 0 | 0 |
| 64 | 11/13/2019 10:35 | 0 | 0 | 0 |
| 65 | 11/13/2019 10:36 | 0 | 0 | 0 |

|     |                  |   |   |   |
|-----|------------------|---|---|---|
| 66  | 11/13/2019 10:37 | 0 | 0 | 0 |
| 67  | 11/13/2019 10:38 | 0 | 0 | 0 |
| 68  | 11/13/2019 10:39 | 0 | 0 | 0 |
| 69  | 11/13/2019 10:40 | 0 | 0 | 0 |
| 70  | 11/13/2019 10:41 | 0 | 0 | 0 |
| 71  | 11/13/2019 10:42 | 0 | 0 | 0 |
| 72  | 11/13/2019 10:43 | 0 | 0 | 0 |
| 73  | 11/13/2019 10:44 | 0 | 0 | 0 |
| 74  | 11/13/2019 10:45 | 0 | 0 | 0 |
| 75  | 11/13/2019 10:46 | 0 | 0 | 0 |
| 76  | 11/13/2019 10:47 | 0 | 0 | 0 |
| 77  | 11/13/2019 10:48 | 0 | 0 | 0 |
| 78  | 11/13/2019 10:49 | 0 | 0 | 0 |
| 79  | 11/13/2019 10:50 | 0 | 0 | 0 |
| 80  | 11/13/2019 10:51 | 0 | 0 | 0 |
| 81  | 11/13/2019 10:52 | 0 | 0 | 0 |
| 82  | 11/13/2019 10:53 | 0 | 0 | 0 |
| 83  | 11/13/2019 10:54 | 0 | 0 | 0 |
| 84  | 11/13/2019 10:55 | 0 | 0 | 0 |
| 85  | 11/13/2019 10:56 | 0 | 0 | 0 |
| 86  | 11/13/2019 10:57 | 0 | 0 | 0 |
| 87  | 11/13/2019 10:58 | 0 | 0 | 0 |
| 88  | 11/13/2019 10:59 | 0 | 0 | 0 |
| 89  | 11/13/2019 11:00 | 0 | 0 | 0 |
| 90  | 11/13/2019 11:01 | 0 | 0 | 0 |
| 91  | 11/13/2019 11:02 | 0 | 0 | 0 |
| 92  | 11/13/2019 11:03 | 0 | 0 | 0 |
| 93  | 11/13/2019 11:04 | 0 | 0 | 0 |
| 94  | 11/13/2019 11:05 | 0 | 0 | 0 |
| 95  | 11/13/2019 11:06 | 0 | 0 | 0 |
| 96  | 11/13/2019 11:07 | 0 | 0 | 0 |
| 97  | 11/13/2019 11:08 | 0 | 0 | 0 |
| 98  | 11/13/2019 11:09 | 0 | 0 | 0 |
| 99  | 11/13/2019 11:10 | 0 | 0 | 0 |
| 100 | 11/13/2019 11:11 | 0 | 0 | 0 |
| 101 | 11/13/2019 11:12 | 0 | 0 | 0 |
| 102 | 11/13/2019 11:13 | 0 | 0 | 0 |
| 103 | 11/13/2019 11:14 | 0 | 0 | 0 |
| 104 | 11/13/2019 11:15 | 0 | 0 | 0 |
| 105 | 11/13/2019 11:16 | 0 | 0 | 0 |
| 106 | 11/13/2019 11:17 | 0 | 0 | 0 |
| 107 | 11/13/2019 11:18 | 0 | 0 | 0 |
| 108 | 11/13/2019 11:19 | 0 | 0 | 0 |
| 109 | 11/13/2019 11:20 | 0 | 0 | 0 |
| 110 | 11/13/2019 11:21 | 0 | 0 | 0 |
| 111 | 11/13/2019 11:22 | 0 | 0 | 0 |
| 112 | 11/13/2019 11:23 | 0 | 0 | 0 |
| 113 | 11/13/2019 11:24 | 0 | 0 | 0 |
| 114 | 11/13/2019 11:25 | 0 | 0 | 0 |
| 115 | 11/13/2019 11:26 | 0 | 0 | 0 |
| 116 | 11/13/2019 11:27 | 0 | 0 | 0 |
| 117 | 11/13/2019 11:28 | 0 | 0 | 0 |
| 118 | 11/13/2019 11:29 | 0 | 0 | 0 |

|     |                  |   |   |   |
|-----|------------------|---|---|---|
| 119 | 11/13/2019 11:30 | 0 | 0 | 0 |
| 120 | 11/13/2019 11:31 | 0 | 0 | 0 |
| 121 | 11/13/2019 11:32 | 0 | 0 | 0 |
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| 123 | 11/13/2019 11:34 | 0 | 0 | 0 |
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| 126 | 11/13/2019 11:37 | 0 | 0 | 0 |
| 127 | 11/13/2019 11:38 | 0 | 0 | 0 |
| 128 | 11/13/2019 11:39 | 0 | 0 | 0 |
| 129 | 11/13/2019 11:40 | 0 | 0 | 0 |
| 130 | 11/13/2019 11:41 | 0 | 0 | 0 |
| 131 | 11/13/2019 11:42 | 0 | 0 | 0 |
| 132 | 11/13/2019 11:43 | 0 | 0 | 0 |
| 133 | 11/13/2019 11:44 | 0 | 0 | 0 |
| 134 | 11/13/2019 11:45 | 0 | 0 | 0 |
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| 136 | 11/13/2019 11:47 | 0 | 0 | 0 |
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| 140 | 11/13/2019 11:51 | 0 | 0 | 0 |
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| 151 | 11/13/2019 12:02 | 0 | 0 | 0 |
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| 153 | 11/13/2019 12:04 | 0 | 0 | 0 |
| 154 | 11/13/2019 12:05 | 0 | 0 | 0 |
| 155 | 11/13/2019 12:06 | 0 | 0 | 0 |
| 156 | 11/13/2019 12:07 | 0 | 0 | 0 |
| 157 | 11/13/2019 12:08 | 0 | 0 | 0 |
| 158 | 11/13/2019 12:09 | 0 | 0 | 0 |
| 159 | 11/13/2019 12:10 | 0 | 0 | 0 |
| 160 | 11/13/2019 12:11 | 0 | 0 | 0 |
| 161 | 11/13/2019 12:12 | 0 | 0 | 0 |
| 162 | 11/13/2019 12:13 | 0 | 0 | 0 |
| 163 | 11/13/2019 12:14 | 0 | 0 | 0 |
| 164 | 11/13/2019 12:15 | 0 | 0 | 0 |
| 165 | 11/13/2019 12:16 | 0 | 0 | 0 |
| 166 | 11/13/2019 12:17 | 0 | 0 | 0 |
| 167 | 11/13/2019 12:18 | 0 | 0 | 0 |
| 168 | 11/13/2019 12:19 | 0 | 0 | 0 |
| 169 | 11/13/2019 12:20 | 0 | 0 | 0 |
| 170 | 11/13/2019 12:21 | 0 | 0 | 0 |
| 171 | 11/13/2019 12:22 | 0 | 0 | 0 |

|     |                  |   |   |   |
|-----|------------------|---|---|---|
| 172 | 11/13/2019 12:23 | 0 | 0 | 0 |
| 173 | 11/13/2019 12:24 | 0 | 0 | 0 |
| 174 | 11/13/2019 12:25 | 0 | 0 | 0 |
| 175 | 11/13/2019 12:26 | 0 | 0 | 0 |
| 176 | 11/13/2019 12:27 | 0 | 0 | 0 |
| 177 | 11/13/2019 12:28 | 0 | 0 | 0 |
| 178 | 11/13/2019 12:29 | 0 | 0 | 0 |
| 179 | 11/13/2019 12:30 | 0 | 0 | 0 |
| 180 | 11/13/2019 12:31 | 0 | 0 | 0 |
| 181 | 11/13/2019 12:32 | 0 | 0 | 0 |
| 182 | 11/13/2019 12:33 | 0 | 0 | 0 |
| 183 | 11/13/2019 12:34 | 0 | 0 | 0 |
| 184 | 11/13/2019 12:35 | 0 | 0 | 0 |
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| 187 | 11/13/2019 12:38 | 0 | 0 | 0 |
| 188 | 11/13/2019 12:39 | 0 | 0 | 0 |
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| 191 | 11/13/2019 12:42 | 0 | 0 | 0 |
| 192 | 11/13/2019 12:43 | 0 | 0 | 0 |
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| 195 | 11/13/2019 12:46 | 0 | 0 | 0 |
| 196 | 11/13/2019 12:47 | 0 | 0 | 0 |
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| 199 | 11/13/2019 12:50 | 0 | 0 | 0 |
| 200 | 11/13/2019 12:51 | 0 | 0 | 0 |
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| 208 | 11/13/2019 12:59 | 0 | 0 | 0 |
| 209 | 11/13/2019 13:00 | 0 | 0 | 0 |
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| 212 | 11/13/2019 13:03 | 0 | 0 | 0 |
| 213 | 11/13/2019 13:04 | 0 | 0 | 0 |
| 214 | 11/13/2019 13:05 | 0 | 0 | 0 |
| 215 | 11/13/2019 13:06 | 0 | 0 | 0 |
| 216 | 11/13/2019 13:07 | 0 | 0 | 0 |
| 217 | 11/13/2019 13:08 | 0 | 0 | 0 |
| 218 | 11/13/2019 13:09 | 0 | 0 | 0 |
| 219 | 11/13/2019 13:10 | 0 | 0 | 0 |
| 220 | 11/13/2019 13:11 | 0 | 0 | 0 |
| 221 | 11/13/2019 13:12 | 0 | 0 | 0 |
| 222 | 11/13/2019 13:13 | 0 | 0 | 0 |
| 223 | 11/13/2019 13:14 | 0 | 0 | 0 |
| 224 | 11/13/2019 13:15 | 0 | 0 | 0 |

|         |                  |   |   |   |
|---------|------------------|---|---|---|
| 225     | 11/13/2019 13:16 | 0 | 0 | 0 |
| 226     | 11/13/2019 13:17 | 0 | 0 | 0 |
| 227     | 11/13/2019 13:18 | 0 | 0 | 0 |
| 228     | 11/13/2019 13:19 | 0 | 0 | 0 |
| 229     | 11/13/2019 13:20 | 0 | 0 | 0 |
| 230     | 11/13/2019 13:21 | 0 | 0 | 0 |
| 231     | 11/13/2019 13:22 | 0 | 0 | 0 |
| 232     | 11/13/2019 13:23 | 0 | 0 | 0 |
| 233     | 11/13/2019 13:24 | 0 | 0 | 0 |
| 234     | 11/13/2019 13:25 | 0 | 0 | 0 |
| 235     | 11/13/2019 13:26 | 0 | 0 | 0 |
| 236     | 11/13/2019 13:27 | 0 | 0 | 0 |
| 237     | 11/13/2019 13:28 | 0 | 0 | 0 |
| Peak    |                  | 0 | 0 | 0 |
| Min     |                  | 0 | 0 | 0 |
| Average |                  | 0 | 0 | 0 |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 11/13/2019 9:32  | 0 ---             |                    |
| 2     | 11/13/2019 9:33  | 0 ---             |                    |
| 3     | 11/13/2019 9:34  | 0 ---             |                    |
| 4     | 11/13/2019 9:35  | 0 ---             |                    |
| 5     | 11/13/2019 9:36  | 0 ---             |                    |
| 6     | 11/13/2019 9:37  | 0 ---             |                    |
| 7     | 11/13/2019 9:38  | 0 ---             |                    |
| 8     | 11/13/2019 9:39  | 0 ---             |                    |
| 9     | 11/13/2019 9:40  | 0 ---             |                    |
| 10    | 11/13/2019 9:41  | 0 ---             |                    |
| 11    | 11/13/2019 9:42  | 0 ---             |                    |
| 12    | 11/13/2019 9:43  | 0 ---             |                    |
| 13    | 11/13/2019 9:44  | 0 ---             |                    |
| 14    | 11/13/2019 9:45  | 0 ---             |                    |
| 15    | 11/13/2019 9:46  | 0                 | 0                  |
| 16    | 11/13/2019 9:47  | 0                 | 0                  |
| 17    | 11/13/2019 9:48  | 0                 | 0                  |
| 18    | 11/13/2019 9:49  | 0                 | 0                  |
| 19    | 11/13/2019 9:50  | 0                 | 0                  |
| 20    | 11/13/2019 9:51  | 0                 | 0                  |
| 21    | 11/13/2019 9:52  | 0                 | 0                  |
| 22    | 11/13/2019 9:53  | 0                 | 0                  |
| 23    | 11/13/2019 9:54  | 0                 | 0                  |
| 24    | 11/13/2019 9:55  | 0                 | 0                  |
| 25    | 11/13/2019 9:56  | 0                 | 0                  |
| 26    | 11/13/2019 9:57  | 0                 | 0                  |
| 27    | 11/13/2019 9:58  | 0                 | 0                  |
| 28    | 11/13/2019 9:59  | 0                 | 0                  |
| 29    | 11/13/2019 10:00 | 0                 | 0                  |
| 30    | 11/13/2019 10:01 | 0                 | 0                  |
| 31    | 11/13/2019 10:02 | 0                 | 0                  |
| 32    | 11/13/2019 10:03 | 0                 | 0                  |

|    |                  |   |   |
|----|------------------|---|---|
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| 34 | 11/13/2019 10:05 | 0 | 0 |
| 35 | 11/13/2019 10:06 | 0 | 0 |
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| 38 | 11/13/2019 10:09 | 0 | 0 |
| 39 | 11/13/2019 10:10 | 0 | 0 |
| 40 | 11/13/2019 10:11 | 0 | 0 |
| 41 | 11/13/2019 10:12 | 0 | 0 |
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| 43 | 11/13/2019 10:14 | 0 | 0 |
| 44 | 11/13/2019 10:15 | 0 | 0 |
| 45 | 11/13/2019 10:16 | 0 | 0 |
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| 54 | 11/13/2019 10:25 | 0 | 0 |
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| 57 | 11/13/2019 10:28 | 0 | 0 |
| 58 | 11/13/2019 10:29 | 0 | 0 |
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| 83 | 11/13/2019 10:54 | 0 | 0 |
| 84 | 11/13/2019 10:55 | 0 | 0 |
| 85 | 11/13/2019 10:56 | 0 | 0 |



|     |                  |   |   |
|-----|------------------|---|---|
| 86  | 11/13/2019 10:57 | 0 | 0 |
| 87  | 11/13/2019 10:58 | 0 | 0 |
| 88  | 11/13/2019 10:59 | 0 | 0 |
| 89  | 11/13/2019 11:00 | 0 | 0 |
| 90  | 11/13/2019 11:01 | 0 | 0 |
| 91  | 11/13/2019 11:02 | 0 | 0 |
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| 95  | 11/13/2019 11:06 | 0 | 0 |
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| 97  | 11/13/2019 11:08 | 0 | 0 |
| 98  | 11/13/2019 11:09 | 0 | 0 |
| 99  | 11/13/2019 11:10 | 0 | 0 |
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| 118 | 11/13/2019 11:29 | 0 | 0 |
| 119 | 11/13/2019 11:30 | 0 | 0 |
| 120 | 11/13/2019 11:31 | 0 | 0 |
| 121 | 11/13/2019 11:32 | 0 | 0 |
| 122 | 11/13/2019 11:33 | 0 | 0 |
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| 124 | 11/13/2019 11:35 | 0 | 0 |
| 125 | 11/13/2019 11:36 | 0 | 0 |
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| 167 | 11/13/2019 12:18 | 0 | 0 |
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| 236 | 11/13/2019 13:27 | 0 | 0 |
| 237 | 11/13/2019 13:28 | 0 | 0 |

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19/12/30 11:23

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# Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-925781

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/30/2019 11:23

End 12/30/2019 11:46

Sample Per 900

Number of 1

-----

Sensor PID(ppm)

Sensor SN S023030007V6

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 12/27/2019 11:46

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

# Datalog

| Index   | Date/Time        | PID(ppm)<br>(Avg) |
|---------|------------------|-------------------|
| 1       | 12/30/2019 11:38 | 0                 |
| Peak    |                  | 0                 |
| Min     |                  | 0                 |
| Average |                  | 0                 |

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20/01/08 09:17

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

-----

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/8/2020 9:17

End 1/8/2020 10:03

Sample Per 60

Number of 45

-----

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0

Average 0

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Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/8/2020 9:18 | 0.1               | 0.1               | 0.1                |
| 2     | 1/8/2020 9:19 | 0.1               | 0.1               | 0                  |
| 3     | 1/8/2020 9:20 | 0                 | 0.1               | 0                  |
| 4     | 1/8/2020 9:21 | 0                 | 0                 | 0                  |
| 5     | 1/8/2020 9:22 | 0                 | 0                 | 0                  |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/8/2020 9:23  | 0   | 0.1 | 0   |
| 7       | 1/8/2020 9:24  | 0   | 0   | 0   |
| 8       | 1/8/2020 9:25  | 0   | 0   | 0   |
| 9       | 1/8/2020 9:26  | 0   | 0   | 0   |
| 10      | 1/8/2020 9:27  | 0   | 0   | 0   |
| 11      | 1/8/2020 9:28  | 0   | 0   | 0   |
| 12      | 1/8/2020 9:29  | 0   | 0   | 0   |
| 13      | 1/8/2020 9:30  | 0   | 0   | 0   |
| 14      | 1/8/2020 9:31  | 0   | 0   | 0   |
| 15      | 1/8/2020 9:32  | 0   | 0   | 0   |
| 16      | 1/8/2020 9:33  | 0   | 0   | 0   |
| 17      | 1/8/2020 9:34  | 0   | 0   | 0   |
| 18      | 1/8/2020 9:35  | 0   | 0   | 0   |
| 19      | 1/8/2020 9:36  | 0   | 0   | 0   |
| 20      | 1/8/2020 9:37  | 0   | 0   | 0   |
| 21      | 1/8/2020 9:38  | 0   | 0   | 0   |
| 22      | 1/8/2020 9:39  | 0.1 | 0.1 | 0.1 |
| 23      | 1/8/2020 9:40  | 0   | 0.1 | 0.1 |
| 24      | 1/8/2020 9:41  | 0   | 0.1 | 0   |
| 25      | 1/8/2020 9:42  | 0   | 0.1 | 0   |
| 26      | 1/8/2020 9:43  | 0   | 0   | 0   |
| 27      | 1/8/2020 9:44  | 0   | 0   | 0   |
| 28      | 1/8/2020 9:45  | 0   | 0.1 | 0   |
| 29      | 1/8/2020 9:46  | 0   | 0   | 0   |
| 30      | 1/8/2020 9:47  | 0   | 0.1 | 0   |
| 31      | 1/8/2020 9:48  | 0   | 0   | 0   |
| 32      | 1/8/2020 9:49  | 0   | 0   | 0   |
| 33      | 1/8/2020 9:50  | 0   | 0   | 0   |
| 34      | 1/8/2020 9:51  | 0   | 0   | 0   |
| 35      | 1/8/2020 9:52  | 0   | 0.1 | 0   |
| 36      | 1/8/2020 9:53  | 0   | 0   | 0   |
| 37      | 1/8/2020 9:54  | 0   | 0   | 0   |
| 38      | 1/8/2020 9:55  | 0   | 0   | 0   |
| 39      | 1/8/2020 9:56  | 0   | 0.1 | 0   |
| 40      | 1/8/2020 9:57  | 0   | 0.1 | 0.1 |
| 41      | 1/8/2020 9:58  | 0.1 | 0.1 | 0.1 |
| 42      | 1/8/2020 9:59  | 0   | 0.1 | 0   |
| 43      | 1/8/2020 10:00 | 0   | 0.1 | 0.1 |
| 44      | 1/8/2020 10:01 | 0.1 | 0.1 | 0   |
| 45      | 1/8/2020 10:02 | 0.1 | 0.1 | 0.1 |
| Peak    |                | 0.1 | 0.1 | 0.1 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0   | 0   | 0   |

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TWA/STEL

PID(ppm) PID(ppm)

| Index | Date/Time      | (TWA) | (STEL) |
|-------|----------------|-------|--------|
| 1     | 1/8/2020 9:18  | 0 --- |        |
| 2     | 1/8/2020 9:19  | 0 --- |        |
| 3     | 1/8/2020 9:20  | 0 --- |        |
| 4     | 1/8/2020 9:21  | 0 --- |        |
| 5     | 1/8/2020 9:22  | 0 --- |        |
| 6     | 1/8/2020 9:23  | 0 --- |        |
| 7     | 1/8/2020 9:24  | 0 --- |        |
| 8     | 1/8/2020 9:25  | 0 --- |        |
| 9     | 1/8/2020 9:26  | 0 --- |        |
| 10    | 1/8/2020 9:27  | 0 --- |        |
| 11    | 1/8/2020 9:28  | 0 --- |        |
| 12    | 1/8/2020 9:29  | 0 --- |        |
| 13    | 1/8/2020 9:30  | 0 --- |        |
| 14    | 1/8/2020 9:31  | 0 --- |        |
| 15    | 1/8/2020 9:32  | 0     | 0      |
| 16    | 1/8/2020 9:33  | 0     | 0      |
| 17    | 1/8/2020 9:34  | 0     | 0      |
| 18    | 1/8/2020 9:35  | 0     | 0      |
| 19    | 1/8/2020 9:36  | 0     | 0      |
| 20    | 1/8/2020 9:37  | 0     | 0      |
| 21    | 1/8/2020 9:38  | 0     | 0      |
| 22    | 1/8/2020 9:39  | 0     | 0      |
| 23    | 1/8/2020 9:40  | 0     | 0      |
| 24    | 1/8/2020 9:41  | 0     | 0      |
| 25    | 1/8/2020 9:42  | 0     | 0      |
| 26    | 1/8/2020 9:43  | 0     | 0      |
| 27    | 1/8/2020 9:44  | 0     | 0      |
| 28    | 1/8/2020 9:45  | 0     | 0      |
| 29    | 1/8/2020 9:46  | 0     | 0      |
| 30    | 1/8/2020 9:47  | 0     | 0      |
| 31    | 1/8/2020 9:48  | 0     | 0      |
| 32    | 1/8/2020 9:49  | 0     | 0      |
| 33    | 1/8/2020 9:50  | 0     | 0      |
| 34    | 1/8/2020 9:51  | 0     | 0      |
| 35    | 1/8/2020 9:52  | 0     | 0      |
| 36    | 1/8/2020 9:53  | 0     | 0      |
| 37    | 1/8/2020 9:54  | 0     | 0      |
| 38    | 1/8/2020 9:55  | 0     | 0      |
| 39    | 1/8/2020 9:56  | 0     | 0      |
| 40    | 1/8/2020 9:57  | 0     | 0      |
| 41    | 1/8/2020 9:58  | 0     | 0      |
| 42    | 1/8/2020 9:59  | 0     | 0      |
| 43    | 1/8/2020 10:00 | 0     | 0      |
| 44    | 1/8/2020 10:01 | 0     | 0      |
| 45    | 1/8/2020 10:02 | 0     | 0      |



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20/01/08 12:40

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Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

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Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

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Site ID 12345678

User ID 12345678

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Begin 1/8/2020 12:40

End 1/8/2020 13:26

Sample Per 60

Number of 46

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Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0

Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/8/2020 12:41 | 0.1               | 0.1               | 0.1                |
| 2     | 1/8/2020 12:42 | 0.1               | 0.1               | 0.1                |
| 3     | 1/8/2020 12:43 | 0.1               | 0.1               | 0                  |
| 4     | 1/8/2020 12:44 | 0                 | 0.1               | 0                  |
| 5     | 1/8/2020 12:45 | 0                 | 0                 | 0                  |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/8/2020 12:46 | 0   | 0   | 0   |
| 7       | 1/8/2020 12:47 | 0   | 0   | 0   |
| 8       | 1/8/2020 12:48 | 0   | 0   | 0   |
| 9       | 1/8/2020 12:49 | 0   | 0   | 0   |
| 10      | 1/8/2020 12:50 | 0   | 0   | 0   |
| 11      | 1/8/2020 12:51 | 0   | 0   | 0   |
| 12      | 1/8/2020 12:52 | 0   | 0   | 0   |
| 13      | 1/8/2020 12:53 | 0   | 0.1 | 0.1 |
| 14      | 1/8/2020 12:54 | 0   | 0.1 | 0   |
| 15      | 1/8/2020 12:55 | 0   | 0   | 0   |
| 16      | 1/8/2020 12:56 | 0   | 0   | 0   |
| 17      | 1/8/2020 12:57 | 0   | 0   | 0   |
| 18      | 1/8/2020 12:58 | 0   | 0.1 | 0   |
| 19      | 1/8/2020 12:59 | 0   | 0   | 0   |
| 20      | 1/8/2020 13:00 | 0   | 0   | 0   |
| 21      | 1/8/2020 13:01 | 0   | 0   | 0   |
| 22      | 1/8/2020 13:02 | 0   | 0   | 0   |
| 23      | 1/8/2020 13:03 | 0   | 0.1 | 0   |
| 24      | 1/8/2020 13:04 | 0   | 0.1 | 0   |
| 25      | 1/8/2020 13:05 | 0   | 0.1 | 0.1 |
| 26      | 1/8/2020 13:06 | 0   | 0.1 | 0   |
| 27      | 1/8/2020 13:07 | 0   | 0.1 | 0   |
| 28      | 1/8/2020 13:08 | 0   | 0.1 | 0.1 |
| 29      | 1/8/2020 13:09 | 0   | 0.1 | 0   |
| 30      | 1/8/2020 13:10 | 0   | 0.1 | 0.1 |
| 31      | 1/8/2020 13:11 | 0   | 0.1 | 0   |
| 32      | 1/8/2020 13:12 | 0   | 0.1 | 0   |
| 33      | 1/8/2020 13:13 | 0.1 | 0.1 | 0   |
| 34      | 1/8/2020 13:14 | 0   | 0   | 0   |
| 35      | 1/8/2020 13:15 | 0   | 0.1 | 0   |
| 36      | 1/8/2020 13:16 | 0   | 0   | 0   |
| 37      | 1/8/2020 13:17 | 0   | 0.1 | 0   |
| 38      | 1/8/2020 13:18 | 0   | 0   | 0   |
| 39      | 1/8/2020 13:19 | 0   | 0   | 0   |
| 40      | 1/8/2020 13:20 | 0   | 0   | 0   |
| 41      | 1/8/2020 13:21 | 0   | 0   | 0   |
| 42      | 1/8/2020 13:22 | 0   | 0   | 0   |
| 43      | 1/8/2020 13:23 | 0   | 0   | 0   |
| 44      | 1/8/2020 13:24 | 0   | 0   | 0   |
| 45      | 1/8/2020 13:25 | 0.1 | 0.2 | 0.1 |
| 46      | 1/8/2020 13:26 | 0   | 0.1 | 0   |
| Peak    |                | 0.1 | 0.2 | 0.1 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0   | 0.1 | 0   |

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TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/8/2020 12:41 | 0                 | ---                |
| 2     | 1/8/2020 12:42 | 0                 | ---                |
| 3     | 1/8/2020 12:43 | 0                 | ---                |
| 4     | 1/8/2020 12:44 | 0                 | ---                |
| 5     | 1/8/2020 12:45 | 0                 | ---                |
| 6     | 1/8/2020 12:46 | 0                 | ---                |
| 7     | 1/8/2020 12:47 | 0                 | ---                |
| 8     | 1/8/2020 12:48 | 0                 | ---                |
| 9     | 1/8/2020 12:49 | 0                 | ---                |
| 10    | 1/8/2020 12:50 | 0                 | ---                |
| 11    | 1/8/2020 12:51 | 0                 | ---                |
| 12    | 1/8/2020 12:52 | 0                 | ---                |
| 13    | 1/8/2020 12:53 | 0                 | ---                |
| 14    | 1/8/2020 12:54 | 0                 | ---                |
| 15    | 1/8/2020 12:55 | 0                 | 0                  |
| 16    | 1/8/2020 12:56 | 0                 | 0                  |
| 17    | 1/8/2020 12:57 | 0                 | 0                  |
| 18    | 1/8/2020 12:58 | 0                 | 0                  |
| 19    | 1/8/2020 12:59 | 0                 | 0                  |
| 20    | 1/8/2020 13:00 | 0                 | 0                  |
| 21    | 1/8/2020 13:01 | 0                 | 0                  |
| 22    | 1/8/2020 13:02 | 0                 | 0                  |
| 23    | 1/8/2020 13:03 | 0                 | 0                  |
| 24    | 1/8/2020 13:04 | 0                 | 0                  |
| 25    | 1/8/2020 13:05 | 0                 | 0                  |
| 26    | 1/8/2020 13:06 | 0                 | 0                  |
| 27    | 1/8/2020 13:07 | 0                 | 0                  |
| 28    | 1/8/2020 13:08 | 0                 | 0                  |
| 29    | 1/8/2020 13:09 | 0                 | 0                  |
| 30    | 1/8/2020 13:10 | 0                 | 0                  |
| 31    | 1/8/2020 13:11 | 0                 | 0                  |
| 32    | 1/8/2020 13:12 | 0                 | 0                  |
| 33    | 1/8/2020 13:13 | 0                 | 0                  |
| 34    | 1/8/2020 13:14 | 0                 | 0                  |
| 35    | 1/8/2020 13:15 | 0                 | 0                  |
| 36    | 1/8/2020 13:16 | 0                 | 0                  |
| 37    | 1/8/2020 13:17 | 0                 | 0                  |
| 38    | 1/8/2020 13:18 | 0                 | 0                  |
| 39    | 1/8/2020 13:19 | 0                 | 0                  |
| 40    | 1/8/2020 13:20 | 0                 | 0                  |
| 41    | 1/8/2020 13:21 | 0                 | 0                  |
| 42    | 1/8/2020 13:22 | 0                 | 0                  |
| 43    | 1/8/2020 13:23 | 0                 | 0                  |
| 44    | 1/8/2020 13:24 | 0                 | 0                  |
| 45    | 1/8/2020 13:25 | 0                 | 0                  |



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20/01/08 14:01

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Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

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Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

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Site ID 12345678

User ID 12345678

-----

Begin 1/8/2020 14:01

End 1/8/2020 16:04

Sample Per 60

Number of 123

-----

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0

Average 0

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/8/2020 14:02 | 0                 | 0                 | 0                  |
| 2     | 1/8/2020 14:03 | 0                 | 0                 | 0                  |
| 3     | 1/8/2020 14:04 | 0                 | 0                 | 0                  |
| 4     | 1/8/2020 14:05 | 0                 | 0                 | 0                  |
| 5     | 1/8/2020 14:06 | 0                 | 0                 | 0                  |

|    |                |     |     |     |
|----|----------------|-----|-----|-----|
| 6  | 1/8/2020 14:07 | 0   | 0   | 0   |
| 7  | 1/8/2020 14:08 | 0   | 0   | 0   |
| 8  | 1/8/2020 14:09 | 0   | 0   | 0   |
| 9  | 1/8/2020 14:10 | 0   | 0   | 0   |
| 10 | 1/8/2020 14:11 | 0   | 0   | 0   |
| 11 | 1/8/2020 14:12 | 0   | 0   | 0   |
| 12 | 1/8/2020 14:13 | 0   | 0   | 0   |
| 13 | 1/8/2020 14:14 | 0   | 0   | 0   |
| 14 | 1/8/2020 14:15 | 0   | 0   | 0   |
| 15 | 1/8/2020 14:16 | 0   | 0   | 0   |
| 16 | 1/8/2020 14:17 | 0   | 0   | 0   |
| 17 | 1/8/2020 14:18 | 0   | 0   | 0   |
| 18 | 1/8/2020 14:19 | 0   | 0   | 0   |
| 19 | 1/8/2020 14:20 | 0   | 0   | 0   |
| 20 | 1/8/2020 14:21 | 0   | 0   | 0   |
| 21 | 1/8/2020 14:22 | 0   | 0   | 0   |
| 22 | 1/8/2020 14:23 | 0   | 0   | 0   |
| 23 | 1/8/2020 14:24 | 0   | 0   | 0   |
| 24 | 1/8/2020 14:25 | 0   | 0   | 0   |
| 25 | 1/8/2020 14:26 | 0   | 0.1 | 0.1 |
| 26 | 1/8/2020 14:27 | 0.2 | 0.2 | 0.1 |
| 27 | 1/8/2020 14:28 | 0.1 | 0.1 | 0.1 |
| 28 | 1/8/2020 14:29 | 0.1 | 0.1 | 0.1 |
| 29 | 1/8/2020 14:30 | 0.1 | 0.2 | 0.1 |
| 30 | 1/8/2020 14:31 | 0   | 0.1 | 0   |
| 31 | 1/8/2020 14:32 | 0   | 0   | 0   |
| 32 | 1/8/2020 14:33 | 0   | 0.1 | 0   |
| 33 | 1/8/2020 14:34 | 0   | 0.1 | 0   |
| 34 | 1/8/2020 14:35 | 0   | 0.1 | 0.1 |
| 35 | 1/8/2020 14:36 | 0.1 | 0.1 | 0   |
| 36 | 1/8/2020 14:37 | 0   | 0.1 | 0   |
| 37 | 1/8/2020 14:38 | 0   | 0.1 | 0   |
| 38 | 1/8/2020 14:39 | 0.1 | 0.1 | 0.1 |
| 39 | 1/8/2020 14:40 | 0   | 0.1 | 0   |
| 40 | 1/8/2020 14:41 | 0   | 0   | 0   |
| 41 | 1/8/2020 14:42 | 0   | 0   | 0   |
| 42 | 1/8/2020 14:43 | 0   | 0   | 0   |
| 43 | 1/8/2020 14:44 | 0   | 0   | 0   |
| 44 | 1/8/2020 14:45 | 0   | 0   | 0   |
| 45 | 1/8/2020 14:46 | 0   | 0.1 | 0   |
| 46 | 1/8/2020 14:47 | 0   | 0   | 0   |
| 47 | 1/8/2020 14:48 | 0   | 0.1 | 0.1 |
| 48 | 1/8/2020 14:49 | 0   | 0.1 | 0   |
| 49 | 1/8/2020 14:50 | 0   | 0.1 | 0.1 |
| 50 | 1/8/2020 14:51 | 0.1 | 0.1 | 0.1 |
| 51 | 1/8/2020 14:52 | 0   | 0.1 | 0   |
| 52 | 1/8/2020 14:53 | 0   | 0.1 | 0   |

|    |                |     |     |     |
|----|----------------|-----|-----|-----|
| 53 | 1/8/2020 14:54 | 0   | 0.1 | 0   |
| 54 | 1/8/2020 14:55 | 0   | 0.1 | 0   |
| 55 | 1/8/2020 14:56 | 0   | 0.1 | 0.1 |
| 56 | 1/8/2020 14:57 | 0.1 | 0.1 | 0   |
| 57 | 1/8/2020 14:58 | 0   | 0   | 0   |
| 58 | 1/8/2020 14:59 | 0   | 0.1 | 0.1 |
| 59 | 1/8/2020 15:00 | 0   | 0.1 | 0   |
| 60 | 1/8/2020 15:01 | 0   | 0.1 | 0   |
| 61 | 1/8/2020 15:02 | 0   | 0   | 0   |
| 62 | 1/8/2020 15:03 | 0.1 | 0.1 | 0.1 |
| 63 | 1/8/2020 15:04 | 0   | 0.1 | 0.1 |
| 64 | 1/8/2020 15:05 | 0   | 0.1 | 0.1 |
| 65 | 1/8/2020 15:06 | 0.1 | 0.1 | 0.1 |
| 66 | 1/8/2020 15:07 | 0   | 0.1 | 0   |
| 67 | 1/8/2020 15:08 | 0.1 | 0.1 | 0   |
| 68 | 1/8/2020 15:09 | 0   | 0.1 | 0.1 |
| 69 | 1/8/2020 15:10 | 0   | 0.1 | 0.1 |
| 70 | 1/8/2020 15:11 | 0.1 | 0.1 | 0   |
| 71 | 1/8/2020 15:12 | 0   | 0.1 | 0   |
| 72 | 1/8/2020 15:13 | 0   | 0.1 | 0   |
| 73 | 1/8/2020 15:14 | 0   | 0   | 0   |
| 74 | 1/8/2020 15:15 | 0   | 0.1 | 0   |
| 75 | 1/8/2020 15:16 | 0   | 0.1 | 0.1 |
| 76 | 1/8/2020 15:17 | 0   | 0   | 0   |
| 77 | 1/8/2020 15:18 | 0   | 0   | 0   |
| 78 | 1/8/2020 15:19 | 0   | 0.1 | 0   |
| 79 | 1/8/2020 15:20 | 0   | 0   | 0   |
| 80 | 1/8/2020 15:21 | 0   | 0.1 | 0   |
| 81 | 1/8/2020 15:22 | 0   | 0   | 0   |
| 82 | 1/8/2020 15:23 | 0   | 0.1 | 0   |
| 83 | 1/8/2020 15:24 | 0   | 0.1 | 0.1 |
| 84 | 1/8/2020 15:25 | 0   | 0.1 | 0.1 |
| 85 | 1/8/2020 15:26 | 0.1 | 0.1 | 0.1 |
| 86 | 1/8/2020 15:27 | 0.1 | 0.1 | 0   |
| 87 | 1/8/2020 15:28 | 0.1 | 0.1 | 0.1 |
| 88 | 1/8/2020 15:29 | 0.1 | 0.1 | 0   |
| 89 | 1/8/2020 15:30 | 0.1 | 0.1 | 0   |
| 90 | 1/8/2020 15:31 | 0.1 | 0.1 | 0   |
| 91 | 1/8/2020 15:32 | 0   | 0.1 | 0.1 |
| 92 | 1/8/2020 15:33 | 0   | 0.1 | 0   |
| 93 | 1/8/2020 15:34 | 0   | 0.1 | 0.1 |
| 94 | 1/8/2020 15:35 | 0.1 | 0.1 | 0   |
| 95 | 1/8/2020 15:36 | 0.1 | 0.1 | 0.1 |
| 96 | 1/8/2020 15:37 | 0.1 | 0.1 | 0   |
| 97 | 1/8/2020 15:38 | 0   | 0.1 | 0   |
| 98 | 1/8/2020 15:39 | 0   | 0.1 | 0.1 |
| 99 | 1/8/2020 15:40 | 0   | 0.1 | 0   |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 100     | 1/8/2020 15:41 | 0.1 | 0.1 | 0.1 |
| 101     | 1/8/2020 15:42 | 0   | 0.1 | 0   |
| 102     | 1/8/2020 15:43 | 0.1 | 0.1 | 0.1 |
| 103     | 1/8/2020 15:44 | 0.1 | 0.1 | 0.1 |
| 104     | 1/8/2020 15:45 | 0.1 | 0.1 | 0   |
| 105     | 1/8/2020 15:46 | 0.1 | 0.1 | 0.1 |
| 106     | 1/8/2020 15:47 | 0.1 | 0.1 | 0.1 |
| 107     | 1/8/2020 15:48 | 0.1 | 0.1 | 0.1 |
| 108     | 1/8/2020 15:49 | 0.1 | 0.1 | 0.1 |
| 109     | 1/8/2020 15:50 | 0.1 | 0.1 | 0.1 |
| 110     | 1/8/2020 15:51 | 0.1 | 0.1 | 0.1 |
| 111     | 1/8/2020 15:52 | 0.1 | 0.1 | 0.1 |
| 112     | 1/8/2020 15:53 | 0.1 | 0.1 | 0.1 |
| 113     | 1/8/2020 15:54 | 0.1 | 0.1 | 0.1 |
| 114     | 1/8/2020 15:55 | 0.1 | 0.1 | 0.1 |
| 115     | 1/8/2020 15:56 | 0.1 | 0.1 | 0.1 |
| 116     | 1/8/2020 15:57 | 0.1 | 0.1 | 0.1 |
| 117     | 1/8/2020 15:58 | 0.1 | 0.1 | 0.1 |
| 118     | 1/8/2020 15:59 | 0.1 | 0.1 | 0.1 |
| 119     | 1/8/2020 16:00 | 0.1 | 0.1 | 0.1 |
| 120     | 1/8/2020 16:01 | 0.1 | 0.1 | 0.1 |
| 121     | 1/8/2020 16:02 | 0.1 | 0.1 | 0.1 |
| 122     | 1/8/2020 16:03 | 0.1 | 0.1 | 0   |
| 123     | 1/8/2020 16:04 | 0.1 | 0.1 | 0.1 |
| Peak    |                | 0.2 | 0.2 | 0.1 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0   | 0.1 | 0   |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/8/2020 14:02 | 0                 | ---                |
| 2     | 1/8/2020 14:03 | 0                 | ---                |
| 3     | 1/8/2020 14:04 | 0                 | ---                |
| 4     | 1/8/2020 14:05 | 0                 | ---                |
| 5     | 1/8/2020 14:06 | 0                 | ---                |
| 6     | 1/8/2020 14:07 | 0                 | ---                |
| 7     | 1/8/2020 14:08 | 0                 | ---                |
| 8     | 1/8/2020 14:09 | 0                 | ---                |
| 9     | 1/8/2020 14:10 | 0                 | ---                |
| 10    | 1/8/2020 14:11 | 0                 | ---                |
| 11    | 1/8/2020 14:12 | 0                 | ---                |
| 12    | 1/8/2020 14:13 | 0                 | ---                |
| 13    | 1/8/2020 14:14 | 0                 | ---                |
| 14    | 1/8/2020 14:15 | 0                 | ---                |
| 15    | 1/8/2020 14:16 | 0                 | 0                  |



|    |                |   |   |
|----|----------------|---|---|
| 16 | 1/8/2020 14:17 | 0 | 0 |
| 17 | 1/8/2020 14:18 | 0 | 0 |
| 18 | 1/8/2020 14:19 | 0 | 0 |
| 19 | 1/8/2020 14:20 | 0 | 0 |
| 20 | 1/8/2020 14:21 | 0 | 0 |
| 21 | 1/8/2020 14:22 | 0 | 0 |
| 22 | 1/8/2020 14:23 | 0 | 0 |
| 23 | 1/8/2020 14:24 | 0 | 0 |
| 24 | 1/8/2020 14:25 | 0 | 0 |
| 25 | 1/8/2020 14:26 | 0 | 0 |
| 26 | 1/8/2020 14:27 | 0 | 0 |
| 27 | 1/8/2020 14:28 | 0 | 0 |
| 28 | 1/8/2020 14:29 | 0 | 0 |
| 29 | 1/8/2020 14:30 | 0 | 0 |
| 30 | 1/8/2020 14:31 | 0 | 0 |
| 31 | 1/8/2020 14:32 | 0 | 0 |
| 32 | 1/8/2020 14:33 | 0 | 0 |
| 33 | 1/8/2020 14:34 | 0 | 0 |
| 34 | 1/8/2020 14:35 | 0 | 0 |
| 35 | 1/8/2020 14:36 | 0 | 0 |
| 36 | 1/8/2020 14:37 | 0 | 0 |
| 37 | 1/8/2020 14:38 | 0 | 0 |
| 38 | 1/8/2020 14:39 | 0 | 0 |
| 39 | 1/8/2020 14:40 | 0 | 0 |
| 40 | 1/8/2020 14:41 | 0 | 0 |
| 41 | 1/8/2020 14:42 | 0 | 0 |
| 42 | 1/8/2020 14:43 | 0 | 0 |
| 43 | 1/8/2020 14:44 | 0 | 0 |
| 44 | 1/8/2020 14:45 | 0 | 0 |
| 45 | 1/8/2020 14:46 | 0 | 0 |
| 46 | 1/8/2020 14:47 | 0 | 0 |
| 47 | 1/8/2020 14:48 | 0 | 0 |
| 48 | 1/8/2020 14:49 | 0 | 0 |
| 49 | 1/8/2020 14:50 | 0 | 0 |
| 50 | 1/8/2020 14:51 | 0 | 0 |
| 51 | 1/8/2020 14:52 | 0 | 0 |
| 52 | 1/8/2020 14:53 | 0 | 0 |
| 53 | 1/8/2020 14:54 | 0 | 0 |
| 54 | 1/8/2020 14:55 | 0 | 0 |
| 55 | 1/8/2020 14:56 | 0 | 0 |
| 56 | 1/8/2020 14:57 | 0 | 0 |
| 57 | 1/8/2020 14:58 | 0 | 0 |
| 58 | 1/8/2020 14:59 | 0 | 0 |
| 59 | 1/8/2020 15:00 | 0 | 0 |
| 60 | 1/8/2020 15:01 | 0 | 0 |
| 61 | 1/8/2020 15:02 | 0 | 0 |
| 62 | 1/8/2020 15:03 | 0 | 0 |

|     |                |   |     |
|-----|----------------|---|-----|
| 63  | 1/8/2020 15:04 | 0 | 0   |
| 64  | 1/8/2020 15:05 | 0 | 0   |
| 65  | 1/8/2020 15:06 | 0 | 0   |
| 66  | 1/8/2020 15:07 | 0 | 0   |
| 67  | 1/8/2020 15:08 | 0 | 0   |
| 68  | 1/8/2020 15:09 | 0 | 0   |
| 69  | 1/8/2020 15:10 | 0 | 0.1 |
| 70  | 1/8/2020 15:11 | 0 | 0.1 |
| 71  | 1/8/2020 15:12 | 0 | 0   |
| 72  | 1/8/2020 15:13 | 0 | 0   |
| 73  | 1/8/2020 15:14 | 0 | 0   |
| 74  | 1/8/2020 15:15 | 0 | 0   |
| 75  | 1/8/2020 15:16 | 0 | 0   |
| 76  | 1/8/2020 15:17 | 0 | 0   |
| 77  | 1/8/2020 15:18 | 0 | 0   |
| 78  | 1/8/2020 15:19 | 0 | 0   |
| 79  | 1/8/2020 15:20 | 0 | 0   |
| 80  | 1/8/2020 15:21 | 0 | 0   |
| 81  | 1/8/2020 15:22 | 0 | 0   |
| 82  | 1/8/2020 15:23 | 0 | 0   |
| 83  | 1/8/2020 15:24 | 0 | 0   |
| 84  | 1/8/2020 15:25 | 0 | 0   |
| 85  | 1/8/2020 15:26 | 0 | 0   |
| 86  | 1/8/2020 15:27 | 0 | 0   |
| 87  | 1/8/2020 15:28 | 0 | 0   |
| 88  | 1/8/2020 15:29 | 0 | 0   |
| 89  | 1/8/2020 15:30 | 0 | 0   |
| 90  | 1/8/2020 15:31 | 0 | 0   |
| 91  | 1/8/2020 15:32 | 0 | 0   |
| 92  | 1/8/2020 15:33 | 0 | 0   |
| 93  | 1/8/2020 15:34 | 0 | 0   |
| 94  | 1/8/2020 15:35 | 0 | 0   |
| 95  | 1/8/2020 15:36 | 0 | 0   |
| 96  | 1/8/2020 15:37 | 0 | 0   |
| 97  | 1/8/2020 15:38 | 0 | 0   |
| 98  | 1/8/2020 15:39 | 0 | 0.1 |
| 99  | 1/8/2020 15:40 | 0 | 0   |
| 100 | 1/8/2020 15:41 | 0 | 0   |
| 101 | 1/8/2020 15:42 | 0 | 0   |
| 102 | 1/8/2020 15:43 | 0 | 0   |
| 103 | 1/8/2020 15:44 | 0 | 0   |
| 104 | 1/8/2020 15:45 | 0 | 0   |
| 105 | 1/8/2020 15:46 | 0 | 0.1 |
| 106 | 1/8/2020 15:47 | 0 | 0.1 |
| 107 | 1/8/2020 15:48 | 0 | 0.1 |
| 108 | 1/8/2020 15:49 | 0 | 0.1 |
| 109 | 1/8/2020 15:50 | 0 | 0.1 |

|     |                |   |     |
|-----|----------------|---|-----|
| 110 | 1/8/2020 15:51 | 0 | 0.1 |
| 111 | 1/8/2020 15:52 | 0 | 0.1 |
| 112 | 1/8/2020 15:53 | 0 | 0.1 |
| 113 | 1/8/2020 15:54 | 0 | 0.1 |
| 114 | 1/8/2020 15:55 | 0 | 0.1 |
| 115 | 1/8/2020 15:56 | 0 | 0.1 |
| 116 | 1/8/2020 15:57 | 0 | 0.1 |
| 117 | 1/8/2020 15:58 | 0 | 0.1 |
| 118 | 1/8/2020 15:59 | 0 | 0.1 |
| 119 | 1/8/2020 16:00 | 0 | 0.1 |
| 120 | 1/8/2020 16:01 | 0 | 0.1 |
| 121 | 1/8/2020 16:02 | 0 | 0.1 |
| 122 | 1/8/2020 16:03 | 0 | 0.1 |
| 123 | 1/8/2020 16:04 | 0 | 0.1 |

=====  
20/01/09 08:45  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-910712  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/9/2020 8:45  
End 1/9/2020 10:23  
Sample Per 60  
Number of 98  
-----

Sensor PID(ppm)  
Sensor SN S023030021Q5  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 1/3/2020 12:41  
Peak 0.2  
Min 0.1  
Average 0.1

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Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 1/9/2020 8:46 | 0.2               | 0.4               | 0.2                |
| 2     | 1/9/2020 8:47 | 0.2               | 0.2               | 0.2                |
| 3     | 1/9/2020 8:48 | 0.2               | 0.2               | 0.2                |
| 4     | 1/9/2020 8:49 | 0.2               | 0.2               | 0.2                |
| 5     | 1/9/2020 8:50 | 0.2               | 0.2               | 0.2                |

|    |               |     |     |     |
|----|---------------|-----|-----|-----|
| 6  | 1/9/2020 8:51 | 0.2 | 0.2 | 0.2 |
| 7  | 1/9/2020 8:52 | 0.2 | 0.2 | 0.2 |
| 8  | 1/9/2020 8:53 | 0.2 | 0.2 | 0.2 |
| 9  | 1/9/2020 8:54 | 0.2 | 0.2 | 0.2 |
| 10 | 1/9/2020 8:55 | 0.2 | 0.2 | 0.2 |
| 11 | 1/9/2020 8:56 | 0.2 | 0.2 | 0.2 |
| 12 | 1/9/2020 8:57 | 0.2 | 0.2 | 0.2 |
| 13 | 1/9/2020 8:58 | 0.2 | 0.2 | 0.2 |
| 14 | 1/9/2020 8:59 | 0.2 | 0.2 | 0.2 |
| 15 | 1/9/2020 9:00 | 0.2 | 0.2 | 0.2 |
| 16 | 1/9/2020 9:01 | 0.2 | 0.2 | 0.2 |
| 17 | 1/9/2020 9:02 | 0.2 | 0.2 | 0.2 |
| 18 | 1/9/2020 9:03 | 0.2 | 0.2 | 0.2 |
| 19 | 1/9/2020 9:04 | 0.2 | 0.2 | 0.2 |
| 20 | 1/9/2020 9:05 | 0.2 | 0.2 | 0.2 |
| 21 | 1/9/2020 9:06 | 0.2 | 0.2 | 0.2 |
| 22 | 1/9/2020 9:07 | 0.2 | 0.2 | 0.2 |
| 23 | 1/9/2020 9:08 | 0.2 | 0.2 | 0.2 |
| 24 | 1/9/2020 9:09 | 0.2 | 0.2 | 0.2 |
| 25 | 1/9/2020 9:10 | 0.2 | 0.2 | 0.2 |
| 26 | 1/9/2020 9:11 | 0.2 | 0.2 | 0.2 |
| 27 | 1/9/2020 9:12 | 0.2 | 0.2 | 0.2 |
| 28 | 1/9/2020 9:13 | 0.2 | 0.2 | 0.2 |
| 29 | 1/9/2020 9:14 | 0.2 | 0.2 | 0.2 |
| 30 | 1/9/2020 9:15 | 0.2 | 0.2 | 0.2 |
| 31 | 1/9/2020 9:16 | 0.2 | 0.2 | 0.2 |
| 32 | 1/9/2020 9:17 | 0.2 | 0.2 | 0.2 |
| 33 | 1/9/2020 9:18 | 0.2 | 0.2 | 0.2 |
| 34 | 1/9/2020 9:19 | 0.2 | 0.2 | 0.2 |
| 35 | 1/9/2020 9:20 | 0.2 | 0.2 | 0.2 |
| 36 | 1/9/2020 9:21 | 0.2 | 0.2 | 0.2 |
| 37 | 1/9/2020 9:22 | 0.2 | 0.2 | 0.2 |
| 38 | 1/9/2020 9:23 | 0.2 | 0.2 | 0.2 |
| 39 | 1/9/2020 9:24 | 0.1 | 0.2 | 0.1 |
| 40 | 1/9/2020 9:25 | 0.1 | 0.1 | 0.1 |
| 41 | 1/9/2020 9:26 | 0.1 | 0.1 | 0.1 |
| 42 | 1/9/2020 9:27 | 0.1 | 0.2 | 0.1 |
| 43 | 1/9/2020 9:28 | 0.1 | 0.2 | 0.1 |
| 44 | 1/9/2020 9:29 | 0.1 | 0.1 | 0.1 |
| 45 | 1/9/2020 9:30 | 0.1 | 0.1 | 0.1 |
| 46 | 1/9/2020 9:31 | 0.1 | 0.1 | 0.1 |
| 47 | 1/9/2020 9:32 | 0.1 | 0.1 | 0.1 |
| 48 | 1/9/2020 9:33 | 0.1 | 0.1 | 0.1 |
| 49 | 1/9/2020 9:34 | 0.1 | 0.1 | 0.1 |
| 50 | 1/9/2020 9:35 | 0.1 | 0.1 | 0.1 |
| 51 | 1/9/2020 9:36 | 0.1 | 0.1 | 0.1 |
| 52 | 1/9/2020 9:37 | 0.1 | 0.1 | 0.1 |

|      |                |     |     |     |
|------|----------------|-----|-----|-----|
| 53   | 1/9/2020 9:38  | 0.1 | 0.1 | 0.1 |
| 54   | 1/9/2020 9:39  | 0.1 | 0.1 | 0.1 |
| 55   | 1/9/2020 9:40  | 0.1 | 0.1 | 0.1 |
| 56   | 1/9/2020 9:41  | 0.1 | 0.1 | 0.1 |
| 57   | 1/9/2020 9:42  | 0.1 | 0.1 | 0.1 |
| 58   | 1/9/2020 9:43  | 0.1 | 0.1 | 0.1 |
| 59   | 1/9/2020 9:44  | 0.1 | 0.1 | 0.1 |
| 60   | 1/9/2020 9:45  | 0.1 | 0.1 | 0.1 |
| 61   | 1/9/2020 9:46  | 0.1 | 0.1 | 0.1 |
| 62   | 1/9/2020 9:47  | 0.1 | 0.1 | 0.1 |
| 63   | 1/9/2020 9:48  | 0.1 | 0.1 | 0.1 |
| 64   | 1/9/2020 9:49  | 0.1 | 0.1 | 0.1 |
| 65   | 1/9/2020 9:50  | 0.1 | 0.1 | 0.1 |
| 66   | 1/9/2020 9:51  | 0.1 | 0.1 | 0.1 |
| 67   | 1/9/2020 9:52  | 0.1 | 0.1 | 0.1 |
| 68   | 1/9/2020 9:53  | 0.1 | 0.1 | 0.1 |
| 69   | 1/9/2020 9:54  | 0.1 | 0.1 | 0.1 |
| 70   | 1/9/2020 9:55  | 0.1 | 0.1 | 0.1 |
| 71   | 1/9/2020 9:56  | 0.1 | 0.1 | 0.1 |
| 72   | 1/9/2020 9:57  | 0.1 | 0.1 | 0.1 |
| 73   | 1/9/2020 9:58  | 0.1 | 0.1 | 0.1 |
| 74   | 1/9/2020 9:59  | 0.1 | 0.1 | 0.1 |
| 75   | 1/9/2020 10:00 | 0.1 | 0.1 | 0.1 |
| 76   | 1/9/2020 10:01 | 0.1 | 0.1 | 0.1 |
| 77   | 1/9/2020 10:02 | 0.1 | 0.1 | 0.1 |
| 78   | 1/9/2020 10:03 | 0.1 | 0.1 | 0.1 |
| 79   | 1/9/2020 10:04 | 0.1 | 0.1 | 0.1 |
| 80   | 1/9/2020 10:05 | 0.1 | 0.1 | 0.1 |
| 81   | 1/9/2020 10:06 | 0.1 | 0.1 | 0.1 |
| 82   | 1/9/2020 10:07 | 0.1 | 0.1 | 0.1 |
| 83   | 1/9/2020 10:08 | 0.1 | 0.1 | 0.1 |
| 84   | 1/9/2020 10:09 | 0.1 | 0.1 | 0.1 |
| 85   | 1/9/2020 10:10 | 0.1 | 0.1 | 0.1 |
| 86   | 1/9/2020 10:11 | 0.1 | 0.1 | 0.1 |
| 87   | 1/9/2020 10:12 | 0.1 | 0.1 | 0.1 |
| 88   | 1/9/2020 10:13 | 0.1 | 0.1 | 0.1 |
| 89   | 1/9/2020 10:14 | 0.1 | 0.1 | 0.1 |
| 90   | 1/9/2020 10:15 | 0.1 | 0.1 | 0.1 |
| 91   | 1/9/2020 10:16 | 0.1 | 0.1 | 0.1 |
| 92   | 1/9/2020 10:17 | 0.1 | 0.1 | 0.1 |
| 93   | 1/9/2020 10:18 | 0.1 | 0.1 | 0.1 |
| 94   | 1/9/2020 10:19 | 0.1 | 0.1 | 0.1 |
| 95   | 1/9/2020 10:20 | 0.1 | 0.1 | 0.1 |
| 96   | 1/9/2020 10:21 | 0.1 | 0.1 | 0.1 |
| 97   | 1/9/2020 10:22 | 0.1 | 0.1 | 0.1 |
| 98   | 1/9/2020 10:23 | 0.1 | 0.1 | 0.1 |
| Peak |                | 0.2 | 0.4 | 0.2 |

|         |     |     |     |
|---------|-----|-----|-----|
| Min     | 0.1 | 0.1 | 0.1 |
| Average | 0.1 | 0.1 | 0.1 |

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# TWA/STEL

| Index | Date/Time     | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|---------------|-------------------|--------------------|
| 1     | 1/9/2020 8:46 | 0                 | ---                |
| 2     | 1/9/2020 8:47 | 0                 | ---                |
| 3     | 1/9/2020 8:48 | 0                 | ---                |
| 4     | 1/9/2020 8:49 | 0                 | ---                |
| 5     | 1/9/2020 8:50 | 0                 | ---                |
| 6     | 1/9/2020 8:51 | 0                 | ---                |
| 7     | 1/9/2020 8:52 | 0                 | ---                |
| 8     | 1/9/2020 8:53 | 0                 | ---                |
| 9     | 1/9/2020 8:54 | 0                 | ---                |
| 10    | 1/9/2020 8:55 | 0                 | ---                |
| 11    | 1/9/2020 8:56 | 0                 | ---                |
| 12    | 1/9/2020 8:57 | 0                 | ---                |
| 13    | 1/9/2020 8:58 | 0                 | ---                |
| 14    | 1/9/2020 8:59 | 0                 | ---                |
| 15    | 1/9/2020 9:00 | 0                 | 0.2                |
| 16    | 1/9/2020 9:01 | 0                 | 0.2                |
| 17    | 1/9/2020 9:02 | 0                 | 0.2                |
| 18    | 1/9/2020 9:03 | 0                 | 0.2                |
| 19    | 1/9/2020 9:04 | 0                 | 0.2                |
| 20    | 1/9/2020 9:05 | 0                 | 0.2                |
| 21    | 1/9/2020 9:06 | 0                 | 0.2                |
| 22    | 1/9/2020 9:07 | 0                 | 0.2                |
| 23    | 1/9/2020 9:08 | 0                 | 0.2                |
| 24    | 1/9/2020 9:09 | 0                 | 0.2                |
| 25    | 1/9/2020 9:10 | 0                 | 0.2                |
| 26    | 1/9/2020 9:11 | 0                 | 0.2                |
| 27    | 1/9/2020 9:12 | 0                 | 0.2                |
| 28    | 1/9/2020 9:13 | 0                 | 0.2                |
| 29    | 1/9/2020 9:14 | 0                 | 0.2                |
| 30    | 1/9/2020 9:15 | 0                 | 0.2                |
| 31    | 1/9/2020 9:16 | 0                 | 0.2                |
| 32    | 1/9/2020 9:17 | 0                 | 0.2                |
| 33    | 1/9/2020 9:18 | 0                 | 0.2                |
| 34    | 1/9/2020 9:19 | 0                 | 0.2                |
| 35    | 1/9/2020 9:20 | 0                 | 0.2                |
| 36    | 1/9/2020 9:21 | 0                 | 0.2                |
| 37    | 1/9/2020 9:22 | 0                 | 0.2                |
| 38    | 1/9/2020 9:23 | 0                 | 0.2                |
| 39    | 1/9/2020 9:24 | 0                 | 0.2                |
| 40    | 1/9/2020 9:25 | 0                 | 0.2                |

|    |                |   |     |
|----|----------------|---|-----|
| 41 | 1/9/2020 9:26  | 0 | 0.2 |
| 42 | 1/9/2020 9:27  | 0 | 0.2 |
| 43 | 1/9/2020 9:28  | 0 | 0.2 |
| 44 | 1/9/2020 9:29  | 0 | 0.2 |
| 45 | 1/9/2020 9:30  | 0 | 0.2 |
| 46 | 1/9/2020 9:31  | 0 | 0.2 |
| 47 | 1/9/2020 9:32  | 0 | 0.2 |
| 48 | 1/9/2020 9:33  | 0 | 0.1 |
| 49 | 1/9/2020 9:34  | 0 | 0.1 |
| 50 | 1/9/2020 9:35  | 0 | 0.1 |
| 51 | 1/9/2020 9:36  | 0 | 0.1 |
| 52 | 1/9/2020 9:37  | 0 | 0.1 |
| 53 | 1/9/2020 9:38  | 0 | 0.1 |
| 54 | 1/9/2020 9:39  | 0 | 0.1 |
| 55 | 1/9/2020 9:40  | 0 | 0.1 |
| 56 | 1/9/2020 9:41  | 0 | 0.1 |
| 57 | 1/9/2020 9:42  | 0 | 0.1 |
| 58 | 1/9/2020 9:43  | 0 | 0.1 |
| 59 | 1/9/2020 9:44  | 0 | 0.1 |
| 60 | 1/9/2020 9:45  | 0 | 0.1 |
| 61 | 1/9/2020 9:46  | 0 | 0.1 |
| 62 | 1/9/2020 9:47  | 0 | 0.1 |
| 63 | 1/9/2020 9:48  | 0 | 0.1 |
| 64 | 1/9/2020 9:49  | 0 | 0.1 |
| 65 | 1/9/2020 9:50  | 0 | 0.1 |
| 66 | 1/9/2020 9:51  | 0 | 0.1 |
| 67 | 1/9/2020 9:52  | 0 | 0.1 |
| 68 | 1/9/2020 9:53  | 0 | 0.1 |
| 69 | 1/9/2020 9:54  | 0 | 0.1 |
| 70 | 1/9/2020 9:55  | 0 | 0.1 |
| 71 | 1/9/2020 9:56  | 0 | 0.1 |
| 72 | 1/9/2020 9:57  | 0 | 0.1 |
| 73 | 1/9/2020 9:58  | 0 | 0.1 |
| 74 | 1/9/2020 9:59  | 0 | 0.1 |
| 75 | 1/9/2020 10:00 | 0 | 0.1 |
| 76 | 1/9/2020 10:01 | 0 | 0.1 |
| 77 | 1/9/2020 10:02 | 0 | 0.1 |
| 78 | 1/9/2020 10:03 | 0 | 0.1 |
| 79 | 1/9/2020 10:04 | 0 | 0.1 |
| 80 | 1/9/2020 10:05 | 0 | 0.1 |
| 81 | 1/9/2020 10:06 | 0 | 0.1 |
| 82 | 1/9/2020 10:07 | 0 | 0.1 |
| 83 | 1/9/2020 10:08 | 0 | 0.1 |
| 84 | 1/9/2020 10:09 | 0 | 0.1 |
| 85 | 1/9/2020 10:10 | 0 | 0.1 |
| 86 | 1/9/2020 10:11 | 0 | 0.1 |
| 87 | 1/9/2020 10:12 | 0 | 0.1 |



|    |                |   |     |
|----|----------------|---|-----|
| 88 | 1/9/2020 10:13 | 0 | 0.1 |
| 89 | 1/9/2020 10:14 | 0 | 0.1 |
| 90 | 1/9/2020 10:15 | 0 | 0.1 |
| 91 | 1/9/2020 10:16 | 0 | 0.1 |
| 92 | 1/9/2020 10:17 | 0 | 0.1 |
| 93 | 1/9/2020 10:18 | 0 | 0.1 |
| 94 | 1/9/2020 10:19 | 0 | 0.1 |
| 95 | 1/9/2020 10:20 | 0 | 0.1 |
| 96 | 1/9/2020 10:21 | 0 | 0.1 |
| 97 | 1/9/2020 10:22 | 0 | 0.1 |
| 98 | 1/9/2020 10:23 | 0 | 0.1 |

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20/01/09 11:05

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Battery Low

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Site ID 12345678

User ID 12345678

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Begin 1/9/2020 11:05

End 1/9/2020 12:22

Sample Per 60

Number of 76

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Sensor PID(ppm)

Sensor SN S023030021Q5

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0

Average 0.1

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/9/2020 11:06 | 0                 | 0.1               | 0                  |
| 2     | 1/9/2020 11:07 | 0.1               | 0.1               | 0.1                |
| 3     | 1/9/2020 11:08 | 0.1               | 0.1               | 0.1                |
| 4     | 1/9/2020 11:09 | 0.1               | 0.1               | 0.1                |
| 5     | 1/9/2020 11:10 | 0.1               | 0.1               | 0.1                |

|    |                |     |     |     |
|----|----------------|-----|-----|-----|
| 6  | 1/9/2020 11:11 | 0.1 | 0.1 | 0.1 |
| 7  | 1/9/2020 11:12 | 0.1 | 0.1 | 0.1 |
| 8  | 1/9/2020 11:13 | 0.1 | 0.1 | 0.1 |
| 9  | 1/9/2020 11:14 | 0.1 | 0.1 | 0.1 |
| 10 | 1/9/2020 11:15 | 0.1 | 0.1 | 0.1 |
| 11 | 1/9/2020 11:16 | 0.1 | 0.1 | 0.1 |
| 12 | 1/9/2020 11:17 | 0.1 | 0.1 | 0.1 |
| 13 | 1/9/2020 11:18 | 0.1 | 0.1 | 0.1 |
| 14 | 1/9/2020 11:19 | 0.1 | 0.1 | 0.1 |
| 15 | 1/9/2020 11:20 | 0.1 | 0.1 | 0.1 |
| 16 | 1/9/2020 11:21 | 0.1 | 0.1 | 0.1 |
| 17 | 1/9/2020 11:22 | 0.1 | 0.1 | 0.1 |
| 18 | 1/9/2020 11:23 | 0.1 | 0.1 | 0.1 |
| 19 | 1/9/2020 11:24 | 0.1 | 0.1 | 0.1 |
| 20 | 1/9/2020 11:25 | 0.1 | 0.1 | 0.1 |
| 21 | 1/9/2020 11:26 | 0.1 | 0.1 | 0.1 |
| 22 | 1/9/2020 11:27 | 0.1 | 0.1 | 0.1 |
| 23 | 1/9/2020 11:28 | 0.1 | 0.1 | 0.1 |
| 24 | 1/9/2020 11:29 | 0.1 | 0.1 | 0.1 |
| 25 | 1/9/2020 11:30 | 0.1 | 0.1 | 0.1 |
| 26 | 1/9/2020 11:31 | 0.1 | 0.1 | 0.1 |
| 27 | 1/9/2020 11:32 | 0.1 | 0.1 | 0.1 |
| 28 | 1/9/2020 11:33 | 0.1 | 0.1 | 0.1 |
| 29 | 1/9/2020 11:34 | 0.1 | 0.1 | 0.1 |
| 30 | 1/9/2020 11:35 | 0.1 | 0.1 | 0.1 |
| 31 | 1/9/2020 11:36 | 0.1 | 0.1 | 0.1 |
| 32 | 1/9/2020 11:37 | 0.1 | 0.1 | 0.1 |
| 33 | 1/9/2020 11:38 | 0.1 | 0.1 | 0.1 |
| 34 | 1/9/2020 11:39 | 0.1 | 0.1 | 0.1 |
| 35 | 1/9/2020 11:40 | 0.1 | 0.1 | 0.1 |
| 36 | 1/9/2020 11:41 | 0.1 | 0.1 | 0.1 |
| 37 | 1/9/2020 11:42 | 0.1 | 0.1 | 0.1 |
| 38 | 1/9/2020 11:43 | 0.1 | 0.1 | 0.1 |
| 39 | 1/9/2020 11:44 | 0.1 | 0.1 | 0.1 |
| 40 | 1/9/2020 11:45 | 0.1 | 0.1 | 0.1 |
| 41 | 1/9/2020 11:46 | 0.1 | 0.1 | 0.1 |
| 42 | 1/9/2020 11:47 | 0.1 | 0.1 | 0.1 |
| 43 | 1/9/2020 11:48 | 0.1 | 0.1 | 0.1 |
| 44 | 1/9/2020 11:49 | 0.1 | 0.1 | 0.1 |
| 45 | 1/9/2020 11:50 | 0.1 | 0.1 | 0.1 |
| 46 | 1/9/2020 11:51 | 0.1 | 0.1 | 0.1 |
| 47 | 1/9/2020 11:52 | 0.1 | 0.1 | 0.1 |
| 48 | 1/9/2020 11:53 | 0.1 | 0.1 | 0.1 |
| 49 | 1/9/2020 11:54 | 0.1 | 0.1 | 0.1 |
| 50 | 1/9/2020 11:55 | 0.1 | 0.1 | 0.1 |
| 51 | 1/9/2020 11:56 | 0.1 | 0.1 | 0.1 |
| 52 | 1/9/2020 11:57 | 0.1 | 0.1 | 0.1 |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 53      | 1/9/2020 11:58 | 0.1 | 0.1 | 0.1 |
| 54      | 1/9/2020 11:59 | 0.1 | 0.1 | 0.1 |
| 55      | 1/9/2020 12:00 | 0.1 | 0.1 | 0.1 |
| 56      | 1/9/2020 12:01 | 0.1 | 0.1 | 0.1 |
| 57      | 1/9/2020 12:02 | 0.1 | 0.1 | 0.1 |
| 58      | 1/9/2020 12:03 | 0.1 | 0.1 | 0.1 |
| 59      | 1/9/2020 12:04 | 0.1 | 0.1 | 0.1 |
| 60      | 1/9/2020 12:05 | 0.1 | 0.1 | 0.1 |
| 61      | 1/9/2020 12:06 | 0.1 | 0.1 | 0.1 |
| 62      | 1/9/2020 12:07 | 0.1 | 0.1 | 0.1 |
| 63      | 1/9/2020 12:08 | 0.1 | 0.1 | 0.1 |
| 64      | 1/9/2020 12:09 | 0.1 | 0.1 | 0.1 |
| 65      | 1/9/2020 12:10 | 0.1 | 0.1 | 0.1 |
| 66      | 1/9/2020 12:11 | 0.1 | 0.1 | 0.1 |
| 67      | 1/9/2020 12:12 | 0.1 | 0.1 | 0.1 |
| 68      | 1/9/2020 12:13 | 0.1 | 0.2 | 0.1 |
| 69      | 1/9/2020 12:14 | 0.1 | 0.1 | 0.1 |
| 70      | 1/9/2020 12:15 | 0.1 | 0.2 | 0.1 |
| 71      | 1/9/2020 12:16 | 0.1 | 0.1 | 0.1 |
| 72      | 1/9/2020 12:17 | 0.1 | 0.2 | 0.1 |
| 73      | 1/9/2020 12:18 | 0.1 | 0.1 | 0.1 |
| 74      | 1/9/2020 12:19 | 0.1 | 0.1 | 0.1 |
| 75      | 1/9/2020 12:20 | 0.1 | 0.1 | 0.1 |
| 76      | 1/9/2020 12:21 | 0.1 | 0.1 | 0.1 |
| Peak    |                | 0.1 | 0.2 | 0.1 |
| Min     |                | 0   | 0.1 | 0   |
| Average |                | 0.1 | 0.1 | 0.1 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/9/2020 11:06 | 0                 | ---                |
| 2     | 1/9/2020 11:07 | 0                 | ---                |
| 3     | 1/9/2020 11:08 | 0                 | ---                |
| 4     | 1/9/2020 11:09 | 0                 | ---                |
| 5     | 1/9/2020 11:10 | 0                 | ---                |
| 6     | 1/9/2020 11:11 | 0                 | ---                |
| 7     | 1/9/2020 11:12 | 0                 | ---                |
| 8     | 1/9/2020 11:13 | 0                 | ---                |
| 9     | 1/9/2020 11:14 | 0                 | ---                |
| 10    | 1/9/2020 11:15 | 0                 | ---                |
| 11    | 1/9/2020 11:16 | 0                 | ---                |
| 12    | 1/9/2020 11:17 | 0                 | ---                |
| 13    | 1/9/2020 11:18 | 0                 | ---                |
| 14    | 1/9/2020 11:19 | 0                 | ---                |
| 15    | 1/9/2020 11:20 | 0                 | 0.1                |

|    |                |   |     |
|----|----------------|---|-----|
| 16 | 1/9/2020 11:21 | 0 | 0.1 |
| 17 | 1/9/2020 11:22 | 0 | 0.1 |
| 18 | 1/9/2020 11:23 | 0 | 0.1 |
| 19 | 1/9/2020 11:24 | 0 | 0.1 |
| 20 | 1/9/2020 11:25 | 0 | 0.1 |
| 21 | 1/9/2020 11:26 | 0 | 0.1 |
| 22 | 1/9/2020 11:27 | 0 | 0.1 |
| 23 | 1/9/2020 11:28 | 0 | 0.1 |
| 24 | 1/9/2020 11:29 | 0 | 0.1 |
| 25 | 1/9/2020 11:30 | 0 | 0.1 |
| 26 | 1/9/2020 11:31 | 0 | 0.1 |
| 27 | 1/9/2020 11:32 | 0 | 0.1 |
| 28 | 1/9/2020 11:33 | 0 | 0.1 |
| 29 | 1/9/2020 11:34 | 0 | 0.1 |
| 30 | 1/9/2020 11:35 | 0 | 0.1 |
| 31 | 1/9/2020 11:36 | 0 | 0.1 |
| 32 | 1/9/2020 11:37 | 0 | 0.1 |
| 33 | 1/9/2020 11:38 | 0 | 0.1 |
| 34 | 1/9/2020 11:39 | 0 | 0.1 |
| 35 | 1/9/2020 11:40 | 0 | 0.1 |
| 36 | 1/9/2020 11:41 | 0 | 0.1 |
| 37 | 1/9/2020 11:42 | 0 | 0.1 |
| 38 | 1/9/2020 11:43 | 0 | 0.1 |
| 39 | 1/9/2020 11:44 | 0 | 0.1 |
| 40 | 1/9/2020 11:45 | 0 | 0.1 |
| 41 | 1/9/2020 11:46 | 0 | 0.1 |
| 42 | 1/9/2020 11:47 | 0 | 0.1 |
| 43 | 1/9/2020 11:48 | 0 | 0.1 |
| 44 | 1/9/2020 11:49 | 0 | 0.1 |
| 45 | 1/9/2020 11:50 | 0 | 0.1 |
| 46 | 1/9/2020 11:51 | 0 | 0.1 |
| 47 | 1/9/2020 11:52 | 0 | 0.1 |
| 48 | 1/9/2020 11:53 | 0 | 0.1 |
| 49 | 1/9/2020 11:54 | 0 | 0.1 |
| 50 | 1/9/2020 11:55 | 0 | 0.1 |
| 51 | 1/9/2020 11:56 | 0 | 0.1 |
| 52 | 1/9/2020 11:57 | 0 | 0.1 |
| 53 | 1/9/2020 11:58 | 0 | 0.1 |
| 54 | 1/9/2020 11:59 | 0 | 0.1 |
| 55 | 1/9/2020 12:00 | 0 | 0.1 |
| 56 | 1/9/2020 12:01 | 0 | 0.1 |
| 57 | 1/9/2020 12:02 | 0 | 0.1 |
| 58 | 1/9/2020 12:03 | 0 | 0.1 |
| 59 | 1/9/2020 12:04 | 0 | 0.1 |
| 60 | 1/9/2020 12:05 | 0 | 0.1 |
| 61 | 1/9/2020 12:06 | 0 | 0.1 |
| 62 | 1/9/2020 12:07 | 0 | 0.1 |

|    |                |   |     |
|----|----------------|---|-----|
| 63 | 1/9/2020 12:08 | 0 | 0.1 |
| 64 | 1/9/2020 12:09 | 0 | 0.1 |
| 65 | 1/9/2020 12:10 | 0 | 0.1 |
| 66 | 1/9/2020 12:11 | 0 | 0.1 |
| 67 | 1/9/2020 12:12 | 0 | 0.1 |
| 68 | 1/9/2020 12:13 | 0 | 0.1 |
| 69 | 1/9/2020 12:14 | 0 | 0.1 |
| 70 | 1/9/2020 12:15 | 0 | 0.1 |
| 71 | 1/9/2020 12:16 | 0 | 0.1 |
| 72 | 1/9/2020 12:17 | 0 | 0.1 |
| 73 | 1/9/2020 12:18 | 0 | 0.1 |
| 74 | 1/9/2020 12:19 | 0 | 0.1 |
| 75 | 1/9/2020 12:20 | 0 | 0.1 |
| 76 | 1/9/2020 12:21 | 0 | 0.1 |

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20/01/09 12:31

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Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

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Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

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Site ID 12345678

User ID 12345678

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Begin 1/9/2020 12:31

End 1/9/2020 12:43

Sample Per 60

Number of 11

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Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0.1

Average 0.1

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/9/2020 12:32 | 0.1               | 0.1               | 0.1                |
| 2     | 1/9/2020 12:33 | 0.1               | 0.1               | 0.1                |
| 3     | 1/9/2020 12:34 | 0.1               | 0.1               | 0.1                |
| 4     | 1/9/2020 12:35 | 0.1               | 0.1               | 0.1                |
| 5     | 1/9/2020 12:36 | 0.1               | 0.1               | 0.1                |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/9/2020 12:37 | 0.1 | 0.1 | 0.1 |
| 7       | 1/9/2020 12:38 | 0.1 | 0.1 | 0.1 |
| 8       | 1/9/2020 12:39 | 0.1 | 0.1 | 0.1 |
| 9       | 1/9/2020 12:40 | 0.1 | 0.1 | 0.1 |
| 10      | 1/9/2020 12:41 | 0.1 | 0.1 | 0.1 |
| 11      | 1/9/2020 12:42 | 0.1 | 0.1 | 0.1 |
| Peak    |                | 0.1 | 0.1 | 0.1 |
| Min     |                | 0.1 | 0.1 | 0.1 |
| Average |                | 0.1 | 0.1 | 0.1 |

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TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/9/2020 12:32 | 0                 | ---                |
| 2     | 1/9/2020 12:33 | 0                 | ---                |
| 3     | 1/9/2020 12:34 | 0                 | ---                |
| 4     | 1/9/2020 12:35 | 0                 | ---                |
| 5     | 1/9/2020 12:36 | 0                 | ---                |
| 6     | 1/9/2020 12:37 | 0                 | ---                |
| 7     | 1/9/2020 12:38 | 0                 | ---                |
| 8     | 1/9/2020 12:39 | 0                 | ---                |
| 9     | 1/9/2020 12:40 | 0                 | ---                |
| 10    | 1/9/2020 12:41 | 0                 | ---                |
| 11    | 1/9/2020 12:42 | 0                 | ---                |



20/01/10 08:31

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## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

Site ID 12345678

User ID 12345678

Begin 1/10/2020 8:31

End 1/10/2020 13:05

Sample Per 60

Number of 274

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0

Average 0

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## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/10/2020 8:32 | 0                 | 0                 | 0                  |
| 2     | 1/10/2020 8:33 | 0                 | 0                 | 0                  |
| 3     | 1/10/2020 8:34 | 0                 | 0                 | 0                  |
| 4     | 1/10/2020 8:35 | 0                 | 0                 | 0                  |
| 5     | 1/10/2020 8:36 | 0                 | 0                 | 0                  |

|    |                |   |   |   |
|----|----------------|---|---|---|
| 6  | 1/10/2020 8:37 | 0 | 0 | 0 |
| 7  | 1/10/2020 8:38 | 0 | 0 | 0 |
| 8  | 1/10/2020 8:39 | 0 | 0 | 0 |
| 9  | 1/10/2020 8:40 | 0 | 0 | 0 |
| 10 | 1/10/2020 8:41 | 0 | 0 | 0 |
| 11 | 1/10/2020 8:42 | 0 | 0 | 0 |
| 12 | 1/10/2020 8:43 | 0 | 0 | 0 |
| 13 | 1/10/2020 8:44 | 0 | 0 | 0 |
| 14 | 1/10/2020 8:45 | 0 | 0 | 0 |
| 15 | 1/10/2020 8:46 | 0 | 0 | 0 |
| 16 | 1/10/2020 8:47 | 0 | 0 | 0 |
| 17 | 1/10/2020 8:48 | 0 | 0 | 0 |
| 18 | 1/10/2020 8:49 | 0 | 0 | 0 |
| 19 | 1/10/2020 8:50 | 0 | 0 | 0 |
| 20 | 1/10/2020 8:51 | 0 | 0 | 0 |
| 21 | 1/10/2020 8:52 | 0 | 0 | 0 |
| 22 | 1/10/2020 8:53 | 0 | 0 | 0 |
| 23 | 1/10/2020 8:54 | 0 | 0 | 0 |
| 24 | 1/10/2020 8:55 | 0 | 0 | 0 |
| 25 | 1/10/2020 8:56 | 0 | 0 | 0 |
| 26 | 1/10/2020 8:57 | 0 | 0 | 0 |
| 27 | 1/10/2020 8:58 | 0 | 0 | 0 |
| 28 | 1/10/2020 8:59 | 0 | 0 | 0 |
| 29 | 1/10/2020 9:00 | 0 | 0 | 0 |
| 30 | 1/10/2020 9:01 | 0 | 0 | 0 |
| 31 | 1/10/2020 9:02 | 0 | 0 | 0 |
| 32 | 1/10/2020 9:03 | 0 | 0 | 0 |
| 33 | 1/10/2020 9:04 | 0 | 0 | 0 |
| 34 | 1/10/2020 9:05 | 0 | 0 | 0 |
| 35 | 1/10/2020 9:06 | 0 | 0 | 0 |
| 36 | 1/10/2020 9:07 | 0 | 0 | 0 |
| 37 | 1/10/2020 9:08 | 0 | 0 | 0 |
| 38 | 1/10/2020 9:09 | 0 | 0 | 0 |
| 39 | 1/10/2020 9:10 | 0 | 0 | 0 |
| 40 | 1/10/2020 9:11 | 0 | 0 | 0 |
| 41 | 1/10/2020 9:12 | 0 | 0 | 0 |
| 42 | 1/10/2020 9:13 | 0 | 0 | 0 |
| 43 | 1/10/2020 9:14 | 0 | 0 | 0 |
| 44 | 1/10/2020 9:15 | 0 | 0 | 0 |
| 45 | 1/10/2020 9:16 | 0 | 0 | 0 |
| 46 | 1/10/2020 9:17 | 0 | 0 | 0 |
| 47 | 1/10/2020 9:18 | 0 | 0 | 0 |
| 48 | 1/10/2020 9:19 | 0 | 0 | 0 |
| 49 | 1/10/2020 9:20 | 0 | 0 | 0 |
| 50 | 1/10/2020 9:21 | 0 | 0 | 0 |
| 51 | 1/10/2020 9:22 | 0 | 0 | 0 |
| 52 | 1/10/2020 9:23 | 0 | 0 | 0 |

|    |                 |   |     |   |
|----|-----------------|---|-----|---|
| 53 | 1/10/2020 9:24  | 0 | 0   | 0 |
| 54 | 1/10/2020 9:25  | 0 | 0   | 0 |
| 55 | 1/10/2020 9:26  | 0 | 0   | 0 |
| 56 | 1/10/2020 9:27  | 0 | 0   | 0 |
| 57 | 1/10/2020 9:28  | 0 | 0   | 0 |
| 58 | 1/10/2020 9:29  | 0 | 0   | 0 |
| 59 | 1/10/2020 9:30  | 0 | 0   | 0 |
| 60 | 1/10/2020 9:31  | 0 | 0   | 0 |
| 61 | 1/10/2020 9:32  | 0 | 0   | 0 |
| 62 | 1/10/2020 9:33  | 0 | 0   | 0 |
| 63 | 1/10/2020 9:34  | 0 | 0   | 0 |
| 64 | 1/10/2020 9:35  | 0 | 0   | 0 |
| 65 | 1/10/2020 9:36  | 0 | 0   | 0 |
| 66 | 1/10/2020 9:37  | 0 | 0   | 0 |
| 67 | 1/10/2020 9:38  | 0 | 0   | 0 |
| 68 | 1/10/2020 9:39  | 0 | 0   | 0 |
| 69 | 1/10/2020 9:40  | 0 | 0   | 0 |
| 70 | 1/10/2020 9:41  | 0 | 0   | 0 |
| 71 | 1/10/2020 9:42  | 0 | 0   | 0 |
| 72 | 1/10/2020 9:43  | 0 | 0   | 0 |
| 73 | 1/10/2020 9:44  | 0 | 0   | 0 |
| 74 | 1/10/2020 9:45  | 0 | 0   | 0 |
| 75 | 1/10/2020 9:46  | 0 | 0   | 0 |
| 76 | 1/10/2020 9:47  | 0 | 0   | 0 |
| 77 | 1/10/2020 9:48  | 0 | 0   | 0 |
| 78 | 1/10/2020 9:49  | 0 | 0   | 0 |
| 79 | 1/10/2020 9:50  | 0 | 0   | 0 |
| 80 | 1/10/2020 9:51  | 0 | 0   | 0 |
| 81 | 1/10/2020 9:52  | 0 | 0   | 0 |
| 82 | 1/10/2020 9:53  | 0 | 0   | 0 |
| 83 | 1/10/2020 9:54  | 0 | 0   | 0 |
| 84 | 1/10/2020 9:55  | 0 | 0   | 0 |
| 85 | 1/10/2020 9:56  | 0 | 0   | 0 |
| 86 | 1/10/2020 9:57  | 0 | 0   | 0 |
| 87 | 1/10/2020 9:58  | 0 | 0   | 0 |
| 88 | 1/10/2020 9:59  | 0 | 0   | 0 |
| 89 | 1/10/2020 10:00 | 0 | 0   | 0 |
| 90 | 1/10/2020 10:01 | 0 | 0   | 0 |
| 91 | 1/10/2020 10:02 | 0 | 0   | 0 |
| 92 | 1/10/2020 10:03 | 0 | 0   | 0 |
| 93 | 1/10/2020 10:04 | 0 | 0   | 0 |
| 94 | 1/10/2020 10:05 | 0 | 0   | 0 |
| 95 | 1/10/2020 10:06 | 0 | 0   | 0 |
| 96 | 1/10/2020 10:07 | 0 | 0.1 | 0 |
| 97 | 1/10/2020 10:08 | 0 | 0   | 0 |
| 98 | 1/10/2020 10:09 | 0 | 0.1 | 0 |
| 99 | 1/10/2020 10:10 | 0 | 0.1 | 0 |

|     |                 |     |     |     |
|-----|-----------------|-----|-----|-----|
| 100 | 1/10/2020 10:11 | 0   | 0.1 | 0   |
| 101 | 1/10/2020 10:12 | 0   | 0.1 | 0   |
| 102 | 1/10/2020 10:13 | 0   | 0.1 | 0.1 |
| 103 | 1/10/2020 10:14 | 0.1 | 0.1 | 0.1 |
| 104 | 1/10/2020 10:15 | 0.1 | 0.1 | 0.1 |
| 105 | 1/10/2020 10:16 | 0.1 | 0.1 | 0.1 |
| 106 | 1/10/2020 10:17 | 0.1 | 0.1 | 0.1 |
| 107 | 1/10/2020 10:18 | 0.1 | 0.1 | 0.1 |
| 108 | 1/10/2020 10:19 | 0.1 | 0.1 | 0.1 |
| 109 | 1/10/2020 10:20 | 0   | 0.1 | 0   |
| 110 | 1/10/2020 10:21 | 0   | 0   | 0   |
| 111 | 1/10/2020 10:22 | 0   | 0   | 0   |
| 112 | 1/10/2020 10:23 | 0   | 0   | 0   |
| 113 | 1/10/2020 10:24 | 0   | 0   | 0   |
| 114 | 1/10/2020 10:25 | 0   | 0   | 0   |
| 115 | 1/10/2020 10:26 | 0   | 0   | 0   |
| 116 | 1/10/2020 10:27 | 0   | 0   | 0   |
| 117 | 1/10/2020 10:28 | 0   | 0   | 0   |
| 118 | 1/10/2020 10:29 | 0   | 0   | 0   |
| 119 | 1/10/2020 10:30 | 0   | 0   | 0   |
| 120 | 1/10/2020 10:31 | 0   | 0   | 0   |
| 121 | 1/10/2020 10:32 | 0   | 0   | 0   |
| 122 | 1/10/2020 10:33 | 0   | 0   | 0   |
| 123 | 1/10/2020 10:34 | 0   | 0   | 0   |
| 124 | 1/10/2020 10:35 | 0   | 0   | 0   |
| 125 | 1/10/2020 10:36 | 0   | 0   | 0   |
| 126 | 1/10/2020 10:37 | 0   | 0   | 0   |
| 127 | 1/10/2020 10:38 | 0   | 0   | 0   |
| 128 | 1/10/2020 10:39 | 0   | 0   | 0   |
| 129 | 1/10/2020 10:40 | 0   | 0   | 0   |
| 130 | 1/10/2020 10:41 | 0   | 0   | 0   |
| 131 | 1/10/2020 10:42 | 0   | 0   | 0   |
| 132 | 1/10/2020 10:43 | 0   | 0   | 0   |
| 133 | 1/10/2020 10:44 | 0   | 0   | 0   |
| 134 | 1/10/2020 10:45 | 0   | 0   | 0   |
| 135 | 1/10/2020 10:46 | 0   | 0   | 0   |
| 136 | 1/10/2020 10:47 | 0   | 0   | 0   |
| 137 | 1/10/2020 10:48 | 0   | 0   | 0   |
| 138 | 1/10/2020 10:49 | 0   | 0   | 0   |
| 139 | 1/10/2020 10:50 | 0   | 0   | 0   |
| 140 | 1/10/2020 10:51 | 0   | 0   | 0   |
| 141 | 1/10/2020 10:52 | 0   | 0   | 0   |
| 142 | 1/10/2020 10:53 | 0   | 0.1 | 0   |
| 143 | 1/10/2020 10:54 | 0   | 0.1 | 0   |
| 144 | 1/10/2020 10:55 | 0   | 0.1 | 0   |
| 145 | 1/10/2020 10:56 | 0   | 0.1 | 0.1 |
| 146 | 1/10/2020 10:57 | 0.1 | 0.1 | 0.1 |

|     |                 |     |     |     |
|-----|-----------------|-----|-----|-----|
| 147 | 1/10/2020 10:58 | 0.1 | 0.1 | 0.1 |
| 148 | 1/10/2020 10:59 | 0.1 | 0.1 | 0.1 |
| 149 | 1/10/2020 11:00 | 0.1 | 0.1 | 0.1 |
| 150 | 1/10/2020 11:01 | 0.1 | 0.1 | 0.1 |
| 151 | 1/10/2020 11:02 | 0.1 | 0.1 | 0.1 |
| 152 | 1/10/2020 11:03 | 0.1 | 0.1 | 0.1 |
| 153 | 1/10/2020 11:04 | 0.1 | 0.1 | 0.1 |
| 154 | 1/10/2020 11:05 | 0.1 | 0.1 | 0.1 |
| 155 | 1/10/2020 11:06 | 0.1 | 0.1 | 0.1 |
| 156 | 1/10/2020 11:07 | 0.1 | 0.1 | 0.1 |
| 157 | 1/10/2020 11:08 | 0.1 | 0.1 | 0.1 |
| 158 | 1/10/2020 11:09 | 0.1 | 0.1 | 0.1 |
| 159 | 1/10/2020 11:10 | 0.1 | 0.1 | 0.1 |
| 160 | 1/10/2020 11:11 | 0.1 | 0.1 | 0.1 |
| 161 | 1/10/2020 11:12 | 0.1 | 0.1 | 0.1 |
| 162 | 1/10/2020 11:13 | 0.1 | 0.1 | 0.1 |
| 163 | 1/10/2020 11:14 | 0.1 | 0.1 | 0.1 |
| 164 | 1/10/2020 11:15 | 0   | 0.1 | 0   |
| 165 | 1/10/2020 11:16 | 0   | 0   | 0   |
| 166 | 1/10/2020 11:17 | 0   | 0   | 0   |
| 167 | 1/10/2020 11:18 | 0   | 0   | 0   |
| 168 | 1/10/2020 11:19 | 0   | 0   | 0   |
| 169 | 1/10/2020 11:20 | 0   | 0   | 0   |
| 170 | 1/10/2020 11:21 | 0   | 0.1 | 0   |
| 171 | 1/10/2020 11:22 | 0   | 0.1 | 0.1 |
| 172 | 1/10/2020 11:23 | 0.1 | 0.1 | 0.1 |
| 173 | 1/10/2020 11:24 | 0.1 | 0.1 | 0.1 |
| 174 | 1/10/2020 11:25 | 0.1 | 0.1 | 0.1 |
| 175 | 1/10/2020 11:26 | 0.1 | 0.1 | 0.1 |
| 176 | 1/10/2020 11:27 | 0.1 | 0.1 | 0.1 |
| 177 | 1/10/2020 11:28 | 0.1 | 0.1 | 0.1 |
| 178 | 1/10/2020 11:29 | 0.1 | 0.1 | 0.1 |
| 179 | 1/10/2020 11:30 | 0.1 | 0.1 | 0.1 |
| 180 | 1/10/2020 11:31 | 0.1 | 0.1 | 0.1 |
| 181 | 1/10/2020 11:32 | 0.1 | 0.1 | 0.1 |
| 182 | 1/10/2020 11:33 | 0.1 | 0.1 | 0.1 |
| 183 | 1/10/2020 11:34 | 0.1 | 0.1 | 0.1 |
| 184 | 1/10/2020 11:35 | 0.1 | 0.1 | 0.1 |
| 185 | 1/10/2020 11:36 | 0.1 | 0.1 | 0.1 |
| 186 | 1/10/2020 11:37 | 0.1 | 0.1 | 0.1 |
| 187 | 1/10/2020 11:38 | 0.1 | 0.1 | 0.1 |
| 188 | 1/10/2020 11:39 | 0.1 | 0.1 | 0.1 |
| 189 | 1/10/2020 11:40 | 0.1 | 0.1 | 0.1 |
| 190 | 1/10/2020 11:41 | 0.1 | 0.1 | 0.1 |
| 191 | 1/10/2020 11:42 | 0.1 | 0.1 | 0.1 |
| 192 | 1/10/2020 11:43 | 0.1 | 0.1 | 0.1 |
| 193 | 1/10/2020 11:44 | 0.1 | 0.1 | 0.1 |

|     |                 |     |     |     |
|-----|-----------------|-----|-----|-----|
| 194 | 1/10/2020 11:45 | 0.1 | 0.1 | 0.1 |
| 195 | 1/10/2020 11:46 | 0.1 | 0.1 | 0.1 |
| 196 | 1/10/2020 11:47 | 0.1 | 0.1 | 0.1 |
| 197 | 1/10/2020 11:48 | 0.1 | 0.1 | 0.1 |
| 198 | 1/10/2020 11:49 | 0.1 | 0.1 | 0.1 |
| 199 | 1/10/2020 11:50 | 0.1 | 0.1 | 0.1 |
| 200 | 1/10/2020 11:51 | 0.1 | 0.1 | 0.1 |
| 201 | 1/10/2020 11:52 | 0.1 | 0.1 | 0.1 |
| 202 | 1/10/2020 11:53 | 0.1 | 0.1 | 0.1 |
| 203 | 1/10/2020 11:54 | 0.1 | 0.1 | 0.1 |
| 204 | 1/10/2020 11:55 | 0.1 | 0.1 | 0.1 |
| 205 | 1/10/2020 11:56 | 0.1 | 0.1 | 0.1 |
| 206 | 1/10/2020 11:57 | 0.1 | 0.1 | 0.1 |
| 207 | 1/10/2020 11:58 | 0.1 | 0.1 | 0.1 |
| 208 | 1/10/2020 11:59 | 0.1 | 0.1 | 0.1 |
| 209 | 1/10/2020 12:00 | 0.1 | 0.1 | 0.1 |
| 210 | 1/10/2020 12:01 | 0.1 | 0.1 | 0.1 |
| 211 | 1/10/2020 12:02 | 0.1 | 0.1 | 0.1 |
| 212 | 1/10/2020 12:03 | 0.1 | 0.1 | 0.1 |
| 213 | 1/10/2020 12:04 | 0.1 | 0.1 | 0.1 |
| 214 | 1/10/2020 12:05 | 0.1 | 0.1 | 0.1 |
| 215 | 1/10/2020 12:06 | 0.1 | 0.1 | 0.1 |
| 216 | 1/10/2020 12:07 | 0.1 | 0.1 | 0.1 |
| 217 | 1/10/2020 12:08 | 0.1 | 0.1 | 0.1 |
| 218 | 1/10/2020 12:09 | 0.1 | 0.1 | 0.1 |
| 219 | 1/10/2020 12:10 | 0.1 | 0.1 | 0.1 |
| 220 | 1/10/2020 12:11 | 0.1 | 0.1 | 0.1 |
| 221 | 1/10/2020 12:12 | 0.1 | 0.1 | 0.1 |
| 222 | 1/10/2020 12:13 | 0.1 | 0.1 | 0.1 |
| 223 | 1/10/2020 12:14 | 0.1 | 0.1 | 0.1 |
| 224 | 1/10/2020 12:15 | 0.1 | 0.1 | 0.1 |
| 225 | 1/10/2020 12:16 | 0.1 | 0.1 | 0.1 |
| 226 | 1/10/2020 12:17 | 0.1 | 0.1 | 0.1 |
| 227 | 1/10/2020 12:18 | 0.1 | 0.1 | 0.1 |
| 228 | 1/10/2020 12:19 | 0.1 | 0.1 | 0.1 |
| 229 | 1/10/2020 12:20 | 0.1 | 0.1 | 0.1 |
| 230 | 1/10/2020 12:21 | 0.1 | 0.1 | 0.1 |
| 231 | 1/10/2020 12:22 | 0.1 | 0.1 | 0.1 |
| 232 | 1/10/2020 12:23 | 0.1 | 0.1 | 0.1 |
| 233 | 1/10/2020 12:24 | 0.1 | 0.1 | 0.1 |
| 234 | 1/10/2020 12:25 | 0.1 | 0.1 | 0.1 |
| 235 | 1/10/2020 12:26 | 0.1 | 0.1 | 0.1 |
| 236 | 1/10/2020 12:27 | 0.1 | 0.1 | 0.1 |
| 237 | 1/10/2020 12:28 | 0.1 | 0.1 | 0.1 |
| 238 | 1/10/2020 12:29 | 0.1 | 0.1 | 0.1 |
| 239 | 1/10/2020 12:30 | 0.1 | 0.1 | 0.1 |
| 240 | 1/10/2020 12:31 | 0.1 | 0.1 | 0.1 |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 241     | 1/10/2020 12:32 | 0.1 | 0.1 | 0.1 |
| 242     | 1/10/2020 12:33 | 0.1 | 0.1 | 0.1 |
| 243     | 1/10/2020 12:34 | 0.1 | 0.1 | 0.1 |
| 244     | 1/10/2020 12:35 | 0.1 | 0.1 | 0.1 |
| 245     | 1/10/2020 12:36 | 0.1 | 0.1 | 0.1 |
| 246     | 1/10/2020 12:37 | 0.1 | 0.1 | 0.1 |
| 247     | 1/10/2020 12:38 | 0.1 | 0.1 | 0.1 |
| 248     | 1/10/2020 12:39 | 0.1 | 0.1 | 0.1 |
| 249     | 1/10/2020 12:40 | 0.1 | 0.1 | 0.1 |
| 250     | 1/10/2020 12:41 | 0.1 | 0.1 | 0.1 |
| 251     | 1/10/2020 12:42 | 0.1 | 0.1 | 0.1 |
| 252     | 1/10/2020 12:43 | 0.1 | 0.1 | 0.1 |
| 253     | 1/10/2020 12:44 | 0.1 | 0.1 | 0.1 |
| 254     | 1/10/2020 12:45 | 0.1 | 0.1 | 0.1 |
| 255     | 1/10/2020 12:46 | 0.1 | 0.1 | 0.1 |
| 256     | 1/10/2020 12:47 | 0.1 | 0.1 | 0.1 |
| 257     | 1/10/2020 12:48 | 0.1 | 0.1 | 0.1 |
| 258     | 1/10/2020 12:49 | 0.1 | 0.1 | 0.1 |
| 259     | 1/10/2020 12:50 | 0.1 | 0.1 | 0.1 |
| 260     | 1/10/2020 12:51 | 0.1 | 0.1 | 0.1 |
| 261     | 1/10/2020 12:52 | 0.1 | 0.1 | 0.1 |
| 262     | 1/10/2020 12:53 | 0.1 | 0.1 | 0.1 |
| 263     | 1/10/2020 12:54 | 0.1 | 0.1 | 0.1 |
| 264     | 1/10/2020 12:55 | 0.1 | 0.1 | 0.1 |
| 265     | 1/10/2020 12:56 | 0.1 | 0.1 | 0.1 |
| 266     | 1/10/2020 12:57 | 0.1 | 0.1 | 0.1 |
| 267     | 1/10/2020 12:58 | 0.1 | 0.1 | 0.1 |
| 268     | 1/10/2020 12:59 | 0.1 | 0.1 | 0.1 |
| 269     | 1/10/2020 13:00 | 0.1 | 0.1 | 0.1 |
| 270     | 1/10/2020 13:01 | 0.1 | 0.1 | 0.1 |
| 271     | 1/10/2020 13:02 | 0.1 | 0.1 | 0.1 |
| 272     | 1/10/2020 13:03 | 0.1 | 0.1 | 0.1 |
| 273     | 1/10/2020 13:04 | 0.1 | 0.1 | 0.1 |
| 274     | 1/10/2020 13:05 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.1 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0   | 0.1 | 0   |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/10/2020 8:32 | 0                 | ---                |
| 2     | 1/10/2020 8:33 | 0                 | ---                |
| 3     | 1/10/2020 8:34 | 0                 | ---                |
| 4     | 1/10/2020 8:35 | 0                 | ---                |
| 5     | 1/10/2020 8:36 | 0                 | ---                |

|    |                |       |   |
|----|----------------|-------|---|
| 6  | 1/10/2020 8:37 | 0 --- |   |
| 7  | 1/10/2020 8:38 | 0 --- |   |
| 8  | 1/10/2020 8:39 | 0 --- |   |
| 9  | 1/10/2020 8:40 | 0 --- |   |
| 10 | 1/10/2020 8:41 | 0 --- |   |
| 11 | 1/10/2020 8:42 | 0 --- |   |
| 12 | 1/10/2020 8:43 | 0 --- |   |
| 13 | 1/10/2020 8:44 | 0 --- |   |
| 14 | 1/10/2020 8:45 | 0 --- |   |
| 15 | 1/10/2020 8:46 | 0     | 0 |
| 16 | 1/10/2020 8:47 | 0     | 0 |
| 17 | 1/10/2020 8:48 | 0     | 0 |
| 18 | 1/10/2020 8:49 | 0     | 0 |
| 19 | 1/10/2020 8:50 | 0     | 0 |
| 20 | 1/10/2020 8:51 | 0     | 0 |
| 21 | 1/10/2020 8:52 | 0     | 0 |
| 22 | 1/10/2020 8:53 | 0     | 0 |
| 23 | 1/10/2020 8:54 | 0     | 0 |
| 24 | 1/10/2020 8:55 | 0     | 0 |
| 25 | 1/10/2020 8:56 | 0     | 0 |
| 26 | 1/10/2020 8:57 | 0     | 0 |
| 27 | 1/10/2020 8:58 | 0     | 0 |
| 28 | 1/10/2020 8:59 | 0     | 0 |
| 29 | 1/10/2020 9:00 | 0     | 0 |
| 30 | 1/10/2020 9:01 | 0     | 0 |
| 31 | 1/10/2020 9:02 | 0     | 0 |
| 32 | 1/10/2020 9:03 | 0     | 0 |
| 33 | 1/10/2020 9:04 | 0     | 0 |
| 34 | 1/10/2020 9:05 | 0     | 0 |
| 35 | 1/10/2020 9:06 | 0     | 0 |
| 36 | 1/10/2020 9:07 | 0     | 0 |
| 37 | 1/10/2020 9:08 | 0     | 0 |
| 38 | 1/10/2020 9:09 | 0     | 0 |
| 39 | 1/10/2020 9:10 | 0     | 0 |
| 40 | 1/10/2020 9:11 | 0     | 0 |
| 41 | 1/10/2020 9:12 | 0     | 0 |
| 42 | 1/10/2020 9:13 | 0     | 0 |
| 43 | 1/10/2020 9:14 | 0     | 0 |
| 44 | 1/10/2020 9:15 | 0     | 0 |
| 45 | 1/10/2020 9:16 | 0     | 0 |
| 46 | 1/10/2020 9:17 | 0     | 0 |
| 47 | 1/10/2020 9:18 | 0     | 0 |
| 48 | 1/10/2020 9:19 | 0     | 0 |
| 49 | 1/10/2020 9:20 | 0     | 0 |
| 50 | 1/10/2020 9:21 | 0     | 0 |
| 51 | 1/10/2020 9:22 | 0     | 0 |
| 52 | 1/10/2020 9:23 | 0     | 0 |



|    |                 |   |   |
|----|-----------------|---|---|
| 53 | 1/10/2020 9:24  | 0 | 0 |
| 54 | 1/10/2020 9:25  | 0 | 0 |
| 55 | 1/10/2020 9:26  | 0 | 0 |
| 56 | 1/10/2020 9:27  | 0 | 0 |
| 57 | 1/10/2020 9:28  | 0 | 0 |
| 58 | 1/10/2020 9:29  | 0 | 0 |
| 59 | 1/10/2020 9:30  | 0 | 0 |
| 60 | 1/10/2020 9:31  | 0 | 0 |
| 61 | 1/10/2020 9:32  | 0 | 0 |
| 62 | 1/10/2020 9:33  | 0 | 0 |
| 63 | 1/10/2020 9:34  | 0 | 0 |
| 64 | 1/10/2020 9:35  | 0 | 0 |
| 65 | 1/10/2020 9:36  | 0 | 0 |
| 66 | 1/10/2020 9:37  | 0 | 0 |
| 67 | 1/10/2020 9:38  | 0 | 0 |
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| 71 | 1/10/2020 9:42  | 0 | 0 |
| 72 | 1/10/2020 9:43  | 0 | 0 |
| 73 | 1/10/2020 9:44  | 0 | 0 |
| 74 | 1/10/2020 9:45  | 0 | 0 |
| 75 | 1/10/2020 9:46  | 0 | 0 |
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| 78 | 1/10/2020 9:49  | 0 | 0 |
| 79 | 1/10/2020 9:50  | 0 | 0 |
| 80 | 1/10/2020 9:51  | 0 | 0 |
| 81 | 1/10/2020 9:52  | 0 | 0 |
| 82 | 1/10/2020 9:53  | 0 | 0 |
| 83 | 1/10/2020 9:54  | 0 | 0 |
| 84 | 1/10/2020 9:55  | 0 | 0 |
| 85 | 1/10/2020 9:56  | 0 | 0 |
| 86 | 1/10/2020 9:57  | 0 | 0 |
| 87 | 1/10/2020 9:58  | 0 | 0 |
| 88 | 1/10/2020 9:59  | 0 | 0 |
| 89 | 1/10/2020 10:00 | 0 | 0 |
| 90 | 1/10/2020 10:01 | 0 | 0 |
| 91 | 1/10/2020 10:02 | 0 | 0 |
| 92 | 1/10/2020 10:03 | 0 | 0 |
| 93 | 1/10/2020 10:04 | 0 | 0 |
| 94 | 1/10/2020 10:05 | 0 | 0 |
| 95 | 1/10/2020 10:06 | 0 | 0 |
| 96 | 1/10/2020 10:07 | 0 | 0 |
| 97 | 1/10/2020 10:08 | 0 | 0 |
| 98 | 1/10/2020 10:09 | 0 | 0 |
| 99 | 1/10/2020 10:10 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 100 | 1/10/2020 10:11 | 0 | 0 |
| 101 | 1/10/2020 10:12 | 0 | 0 |
| 102 | 1/10/2020 10:13 | 0 | 0 |
| 103 | 1/10/2020 10:14 | 0 | 0 |
| 104 | 1/10/2020 10:15 | 0 | 0 |
| 105 | 1/10/2020 10:16 | 0 | 0 |
| 106 | 1/10/2020 10:17 | 0 | 0 |
| 107 | 1/10/2020 10:18 | 0 | 0 |
| 108 | 1/10/2020 10:19 | 0 | 0 |
| 109 | 1/10/2020 10:20 | 0 | 0 |
| 110 | 1/10/2020 10:21 | 0 | 0 |
| 111 | 1/10/2020 10:22 | 0 | 0 |
| 112 | 1/10/2020 10:23 | 0 | 0 |
| 113 | 1/10/2020 10:24 | 0 | 0 |
| 114 | 1/10/2020 10:25 | 0 | 0 |
| 115 | 1/10/2020 10:26 | 0 | 0 |
| 116 | 1/10/2020 10:27 | 0 | 0 |
| 117 | 1/10/2020 10:28 | 0 | 0 |
| 118 | 1/10/2020 10:29 | 0 | 0 |
| 119 | 1/10/2020 10:30 | 0 | 0 |
| 120 | 1/10/2020 10:31 | 0 | 0 |
| 121 | 1/10/2020 10:32 | 0 | 0 |
| 122 | 1/10/2020 10:33 | 0 | 0 |
| 123 | 1/10/2020 10:34 | 0 | 0 |
| 124 | 1/10/2020 10:35 | 0 | 0 |
| 125 | 1/10/2020 10:36 | 0 | 0 |
| 126 | 1/10/2020 10:37 | 0 | 0 |
| 127 | 1/10/2020 10:38 | 0 | 0 |
| 128 | 1/10/2020 10:39 | 0 | 0 |
| 129 | 1/10/2020 10:40 | 0 | 0 |
| 130 | 1/10/2020 10:41 | 0 | 0 |
| 131 | 1/10/2020 10:42 | 0 | 0 |
| 132 | 1/10/2020 10:43 | 0 | 0 |
| 133 | 1/10/2020 10:44 | 0 | 0 |
| 134 | 1/10/2020 10:45 | 0 | 0 |
| 135 | 1/10/2020 10:46 | 0 | 0 |
| 136 | 1/10/2020 10:47 | 0 | 0 |
| 137 | 1/10/2020 10:48 | 0 | 0 |
| 138 | 1/10/2020 10:49 | 0 | 0 |
| 139 | 1/10/2020 10:50 | 0 | 0 |
| 140 | 1/10/2020 10:51 | 0 | 0 |
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| 142 | 1/10/2020 10:53 | 0 | 0 |
| 143 | 1/10/2020 10:54 | 0 | 0 |
| 144 | 1/10/2020 10:55 | 0 | 0 |
| 145 | 1/10/2020 10:56 | 0 | 0 |
| 146 | 1/10/2020 10:57 | 0 | 0 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 147 | 1/10/2020 10:58 | 0 | 0   |
| 148 | 1/10/2020 10:59 | 0 | 0   |
| 149 | 1/10/2020 11:00 | 0 | 0   |
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| 151 | 1/10/2020 11:02 | 0 | 0   |
| 152 | 1/10/2020 11:03 | 0 | 0.1 |
| 153 | 1/10/2020 11:04 | 0 | 0.1 |
| 154 | 1/10/2020 11:05 | 0 | 0.1 |
| 155 | 1/10/2020 11:06 | 0 | 0.1 |
| 156 | 1/10/2020 11:07 | 0 | 0.1 |
| 157 | 1/10/2020 11:08 | 0 | 0.1 |
| 158 | 1/10/2020 11:09 | 0 | 0.1 |
| 159 | 1/10/2020 11:10 | 0 | 0.1 |
| 160 | 1/10/2020 11:11 | 0 | 0.1 |
| 161 | 1/10/2020 11:12 | 0 | 0.1 |
| 162 | 1/10/2020 11:13 | 0 | 0.1 |
| 163 | 1/10/2020 11:14 | 0 | 0.1 |
| 164 | 1/10/2020 11:15 | 0 | 0.1 |
| 165 | 1/10/2020 11:16 | 0 | 0.1 |
| 166 | 1/10/2020 11:17 | 0 | 0.1 |
| 167 | 1/10/2020 11:18 | 0 | 0.1 |
| 168 | 1/10/2020 11:19 | 0 | 0.1 |
| 169 | 1/10/2020 11:20 | 0 | 0.1 |
| 170 | 1/10/2020 11:21 | 0 | 0.1 |
| 171 | 1/10/2020 11:22 | 0 | 0.1 |
| 172 | 1/10/2020 11:23 | 0 | 0.1 |
| 173 | 1/10/2020 11:24 | 0 | 0.1 |
| 174 | 1/10/2020 11:25 | 0 | 0.1 |
| 175 | 1/10/2020 11:26 | 0 | 0.1 |
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| 178 | 1/10/2020 11:29 | 0 | 0.1 |
| 179 | 1/10/2020 11:30 | 0 | 0.1 |
| 180 | 1/10/2020 11:31 | 0 | 0.1 |
| 181 | 1/10/2020 11:32 | 0 | 0.1 |
| 182 | 1/10/2020 11:33 | 0 | 0.1 |
| 183 | 1/10/2020 11:34 | 0 | 0.1 |
| 184 | 1/10/2020 11:35 | 0 | 0.1 |
| 185 | 1/10/2020 11:36 | 0 | 0.1 |
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| 188 | 1/10/2020 11:39 | 0 | 0.1 |
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| 190 | 1/10/2020 11:41 | 0 | 0.1 |
| 191 | 1/10/2020 11:42 | 0 | 0.1 |
| 192 | 1/10/2020 11:43 | 0 | 0.1 |
| 193 | 1/10/2020 11:44 | 0 | 0.1 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 194 | 1/10/2020 11:45 | 0 | 0.1 |
| 195 | 1/10/2020 11:46 | 0 | 0.1 |
| 196 | 1/10/2020 11:47 | 0 | 0.1 |
| 197 | 1/10/2020 11:48 | 0 | 0.1 |
| 198 | 1/10/2020 11:49 | 0 | 0.1 |
| 199 | 1/10/2020 11:50 | 0 | 0.1 |
| 200 | 1/10/2020 11:51 | 0 | 0.1 |
| 201 | 1/10/2020 11:52 | 0 | 0.1 |
| 202 | 1/10/2020 11:53 | 0 | 0.1 |
| 203 | 1/10/2020 11:54 | 0 | 0.1 |
| 204 | 1/10/2020 11:55 | 0 | 0.1 |
| 205 | 1/10/2020 11:56 | 0 | 0.1 |
| 206 | 1/10/2020 11:57 | 0 | 0.1 |
| 207 | 1/10/2020 11:58 | 0 | 0.1 |
| 208 | 1/10/2020 11:59 | 0 | 0.1 |
| 209 | 1/10/2020 12:00 | 0 | 0.1 |
| 210 | 1/10/2020 12:01 | 0 | 0.1 |
| 211 | 1/10/2020 12:02 | 0 | 0.1 |
| 212 | 1/10/2020 12:03 | 0 | 0.1 |
| 213 | 1/10/2020 12:04 | 0 | 0.1 |
| 214 | 1/10/2020 12:05 | 0 | 0.1 |
| 215 | 1/10/2020 12:06 | 0 | 0.1 |
| 216 | 1/10/2020 12:07 | 0 | 0.1 |
| 217 | 1/10/2020 12:08 | 0 | 0.1 |
| 218 | 1/10/2020 12:09 | 0 | 0.1 |
| 219 | 1/10/2020 12:10 | 0 | 0.1 |
| 220 | 1/10/2020 12:11 | 0 | 0.1 |
| 221 | 1/10/2020 12:12 | 0 | 0.1 |
| 222 | 1/10/2020 12:13 | 0 | 0.1 |
| 223 | 1/10/2020 12:14 | 0 | 0.1 |
| 224 | 1/10/2020 12:15 | 0 | 0.1 |
| 225 | 1/10/2020 12:16 | 0 | 0.1 |
| 226 | 1/10/2020 12:17 | 0 | 0.1 |
| 227 | 1/10/2020 12:18 | 0 | 0.1 |
| 228 | 1/10/2020 12:19 | 0 | 0.1 |
| 229 | 1/10/2020 12:20 | 0 | 0.1 |
| 230 | 1/10/2020 12:21 | 0 | 0.1 |
| 231 | 1/10/2020 12:22 | 0 | 0.1 |
| 232 | 1/10/2020 12:23 | 0 | 0.1 |
| 233 | 1/10/2020 12:24 | 0 | 0.1 |
| 234 | 1/10/2020 12:25 | 0 | 0.1 |
| 235 | 1/10/2020 12:26 | 0 | 0.1 |
| 236 | 1/10/2020 12:27 | 0 | 0.1 |
| 237 | 1/10/2020 12:28 | 0 | 0.1 |
| 238 | 1/10/2020 12:29 | 0 | 0.1 |
| 239 | 1/10/2020 12:30 | 0 | 0.1 |
| 240 | 1/10/2020 12:31 | 0 | 0.1 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 241 | 1/10/2020 12:32 | 0 | 0.1 |
| 242 | 1/10/2020 12:33 | 0 | 0.1 |
| 243 | 1/10/2020 12:34 | 0 | 0.1 |
| 244 | 1/10/2020 12:35 | 0 | 0.1 |
| 245 | 1/10/2020 12:36 | 0 | 0.1 |
| 246 | 1/10/2020 12:37 | 0 | 0.1 |
| 247 | 1/10/2020 12:38 | 0 | 0.1 |
| 248 | 1/10/2020 12:39 | 0 | 0.1 |
| 249 | 1/10/2020 12:40 | 0 | 0.1 |
| 250 | 1/10/2020 12:41 | 0 | 0.1 |
| 251 | 1/10/2020 12:42 | 0 | 0.1 |
| 252 | 1/10/2020 12:43 | 0 | 0.1 |
| 253 | 1/10/2020 12:44 | 0 | 0.1 |
| 254 | 1/10/2020 12:45 | 0 | 0.1 |
| 255 | 1/10/2020 12:46 | 0 | 0.1 |
| 256 | 1/10/2020 12:47 | 0 | 0.1 |
| 257 | 1/10/2020 12:48 | 0 | 0.1 |
| 258 | 1/10/2020 12:49 | 0 | 0.1 |
| 259 | 1/10/2020 12:50 | 0 | 0.1 |
| 260 | 1/10/2020 12:51 | 0 | 0.1 |
| 261 | 1/10/2020 12:52 | 0 | 0.1 |
| 262 | 1/10/2020 12:53 | 0 | 0.1 |
| 263 | 1/10/2020 12:54 | 0 | 0.1 |
| 264 | 1/10/2020 12:55 | 0 | 0.1 |
| 265 | 1/10/2020 12:56 | 0 | 0.1 |
| 266 | 1/10/2020 12:57 | 0 | 0.1 |
| 267 | 1/10/2020 12:58 | 0 | 0.1 |
| 268 | 1/10/2020 12:59 | 0 | 0.1 |
| 269 | 1/10/2020 13:00 | 0 | 0.1 |
| 270 | 1/10/2020 13:01 | 0 | 0.1 |
| 271 | 1/10/2020 13:02 | 0 | 0.1 |
| 272 | 1/10/2020 13:03 | 0 | 0.1 |
| 273 | 1/10/2020 13:04 | 0 | 0.1 |
| 274 | 1/10/2020 13:05 | 0 | 0.1 |

=====  
20/01/13 08:34  
\*\*\*\*\*

Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-910712  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/13/2020 8:34  
End 1/13/2020 11:41  
Sample Per 60  
Number of 186  
-----

Sensor PID(ppm)  
Sensor SN S023030021Q5  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 1/3/2020 12:41  
Peak 0.1  
Min 0  
Average 0.1

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/13/2020 8:35 | 0                 | 0                 | 0                  |
| 2     | 1/13/2020 8:36 | 0.1               | 0.1               | 0.1                |
| 3     | 1/13/2020 8:37 | 0.1               | 0.1               | 0.1                |
| 4     | 1/13/2020 8:38 | 0.1               | 0.1               | 0.1                |
| 5     | 1/13/2020 8:39 | 0.1               | 0.1               | 0.1                |

|    |                |     |     |     |
|----|----------------|-----|-----|-----|
| 6  | 1/13/2020 8:40 | 0.1 | 0.1 | 0.1 |
| 7  | 1/13/2020 8:41 | 0.1 | 0.1 | 0.1 |
| 8  | 1/13/2020 8:42 | 0.1 | 0.1 | 0.1 |
| 9  | 1/13/2020 8:43 | 0.1 | 0.1 | 0.1 |
| 10 | 1/13/2020 8:44 | 0.1 | 0.1 | 0.1 |
| 11 | 1/13/2020 8:45 | 0.1 | 0.1 | 0.1 |
| 12 | 1/13/2020 8:46 | 0.1 | 0.1 | 0.1 |
| 13 | 1/13/2020 8:47 | 0.1 | 0.1 | 0.1 |
| 14 | 1/13/2020 8:48 | 0.1 | 0.1 | 0.1 |
| 15 | 1/13/2020 8:49 | 0.1 | 0.1 | 0.1 |
| 16 | 1/13/2020 8:50 | 0.1 | 0.1 | 0.1 |
| 17 | 1/13/2020 8:51 | 0.1 | 0.1 | 0.1 |
| 18 | 1/13/2020 8:52 | 0.1 | 0.1 | 0.1 |
| 19 | 1/13/2020 8:53 | 0.1 | 0.1 | 0.1 |
| 20 | 1/13/2020 8:54 | 0.1 | 0.1 | 0.1 |
| 21 | 1/13/2020 8:55 | 0.1 | 0.1 | 0.1 |
| 22 | 1/13/2020 8:56 | 0.1 | 0.1 | 0.1 |
| 23 | 1/13/2020 8:57 | 0.1 | 0.1 | 0.1 |
| 24 | 1/13/2020 8:58 | 0.1 | 0.1 | 0.1 |
| 25 | 1/13/2020 8:59 | 0.1 | 0.1 | 0.1 |
| 26 | 1/13/2020 9:00 | 0.1 | 0.1 | 0.1 |
| 27 | 1/13/2020 9:01 | 0.1 | 0.1 | 0.1 |
| 28 | 1/13/2020 9:02 | 0.1 | 0.1 | 0.1 |
| 29 | 1/13/2020 9:03 | 0.1 | 0.1 | 0.1 |
| 30 | 1/13/2020 9:04 | 0.1 | 0.1 | 0.1 |
| 31 | 1/13/2020 9:05 | 0.1 | 0.1 | 0.1 |
| 32 | 1/13/2020 9:06 | 0.1 | 0.1 | 0.1 |
| 33 | 1/13/2020 9:07 | 0.1 | 0.1 | 0.1 |
| 34 | 1/13/2020 9:08 | 0.1 | 0.1 | 0.1 |
| 35 | 1/13/2020 9:09 | 0.1 | 0.1 | 0.1 |
| 36 | 1/13/2020 9:10 | 0.1 | 0.1 | 0.1 |
| 37 | 1/13/2020 9:11 | 0.1 | 0.1 | 0.1 |
| 38 | 1/13/2020 9:12 | 0.1 | 0.1 | 0.1 |
| 39 | 1/13/2020 9:13 | 0.1 | 0.1 | 0.1 |
| 40 | 1/13/2020 9:14 | 0.1 | 0.1 | 0.1 |
| 41 | 1/13/2020 9:15 | 0.1 | 0.1 | 0.1 |
| 42 | 1/13/2020 9:16 | 0.1 | 0.1 | 0.1 |
| 43 | 1/13/2020 9:17 | 0.1 | 0.1 | 0.1 |
| 44 | 1/13/2020 9:18 | 0.1 | 0.1 | 0.1 |
| 45 | 1/13/2020 9:19 | 0.1 | 0.1 | 0.1 |
| 46 | 1/13/2020 9:20 | 0.1 | 0.1 | 0.1 |
| 47 | 1/13/2020 9:21 | 0.1 | 0.1 | 0.1 |
| 48 | 1/13/2020 9:22 | 0.1 | 0.1 | 0.1 |
| 49 | 1/13/2020 9:23 | 0.1 | 0.1 | 0.1 |
| 50 | 1/13/2020 9:24 | 0.1 | 0.1 | 0.1 |
| 51 | 1/13/2020 9:25 | 0.1 | 0.1 | 0.1 |
| 52 | 1/13/2020 9:26 | 0.1 | 0.1 | 0.1 |

|    |                 |     |     |     |
|----|-----------------|-----|-----|-----|
| 53 | 1/13/2020 9:27  | 0.1 | 0.1 | 0.1 |
| 54 | 1/13/2020 9:28  | 0.1 | 0.1 | 0.1 |
| 55 | 1/13/2020 9:29  | 0   | 0.1 | 0   |
| 56 | 1/13/2020 9:30  | 0   | 0   | 0   |
| 57 | 1/13/2020 9:31  | 0   | 0   | 0   |
| 58 | 1/13/2020 9:32  | 0   | 0   | 0   |
| 59 | 1/13/2020 9:33  | 0.1 | 0.1 | 0.1 |
| 60 | 1/13/2020 9:34  | 0.1 | 0.1 | 0.1 |
| 61 | 1/13/2020 9:35  | 0.1 | 0.1 | 0.1 |
| 62 | 1/13/2020 9:36  | 0.1 | 0.1 | 0.1 |
| 63 | 1/13/2020 9:37  | 0.1 | 0.1 | 0.1 |
| 64 | 1/13/2020 9:38  | 0.1 | 0.1 | 0.1 |
| 65 | 1/13/2020 9:39  | 0.1 | 0.1 | 0.1 |
| 66 | 1/13/2020 9:40  | 0.1 | 0.1 | 0.1 |
| 67 | 1/13/2020 9:41  | 0.1 | 0.1 | 0.1 |
| 68 | 1/13/2020 9:42  | 0.1 | 0.1 | 0.1 |
| 69 | 1/13/2020 9:43  | 0.1 | 0.1 | 0.1 |
| 70 | 1/13/2020 9:44  | 0.1 | 0.1 | 0.1 |
| 71 | 1/13/2020 9:45  | 0.1 | 0.1 | 0.1 |
| 72 | 1/13/2020 9:46  | 0.1 | 0.1 | 0.1 |
| 73 | 1/13/2020 9:47  | 0.1 | 0.1 | 0.1 |
| 74 | 1/13/2020 9:48  | 0.1 | 0.1 | 0.1 |
| 75 | 1/13/2020 9:49  | 0.1 | 0.1 | 0.1 |
| 76 | 1/13/2020 9:50  | 0.1 | 0.1 | 0.1 |
| 77 | 1/13/2020 9:51  | 0.1 | 0.1 | 0.1 |
| 78 | 1/13/2020 9:52  | 0.1 | 0.1 | 0.1 |
| 79 | 1/13/2020 9:53  | 0.1 | 0.1 | 0.1 |
| 80 | 1/13/2020 9:54  | 0.1 | 0.1 | 0.1 |
| 81 | 1/13/2020 9:55  | 0.1 | 0.1 | 0.1 |
| 82 | 1/13/2020 9:56  | 0.1 | 0.1 | 0.1 |
| 83 | 1/13/2020 9:57  | 0.1 | 0.1 | 0.1 |
| 84 | 1/13/2020 9:58  | 0.1 | 0.1 | 0.1 |
| 85 | 1/13/2020 9:59  | 0.1 | 0.1 | 0.1 |
| 86 | 1/13/2020 10:00 | 0.1 | 0.1 | 0.1 |
| 87 | 1/13/2020 10:01 | 0.1 | 0.1 | 0.1 |
| 88 | 1/13/2020 10:02 | 0.1 | 0.1 | 0.1 |
| 89 | 1/13/2020 10:03 | 0.1 | 0.1 | 0.1 |
| 90 | 1/13/2020 10:04 | 0.1 | 0.1 | 0.1 |
| 91 | 1/13/2020 10:05 | 0.1 | 0.1 | 0.1 |
| 92 | 1/13/2020 10:06 | 0.1 | 0.1 | 0.1 |
| 93 | 1/13/2020 10:07 | 0.1 | 0.1 | 0.1 |
| 94 | 1/13/2020 10:08 | 0.1 | 0.1 | 0.1 |
| 95 | 1/13/2020 10:09 | 0.1 | 0.1 | 0.1 |
| 96 | 1/13/2020 10:10 | 0.1 | 0.1 | 0.1 |
| 97 | 1/13/2020 10:11 | 0.1 | 0.1 | 0.1 |
| 98 | 1/13/2020 10:12 | 0.1 | 0.1 | 0.1 |
| 99 | 1/13/2020 10:13 | 0.1 | 0.1 | 0.1 |



|     |                 |     |     |     |
|-----|-----------------|-----|-----|-----|
| 100 | 1/13/2020 10:14 | 0.1 | 0.1 | 0.1 |
| 101 | 1/13/2020 10:15 | 0.1 | 0.1 | 0.1 |
| 102 | 1/13/2020 10:16 | 0.1 | 0.1 | 0.1 |
| 103 | 1/13/2020 10:17 | 0.1 | 0.1 | 0.1 |
| 104 | 1/13/2020 10:18 | 0.1 | 0.1 | 0.1 |
| 105 | 1/13/2020 10:19 | 0.1 | 0.1 | 0.1 |
| 106 | 1/13/2020 10:20 | 0.1 | 0.1 | 0.1 |
| 107 | 1/13/2020 10:21 | 0.1 | 0.1 | 0.1 |
| 108 | 1/13/2020 10:22 | 0.1 | 0.1 | 0.1 |
| 109 | 1/13/2020 10:23 | 0.1 | 0.1 | 0.1 |
| 110 | 1/13/2020 10:24 | 0.1 | 0.1 | 0.1 |
| 111 | 1/13/2020 10:25 | 0.1 | 0.1 | 0.1 |
| 112 | 1/13/2020 10:26 | 0.1 | 0.1 | 0.1 |
| 113 | 1/13/2020 10:27 | 0.1 | 0.1 | 0.1 |
| 114 | 1/13/2020 10:28 | 0.1 | 0.1 | 0.1 |
| 115 | 1/13/2020 10:29 | 0.1 | 0.1 | 0.1 |
| 116 | 1/13/2020 10:30 | 0.1 | 0.1 | 0.1 |
| 117 | 1/13/2020 10:31 | 0.1 | 0.1 | 0.1 |
| 118 | 1/13/2020 10:32 | 0.1 | 0.1 | 0.1 |
| 119 | 1/13/2020 10:33 | 0.1 | 0.1 | 0.1 |
| 120 | 1/13/2020 10:34 | 0.1 | 0.1 | 0.1 |
| 121 | 1/13/2020 10:35 | 0.1 | 0.1 | 0.1 |
| 122 | 1/13/2020 10:36 | 0.1 | 0.1 | 0.1 |
| 123 | 1/13/2020 10:37 | 0.1 | 0.1 | 0.1 |
| 124 | 1/13/2020 10:38 | 0.1 | 0.1 | 0.1 |
| 125 | 1/13/2020 10:39 | 0.1 | 0.1 | 0.1 |
| 126 | 1/13/2020 10:40 | 0.1 | 0.1 | 0.1 |
| 127 | 1/13/2020 10:41 | 0.1 | 0.1 | 0.1 |
| 128 | 1/13/2020 10:42 | 0.1 | 0.1 | 0.1 |
| 129 | 1/13/2020 10:43 | 0.1 | 0.1 | 0.1 |
| 130 | 1/13/2020 10:44 | 0.1 | 0.1 | 0.1 |
| 131 | 1/13/2020 10:45 | 0.1 | 0.1 | 0.1 |
| 132 | 1/13/2020 10:46 | 0.1 | 0.1 | 0.1 |
| 133 | 1/13/2020 10:47 | 0.1 | 0.1 | 0.1 |
| 134 | 1/13/2020 10:48 | 0.1 | 0.1 | 0.1 |
| 135 | 1/13/2020 10:49 | 0.1 | 0.1 | 0.1 |
| 136 | 1/13/2020 10:50 | 0.1 | 0.1 | 0.1 |
| 137 | 1/13/2020 10:51 | 0.1 | 0.1 | 0.1 |
| 138 | 1/13/2020 10:52 | 0.1 | 0.1 | 0.1 |
| 139 | 1/13/2020 10:53 | 0.1 | 0.1 | 0.1 |
| 140 | 1/13/2020 10:54 | 0.1 | 0.1 | 0.1 |
| 141 | 1/13/2020 10:55 | 0.1 | 0.1 | 0.1 |
| 142 | 1/13/2020 10:56 | 0.1 | 0.1 | 0.1 |
| 143 | 1/13/2020 10:57 | 0.1 | 0.1 | 0.1 |
| 144 | 1/13/2020 10:58 | 0.1 | 0.1 | 0.1 |
| 145 | 1/13/2020 10:59 | 0.1 | 0.1 | 0.1 |
| 146 | 1/13/2020 11:00 | 0.1 | 0.1 | 0.1 |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 147     | 1/13/2020 11:01 | 0.1 | 0.1 | 0.1 |
| 148     | 1/13/2020 11:02 | 0.1 | 0.1 | 0.1 |
| 149     | 1/13/2020 11:03 | 0.1 | 0.1 | 0.1 |
| 150     | 1/13/2020 11:04 | 0.1 | 0.1 | 0.1 |
| 151     | 1/13/2020 11:05 | 0.1 | 0.1 | 0.1 |
| 152     | 1/13/2020 11:06 | 0.1 | 0.1 | 0.1 |
| 153     | 1/13/2020 11:07 | 0.1 | 0.1 | 0.1 |
| 154     | 1/13/2020 11:08 | 0.1 | 0.1 | 0.1 |
| 155     | 1/13/2020 11:09 | 0.1 | 0.1 | 0.1 |
| 156     | 1/13/2020 11:10 | 0.1 | 0.1 | 0.1 |
| 157     | 1/13/2020 11:11 | 0.1 | 0.1 | 0.1 |
| 158     | 1/13/2020 11:12 | 0.1 | 0.1 | 0.1 |
| 159     | 1/13/2020 11:13 | 0.1 | 0.1 | 0.1 |
| 160     | 1/13/2020 11:14 | 0.1 | 0.1 | 0.1 |
| 161     | 1/13/2020 11:15 | 0.1 | 0.1 | 0.1 |
| 162     | 1/13/2020 11:16 | 0.1 | 0.1 | 0.1 |
| 163     | 1/13/2020 11:17 | 0.1 | 0.1 | 0.1 |
| 164     | 1/13/2020 11:18 | 0.1 | 0.1 | 0.1 |
| 165     | 1/13/2020 11:19 | 0.1 | 0.1 | 0.1 |
| 166     | 1/13/2020 11:20 | 0.1 | 0.1 | 0.1 |
| 167     | 1/13/2020 11:21 | 0.1 | 0.1 | 0.1 |
| 168     | 1/13/2020 11:22 | 0.1 | 0.1 | 0.1 |
| 169     | 1/13/2020 11:23 | 0.1 | 0.1 | 0.1 |
| 170     | 1/13/2020 11:24 | 0.1 | 0.1 | 0.1 |
| 171     | 1/13/2020 11:25 | 0.1 | 0.1 | 0.1 |
| 172     | 1/13/2020 11:26 | 0.1 | 0.1 | 0.1 |
| 173     | 1/13/2020 11:27 | 0.1 | 0.1 | 0.1 |
| 174     | 1/13/2020 11:28 | 0.1 | 0.1 | 0.1 |
| 175     | 1/13/2020 11:29 | 0.1 | 0.1 | 0.1 |
| 176     | 1/13/2020 11:30 | 0.1 | 0.1 | 0.1 |
| 177     | 1/13/2020 11:31 | 0.1 | 0.1 | 0.1 |
| 178     | 1/13/2020 11:32 | 0.1 | 0.1 | 0.1 |
| 179     | 1/13/2020 11:33 | 0.1 | 0.1 | 0.1 |
| 180     | 1/13/2020 11:34 | 0.1 | 0.1 | 0.1 |
| 181     | 1/13/2020 11:35 | 0.1 | 0.1 | 0.1 |
| 182     | 1/13/2020 11:36 | 0.1 | 0.1 | 0.1 |
| 183     | 1/13/2020 11:37 | 0.1 | 0.1 | 0.1 |
| 184     | 1/13/2020 11:38 | 0.1 | 0.1 | 0.1 |
| 185     | 1/13/2020 11:39 | 0.1 | 0.1 | 0.1 |
| 186     | 1/13/2020 11:40 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.1 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0.1 | 0.1 | 0.1 |

\*\*\*\*\*

TWA/STEL

PID(ppm) PID(ppm)

| Index | Date/Time      | (TWA) | (STEL) |
|-------|----------------|-------|--------|
| 1     | 1/13/2020 8:35 | 0 --- |        |
| 2     | 1/13/2020 8:36 | 0 --- |        |
| 3     | 1/13/2020 8:37 | 0 --- |        |
| 4     | 1/13/2020 8:38 | 0 --- |        |
| 5     | 1/13/2020 8:39 | 0 --- |        |
| 6     | 1/13/2020 8:40 | 0 --- |        |
| 7     | 1/13/2020 8:41 | 0 --- |        |
| 8     | 1/13/2020 8:42 | 0 --- |        |
| 9     | 1/13/2020 8:43 | 0 --- |        |
| 10    | 1/13/2020 8:44 | 0 --- |        |
| 11    | 1/13/2020 8:45 | 0 --- |        |
| 12    | 1/13/2020 8:46 | 0 --- |        |
| 13    | 1/13/2020 8:47 | 0 --- |        |
| 14    | 1/13/2020 8:48 | 0 --- |        |
| 15    | 1/13/2020 8:49 | 0     | 0.1    |
| 16    | 1/13/2020 8:50 | 0     | 0.1    |
| 17    | 1/13/2020 8:51 | 0     | 0.1    |
| 18    | 1/13/2020 8:52 | 0     | 0.1    |
| 19    | 1/13/2020 8:53 | 0     | 0.1    |
| 20    | 1/13/2020 8:54 | 0     | 0.1    |
| 21    | 1/13/2020 8:55 | 0     | 0.1    |
| 22    | 1/13/2020 8:56 | 0     | 0.1    |
| 23    | 1/13/2020 8:57 | 0     | 0.1    |
| 24    | 1/13/2020 8:58 | 0     | 0.1    |
| 25    | 1/13/2020 8:59 | 0     | 0.1    |
| 26    | 1/13/2020 9:00 | 0     | 0.1    |
| 27    | 1/13/2020 9:01 | 0     | 0.1    |
| 28    | 1/13/2020 9:02 | 0     | 0.1    |
| 29    | 1/13/2020 9:03 | 0     | 0.1    |
| 30    | 1/13/2020 9:04 | 0     | 0.1    |
| 31    | 1/13/2020 9:05 | 0     | 0.1    |
| 32    | 1/13/2020 9:06 | 0     | 0.1    |
| 33    | 1/13/2020 9:07 | 0     | 0.1    |
| 34    | 1/13/2020 9:08 | 0     | 0.1    |
| 35    | 1/13/2020 9:09 | 0     | 0.1    |
| 36    | 1/13/2020 9:10 | 0     | 0.1    |
| 37    | 1/13/2020 9:11 | 0     | 0.1    |
| 38    | 1/13/2020 9:12 | 0     | 0.1    |
| 39    | 1/13/2020 9:13 | 0     | 0.1    |
| 40    | 1/13/2020 9:14 | 0     | 0.1    |
| 41    | 1/13/2020 9:15 | 0     | 0.1    |
| 42    | 1/13/2020 9:16 | 0     | 0.1    |
| 43    | 1/13/2020 9:17 | 0     | 0.1    |
| 44    | 1/13/2020 9:18 | 0     | 0.1    |
| 45    | 1/13/2020 9:19 | 0     | 0.1    |
| 46    | 1/13/2020 9:20 | 0     | 0.1    |

|    |                 |   |     |
|----|-----------------|---|-----|
| 47 | 1/13/2020 9:21  | 0 | 0.1 |
| 48 | 1/13/2020 9:22  | 0 | 0.1 |
| 49 | 1/13/2020 9:23  | 0 | 0.1 |
| 50 | 1/13/2020 9:24  | 0 | 0.1 |
| 51 | 1/13/2020 9:25  | 0 | 0.1 |
| 52 | 1/13/2020 9:26  | 0 | 0.1 |
| 53 | 1/13/2020 9:27  | 0 | 0.1 |
| 54 | 1/13/2020 9:28  | 0 | 0.1 |
| 55 | 1/13/2020 9:29  | 0 | 0.1 |
| 56 | 1/13/2020 9:30  | 0 | 0.1 |
| 57 | 1/13/2020 9:31  | 0 | 0.1 |
| 58 | 1/13/2020 9:32  | 0 | 0.1 |
| 59 | 1/13/2020 9:33  | 0 | 0.1 |
| 60 | 1/13/2020 9:34  | 0 | 0.1 |
| 61 | 1/13/2020 9:35  | 0 | 0.1 |
| 62 | 1/13/2020 9:36  | 0 | 0.1 |
| 63 | 1/13/2020 9:37  | 0 | 0.1 |
| 64 | 1/13/2020 9:38  | 0 | 0.1 |
| 65 | 1/13/2020 9:39  | 0 | 0.1 |
| 66 | 1/13/2020 9:40  | 0 | 0.1 |
| 67 | 1/13/2020 9:41  | 0 | 0.1 |
| 68 | 1/13/2020 9:42  | 0 | 0.1 |
| 69 | 1/13/2020 9:43  | 0 | 0.1 |
| 70 | 1/13/2020 9:44  | 0 | 0.1 |
| 71 | 1/13/2020 9:45  | 0 | 0.1 |
| 72 | 1/13/2020 9:46  | 0 | 0.1 |
| 73 | 1/13/2020 9:47  | 0 | 0.1 |
| 74 | 1/13/2020 9:48  | 0 | 0.1 |
| 75 | 1/13/2020 9:49  | 0 | 0.1 |
| 76 | 1/13/2020 9:50  | 0 | 0.1 |
| 77 | 1/13/2020 9:51  | 0 | 0.1 |
| 78 | 1/13/2020 9:52  | 0 | 0.1 |
| 79 | 1/13/2020 9:53  | 0 | 0.1 |
| 80 | 1/13/2020 9:54  | 0 | 0.1 |
| 81 | 1/13/2020 9:55  | 0 | 0.1 |
| 82 | 1/13/2020 9:56  | 0 | 0.1 |
| 83 | 1/13/2020 9:57  | 0 | 0.1 |
| 84 | 1/13/2020 9:58  | 0 | 0.1 |
| 85 | 1/13/2020 9:59  | 0 | 0.1 |
| 86 | 1/13/2020 10:00 | 0 | 0.1 |
| 87 | 1/13/2020 10:01 | 0 | 0.1 |
| 88 | 1/13/2020 10:02 | 0 | 0.1 |
| 89 | 1/13/2020 10:03 | 0 | 0.1 |
| 90 | 1/13/2020 10:04 | 0 | 0.1 |
| 91 | 1/13/2020 10:05 | 0 | 0.1 |
| 92 | 1/13/2020 10:06 | 0 | 0.1 |
| 93 | 1/13/2020 10:07 | 0 | 0.1 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 94  | 1/13/2020 10:08 | 0 | 0.1 |
| 95  | 1/13/2020 10:09 | 0 | 0.1 |
| 96  | 1/13/2020 10:10 | 0 | 0.1 |
| 97  | 1/13/2020 10:11 | 0 | 0.1 |
| 98  | 1/13/2020 10:12 | 0 | 0.1 |
| 99  | 1/13/2020 10:13 | 0 | 0.1 |
| 100 | 1/13/2020 10:14 | 0 | 0.1 |
| 101 | 1/13/2020 10:15 | 0 | 0.1 |
| 102 | 1/13/2020 10:16 | 0 | 0.1 |
| 103 | 1/13/2020 10:17 | 0 | 0.1 |
| 104 | 1/13/2020 10:18 | 0 | 0.1 |
| 105 | 1/13/2020 10:19 | 0 | 0.1 |
| 106 | 1/13/2020 10:20 | 0 | 0.1 |
| 107 | 1/13/2020 10:21 | 0 | 0.1 |
| 108 | 1/13/2020 10:22 | 0 | 0.1 |
| 109 | 1/13/2020 10:23 | 0 | 0.1 |
| 110 | 1/13/2020 10:24 | 0 | 0.1 |
| 111 | 1/13/2020 10:25 | 0 | 0.1 |
| 112 | 1/13/2020 10:26 | 0 | 0.1 |
| 113 | 1/13/2020 10:27 | 0 | 0.1 |
| 114 | 1/13/2020 10:28 | 0 | 0.1 |
| 115 | 1/13/2020 10:29 | 0 | 0.1 |
| 116 | 1/13/2020 10:30 | 0 | 0.1 |
| 117 | 1/13/2020 10:31 | 0 | 0.1 |
| 118 | 1/13/2020 10:32 | 0 | 0.1 |
| 119 | 1/13/2020 10:33 | 0 | 0.1 |
| 120 | 1/13/2020 10:34 | 0 | 0.1 |
| 121 | 1/13/2020 10:35 | 0 | 0.1 |
| 122 | 1/13/2020 10:36 | 0 | 0.1 |
| 123 | 1/13/2020 10:37 | 0 | 0.1 |
| 124 | 1/13/2020 10:38 | 0 | 0.1 |
| 125 | 1/13/2020 10:39 | 0 | 0.1 |
| 126 | 1/13/2020 10:40 | 0 | 0.1 |
| 127 | 1/13/2020 10:41 | 0 | 0.1 |
| 128 | 1/13/2020 10:42 | 0 | 0.1 |
| 129 | 1/13/2020 10:43 | 0 | 0.1 |
| 130 | 1/13/2020 10:44 | 0 | 0.1 |
| 131 | 1/13/2020 10:45 | 0 | 0.1 |
| 132 | 1/13/2020 10:46 | 0 | 0.1 |
| 133 | 1/13/2020 10:47 | 0 | 0.1 |
| 134 | 1/13/2020 10:48 | 0 | 0.1 |
| 135 | 1/13/2020 10:49 | 0 | 0.1 |
| 136 | 1/13/2020 10:50 | 0 | 0.1 |
| 137 | 1/13/2020 10:51 | 0 | 0.1 |
| 138 | 1/13/2020 10:52 | 0 | 0.1 |
| 139 | 1/13/2020 10:53 | 0 | 0.1 |
| 140 | 1/13/2020 10:54 | 0 | 0.1 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 141 | 1/13/2020 10:55 | 0 | 0.1 |
| 142 | 1/13/2020 10:56 | 0 | 0.1 |
| 143 | 1/13/2020 10:57 | 0 | 0.1 |
| 144 | 1/13/2020 10:58 | 0 | 0.1 |
| 145 | 1/13/2020 10:59 | 0 | 0.1 |
| 146 | 1/13/2020 11:00 | 0 | 0.1 |
| 147 | 1/13/2020 11:01 | 0 | 0.1 |
| 148 | 1/13/2020 11:02 | 0 | 0.1 |
| 149 | 1/13/2020 11:03 | 0 | 0.1 |
| 150 | 1/13/2020 11:04 | 0 | 0.1 |
| 151 | 1/13/2020 11:05 | 0 | 0.1 |
| 152 | 1/13/2020 11:06 | 0 | 0.1 |
| 153 | 1/13/2020 11:07 | 0 | 0.1 |
| 154 | 1/13/2020 11:08 | 0 | 0.1 |
| 155 | 1/13/2020 11:09 | 0 | 0.1 |
| 156 | 1/13/2020 11:10 | 0 | 0.1 |
| 157 | 1/13/2020 11:11 | 0 | 0.1 |
| 158 | 1/13/2020 11:12 | 0 | 0.1 |
| 159 | 1/13/2020 11:13 | 0 | 0.1 |
| 160 | 1/13/2020 11:14 | 0 | 0.1 |
| 161 | 1/13/2020 11:15 | 0 | 0.1 |
| 162 | 1/13/2020 11:16 | 0 | 0.1 |
| 163 | 1/13/2020 11:17 | 0 | 0.1 |
| 164 | 1/13/2020 11:18 | 0 | 0.1 |
| 165 | 1/13/2020 11:19 | 0 | 0.1 |
| 166 | 1/13/2020 11:20 | 0 | 0.1 |
| 167 | 1/13/2020 11:21 | 0 | 0.1 |
| 168 | 1/13/2020 11:22 | 0 | 0.1 |
| 169 | 1/13/2020 11:23 | 0 | 0.1 |
| 170 | 1/13/2020 11:24 | 0 | 0.1 |
| 171 | 1/13/2020 11:25 | 0 | 0.1 |
| 172 | 1/13/2020 11:26 | 0 | 0.1 |
| 173 | 1/13/2020 11:27 | 0 | 0.1 |
| 174 | 1/13/2020 11:28 | 0 | 0.1 |
| 175 | 1/13/2020 11:29 | 0 | 0.1 |
| 176 | 1/13/2020 11:30 | 0 | 0.1 |
| 177 | 1/13/2020 11:31 | 0 | 0.1 |
| 178 | 1/13/2020 11:32 | 0 | 0.1 |
| 179 | 1/13/2020 11:33 | 0 | 0.1 |
| 180 | 1/13/2020 11:34 | 0 | 0.1 |
| 181 | 1/13/2020 11:35 | 0 | 0.1 |
| 182 | 1/13/2020 11:36 | 0 | 0.1 |
| 183 | 1/13/2020 11:37 | 0 | 0.1 |
| 184 | 1/13/2020 11:38 | 0 | 0.1 |
| 185 | 1/13/2020 11:39 | 0 | 0.1 |
| 186 | 1/13/2020 11:40 | 0 | 0.1 |

=====

20/01/13 12:34

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Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Battery Low

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/13/2020 12:34

End 1/13/2020 15:15

Sample Per 60

Number of 160

-----

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure T<sub>1</sub> Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 1/3/2020 12:41

Peak 0.2

Min 0

Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 1/13/2020 12:35 | 0.1               | 0.1               | 0                  |
| 2     | 1/13/2020 12:36 | 0                 | 0                 | 0                  |
| 3     | 1/13/2020 12:37 | 0                 | 0                 | 0                  |
| 4     | 1/13/2020 12:38 | 0                 | 0                 | 0                  |
| 5     | 1/13/2020 12:39 | 0                 | 0                 | 0                  |

|    |                 |   |     |   |
|----|-----------------|---|-----|---|
| 6  | 1/13/2020 12:40 | 0 | 0   | 0 |
| 7  | 1/13/2020 12:41 | 0 | 0   | 0 |
| 8  | 1/13/2020 12:42 | 0 | 0   | 0 |
| 9  | 1/13/2020 12:43 | 0 | 0   | 0 |
| 10 | 1/13/2020 12:44 | 0 | 0   | 0 |
| 11 | 1/13/2020 12:45 | 0 | 0   | 0 |
| 12 | 1/13/2020 12:46 | 0 | 0   | 0 |
| 13 | 1/13/2020 12:47 | 0 | 0   | 0 |
| 14 | 1/13/2020 12:48 | 0 | 0   | 0 |
| 15 | 1/13/2020 12:49 | 0 | 0.2 | 0 |
| 16 | 1/13/2020 12:50 | 0 | 0   | 0 |
| 17 | 1/13/2020 12:51 | 0 | 0   | 0 |
| 18 | 1/13/2020 12:52 | 0 | 0   | 0 |
| 19 | 1/13/2020 12:53 | 0 | 0   | 0 |
| 20 | 1/13/2020 12:54 | 0 | 0   | 0 |
| 21 | 1/13/2020 12:55 | 0 | 0   | 0 |
| 22 | 1/13/2020 12:56 | 0 | 0   | 0 |
| 23 | 1/13/2020 12:57 | 0 | 0   | 0 |
| 24 | 1/13/2020 12:58 | 0 | 0   | 0 |
| 25 | 1/13/2020 12:59 | 0 | 0   | 0 |
| 26 | 1/13/2020 13:00 | 0 | 0   | 0 |
| 27 | 1/13/2020 13:01 | 0 | 0   | 0 |
| 28 | 1/13/2020 13:02 | 0 | 0   | 0 |
| 29 | 1/13/2020 13:03 | 0 | 0   | 0 |
| 30 | 1/13/2020 13:04 | 0 | 0   | 0 |
| 31 | 1/13/2020 13:05 | 0 | 0   | 0 |
| 32 | 1/13/2020 13:06 | 0 | 0   | 0 |
| 33 | 1/13/2020 13:07 | 0 | 0   | 0 |
| 34 | 1/13/2020 13:08 | 0 | 0   | 0 |
| 35 | 1/13/2020 13:09 | 0 | 0   | 0 |
| 36 | 1/13/2020 13:10 | 0 | 0   | 0 |
| 37 | 1/13/2020 13:11 | 0 | 0   | 0 |
| 38 | 1/13/2020 13:12 | 0 | 0   | 0 |
| 39 | 1/13/2020 13:13 | 0 | 0   | 0 |
| 40 | 1/13/2020 13:14 | 0 | 0   | 0 |
| 41 | 1/13/2020 13:15 | 0 | 0   | 0 |
| 42 | 1/13/2020 13:16 | 0 | 0   | 0 |
| 43 | 1/13/2020 13:17 | 0 | 0   | 0 |
| 44 | 1/13/2020 13:18 | 0 | 0   | 0 |
| 45 | 1/13/2020 13:19 | 0 | 0   | 0 |
| 46 | 1/13/2020 13:20 | 0 | 0   | 0 |
| 47 | 1/13/2020 13:21 | 0 | 0   | 0 |
| 48 | 1/13/2020 13:22 | 0 | 0   | 0 |
| 49 | 1/13/2020 13:23 | 0 | 0   | 0 |
| 50 | 1/13/2020 13:24 | 0 | 0   | 0 |
| 51 | 1/13/2020 13:25 | 0 | 0   | 0 |
| 52 | 1/13/2020 13:26 | 0 | 0   | 0 |



|    |                 |   |     |     |
|----|-----------------|---|-----|-----|
| 53 | 1/13/2020 13:27 | 0 | 0   | 0   |
| 54 | 1/13/2020 13:28 | 0 | 0   | 0   |
| 55 | 1/13/2020 13:29 | 0 | 0   | 0   |
| 56 | 1/13/2020 13:30 | 0 | 0   | 0   |
| 57 | 1/13/2020 13:31 | 0 | 0   | 0   |
| 58 | 1/13/2020 13:32 | 0 | 0   | 0   |
| 59 | 1/13/2020 13:33 | 0 | 0   | 0   |
| 60 | 1/13/2020 13:34 | 0 | 0   | 0   |
| 61 | 1/13/2020 13:35 | 0 | 0   | 0   |
| 62 | 1/13/2020 13:36 | 0 | 0   | 0   |
| 63 | 1/13/2020 13:37 | 0 | 0   | 0   |
| 64 | 1/13/2020 13:38 | 0 | 0   | 0   |
| 65 | 1/13/2020 13:39 | 0 | 0   | 0   |
| 66 | 1/13/2020 13:40 | 0 | 0   | 0   |
| 67 | 1/13/2020 13:41 | 0 | 0   | 0   |
| 68 | 1/13/2020 13:42 | 0 | 0   | 0   |
| 69 | 1/13/2020 13:43 | 0 | 0   | 0   |
| 70 | 1/13/2020 13:44 | 0 | 0   | 0   |
| 71 | 1/13/2020 13:45 | 0 | 0   | 0   |
| 72 | 1/13/2020 13:46 | 0 | 0   | 0   |
| 73 | 1/13/2020 13:47 | 0 | 0   | 0   |
| 74 | 1/13/2020 13:48 | 0 | 0   | 0   |
| 75 | 1/13/2020 13:49 | 0 | 0   | 0   |
| 76 | 1/13/2020 13:50 | 0 | 0   | 0   |
| 77 | 1/13/2020 13:51 | 0 | 0   | 0   |
| 78 | 1/13/2020 13:52 | 0 | 0   | 0   |
| 79 | 1/13/2020 13:53 | 0 | 0   | 0   |
| 80 | 1/13/2020 13:54 | 0 | 0   | 0   |
| 81 | 1/13/2020 13:55 | 0 | 0   | 0   |
| 82 | 1/13/2020 13:56 | 0 | 0   | 0   |
| 83 | 1/13/2020 13:57 | 0 | 0   | 0   |
| 84 | 1/13/2020 13:58 | 0 | 0   | 0   |
| 85 | 1/13/2020 13:59 | 0 | 0   | 0   |
| 86 | 1/13/2020 14:00 | 0 | 0   | 0   |
| 87 | 1/13/2020 14:01 | 0 | 0   | 0   |
| 88 | 1/13/2020 14:02 | 0 | 0   | 0   |
| 89 | 1/13/2020 14:03 | 0 | 0   | 0   |
| 90 | 1/13/2020 14:04 | 0 | 0   | 0   |
| 91 | 1/13/2020 14:05 | 0 | 0   | 0   |
| 92 | 1/13/2020 14:06 | 0 | 0   | 0   |
| 93 | 1/13/2020 14:07 | 0 | 0   | 0   |
| 94 | 1/13/2020 14:08 | 0 | 0   | 0   |
| 95 | 1/13/2020 14:09 | 0 | 0   | 0   |
| 96 | 1/13/2020 14:10 | 0 | 0   | 0   |
| 97 | 1/13/2020 14:11 | 0 | 0   | 0   |
| 98 | 1/13/2020 14:12 | 0 | 0   | 0   |
| 99 | 1/13/2020 14:13 | 0 | 0.1 | 0.1 |

|     |                 |     |     |     |
|-----|-----------------|-----|-----|-----|
| 100 | 1/13/2020 14:14 | 0.1 | 0.1 | 0.1 |
| 101 | 1/13/2020 14:15 | 0   | 0.1 | 0   |
| 102 | 1/13/2020 14:16 | 0   | 0   | 0   |
| 103 | 1/13/2020 14:17 | 0   | 0   | 0   |
| 104 | 1/13/2020 14:18 | 0   | 0   | 0   |
| 105 | 1/13/2020 14:19 | 0   | 0   | 0   |
| 106 | 1/13/2020 14:20 | 0   | 0   | 0   |
| 107 | 1/13/2020 14:21 | 0   | 0   | 0   |
| 108 | 1/13/2020 14:22 | 0   | 0   | 0   |
| 109 | 1/13/2020 14:23 | 0.1 | 0.1 | 0.1 |
| 110 | 1/13/2020 14:24 | 0   | 0.1 | 0   |
| 111 | 1/13/2020 14:25 | 0   | 0   | 0   |
| 112 | 1/13/2020 14:26 | 0   | 0   | 0   |
| 113 | 1/13/2020 14:27 | 0   | 0   | 0   |
| 114 | 1/13/2020 14:28 | 0   | 0.1 | 0   |
| 115 | 1/13/2020 14:29 | 0   | 0   | 0   |
| 116 | 1/13/2020 14:30 | 0   | 0   | 0   |
| 117 | 1/13/2020 14:31 | 0   | 0   | 0   |
| 118 | 1/13/2020 14:32 | 0   | 0   | 0   |
| 119 | 1/13/2020 14:33 | 0   | 0   | 0   |
| 120 | 1/13/2020 14:34 | 0   | 0   | 0   |
| 121 | 1/13/2020 14:35 | 0   | 0   | 0   |
| 122 | 1/13/2020 14:36 | 0   | 0.1 | 0   |
| 123 | 1/13/2020 14:37 | 0   | 0   | 0   |
| 124 | 1/13/2020 14:38 | 0   | 0   | 0   |
| 125 | 1/13/2020 14:39 | 0   | 0   | 0   |
| 126 | 1/13/2020 14:40 | 0   | 0   | 0   |
| 127 | 1/13/2020 14:41 | 0   | 0   | 0   |
| 128 | 1/13/2020 14:42 | 0   | 0   | 0   |
| 129 | 1/13/2020 14:43 | 0   | 0.1 | 0.1 |
| 130 | 1/13/2020 14:44 | 0   | 0.1 | 0   |
| 131 | 1/13/2020 14:45 | 0   | 0   | 0   |
| 132 | 1/13/2020 14:46 | 0   | 0   | 0   |
| 133 | 1/13/2020 14:47 | 0   | 0   | 0   |
| 134 | 1/13/2020 14:48 | 0   | 0   | 0   |
| 135 | 1/13/2020 14:49 | 0   | 0   | 0   |
| 136 | 1/13/2020 14:50 | 0   | 0   | 0   |
| 137 | 1/13/2020 14:51 | 0   | 0   | 0   |
| 138 | 1/13/2020 14:52 | 0   | 0   | 0   |
| 139 | 1/13/2020 14:53 | 0   | 0   | 0   |
| 140 | 1/13/2020 14:54 | 0   | 0   | 0   |
| 141 | 1/13/2020 14:55 | 0   | 0   | 0   |
| 142 | 1/13/2020 14:56 | 0   | 0   | 0   |
| 143 | 1/13/2020 14:57 | 0   | 0   | 0   |
| 144 | 1/13/2020 14:58 | 0.1 | 0.3 | 0.2 |
| 145 | 1/13/2020 14:59 | 0.1 | 0.2 | 0   |
| 146 | 1/13/2020 15:00 | 0   | 0.1 | 0   |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 147     | 1/13/2020 15:01 | 0   | 0   | 0   |
| 148     | 1/13/2020 15:02 | 0   | 0   | 0   |
| 149     | 1/13/2020 15:03 | 0   | 0   | 0   |
| 150     | 1/13/2020 15:04 | 0   | 0   | 0   |
| 151     | 1/13/2020 15:05 | 0   | 0   | 0   |
| 152     | 1/13/2020 15:06 | 0   | 0.1 | 0.1 |
| 153     | 1/13/2020 15:07 | 0.1 | 0.1 | 0   |
| 154     | 1/13/2020 15:08 | 0   | 0   | 0   |
| 155     | 1/13/2020 15:09 | 0   | 0.1 | 0   |
| 156     | 1/13/2020 15:10 | 0   | 0   | 0   |
| 157     | 1/13/2020 15:11 | 0   | 0   | 0   |
| 158     | 1/13/2020 15:12 | 0   | 0   | 0   |
| 159     | 1/13/2020 15:13 | 0   | 0   | 0   |
| 160     | 1/13/2020 15:14 | 0   | 0   | 0   |
| Peak    |                 | 0.1 | 0.3 | 0.2 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0   | 0   | 0   |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/13/2020 12:35 | 0                 | ---                |
| 2     | 1/13/2020 12:36 | 0                 | ---                |
| 3     | 1/13/2020 12:37 | 0                 | ---                |
| 4     | 1/13/2020 12:38 | 0                 | ---                |
| 5     | 1/13/2020 12:39 | 0                 | ---                |
| 6     | 1/13/2020 12:40 | 0                 | ---                |
| 7     | 1/13/2020 12:41 | 0                 | ---                |
| 8     | 1/13/2020 12:42 | 0                 | ---                |
| 9     | 1/13/2020 12:43 | 0                 | ---                |
| 10    | 1/13/2020 12:44 | 0                 | ---                |
| 11    | 1/13/2020 12:45 | 0                 | ---                |
| 12    | 1/13/2020 12:46 | 0                 | ---                |
| 13    | 1/13/2020 12:47 | 0                 | ---                |
| 14    | 1/13/2020 12:48 | 0                 | ---                |
| 15    | 1/13/2020 12:49 | 0                 | 0                  |
| 16    | 1/13/2020 12:50 | 0                 | 0                  |
| 17    | 1/13/2020 12:51 | 0                 | 0                  |
| 18    | 1/13/2020 12:52 | 0                 | 0                  |
| 19    | 1/13/2020 12:53 | 0                 | 0                  |
| 20    | 1/13/2020 12:54 | 0                 | 0                  |
| 21    | 1/13/2020 12:55 | 0                 | 0                  |
| 22    | 1/13/2020 12:56 | 0                 | 0                  |
| 23    | 1/13/2020 12:57 | 0                 | 0                  |
| 24    | 1/13/2020 12:58 | 0                 | 0                  |
| 25    | 1/13/2020 12:59 | 0                 | 0                  |

|    |                 |   |   |
|----|-----------------|---|---|
| 26 | 1/13/2020 13:00 | 0 | 0 |
| 27 | 1/13/2020 13:01 | 0 | 0 |
| 28 | 1/13/2020 13:02 | 0 | 0 |
| 29 | 1/13/2020 13:03 | 0 | 0 |
| 30 | 1/13/2020 13:04 | 0 | 0 |
| 31 | 1/13/2020 13:05 | 0 | 0 |
| 32 | 1/13/2020 13:06 | 0 | 0 |
| 33 | 1/13/2020 13:07 | 0 | 0 |
| 34 | 1/13/2020 13:08 | 0 | 0 |
| 35 | 1/13/2020 13:09 | 0 | 0 |
| 36 | 1/13/2020 13:10 | 0 | 0 |
| 37 | 1/13/2020 13:11 | 0 | 0 |
| 38 | 1/13/2020 13:12 | 0 | 0 |
| 39 | 1/13/2020 13:13 | 0 | 0 |
| 40 | 1/13/2020 13:14 | 0 | 0 |
| 41 | 1/13/2020 13:15 | 0 | 0 |
| 42 | 1/13/2020 13:16 | 0 | 0 |
| 43 | 1/13/2020 13:17 | 0 | 0 |
| 44 | 1/13/2020 13:18 | 0 | 0 |
| 45 | 1/13/2020 13:19 | 0 | 0 |
| 46 | 1/13/2020 13:20 | 0 | 0 |
| 47 | 1/13/2020 13:21 | 0 | 0 |
| 48 | 1/13/2020 13:22 | 0 | 0 |
| 49 | 1/13/2020 13:23 | 0 | 0 |
| 50 | 1/13/2020 13:24 | 0 | 0 |
| 51 | 1/13/2020 13:25 | 0 | 0 |
| 52 | 1/13/2020 13:26 | 0 | 0 |
| 53 | 1/13/2020 13:27 | 0 | 0 |
| 54 | 1/13/2020 13:28 | 0 | 0 |
| 55 | 1/13/2020 13:29 | 0 | 0 |
| 56 | 1/13/2020 13:30 | 0 | 0 |
| 57 | 1/13/2020 13:31 | 0 | 0 |
| 58 | 1/13/2020 13:32 | 0 | 0 |
| 59 | 1/13/2020 13:33 | 0 | 0 |
| 60 | 1/13/2020 13:34 | 0 | 0 |
| 61 | 1/13/2020 13:35 | 0 | 0 |
| 62 | 1/13/2020 13:36 | 0 | 0 |
| 63 | 1/13/2020 13:37 | 0 | 0 |
| 64 | 1/13/2020 13:38 | 0 | 0 |
| 65 | 1/13/2020 13:39 | 0 | 0 |
| 66 | 1/13/2020 13:40 | 0 | 0 |
| 67 | 1/13/2020 13:41 | 0 | 0 |
| 68 | 1/13/2020 13:42 | 0 | 0 |
| 69 | 1/13/2020 13:43 | 0 | 0 |
| 70 | 1/13/2020 13:44 | 0 | 0 |
| 71 | 1/13/2020 13:45 | 0 | 0 |
| 72 | 1/13/2020 13:46 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 73  | 1/13/2020 13:47 | 0 | 0 |
| 74  | 1/13/2020 13:48 | 0 | 0 |
| 75  | 1/13/2020 13:49 | 0 | 0 |
| 76  | 1/13/2020 13:50 | 0 | 0 |
| 77  | 1/13/2020 13:51 | 0 | 0 |
| 78  | 1/13/2020 13:52 | 0 | 0 |
| 79  | 1/13/2020 13:53 | 0 | 0 |
| 80  | 1/13/2020 13:54 | 0 | 0 |
| 81  | 1/13/2020 13:55 | 0 | 0 |
| 82  | 1/13/2020 13:56 | 0 | 0 |
| 83  | 1/13/2020 13:57 | 0 | 0 |
| 84  | 1/13/2020 13:58 | 0 | 0 |
| 85  | 1/13/2020 13:59 | 0 | 0 |
| 86  | 1/13/2020 14:00 | 0 | 0 |
| 87  | 1/13/2020 14:01 | 0 | 0 |
| 88  | 1/13/2020 14:02 | 0 | 0 |
| 89  | 1/13/2020 14:03 | 0 | 0 |
| 90  | 1/13/2020 14:04 | 0 | 0 |
| 91  | 1/13/2020 14:05 | 0 | 0 |
| 92  | 1/13/2020 14:06 | 0 | 0 |
| 93  | 1/13/2020 14:07 | 0 | 0 |
| 94  | 1/13/2020 14:08 | 0 | 0 |
| 95  | 1/13/2020 14:09 | 0 | 0 |
| 96  | 1/13/2020 14:10 | 0 | 0 |
| 97  | 1/13/2020 14:11 | 0 | 0 |
| 98  | 1/13/2020 14:12 | 0 | 0 |
| 99  | 1/13/2020 14:13 | 0 | 0 |
| 100 | 1/13/2020 14:14 | 0 | 0 |
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| 102 | 1/13/2020 14:16 | 0 | 0 |
| 103 | 1/13/2020 14:17 | 0 | 0 |
| 104 | 1/13/2020 14:18 | 0 | 0 |
| 105 | 1/13/2020 14:19 | 0 | 0 |
| 106 | 1/13/2020 14:20 | 0 | 0 |
| 107 | 1/13/2020 14:21 | 0 | 0 |
| 108 | 1/13/2020 14:22 | 0 | 0 |
| 109 | 1/13/2020 14:23 | 0 | 0 |
| 110 | 1/13/2020 14:24 | 0 | 0 |
| 111 | 1/13/2020 14:25 | 0 | 0 |
| 112 | 1/13/2020 14:26 | 0 | 0 |
| 113 | 1/13/2020 14:27 | 0 | 0 |
| 114 | 1/13/2020 14:28 | 0 | 0 |
| 115 | 1/13/2020 14:29 | 0 | 0 |
| 116 | 1/13/2020 14:30 | 0 | 0 |
| 117 | 1/13/2020 14:31 | 0 | 0 |
| 118 | 1/13/2020 14:32 | 0 | 0 |
| 119 | 1/13/2020 14:33 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
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| 122 | 1/13/2020 14:36 | 0 | 0 |
| 123 | 1/13/2020 14:37 | 0 | 0 |
| 124 | 1/13/2020 14:38 | 0 | 0 |
| 125 | 1/13/2020 14:39 | 0 | 0 |
| 126 | 1/13/2020 14:40 | 0 | 0 |
| 127 | 1/13/2020 14:41 | 0 | 0 |
| 128 | 1/13/2020 14:42 | 0 | 0 |
| 129 | 1/13/2020 14:43 | 0 | 0 |
| 130 | 1/13/2020 14:44 | 0 | 0 |
| 131 | 1/13/2020 14:45 | 0 | 0 |
| 132 | 1/13/2020 14:46 | 0 | 0 |
| 133 | 1/13/2020 14:47 | 0 | 0 |
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| 144 | 1/13/2020 14:58 | 0 | 0 |
| 145 | 1/13/2020 14:59 | 0 | 0 |
| 146 | 1/13/2020 15:00 | 0 | 0 |
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| 149 | 1/13/2020 15:03 | 0 | 0 |
| 150 | 1/13/2020 15:04 | 0 | 0 |
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| 152 | 1/13/2020 15:06 | 0 | 0 |
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| 156 | 1/13/2020 15:10 | 0 | 0 |
| 157 | 1/13/2020 15:11 | 0 | 0 |
| 158 | 1/13/2020 15:12 | 0 | 0 |
| 159 | 1/13/2020 15:13 | 0 | 0 |
| 160 | 1/13/2020 15:14 | 0 | 0 |

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20/01/14 08:40

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

-----

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/14/2020 8:40

End 1/14/2020 11:37

Sample Per 60

Number of 177

-----

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0

Min 0

Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/14/2020 8:41 | 0                 | 0.1               | 0                  |
| 2     | 1/14/2020 8:42 | 0                 | 0                 | 0                  |
| 3     | 1/14/2020 8:43 | 0                 | 0                 | 0                  |
| 4     | 1/14/2020 8:44 | 0                 | 0                 | 0                  |
| 5     | 1/14/2020 8:45 | 0                 | 0                 | 0                  |

|    |                |   |   |   |
|----|----------------|---|---|---|
| 6  | 1/14/2020 8:46 | 0 | 0 | 0 |
| 7  | 1/14/2020 8:47 | 0 | 0 | 0 |
| 8  | 1/14/2020 8:48 | 0 | 0 | 0 |
| 9  | 1/14/2020 8:49 | 0 | 0 | 0 |
| 10 | 1/14/2020 8:50 | 0 | 0 | 0 |
| 11 | 1/14/2020 8:51 | 0 | 0 | 0 |
| 12 | 1/14/2020 8:52 | 0 | 0 | 0 |
| 13 | 1/14/2020 8:53 | 0 | 0 | 0 |
| 14 | 1/14/2020 8:54 | 0 | 0 | 0 |
| 15 | 1/14/2020 8:55 | 0 | 0 | 0 |
| 16 | 1/14/2020 8:56 | 0 | 0 | 0 |
| 17 | 1/14/2020 8:57 | 0 | 0 | 0 |
| 18 | 1/14/2020 8:58 | 0 | 0 | 0 |
| 19 | 1/14/2020 8:59 | 0 | 0 | 0 |
| 20 | 1/14/2020 9:00 | 0 | 0 | 0 |
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| 23 | 1/14/2020 9:03 | 0 | 0 | 0 |
| 24 | 1/14/2020 9:04 | 0 | 0 | 0 |
| 25 | 1/14/2020 9:05 | 0 | 0 | 0 |
| 26 | 1/14/2020 9:06 | 0 | 0 | 0 |
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| 28 | 1/14/2020 9:08 | 0 | 0 | 0 |
| 29 | 1/14/2020 9:09 | 0 | 0 | 0 |
| 30 | 1/14/2020 9:10 | 0 | 0 | 0 |
| 31 | 1/14/2020 9:11 | 0 | 0 | 0 |
| 32 | 1/14/2020 9:12 | 0 | 0 | 0 |
| 33 | 1/14/2020 9:13 | 0 | 0 | 0 |
| 34 | 1/14/2020 9:14 | 0 | 0 | 0 |
| 35 | 1/14/2020 9:15 | 0 | 0 | 0 |
| 36 | 1/14/2020 9:16 | 0 | 0 | 0 |
| 37 | 1/14/2020 9:17 | 0 | 0 | 0 |
| 38 | 1/14/2020 9:18 | 0 | 0 | 0 |
| 39 | 1/14/2020 9:19 | 0 | 0 | 0 |
| 40 | 1/14/2020 9:20 | 0 | 0 | 0 |
| 41 | 1/14/2020 9:21 | 0 | 0 | 0 |
| 42 | 1/14/2020 9:22 | 0 | 0 | 0 |
| 43 | 1/14/2020 9:23 | 0 | 0 | 0 |
| 44 | 1/14/2020 9:24 | 0 | 0 | 0 |
| 45 | 1/14/2020 9:25 | 0 | 0 | 0 |
| 46 | 1/14/2020 9:26 | 0 | 0 | 0 |
| 47 | 1/14/2020 9:27 | 0 | 0 | 0 |
| 48 | 1/14/2020 9:28 | 0 | 0 | 0 |
| 49 | 1/14/2020 9:29 | 0 | 0 | 0 |
| 50 | 1/14/2020 9:30 | 0 | 0 | 0 |
| 51 | 1/14/2020 9:31 | 0 | 0 | 0 |
| 52 | 1/14/2020 9:32 | 0 | 0 | 0 |



|    |                 |   |   |   |
|----|-----------------|---|---|---|
| 53 | 1/14/2020 9:33  | 0 | 0 | 0 |
| 54 | 1/14/2020 9:34  | 0 | 0 | 0 |
| 55 | 1/14/2020 9:35  | 0 | 0 | 0 |
| 56 | 1/14/2020 9:36  | 0 | 0 | 0 |
| 57 | 1/14/2020 9:37  | 0 | 0 | 0 |
| 58 | 1/14/2020 9:38  | 0 | 0 | 0 |
| 59 | 1/14/2020 9:39  | 0 | 0 | 0 |
| 60 | 1/14/2020 9:40  | 0 | 0 | 0 |
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| 68 | 1/14/2020 9:48  | 0 | 0 | 0 |
| 69 | 1/14/2020 9:49  | 0 | 0 | 0 |
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| 84 | 1/14/2020 10:04 | 0 | 0 | 0 |
| 85 | 1/14/2020 10:05 | 0 | 0 | 0 |
| 86 | 1/14/2020 10:06 | 0 | 0 | 0 |
| 87 | 1/14/2020 10:07 | 0 | 0 | 0 |
| 88 | 1/14/2020 10:08 | 0 | 0 | 0 |
| 89 | 1/14/2020 10:09 | 0 | 0 | 0 |
| 90 | 1/14/2020 10:10 | 0 | 0 | 0 |
| 91 | 1/14/2020 10:11 | 0 | 0 | 0 |
| 92 | 1/14/2020 10:12 | 0 | 0 | 0 |
| 93 | 1/14/2020 10:13 | 0 | 0 | 0 |
| 94 | 1/14/2020 10:14 | 0 | 0 | 0 |
| 95 | 1/14/2020 10:15 | 0 | 0 | 0 |
| 96 | 1/14/2020 10:16 | 0 | 0 | 0 |
| 97 | 1/14/2020 10:17 | 0 | 0 | 0 |
| 98 | 1/14/2020 10:18 | 0 | 0 | 0 |
| 99 | 1/14/2020 10:19 | 0 | 0 | 0 |

|     |                 |   |   |   |
|-----|-----------------|---|---|---|
| 100 | 1/14/2020 10:20 | 0 | 0 | 0 |
| 101 | 1/14/2020 10:21 | 0 | 0 | 0 |
| 102 | 1/14/2020 10:22 | 0 | 0 | 0 |
| 103 | 1/14/2020 10:23 | 0 | 0 | 0 |
| 104 | 1/14/2020 10:24 | 0 | 0 | 0 |
| 105 | 1/14/2020 10:25 | 0 | 0 | 0 |
| 106 | 1/14/2020 10:26 | 0 | 0 | 0 |
| 107 | 1/14/2020 10:27 | 0 | 0 | 0 |
| 108 | 1/14/2020 10:28 | 0 | 0 | 0 |
| 109 | 1/14/2020 10:29 | 0 | 0 | 0 |
| 110 | 1/14/2020 10:30 | 0 | 0 | 0 |
| 111 | 1/14/2020 10:31 | 0 | 0 | 0 |
| 112 | 1/14/2020 10:32 | 0 | 0 | 0 |
| 113 | 1/14/2020 10:33 | 0 | 0 | 0 |
| 114 | 1/14/2020 10:34 | 0 | 0 | 0 |
| 115 | 1/14/2020 10:35 | 0 | 0 | 0 |
| 116 | 1/14/2020 10:36 | 0 | 0 | 0 |
| 117 | 1/14/2020 10:37 | 0 | 0 | 0 |
| 118 | 1/14/2020 10:38 | 0 | 0 | 0 |
| 119 | 1/14/2020 10:39 | 0 | 0 | 0 |
| 120 | 1/14/2020 10:40 | 0 | 0 | 0 |
| 121 | 1/14/2020 10:41 | 0 | 0 | 0 |
| 122 | 1/14/2020 10:42 | 0 | 0 | 0 |
| 123 | 1/14/2020 10:43 | 0 | 0 | 0 |
| 124 | 1/14/2020 10:44 | 0 | 0 | 0 |
| 125 | 1/14/2020 10:45 | 0 | 0 | 0 |
| 126 | 1/14/2020 10:46 | 0 | 0 | 0 |
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| 140 | 1/14/2020 11:00 | 0 | 0 | 0 |
| 141 | 1/14/2020 11:01 | 0 | 0 | 0 |
| 142 | 1/14/2020 11:02 | 0 | 0 | 0 |
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| 145 | 1/14/2020 11:05 | 0 | 0 | 0 |
| 146 | 1/14/2020 11:06 | 0 | 0 | 0 |

|         |                 |   |     |   |
|---------|-----------------|---|-----|---|
| 147     | 1/14/2020 11:07 | 0 | 0   | 0 |
| 148     | 1/14/2020 11:08 | 0 | 0   | 0 |
| 149     | 1/14/2020 11:09 | 0 | 0   | 0 |
| 150     | 1/14/2020 11:10 | 0 | 0   | 0 |
| 151     | 1/14/2020 11:11 | 0 | 0   | 0 |
| 152     | 1/14/2020 11:12 | 0 | 0   | 0 |
| 153     | 1/14/2020 11:13 | 0 | 0   | 0 |
| 154     | 1/14/2020 11:14 | 0 | 0   | 0 |
| 155     | 1/14/2020 11:15 | 0 | 0   | 0 |
| 156     | 1/14/2020 11:16 | 0 | 0   | 0 |
| 157     | 1/14/2020 11:17 | 0 | 0   | 0 |
| 158     | 1/14/2020 11:18 | 0 | 0   | 0 |
| 159     | 1/14/2020 11:19 | 0 | 0   | 0 |
| 160     | 1/14/2020 11:20 | 0 | 0   | 0 |
| 161     | 1/14/2020 11:21 | 0 | 0   | 0 |
| 162     | 1/14/2020 11:22 | 0 | 0   | 0 |
| 163     | 1/14/2020 11:23 | 0 | 0   | 0 |
| 164     | 1/14/2020 11:24 | 0 | 0   | 0 |
| 165     | 1/14/2020 11:25 | 0 | 0   | 0 |
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| 168     | 1/14/2020 11:28 | 0 | 0   | 0 |
| 169     | 1/14/2020 11:29 | 0 | 0   | 0 |
| 170     | 1/14/2020 11:30 | 0 | 0   | 0 |
| 171     | 1/14/2020 11:31 | 0 | 0   | 0 |
| 172     | 1/14/2020 11:32 | 0 | 0   | 0 |
| 173     | 1/14/2020 11:33 | 0 | 0   | 0 |
| 174     | 1/14/2020 11:34 | 0 | 0   | 0 |
| 175     | 1/14/2020 11:35 | 0 | 0   | 0 |
| 176     | 1/14/2020 11:36 | 0 | 0   | 0 |
| 177     | 1/14/2020 11:37 | 0 | 0   | 0 |
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| Min     |                 | 0 | 0   | 0 |
| Average |                 | 0 | 0   | 0 |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
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| 7     | 1/14/2020 8:47 | 0                 | ---                |
| 8     | 1/14/2020 8:48 | 0                 | ---                |

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|----|----------------|-------|---|
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| 11 | 1/14/2020 8:51 | 0 --- |   |
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| 47 | 1/14/2020 9:27 | 0     | 0 |
| 48 | 1/14/2020 9:28 | 0     | 0 |
| 49 | 1/14/2020 9:29 | 0     | 0 |
| 50 | 1/14/2020 9:30 | 0     | 0 |
| 51 | 1/14/2020 9:31 | 0     | 0 |
| 52 | 1/14/2020 9:32 | 0     | 0 |
| 53 | 1/14/2020 9:33 | 0     | 0 |
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| 55 | 1/14/2020 9:35 | 0     | 0 |

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| 79  | 1/14/2020 9:59  | 0 | 0 |
| 80  | 1/14/2020 10:00 | 0 | 0 |
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| 82  | 1/14/2020 10:02 | 0 | 0 |
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| 85  | 1/14/2020 10:05 | 0 | 0 |
| 86  | 1/14/2020 10:06 | 0 | 0 |
| 87  | 1/14/2020 10:07 | 0 | 0 |
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| 89  | 1/14/2020 10:09 | 0 | 0 |
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| 91  | 1/14/2020 10:11 | 0 | 0 |
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| 102 | 1/14/2020 10:22 | 0 | 0 |

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| 121 | 1/14/2020 10:41 | 0 | 0 |
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| 126 | 1/14/2020 10:46 | 0 | 0 |
| 127 | 1/14/2020 10:47 | 0 | 0 |
| 128 | 1/14/2020 10:48 | 0 | 0 |
| 129 | 1/14/2020 10:49 | 0 | 0 |
| 130 | 1/14/2020 10:50 | 0 | 0 |
| 131 | 1/14/2020 10:51 | 0 | 0 |
| 132 | 1/14/2020 10:52 | 0 | 0 |
| 133 | 1/14/2020 10:53 | 0 | 0 |
| 134 | 1/14/2020 10:54 | 0 | 0 |
| 135 | 1/14/2020 10:55 | 0 | 0 |
| 136 | 1/14/2020 10:56 | 0 | 0 |
| 137 | 1/14/2020 10:57 | 0 | 0 |
| 138 | 1/14/2020 10:58 | 0 | 0 |
| 139 | 1/14/2020 10:59 | 0 | 0 |
| 140 | 1/14/2020 11:00 | 0 | 0 |
| 141 | 1/14/2020 11:01 | 0 | 0 |
| 142 | 1/14/2020 11:02 | 0 | 0 |
| 143 | 1/14/2020 11:03 | 0 | 0 |
| 144 | 1/14/2020 11:04 | 0 | 0 |
| 145 | 1/14/2020 11:05 | 0 | 0 |
| 146 | 1/14/2020 11:06 | 0 | 0 |
| 147 | 1/14/2020 11:07 | 0 | 0 |
| 148 | 1/14/2020 11:08 | 0 | 0 |
| 149 | 1/14/2020 11:09 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 150 | 1/14/2020 11:10 | 0 | 0 |
| 151 | 1/14/2020 11:11 | 0 | 0 |
| 152 | 1/14/2020 11:12 | 0 | 0 |
| 153 | 1/14/2020 11:13 | 0 | 0 |
| 154 | 1/14/2020 11:14 | 0 | 0 |
| 155 | 1/14/2020 11:15 | 0 | 0 |
| 156 | 1/14/2020 11:16 | 0 | 0 |
| 157 | 1/14/2020 11:17 | 0 | 0 |
| 158 | 1/14/2020 11:18 | 0 | 0 |
| 159 | 1/14/2020 11:19 | 0 | 0 |
| 160 | 1/14/2020 11:20 | 0 | 0 |
| 161 | 1/14/2020 11:21 | 0 | 0 |
| 162 | 1/14/2020 11:22 | 0 | 0 |
| 163 | 1/14/2020 11:23 | 0 | 0 |
| 164 | 1/14/2020 11:24 | 0 | 0 |
| 165 | 1/14/2020 11:25 | 0 | 0 |
| 166 | 1/14/2020 11:26 | 0 | 0 |
| 167 | 1/14/2020 11:27 | 0 | 0 |
| 168 | 1/14/2020 11:28 | 0 | 0 |
| 169 | 1/14/2020 11:29 | 0 | 0 |
| 170 | 1/14/2020 11:30 | 0 | 0 |
| 171 | 1/14/2020 11:31 | 0 | 0 |
| 172 | 1/14/2020 11:32 | 0 | 0 |
| 173 | 1/14/2020 11:33 | 0 | 0 |
| 174 | 1/14/2020 11:34 | 0 | 0 |
| 175 | 1/14/2020 11:35 | 0 | 0 |
| 176 | 1/14/2020 11:36 | 0 | 0 |
| 177 | 1/14/2020 11:37 | 0 | 0 |

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20/01/14 08:40

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Summary

-----

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

-----

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

-----

Site ID 12345678

User ID 12345678

-----

Begin 1/14/2020 8:40

End 1/14/2020 11:37

Sample Per 60

Number of 177

-----

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0

Min 0

Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/14/2020 8:41 | 0                 | 0.1               | 0                  |
| 2     | 1/14/2020 8:42 | 0                 | 0                 | 0                  |
| 3     | 1/14/2020 8:43 | 0                 | 0                 | 0                  |
| 4     | 1/14/2020 8:44 | 0                 | 0                 | 0                  |
| 5     | 1/14/2020 8:45 | 0                 | 0                 | 0                  |



|    |                |   |   |   |
|----|----------------|---|---|---|
| 6  | 1/14/2020 8:46 | 0 | 0 | 0 |
| 7  | 1/14/2020 8:47 | 0 | 0 | 0 |
| 8  | 1/14/2020 8:48 | 0 | 0 | 0 |
| 9  | 1/14/2020 8:49 | 0 | 0 | 0 |
| 10 | 1/14/2020 8:50 | 0 | 0 | 0 |
| 11 | 1/14/2020 8:51 | 0 | 0 | 0 |
| 12 | 1/14/2020 8:52 | 0 | 0 | 0 |
| 13 | 1/14/2020 8:53 | 0 | 0 | 0 |
| 14 | 1/14/2020 8:54 | 0 | 0 | 0 |
| 15 | 1/14/2020 8:55 | 0 | 0 | 0 |
| 16 | 1/14/2020 8:56 | 0 | 0 | 0 |
| 17 | 1/14/2020 8:57 | 0 | 0 | 0 |
| 18 | 1/14/2020 8:58 | 0 | 0 | 0 |
| 19 | 1/14/2020 8:59 | 0 | 0 | 0 |
| 20 | 1/14/2020 9:00 | 0 | 0 | 0 |
| 21 | 1/14/2020 9:01 | 0 | 0 | 0 |
| 22 | 1/14/2020 9:02 | 0 | 0 | 0 |
| 23 | 1/14/2020 9:03 | 0 | 0 | 0 |
| 24 | 1/14/2020 9:04 | 0 | 0 | 0 |
| 25 | 1/14/2020 9:05 | 0 | 0 | 0 |
| 26 | 1/14/2020 9:06 | 0 | 0 | 0 |
| 27 | 1/14/2020 9:07 | 0 | 0 | 0 |
| 28 | 1/14/2020 9:08 | 0 | 0 | 0 |
| 29 | 1/14/2020 9:09 | 0 | 0 | 0 |
| 30 | 1/14/2020 9:10 | 0 | 0 | 0 |
| 31 | 1/14/2020 9:11 | 0 | 0 | 0 |
| 32 | 1/14/2020 9:12 | 0 | 0 | 0 |
| 33 | 1/14/2020 9:13 | 0 | 0 | 0 |
| 34 | 1/14/2020 9:14 | 0 | 0 | 0 |
| 35 | 1/14/2020 9:15 | 0 | 0 | 0 |
| 36 | 1/14/2020 9:16 | 0 | 0 | 0 |
| 37 | 1/14/2020 9:17 | 0 | 0 | 0 |
| 38 | 1/14/2020 9:18 | 0 | 0 | 0 |
| 39 | 1/14/2020 9:19 | 0 | 0 | 0 |
| 40 | 1/14/2020 9:20 | 0 | 0 | 0 |
| 41 | 1/14/2020 9:21 | 0 | 0 | 0 |
| 42 | 1/14/2020 9:22 | 0 | 0 | 0 |
| 43 | 1/14/2020 9:23 | 0 | 0 | 0 |
| 44 | 1/14/2020 9:24 | 0 | 0 | 0 |
| 45 | 1/14/2020 9:25 | 0 | 0 | 0 |
| 46 | 1/14/2020 9:26 | 0 | 0 | 0 |
| 47 | 1/14/2020 9:27 | 0 | 0 | 0 |
| 48 | 1/14/2020 9:28 | 0 | 0 | 0 |
| 49 | 1/14/2020 9:29 | 0 | 0 | 0 |
| 50 | 1/14/2020 9:30 | 0 | 0 | 0 |
| 51 | 1/14/2020 9:31 | 0 | 0 | 0 |
| 52 | 1/14/2020 9:32 | 0 | 0 | 0 |

|    |                 |   |   |   |
|----|-----------------|---|---|---|
| 53 | 1/14/2020 9:33  | 0 | 0 | 0 |
| 54 | 1/14/2020 9:34  | 0 | 0 | 0 |
| 55 | 1/14/2020 9:35  | 0 | 0 | 0 |
| 56 | 1/14/2020 9:36  | 0 | 0 | 0 |
| 57 | 1/14/2020 9:37  | 0 | 0 | 0 |
| 58 | 1/14/2020 9:38  | 0 | 0 | 0 |
| 59 | 1/14/2020 9:39  | 0 | 0 | 0 |
| 60 | 1/14/2020 9:40  | 0 | 0 | 0 |
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| 62 | 1/14/2020 9:42  | 0 | 0 | 0 |
| 63 | 1/14/2020 9:43  | 0 | 0 | 0 |
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| 65 | 1/14/2020 9:45  | 0 | 0 | 0 |
| 66 | 1/14/2020 9:46  | 0 | 0 | 0 |
| 67 | 1/14/2020 9:47  | 0 | 0 | 0 |
| 68 | 1/14/2020 9:48  | 0 | 0 | 0 |
| 69 | 1/14/2020 9:49  | 0 | 0 | 0 |
| 70 | 1/14/2020 9:50  | 0 | 0 | 0 |
| 71 | 1/14/2020 9:51  | 0 | 0 | 0 |
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| 74 | 1/14/2020 9:54  | 0 | 0 | 0 |
| 75 | 1/14/2020 9:55  | 0 | 0 | 0 |
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| 77 | 1/14/2020 9:57  | 0 | 0 | 0 |
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| 79 | 1/14/2020 9:59  | 0 | 0 | 0 |
| 80 | 1/14/2020 10:00 | 0 | 0 | 0 |
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| 84 | 1/14/2020 10:04 | 0 | 0 | 0 |
| 85 | 1/14/2020 10:05 | 0 | 0 | 0 |
| 86 | 1/14/2020 10:06 | 0 | 0 | 0 |
| 87 | 1/14/2020 10:07 | 0 | 0 | 0 |
| 88 | 1/14/2020 10:08 | 0 | 0 | 0 |
| 89 | 1/14/2020 10:09 | 0 | 0 | 0 |
| 90 | 1/14/2020 10:10 | 0 | 0 | 0 |
| 91 | 1/14/2020 10:11 | 0 | 0 | 0 |
| 92 | 1/14/2020 10:12 | 0 | 0 | 0 |
| 93 | 1/14/2020 10:13 | 0 | 0 | 0 |
| 94 | 1/14/2020 10:14 | 0 | 0 | 0 |
| 95 | 1/14/2020 10:15 | 0 | 0 | 0 |
| 96 | 1/14/2020 10:16 | 0 | 0 | 0 |
| 97 | 1/14/2020 10:17 | 0 | 0 | 0 |
| 98 | 1/14/2020 10:18 | 0 | 0 | 0 |
| 99 | 1/14/2020 10:19 | 0 | 0 | 0 |

|     |                 |   |   |   |
|-----|-----------------|---|---|---|
| 100 | 1/14/2020 10:20 | 0 | 0 | 0 |
| 101 | 1/14/2020 10:21 | 0 | 0 | 0 |
| 102 | 1/14/2020 10:22 | 0 | 0 | 0 |
| 103 | 1/14/2020 10:23 | 0 | 0 | 0 |
| 104 | 1/14/2020 10:24 | 0 | 0 | 0 |
| 105 | 1/14/2020 10:25 | 0 | 0 | 0 |
| 106 | 1/14/2020 10:26 | 0 | 0 | 0 |
| 107 | 1/14/2020 10:27 | 0 | 0 | 0 |
| 108 | 1/14/2020 10:28 | 0 | 0 | 0 |
| 109 | 1/14/2020 10:29 | 0 | 0 | 0 |
| 110 | 1/14/2020 10:30 | 0 | 0 | 0 |
| 111 | 1/14/2020 10:31 | 0 | 0 | 0 |
| 112 | 1/14/2020 10:32 | 0 | 0 | 0 |
| 113 | 1/14/2020 10:33 | 0 | 0 | 0 |
| 114 | 1/14/2020 10:34 | 0 | 0 | 0 |
| 115 | 1/14/2020 10:35 | 0 | 0 | 0 |
| 116 | 1/14/2020 10:36 | 0 | 0 | 0 |
| 117 | 1/14/2020 10:37 | 0 | 0 | 0 |
| 118 | 1/14/2020 10:38 | 0 | 0 | 0 |
| 119 | 1/14/2020 10:39 | 0 | 0 | 0 |
| 120 | 1/14/2020 10:40 | 0 | 0 | 0 |
| 121 | 1/14/2020 10:41 | 0 | 0 | 0 |
| 122 | 1/14/2020 10:42 | 0 | 0 | 0 |
| 123 | 1/14/2020 10:43 | 0 | 0 | 0 |
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| 126 | 1/14/2020 10:46 | 0 | 0 | 0 |
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| 129 | 1/14/2020 10:49 | 0 | 0 | 0 |
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| 131 | 1/14/2020 10:51 | 0 | 0 | 0 |
| 132 | 1/14/2020 10:52 | 0 | 0 | 0 |
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| 136 | 1/14/2020 10:56 | 0 | 0 | 0 |
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| 139 | 1/14/2020 10:59 | 0 | 0 | 0 |
| 140 | 1/14/2020 11:00 | 0 | 0 | 0 |
| 141 | 1/14/2020 11:01 | 0 | 0 | 0 |
| 142 | 1/14/2020 11:02 | 0 | 0 | 0 |
| 143 | 1/14/2020 11:03 | 0 | 0 | 0 |
| 144 | 1/14/2020 11:04 | 0 | 0 | 0 |
| 145 | 1/14/2020 11:05 | 0 | 0 | 0 |
| 146 | 1/14/2020 11:06 | 0 | 0 | 0 |

|         |                 |   |     |   |
|---------|-----------------|---|-----|---|
| 147     | 1/14/2020 11:07 | 0 | 0   | 0 |
| 148     | 1/14/2020 11:08 | 0 | 0   | 0 |
| 149     | 1/14/2020 11:09 | 0 | 0   | 0 |
| 150     | 1/14/2020 11:10 | 0 | 0   | 0 |
| 151     | 1/14/2020 11:11 | 0 | 0   | 0 |
| 152     | 1/14/2020 11:12 | 0 | 0   | 0 |
| 153     | 1/14/2020 11:13 | 0 | 0   | 0 |
| 154     | 1/14/2020 11:14 | 0 | 0   | 0 |
| 155     | 1/14/2020 11:15 | 0 | 0   | 0 |
| 156     | 1/14/2020 11:16 | 0 | 0   | 0 |
| 157     | 1/14/2020 11:17 | 0 | 0   | 0 |
| 158     | 1/14/2020 11:18 | 0 | 0   | 0 |
| 159     | 1/14/2020 11:19 | 0 | 0   | 0 |
| 160     | 1/14/2020 11:20 | 0 | 0   | 0 |
| 161     | 1/14/2020 11:21 | 0 | 0   | 0 |
| 162     | 1/14/2020 11:22 | 0 | 0   | 0 |
| 163     | 1/14/2020 11:23 | 0 | 0   | 0 |
| 164     | 1/14/2020 11:24 | 0 | 0   | 0 |
| 165     | 1/14/2020 11:25 | 0 | 0   | 0 |
| 166     | 1/14/2020 11:26 | 0 | 0   | 0 |
| 167     | 1/14/2020 11:27 | 0 | 0   | 0 |
| 168     | 1/14/2020 11:28 | 0 | 0   | 0 |
| 169     | 1/14/2020 11:29 | 0 | 0   | 0 |
| 170     | 1/14/2020 11:30 | 0 | 0   | 0 |
| 171     | 1/14/2020 11:31 | 0 | 0   | 0 |
| 172     | 1/14/2020 11:32 | 0 | 0   | 0 |
| 173     | 1/14/2020 11:33 | 0 | 0   | 0 |
| 174     | 1/14/2020 11:34 | 0 | 0   | 0 |
| 175     | 1/14/2020 11:35 | 0 | 0   | 0 |
| 176     | 1/14/2020 11:36 | 0 | 0   | 0 |
| 177     | 1/14/2020 11:37 | 0 | 0   | 0 |
| Peak    |                 | 0 | 0.1 | 0 |
| Min     |                 | 0 | 0   | 0 |
| Average |                 | 0 | 0   | 0 |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/14/2020 8:41 | 0                 | ---                |
| 2     | 1/14/2020 8:42 | 0                 | ---                |
| 3     | 1/14/2020 8:43 | 0                 | ---                |
| 4     | 1/14/2020 8:44 | 0                 | ---                |
| 5     | 1/14/2020 8:45 | 0                 | ---                |
| 6     | 1/14/2020 8:46 | 0                 | ---                |
| 7     | 1/14/2020 8:47 | 0                 | ---                |
| 8     | 1/14/2020 8:48 | 0                 | ---                |

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| 17 | 1/14/2020 8:57 | 0     | 0 |
| 18 | 1/14/2020 8:58 | 0     | 0 |
| 19 | 1/14/2020 8:59 | 0     | 0 |
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| 22 | 1/14/2020 9:02 | 0     | 0 |
| 23 | 1/14/2020 9:03 | 0     | 0 |
| 24 | 1/14/2020 9:04 | 0     | 0 |
| 25 | 1/14/2020 9:05 | 0     | 0 |
| 26 | 1/14/2020 9:06 | 0     | 0 |
| 27 | 1/14/2020 9:07 | 0     | 0 |
| 28 | 1/14/2020 9:08 | 0     | 0 |
| 29 | 1/14/2020 9:09 | 0     | 0 |
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| 32 | 1/14/2020 9:12 | 0     | 0 |
| 33 | 1/14/2020 9:13 | 0     | 0 |
| 34 | 1/14/2020 9:14 | 0     | 0 |
| 35 | 1/14/2020 9:15 | 0     | 0 |
| 36 | 1/14/2020 9:16 | 0     | 0 |
| 37 | 1/14/2020 9:17 | 0     | 0 |
| 38 | 1/14/2020 9:18 | 0     | 0 |
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| 42 | 1/14/2020 9:22 | 0     | 0 |
| 43 | 1/14/2020 9:23 | 0     | 0 |
| 44 | 1/14/2020 9:24 | 0     | 0 |
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| 46 | 1/14/2020 9:26 | 0     | 0 |
| 47 | 1/14/2020 9:27 | 0     | 0 |
| 48 | 1/14/2020 9:28 | 0     | 0 |
| 49 | 1/14/2020 9:29 | 0     | 0 |
| 50 | 1/14/2020 9:30 | 0     | 0 |
| 51 | 1/14/2020 9:31 | 0     | 0 |
| 52 | 1/14/2020 9:32 | 0     | 0 |
| 53 | 1/14/2020 9:33 | 0     | 0 |
| 54 | 1/14/2020 9:34 | 0     | 0 |
| 55 | 1/14/2020 9:35 | 0     | 0 |

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| 72  | 1/14/2020 9:52  | 0 | 0 |
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| 74  | 1/14/2020 9:54  | 0 | 0 |
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| 78  | 1/14/2020 9:58  | 0 | 0 |
| 79  | 1/14/2020 9:59  | 0 | 0 |
| 80  | 1/14/2020 10:00 | 0 | 0 |
| 81  | 1/14/2020 10:01 | 0 | 0 |
| 82  | 1/14/2020 10:02 | 0 | 0 |
| 83  | 1/14/2020 10:03 | 0 | 0 |
| 84  | 1/14/2020 10:04 | 0 | 0 |
| 85  | 1/14/2020 10:05 | 0 | 0 |
| 86  | 1/14/2020 10:06 | 0 | 0 |
| 87  | 1/14/2020 10:07 | 0 | 0 |
| 88  | 1/14/2020 10:08 | 0 | 0 |
| 89  | 1/14/2020 10:09 | 0 | 0 |
| 90  | 1/14/2020 10:10 | 0 | 0 |
| 91  | 1/14/2020 10:11 | 0 | 0 |
| 92  | 1/14/2020 10:12 | 0 | 0 |
| 93  | 1/14/2020 10:13 | 0 | 0 |
| 94  | 1/14/2020 10:14 | 0 | 0 |
| 95  | 1/14/2020 10:15 | 0 | 0 |
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| 102 | 1/14/2020 10:22 | 0 | 0 |

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| 106 | 1/14/2020 10:26 | 0 | 0 |
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| 139 | 1/14/2020 10:59 | 0 | 0 |
| 140 | 1/14/2020 11:00 | 0 | 0 |
| 141 | 1/14/2020 11:01 | 0 | 0 |
| 142 | 1/14/2020 11:02 | 0 | 0 |
| 143 | 1/14/2020 11:03 | 0 | 0 |
| 144 | 1/14/2020 11:04 | 0 | 0 |
| 145 | 1/14/2020 11:05 | 0 | 0 |
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| 147 | 1/14/2020 11:07 | 0 | 0 |
| 148 | 1/14/2020 11:08 | 0 | 0 |
| 149 | 1/14/2020 11:09 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 150 | 1/14/2020 11:10 | 0 | 0 |
| 151 | 1/14/2020 11:11 | 0 | 0 |
| 152 | 1/14/2020 11:12 | 0 | 0 |
| 153 | 1/14/2020 11:13 | 0 | 0 |
| 154 | 1/14/2020 11:14 | 0 | 0 |
| 155 | 1/14/2020 11:15 | 0 | 0 |
| 156 | 1/14/2020 11:16 | 0 | 0 |
| 157 | 1/14/2020 11:17 | 0 | 0 |
| 158 | 1/14/2020 11:18 | 0 | 0 |
| 159 | 1/14/2020 11:19 | 0 | 0 |
| 160 | 1/14/2020 11:20 | 0 | 0 |
| 161 | 1/14/2020 11:21 | 0 | 0 |
| 162 | 1/14/2020 11:22 | 0 | 0 |
| 163 | 1/14/2020 11:23 | 0 | 0 |
| 164 | 1/14/2020 11:24 | 0 | 0 |
| 165 | 1/14/2020 11:25 | 0 | 0 |
| 166 | 1/14/2020 11:26 | 0 | 0 |
| 167 | 1/14/2020 11:27 | 0 | 0 |
| 168 | 1/14/2020 11:28 | 0 | 0 |
| 169 | 1/14/2020 11:29 | 0 | 0 |
| 170 | 1/14/2020 11:30 | 0 | 0 |
| 171 | 1/14/2020 11:31 | 0 | 0 |
| 172 | 1/14/2020 11:32 | 0 | 0 |
| 173 | 1/14/2020 11:33 | 0 | 0 |
| 174 | 1/14/2020 11:34 | 0 | 0 |
| 175 | 1/14/2020 11:35 | 0 | 0 |
| 176 | 1/14/2020 11:36 | 0 | 0 |
| 177 | 1/14/2020 11:37 | 0 | 0 |



20/01/15 08:37

\*\*\*\*\*

## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-910712

Unit Firmw V2.20A

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Battery Low

Site ID 12345678

User ID 12345678

Begin 1/15/2020 8:37

End 1/15/2020 12:41

Sample Per 60

Number of 244

Sensor PID(ppm)

Sensor SN S023030021Q5

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 12:41

Peak 0.1

Min 0

Average 0

\*\*\*\*\*

## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/15/2020 8:38 | 0                 | 0.1               | 0                  |
| 2     | 1/15/2020 8:39 | 0                 | 0                 | 0                  |
| 3     | 1/15/2020 8:40 | 0                 | 0                 | 0                  |
| 4     | 1/15/2020 8:41 | 0                 | 0                 | 0                  |
| 5     | 1/15/2020 8:42 | 0                 | 0                 | 0                  |

|    |                |   |   |   |
|----|----------------|---|---|---|
| 6  | 1/15/2020 8:43 | 0 | 0 | 0 |
| 7  | 1/15/2020 8:44 | 0 | 0 | 0 |
| 8  | 1/15/2020 8:45 | 0 | 0 | 0 |
| 9  | 1/15/2020 8:46 | 0 | 0 | 0 |
| 10 | 1/15/2020 8:47 | 0 | 0 | 0 |
| 11 | 1/15/2020 8:48 | 0 | 0 | 0 |
| 12 | 1/15/2020 8:49 | 0 | 0 | 0 |
| 13 | 1/15/2020 8:50 | 0 | 0 | 0 |
| 14 | 1/15/2020 8:51 | 0 | 0 | 0 |
| 15 | 1/15/2020 8:52 | 0 | 0 | 0 |
| 16 | 1/15/2020 8:53 | 0 | 0 | 0 |
| 17 | 1/15/2020 8:54 | 0 | 0 | 0 |
| 18 | 1/15/2020 8:55 | 0 | 0 | 0 |
| 19 | 1/15/2020 8:56 | 0 | 0 | 0 |
| 20 | 1/15/2020 8:57 | 0 | 0 | 0 |
| 21 | 1/15/2020 8:58 | 0 | 0 | 0 |
| 22 | 1/15/2020 8:59 | 0 | 0 | 0 |
| 23 | 1/15/2020 9:00 | 0 | 0 | 0 |
| 24 | 1/15/2020 9:01 | 0 | 0 | 0 |
| 25 | 1/15/2020 9:02 | 0 | 0 | 0 |
| 26 | 1/15/2020 9:03 | 0 | 0 | 0 |
| 27 | 1/15/2020 9:04 | 0 | 0 | 0 |
| 28 | 1/15/2020 9:05 | 0 | 0 | 0 |
| 29 | 1/15/2020 9:06 | 0 | 0 | 0 |
| 30 | 1/15/2020 9:07 | 0 | 0 | 0 |
| 31 | 1/15/2020 9:08 | 0 | 0 | 0 |
| 32 | 1/15/2020 9:09 | 0 | 0 | 0 |
| 33 | 1/15/2020 9:10 | 0 | 0 | 0 |
| 34 | 1/15/2020 9:11 | 0 | 0 | 0 |
| 35 | 1/15/2020 9:12 | 0 | 0 | 0 |
| 36 | 1/15/2020 9:13 | 0 | 0 | 0 |
| 37 | 1/15/2020 9:14 | 0 | 0 | 0 |
| 38 | 1/15/2020 9:15 | 0 | 0 | 0 |
| 39 | 1/15/2020 9:16 | 0 | 0 | 0 |
| 40 | 1/15/2020 9:17 | 0 | 0 | 0 |
| 41 | 1/15/2020 9:18 | 0 | 0 | 0 |
| 42 | 1/15/2020 9:19 | 0 | 0 | 0 |
| 43 | 1/15/2020 9:20 | 0 | 0 | 0 |
| 44 | 1/15/2020 9:21 | 0 | 0 | 0 |
| 45 | 1/15/2020 9:22 | 0 | 0 | 0 |
| 46 | 1/15/2020 9:23 | 0 | 0 | 0 |
| 47 | 1/15/2020 9:24 | 0 | 0 | 0 |
| 48 | 1/15/2020 9:25 | 0 | 0 | 0 |
| 49 | 1/15/2020 9:26 | 0 | 0 | 0 |
| 50 | 1/15/2020 9:27 | 0 | 0 | 0 |
| 51 | 1/15/2020 9:28 | 0 | 0 | 0 |
| 52 | 1/15/2020 9:29 | 0 | 0 | 0 |

|    |                 |   |     |   |
|----|-----------------|---|-----|---|
| 53 | 1/15/2020 9:30  | 0 | 0   | 0 |
| 54 | 1/15/2020 9:31  | 0 | 0   | 0 |
| 55 | 1/15/2020 9:32  | 0 | 0   | 0 |
| 56 | 1/15/2020 9:33  | 0 | 0   | 0 |
| 57 | 1/15/2020 9:34  | 0 | 0   | 0 |
| 58 | 1/15/2020 9:35  | 0 | 0   | 0 |
| 59 | 1/15/2020 9:36  | 0 | 0   | 0 |
| 60 | 1/15/2020 9:37  | 0 | 0   | 0 |
| 61 | 1/15/2020 9:38  | 0 | 0   | 0 |
| 62 | 1/15/2020 9:39  | 0 | 0   | 0 |
| 63 | 1/15/2020 9:40  | 0 | 0   | 0 |
| 64 | 1/15/2020 9:41  | 0 | 0   | 0 |
| 65 | 1/15/2020 9:42  | 0 | 0   | 0 |
| 66 | 1/15/2020 9:43  | 0 | 0   | 0 |
| 67 | 1/15/2020 9:44  | 0 | 0   | 0 |
| 68 | 1/15/2020 9:45  | 0 | 0   | 0 |
| 69 | 1/15/2020 9:46  | 0 | 0   | 0 |
| 70 | 1/15/2020 9:47  | 0 | 0   | 0 |
| 71 | 1/15/2020 9:48  | 0 | 0   | 0 |
| 72 | 1/15/2020 9:49  | 0 | 0   | 0 |
| 73 | 1/15/2020 9:50  | 0 | 0   | 0 |
| 74 | 1/15/2020 9:51  | 0 | 0   | 0 |
| 75 | 1/15/2020 9:52  | 0 | 0   | 0 |
| 76 | 1/15/2020 9:53  | 0 | 0   | 0 |
| 77 | 1/15/2020 9:54  | 0 | 0.1 | 0 |
| 78 | 1/15/2020 9:55  | 0 | 0   | 0 |
| 79 | 1/15/2020 9:56  | 0 | 0   | 0 |
| 80 | 1/15/2020 9:57  | 0 | 0   | 0 |
| 81 | 1/15/2020 9:58  | 0 | 0   | 0 |
| 82 | 1/15/2020 9:59  | 0 | 0   | 0 |
| 83 | 1/15/2020 10:00 | 0 | 0   | 0 |
| 84 | 1/15/2020 10:01 | 0 | 0   | 0 |
| 85 | 1/15/2020 10:02 | 0 | 0   | 0 |
| 86 | 1/15/2020 10:03 | 0 | 0   | 0 |
| 87 | 1/15/2020 10:04 | 0 | 0   | 0 |
| 88 | 1/15/2020 10:05 | 0 | 0   | 0 |
| 89 | 1/15/2020 10:06 | 0 | 0   | 0 |
| 90 | 1/15/2020 10:07 | 0 | 0   | 0 |
| 91 | 1/15/2020 10:08 | 0 | 0   | 0 |
| 92 | 1/15/2020 10:09 | 0 | 0   | 0 |
| 93 | 1/15/2020 10:10 | 0 | 0   | 0 |
| 94 | 1/15/2020 10:11 | 0 | 0   | 0 |
| 95 | 1/15/2020 10:12 | 0 | 0   | 0 |
| 96 | 1/15/2020 10:13 | 0 | 0   | 0 |
| 97 | 1/15/2020 10:14 | 0 | 0   | 0 |
| 98 | 1/15/2020 10:15 | 0 | 0   | 0 |
| 99 | 1/15/2020 10:16 | 0 | 0   | 0 |

|     |                 |   |   |   |
|-----|-----------------|---|---|---|
| 100 | 1/15/2020 10:17 | 0 | 0 | 0 |
| 101 | 1/15/2020 10:18 | 0 | 0 | 0 |
| 102 | 1/15/2020 10:19 | 0 | 0 | 0 |
| 103 | 1/15/2020 10:20 | 0 | 0 | 0 |
| 104 | 1/15/2020 10:21 | 0 | 0 | 0 |
| 105 | 1/15/2020 10:22 | 0 | 0 | 0 |
| 106 | 1/15/2020 10:23 | 0 | 0 | 0 |
| 107 | 1/15/2020 10:24 | 0 | 0 | 0 |
| 108 | 1/15/2020 10:25 | 0 | 0 | 0 |
| 109 | 1/15/2020 10:26 | 0 | 0 | 0 |
| 110 | 1/15/2020 10:27 | 0 | 0 | 0 |
| 111 | 1/15/2020 10:28 | 0 | 0 | 0 |
| 112 | 1/15/2020 10:29 | 0 | 0 | 0 |
| 113 | 1/15/2020 10:30 | 0 | 0 | 0 |
| 114 | 1/15/2020 10:31 | 0 | 0 | 0 |
| 115 | 1/15/2020 10:32 | 0 | 0 | 0 |
| 116 | 1/15/2020 10:33 | 0 | 0 | 0 |
| 117 | 1/15/2020 10:34 | 0 | 0 | 0 |
| 118 | 1/15/2020 10:35 | 0 | 0 | 0 |
| 119 | 1/15/2020 10:36 | 0 | 0 | 0 |
| 120 | 1/15/2020 10:37 | 0 | 0 | 0 |
| 121 | 1/15/2020 10:38 | 0 | 0 | 0 |
| 122 | 1/15/2020 10:39 | 0 | 0 | 0 |
| 123 | 1/15/2020 10:40 | 0 | 0 | 0 |
| 124 | 1/15/2020 10:41 | 0 | 0 | 0 |
| 125 | 1/15/2020 10:42 | 0 | 0 | 0 |
| 126 | 1/15/2020 10:43 | 0 | 0 | 0 |
| 127 | 1/15/2020 10:44 | 0 | 0 | 0 |
| 128 | 1/15/2020 10:45 | 0 | 0 | 0 |
| 129 | 1/15/2020 10:46 | 0 | 0 | 0 |
| 130 | 1/15/2020 10:47 | 0 | 0 | 0 |
| 131 | 1/15/2020 10:48 | 0 | 0 | 0 |
| 132 | 1/15/2020 10:49 | 0 | 0 | 0 |
| 133 | 1/15/2020 10:50 | 0 | 0 | 0 |
| 134 | 1/15/2020 10:51 | 0 | 0 | 0 |
| 135 | 1/15/2020 10:52 | 0 | 0 | 0 |
| 136 | 1/15/2020 10:53 | 0 | 0 | 0 |
| 137 | 1/15/2020 10:54 | 0 | 0 | 0 |
| 138 | 1/15/2020 10:55 | 0 | 0 | 0 |
| 139 | 1/15/2020 10:56 | 0 | 0 | 0 |
| 140 | 1/15/2020 10:57 | 0 | 0 | 0 |
| 141 | 1/15/2020 10:58 | 0 | 0 | 0 |
| 142 | 1/15/2020 10:59 | 0 | 0 | 0 |
| 143 | 1/15/2020 11:00 | 0 | 0 | 0 |
| 144 | 1/15/2020 11:01 | 0 | 0 | 0 |
| 145 | 1/15/2020 11:02 | 0 | 0 | 0 |
| 146 | 1/15/2020 11:03 | 0 | 0 | 0 |

|     |                 |   |     |     |
|-----|-----------------|---|-----|-----|
| 147 | 1/15/2020 11:04 | 0 | 0   | 0   |
| 148 | 1/15/2020 11:05 | 0 | 0   | 0   |
| 149 | 1/15/2020 11:06 | 0 | 0   | 0   |
| 150 | 1/15/2020 11:07 | 0 | 0   | 0   |
| 151 | 1/15/2020 11:08 | 0 | 0   | 0   |
| 152 | 1/15/2020 11:09 | 0 | 0   | 0   |
| 153 | 1/15/2020 11:10 | 0 | 0   | 0   |
| 154 | 1/15/2020 11:11 | 0 | 0   | 0   |
| 155 | 1/15/2020 11:12 | 0 | 0   | 0   |
| 156 | 1/15/2020 11:13 | 0 | 0   | 0   |
| 157 | 1/15/2020 11:14 | 0 | 0   | 0   |
| 158 | 1/15/2020 11:15 | 0 | 0.1 | 0.1 |
| 159 | 1/15/2020 11:16 | 0 | 0.1 | 0   |
| 160 | 1/15/2020 11:17 | 0 | 0   | 0   |
| 161 | 1/15/2020 11:18 | 0 | 0   | 0   |
| 162 | 1/15/2020 11:19 | 0 | 0   | 0   |
| 163 | 1/15/2020 11:20 | 0 | 0   | 0   |
| 164 | 1/15/2020 11:21 | 0 | 0   | 0   |
| 165 | 1/15/2020 11:22 | 0 | 0   | 0   |
| 166 | 1/15/2020 11:23 | 0 | 0   | 0   |
| 167 | 1/15/2020 11:24 | 0 | 0   | 0   |
| 168 | 1/15/2020 11:25 | 0 | 0   | 0   |
| 169 | 1/15/2020 11:26 | 0 | 0   | 0   |
| 170 | 1/15/2020 11:27 | 0 | 0   | 0   |
| 171 | 1/15/2020 11:28 | 0 | 0   | 0   |
| 172 | 1/15/2020 11:29 | 0 | 0   | 0   |
| 173 | 1/15/2020 11:30 | 0 | 0   | 0   |
| 174 | 1/15/2020 11:31 | 0 | 0   | 0   |
| 175 | 1/15/2020 11:32 | 0 | 0   | 0   |
| 176 | 1/15/2020 11:33 | 0 | 0   | 0   |
| 177 | 1/15/2020 11:34 | 0 | 0   | 0   |
| 178 | 1/15/2020 11:35 | 0 | 0   | 0   |
| 179 | 1/15/2020 11:36 | 0 | 0   | 0   |
| 180 | 1/15/2020 11:37 | 0 | 0   | 0   |
| 181 | 1/15/2020 11:38 | 0 | 0   | 0   |
| 182 | 1/15/2020 11:39 | 0 | 0   | 0   |
| 183 | 1/15/2020 11:40 | 0 | 0   | 0   |
| 184 | 1/15/2020 11:41 | 0 | 0   | 0   |
| 185 | 1/15/2020 11:42 | 0 | 0   | 0   |
| 186 | 1/15/2020 11:43 | 0 | 0   | 0   |
| 187 | 1/15/2020 11:44 | 0 | 0   | 0   |
| 188 | 1/15/2020 11:45 | 0 | 0   | 0   |
| 189 | 1/15/2020 11:46 | 0 | 0   | 0   |
| 190 | 1/15/2020 11:47 | 0 | 0   | 0   |
| 191 | 1/15/2020 11:48 | 0 | 0   | 0   |
| 192 | 1/15/2020 11:49 | 0 | 0   | 0   |
| 193 | 1/15/2020 11:50 | 0 | 0   | 0   |

|     |                 |   |     |   |
|-----|-----------------|---|-----|---|
| 194 | 1/15/2020 11:51 | 0 | 0   | 0 |
| 195 | 1/15/2020 11:52 | 0 | 0   | 0 |
| 196 | 1/15/2020 11:53 | 0 | 0   | 0 |
| 197 | 1/15/2020 11:54 | 0 | 0   | 0 |
| 198 | 1/15/2020 11:55 | 0 | 0   | 0 |
| 199 | 1/15/2020 11:56 | 0 | 0.1 | 0 |
| 200 | 1/15/2020 11:57 | 0 | 0   | 0 |
| 201 | 1/15/2020 11:58 | 0 | 0   | 0 |
| 202 | 1/15/2020 11:59 | 0 | 0   | 0 |
| 203 | 1/15/2020 12:00 | 0 | 0   | 0 |
| 204 | 1/15/2020 12:01 | 0 | 0   | 0 |
| 205 | 1/15/2020 12:02 | 0 | 0   | 0 |
| 206 | 1/15/2020 12:03 | 0 | 0   | 0 |
| 207 | 1/15/2020 12:04 | 0 | 0   | 0 |
| 208 | 1/15/2020 12:05 | 0 | 0   | 0 |
| 209 | 1/15/2020 12:06 | 0 | 0   | 0 |
| 210 | 1/15/2020 12:07 | 0 | 0   | 0 |
| 211 | 1/15/2020 12:08 | 0 | 0   | 0 |
| 212 | 1/15/2020 12:09 | 0 | 0   | 0 |
| 213 | 1/15/2020 12:10 | 0 | 0   | 0 |
| 214 | 1/15/2020 12:11 | 0 | 0   | 0 |
| 215 | 1/15/2020 12:12 | 0 | 0.1 | 0 |
| 216 | 1/15/2020 12:13 | 0 | 0   | 0 |
| 217 | 1/15/2020 12:14 | 0 | 0   | 0 |
| 218 | 1/15/2020 12:15 | 0 | 0   | 0 |
| 219 | 1/15/2020 12:16 | 0 | 0   | 0 |
| 220 | 1/15/2020 12:17 | 0 | 0   | 0 |
| 221 | 1/15/2020 12:18 | 0 | 0   | 0 |
| 222 | 1/15/2020 12:19 | 0 | 0   | 0 |
| 223 | 1/15/2020 12:20 | 0 | 0   | 0 |
| 224 | 1/15/2020 12:21 | 0 | 0   | 0 |
| 225 | 1/15/2020 12:22 | 0 | 0   | 0 |
| 226 | 1/15/2020 12:23 | 0 | 0   | 0 |
| 227 | 1/15/2020 12:24 | 0 | 0   | 0 |
| 228 | 1/15/2020 12:25 | 0 | 0   | 0 |
| 229 | 1/15/2020 12:26 | 0 | 0   | 0 |
| 230 | 1/15/2020 12:27 | 0 | 0   | 0 |
| 231 | 1/15/2020 12:28 | 0 | 0   | 0 |
| 232 | 1/15/2020 12:29 | 0 | 0   | 0 |
| 233 | 1/15/2020 12:30 | 0 | 0   | 0 |
| 234 | 1/15/2020 12:31 | 0 | 0.1 | 0 |
| 235 | 1/15/2020 12:32 | 0 | 0   | 0 |
| 236 | 1/15/2020 12:33 | 0 | 0   | 0 |
| 237 | 1/15/2020 12:34 | 0 | 0   | 0 |
| 238 | 1/15/2020 12:35 | 0 | 0   | 0 |
| 239 | 1/15/2020 12:36 | 0 | 0   | 0 |
| 240 | 1/15/2020 12:37 | 0 | 0   | 0 |

|         |                 |   |     |     |
|---------|-----------------|---|-----|-----|
| 241     | 1/15/2020 12:38 | 0 | 0   | 0   |
| 242     | 1/15/2020 12:39 | 0 | 0   | 0   |
| 243     | 1/15/2020 12:40 | 0 | 0   | 0   |
| 244     | 1/15/2020 12:41 | 0 | 0   | 0   |
| Peak    |                 | 0 | 0.1 | 0.1 |
| Min     |                 | 0 | 0   | 0   |
| Average |                 | 0 | 0   | 0   |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/15/2020 8:38 | 0                 | ---                |
| 2     | 1/15/2020 8:39 | 0                 | ---                |
| 3     | 1/15/2020 8:40 | 0                 | ---                |
| 4     | 1/15/2020 8:41 | 0                 | ---                |
| 5     | 1/15/2020 8:42 | 0                 | ---                |
| 6     | 1/15/2020 8:43 | 0                 | ---                |
| 7     | 1/15/2020 8:44 | 0                 | ---                |
| 8     | 1/15/2020 8:45 | 0                 | ---                |
| 9     | 1/15/2020 8:46 | 0                 | ---                |
| 10    | 1/15/2020 8:47 | 0                 | ---                |
| 11    | 1/15/2020 8:48 | 0                 | ---                |
| 12    | 1/15/2020 8:49 | 0                 | ---                |
| 13    | 1/15/2020 8:50 | 0                 | ---                |
| 14    | 1/15/2020 8:51 | 0                 | ---                |
| 15    | 1/15/2020 8:52 | 0                 | 0                  |
| 16    | 1/15/2020 8:53 | 0                 | 0                  |
| 17    | 1/15/2020 8:54 | 0                 | 0                  |
| 18    | 1/15/2020 8:55 | 0                 | 0                  |
| 19    | 1/15/2020 8:56 | 0                 | 0                  |
| 20    | 1/15/2020 8:57 | 0                 | 0                  |
| 21    | 1/15/2020 8:58 | 0                 | 0                  |
| 22    | 1/15/2020 8:59 | 0                 | 0                  |
| 23    | 1/15/2020 9:00 | 0                 | 0                  |
| 24    | 1/15/2020 9:01 | 0                 | 0                  |
| 25    | 1/15/2020 9:02 | 0                 | 0                  |
| 26    | 1/15/2020 9:03 | 0                 | 0                  |
| 27    | 1/15/2020 9:04 | 0                 | 0                  |
| 28    | 1/15/2020 9:05 | 0                 | 0                  |
| 29    | 1/15/2020 9:06 | 0                 | 0                  |
| 30    | 1/15/2020 9:07 | 0                 | 0                  |
| 31    | 1/15/2020 9:08 | 0                 | 0                  |
| 32    | 1/15/2020 9:09 | 0                 | 0                  |
| 33    | 1/15/2020 9:10 | 0                 | 0                  |
| 34    | 1/15/2020 9:11 | 0                 | 0                  |
| 35    | 1/15/2020 9:12 | 0                 | 0                  |

|    |                |   |   |
|----|----------------|---|---|
| 36 | 1/15/2020 9:13 | 0 | 0 |
| 37 | 1/15/2020 9:14 | 0 | 0 |
| 38 | 1/15/2020 9:15 | 0 | 0 |
| 39 | 1/15/2020 9:16 | 0 | 0 |
| 40 | 1/15/2020 9:17 | 0 | 0 |
| 41 | 1/15/2020 9:18 | 0 | 0 |
| 42 | 1/15/2020 9:19 | 0 | 0 |
| 43 | 1/15/2020 9:20 | 0 | 0 |
| 44 | 1/15/2020 9:21 | 0 | 0 |
| 45 | 1/15/2020 9:22 | 0 | 0 |
| 46 | 1/15/2020 9:23 | 0 | 0 |
| 47 | 1/15/2020 9:24 | 0 | 0 |
| 48 | 1/15/2020 9:25 | 0 | 0 |
| 49 | 1/15/2020 9:26 | 0 | 0 |
| 50 | 1/15/2020 9:27 | 0 | 0 |
| 51 | 1/15/2020 9:28 | 0 | 0 |
| 52 | 1/15/2020 9:29 | 0 | 0 |
| 53 | 1/15/2020 9:30 | 0 | 0 |
| 54 | 1/15/2020 9:31 | 0 | 0 |
| 55 | 1/15/2020 9:32 | 0 | 0 |
| 56 | 1/15/2020 9:33 | 0 | 0 |
| 57 | 1/15/2020 9:34 | 0 | 0 |
| 58 | 1/15/2020 9:35 | 0 | 0 |
| 59 | 1/15/2020 9:36 | 0 | 0 |
| 60 | 1/15/2020 9:37 | 0 | 0 |
| 61 | 1/15/2020 9:38 | 0 | 0 |
| 62 | 1/15/2020 9:39 | 0 | 0 |
| 63 | 1/15/2020 9:40 | 0 | 0 |
| 64 | 1/15/2020 9:41 | 0 | 0 |
| 65 | 1/15/2020 9:42 | 0 | 0 |
| 66 | 1/15/2020 9:43 | 0 | 0 |
| 67 | 1/15/2020 9:44 | 0 | 0 |
| 68 | 1/15/2020 9:45 | 0 | 0 |
| 69 | 1/15/2020 9:46 | 0 | 0 |
| 70 | 1/15/2020 9:47 | 0 | 0 |
| 71 | 1/15/2020 9:48 | 0 | 0 |
| 72 | 1/15/2020 9:49 | 0 | 0 |
| 73 | 1/15/2020 9:50 | 0 | 0 |
| 74 | 1/15/2020 9:51 | 0 | 0 |
| 75 | 1/15/2020 9:52 | 0 | 0 |
| 76 | 1/15/2020 9:53 | 0 | 0 |
| 77 | 1/15/2020 9:54 | 0 | 0 |
| 78 | 1/15/2020 9:55 | 0 | 0 |
| 79 | 1/15/2020 9:56 | 0 | 0 |
| 80 | 1/15/2020 9:57 | 0 | 0 |
| 81 | 1/15/2020 9:58 | 0 | 0 |
| 82 | 1/15/2020 9:59 | 0 | 0 |



|     |                 |   |   |
|-----|-----------------|---|---|
| 83  | 1/15/2020 10:00 | 0 | 0 |
| 84  | 1/15/2020 10:01 | 0 | 0 |
| 85  | 1/15/2020 10:02 | 0 | 0 |
| 86  | 1/15/2020 10:03 | 0 | 0 |
| 87  | 1/15/2020 10:04 | 0 | 0 |
| 88  | 1/15/2020 10:05 | 0 | 0 |
| 89  | 1/15/2020 10:06 | 0 | 0 |
| 90  | 1/15/2020 10:07 | 0 | 0 |
| 91  | 1/15/2020 10:08 | 0 | 0 |
| 92  | 1/15/2020 10:09 | 0 | 0 |
| 93  | 1/15/2020 10:10 | 0 | 0 |
| 94  | 1/15/2020 10:11 | 0 | 0 |
| 95  | 1/15/2020 10:12 | 0 | 0 |
| 96  | 1/15/2020 10:13 | 0 | 0 |
| 97  | 1/15/2020 10:14 | 0 | 0 |
| 98  | 1/15/2020 10:15 | 0 | 0 |
| 99  | 1/15/2020 10:16 | 0 | 0 |
| 100 | 1/15/2020 10:17 | 0 | 0 |
| 101 | 1/15/2020 10:18 | 0 | 0 |
| 102 | 1/15/2020 10:19 | 0 | 0 |
| 103 | 1/15/2020 10:20 | 0 | 0 |
| 104 | 1/15/2020 10:21 | 0 | 0 |
| 105 | 1/15/2020 10:22 | 0 | 0 |
| 106 | 1/15/2020 10:23 | 0 | 0 |
| 107 | 1/15/2020 10:24 | 0 | 0 |
| 108 | 1/15/2020 10:25 | 0 | 0 |
| 109 | 1/15/2020 10:26 | 0 | 0 |
| 110 | 1/15/2020 10:27 | 0 | 0 |
| 111 | 1/15/2020 10:28 | 0 | 0 |
| 112 | 1/15/2020 10:29 | 0 | 0 |
| 113 | 1/15/2020 10:30 | 0 | 0 |
| 114 | 1/15/2020 10:31 | 0 | 0 |
| 115 | 1/15/2020 10:32 | 0 | 0 |
| 116 | 1/15/2020 10:33 | 0 | 0 |
| 117 | 1/15/2020 10:34 | 0 | 0 |
| 118 | 1/15/2020 10:35 | 0 | 0 |
| 119 | 1/15/2020 10:36 | 0 | 0 |
| 120 | 1/15/2020 10:37 | 0 | 0 |
| 121 | 1/15/2020 10:38 | 0 | 0 |
| 122 | 1/15/2020 10:39 | 0 | 0 |
| 123 | 1/15/2020 10:40 | 0 | 0 |
| 124 | 1/15/2020 10:41 | 0 | 0 |
| 125 | 1/15/2020 10:42 | 0 | 0 |
| 126 | 1/15/2020 10:43 | 0 | 0 |
| 127 | 1/15/2020 10:44 | 0 | 0 |
| 128 | 1/15/2020 10:45 | 0 | 0 |
| 129 | 1/15/2020 10:46 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 130 | 1/15/2020 10:47 | 0 | 0 |
| 131 | 1/15/2020 10:48 | 0 | 0 |
| 132 | 1/15/2020 10:49 | 0 | 0 |
| 133 | 1/15/2020 10:50 | 0 | 0 |
| 134 | 1/15/2020 10:51 | 0 | 0 |
| 135 | 1/15/2020 10:52 | 0 | 0 |
| 136 | 1/15/2020 10:53 | 0 | 0 |
| 137 | 1/15/2020 10:54 | 0 | 0 |
| 138 | 1/15/2020 10:55 | 0 | 0 |
| 139 | 1/15/2020 10:56 | 0 | 0 |
| 140 | 1/15/2020 10:57 | 0 | 0 |
| 141 | 1/15/2020 10:58 | 0 | 0 |
| 142 | 1/15/2020 10:59 | 0 | 0 |
| 143 | 1/15/2020 11:00 | 0 | 0 |
| 144 | 1/15/2020 11:01 | 0 | 0 |
| 145 | 1/15/2020 11:02 | 0 | 0 |
| 146 | 1/15/2020 11:03 | 0 | 0 |
| 147 | 1/15/2020 11:04 | 0 | 0 |
| 148 | 1/15/2020 11:05 | 0 | 0 |
| 149 | 1/15/2020 11:06 | 0 | 0 |
| 150 | 1/15/2020 11:07 | 0 | 0 |
| 151 | 1/15/2020 11:08 | 0 | 0 |
| 152 | 1/15/2020 11:09 | 0 | 0 |
| 153 | 1/15/2020 11:10 | 0 | 0 |
| 154 | 1/15/2020 11:11 | 0 | 0 |
| 155 | 1/15/2020 11:12 | 0 | 0 |
| 156 | 1/15/2020 11:13 | 0 | 0 |
| 157 | 1/15/2020 11:14 | 0 | 0 |
| 158 | 1/15/2020 11:15 | 0 | 0 |
| 159 | 1/15/2020 11:16 | 0 | 0 |
| 160 | 1/15/2020 11:17 | 0 | 0 |
| 161 | 1/15/2020 11:18 | 0 | 0 |
| 162 | 1/15/2020 11:19 | 0 | 0 |
| 163 | 1/15/2020 11:20 | 0 | 0 |
| 164 | 1/15/2020 11:21 | 0 | 0 |
| 165 | 1/15/2020 11:22 | 0 | 0 |
| 166 | 1/15/2020 11:23 | 0 | 0 |
| 167 | 1/15/2020 11:24 | 0 | 0 |
| 168 | 1/15/2020 11:25 | 0 | 0 |
| 169 | 1/15/2020 11:26 | 0 | 0 |
| 170 | 1/15/2020 11:27 | 0 | 0 |
| 171 | 1/15/2020 11:28 | 0 | 0 |
| 172 | 1/15/2020 11:29 | 0 | 0 |
| 173 | 1/15/2020 11:30 | 0 | 0 |
| 174 | 1/15/2020 11:31 | 0 | 0 |
| 175 | 1/15/2020 11:32 | 0 | 0 |
| 176 | 1/15/2020 11:33 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 177 | 1/15/2020 11:34 | 0 | 0 |
| 178 | 1/15/2020 11:35 | 0 | 0 |
| 179 | 1/15/2020 11:36 | 0 | 0 |
| 180 | 1/15/2020 11:37 | 0 | 0 |
| 181 | 1/15/2020 11:38 | 0 | 0 |
| 182 | 1/15/2020 11:39 | 0 | 0 |
| 183 | 1/15/2020 11:40 | 0 | 0 |
| 184 | 1/15/2020 11:41 | 0 | 0 |
| 185 | 1/15/2020 11:42 | 0 | 0 |
| 186 | 1/15/2020 11:43 | 0 | 0 |
| 187 | 1/15/2020 11:44 | 0 | 0 |
| 188 | 1/15/2020 11:45 | 0 | 0 |
| 189 | 1/15/2020 11:46 | 0 | 0 |
| 190 | 1/15/2020 11:47 | 0 | 0 |
| 191 | 1/15/2020 11:48 | 0 | 0 |
| 192 | 1/15/2020 11:49 | 0 | 0 |
| 193 | 1/15/2020 11:50 | 0 | 0 |
| 194 | 1/15/2020 11:51 | 0 | 0 |
| 195 | 1/15/2020 11:52 | 0 | 0 |
| 196 | 1/15/2020 11:53 | 0 | 0 |
| 197 | 1/15/2020 11:54 | 0 | 0 |
| 198 | 1/15/2020 11:55 | 0 | 0 |
| 199 | 1/15/2020 11:56 | 0 | 0 |
| 200 | 1/15/2020 11:57 | 0 | 0 |
| 201 | 1/15/2020 11:58 | 0 | 0 |
| 202 | 1/15/2020 11:59 | 0 | 0 |
| 203 | 1/15/2020 12:00 | 0 | 0 |
| 204 | 1/15/2020 12:01 | 0 | 0 |
| 205 | 1/15/2020 12:02 | 0 | 0 |
| 206 | 1/15/2020 12:03 | 0 | 0 |
| 207 | 1/15/2020 12:04 | 0 | 0 |
| 208 | 1/15/2020 12:05 | 0 | 0 |
| 209 | 1/15/2020 12:06 | 0 | 0 |
| 210 | 1/15/2020 12:07 | 0 | 0 |
| 211 | 1/15/2020 12:08 | 0 | 0 |
| 212 | 1/15/2020 12:09 | 0 | 0 |
| 213 | 1/15/2020 12:10 | 0 | 0 |
| 214 | 1/15/2020 12:11 | 0 | 0 |
| 215 | 1/15/2020 12:12 | 0 | 0 |
| 216 | 1/15/2020 12:13 | 0 | 0 |
| 217 | 1/15/2020 12:14 | 0 | 0 |
| 218 | 1/15/2020 12:15 | 0 | 0 |
| 219 | 1/15/2020 12:16 | 0 | 0 |
| 220 | 1/15/2020 12:17 | 0 | 0 |
| 221 | 1/15/2020 12:18 | 0 | 0 |
| 222 | 1/15/2020 12:19 | 0 | 0 |
| 223 | 1/15/2020 12:20 | 0 | 0 |

|     |                 |   |   |
|-----|-----------------|---|---|
| 224 | 1/15/2020 12:21 | 0 | 0 |
| 225 | 1/15/2020 12:22 | 0 | 0 |
| 226 | 1/15/2020 12:23 | 0 | 0 |
| 227 | 1/15/2020 12:24 | 0 | 0 |
| 228 | 1/15/2020 12:25 | 0 | 0 |
| 229 | 1/15/2020 12:26 | 0 | 0 |
| 230 | 1/15/2020 12:27 | 0 | 0 |
| 231 | 1/15/2020 12:28 | 0 | 0 |
| 232 | 1/15/2020 12:29 | 0 | 0 |
| 233 | 1/15/2020 12:30 | 0 | 0 |
| 234 | 1/15/2020 12:31 | 0 | 0 |
| 235 | 1/15/2020 12:32 | 0 | 0 |
| 236 | 1/15/2020 12:33 | 0 | 0 |
| 237 | 1/15/2020 12:34 | 0 | 0 |
| 238 | 1/15/2020 12:35 | 0 | 0 |
| 239 | 1/15/2020 12:36 | 0 | 0 |
| 240 | 1/15/2020 12:37 | 0 | 0 |
| 241 | 1/15/2020 12:38 | 0 | 0 |
| 242 | 1/15/2020 12:39 | 0 | 0 |
| 243 | 1/15/2020 12:40 | 0 | 0 |
| 244 | 1/15/2020 12:41 | 0 | 0 |

=====  
20/01/16 08:34  
\*\*\*\*\*

Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-910712  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/16/2020 8:34  
End 1/16/2020 11:35  
Sample Per 60  
Number of 181  
-----

Sensor PID(ppm)  
Sensor SN S023030021Q5  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 1/3/2020 12:41  
Peak 0.1  
Min 0  
Average 0.1

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/16/2020 8:35 | 0                 | 0                 | 0                  |
| 2     | 1/16/2020 8:36 | 0                 | 0                 | 0                  |
| 3     | 1/16/2020 8:37 | 0                 | 0                 | 0                  |
| 4     | 1/16/2020 8:38 | 0                 | 0                 | 0                  |
| 5     | 1/16/2020 8:39 | 0                 | 0                 | 0                  |

|    |                |   |   |   |
|----|----------------|---|---|---|
| 6  | 1/16/2020 8:40 | 0 | 0 | 0 |
| 7  | 1/16/2020 8:41 | 0 | 0 | 0 |
| 8  | 1/16/2020 8:42 | 0 | 0 | 0 |
| 9  | 1/16/2020 8:43 | 0 | 0 | 0 |
| 10 | 1/16/2020 8:44 | 0 | 0 | 0 |
| 11 | 1/16/2020 8:45 | 0 | 0 | 0 |
| 12 | 1/16/2020 8:46 | 0 | 0 | 0 |
| 13 | 1/16/2020 8:47 | 0 | 0 | 0 |
| 14 | 1/16/2020 8:48 | 0 | 0 | 0 |
| 15 | 1/16/2020 8:49 | 0 | 0 | 0 |
| 16 | 1/16/2020 8:50 | 0 | 0 | 0 |
| 17 | 1/16/2020 8:51 | 0 | 0 | 0 |
| 18 | 1/16/2020 8:52 | 0 | 0 | 0 |
| 19 | 1/16/2020 8:53 | 0 | 0 | 0 |
| 20 | 1/16/2020 8:54 | 0 | 0 | 0 |
| 21 | 1/16/2020 8:55 | 0 | 0 | 0 |
| 22 | 1/16/2020 8:56 | 0 | 0 | 0 |
| 23 | 1/16/2020 8:57 | 0 | 0 | 0 |
| 24 | 1/16/2020 8:58 | 0 | 0 | 0 |
| 25 | 1/16/2020 8:59 | 0 | 0 | 0 |
| 26 | 1/16/2020 9:00 | 0 | 0 | 0 |
| 27 | 1/16/2020 9:01 | 0 | 0 | 0 |
| 28 | 1/16/2020 9:02 | 0 | 0 | 0 |
| 29 | 1/16/2020 9:03 | 0 | 0 | 0 |
| 30 | 1/16/2020 9:04 | 0 | 0 | 0 |
| 31 | 1/16/2020 9:05 | 0 | 0 | 0 |
| 32 | 1/16/2020 9:06 | 0 | 0 | 0 |
| 33 | 1/16/2020 9:07 | 0 | 0 | 0 |
| 34 | 1/16/2020 9:08 | 0 | 0 | 0 |
| 35 | 1/16/2020 9:09 | 0 | 0 | 0 |
| 36 | 1/16/2020 9:10 | 0 | 0 | 0 |
| 37 | 1/16/2020 9:11 | 0 | 0 | 0 |
| 38 | 1/16/2020 9:12 | 0 | 0 | 0 |
| 39 | 1/16/2020 9:13 | 0 | 0 | 0 |
| 40 | 1/16/2020 9:14 | 0 | 0 | 0 |
| 41 | 1/16/2020 9:15 | 0 | 0 | 0 |
| 42 | 1/16/2020 9:16 | 0 | 0 | 0 |
| 43 | 1/16/2020 9:17 | 0 | 0 | 0 |
| 44 | 1/16/2020 9:18 | 0 | 0 | 0 |
| 45 | 1/16/2020 9:19 | 0 | 0 | 0 |
| 46 | 1/16/2020 9:20 | 0 | 0 | 0 |
| 47 | 1/16/2020 9:21 | 0 | 0 | 0 |
| 48 | 1/16/2020 9:22 | 0 | 0 | 0 |
| 49 | 1/16/2020 9:23 | 0 | 0 | 0 |
| 50 | 1/16/2020 9:24 | 0 | 0 | 0 |
| 51 | 1/16/2020 9:25 | 0 | 0 | 0 |
| 52 | 1/16/2020 9:26 | 0 | 0 | 0 |

|    |                 |     |     |     |
|----|-----------------|-----|-----|-----|
| 53 | 1/16/2020 9:27  | 0   | 0   | 0   |
| 54 | 1/16/2020 9:28  | 0   | 0   | 0   |
| 55 | 1/16/2020 9:29  | 0   | 0   | 0   |
| 56 | 1/16/2020 9:30  | 0   | 0   | 0   |
| 57 | 1/16/2020 9:31  | 0   | 0   | 0   |
| 58 | 1/16/2020 9:32  | 0   | 0   | 0   |
| 59 | 1/16/2020 9:33  | 0   | 0   | 0   |
| 60 | 1/16/2020 9:34  | 0   | 0   | 0   |
| 61 | 1/16/2020 9:35  | 0   | 0   | 0   |
| 62 | 1/16/2020 9:36  | 0   | 0   | 0   |
| 63 | 1/16/2020 9:37  | 0   | 0   | 0   |
| 64 | 1/16/2020 9:38  | 0   | 0   | 0   |
| 65 | 1/16/2020 9:39  | 0   | 0   | 0   |
| 66 | 1/16/2020 9:40  | 0   | 0   | 0   |
| 67 | 1/16/2020 9:41  | 0   | 0   | 0   |
| 68 | 1/16/2020 9:42  | 0   | 0   | 0   |
| 69 | 1/16/2020 9:43  | 0   | 0   | 0   |
| 70 | 1/16/2020 9:44  | 0   | 0   | 0   |
| 71 | 1/16/2020 9:45  | 0   | 0   | 0   |
| 72 | 1/16/2020 9:46  | 0   | 0   | 0   |
| 73 | 1/16/2020 9:47  | 0   | 0   | 0   |
| 74 | 1/16/2020 9:48  | 0   | 0   | 0   |
| 75 | 1/16/2020 9:49  | 0   | 0   | 0   |
| 76 | 1/16/2020 9:50  | 0   | 0   | 0   |
| 77 | 1/16/2020 9:51  | 0   | 0   | 0   |
| 78 | 1/16/2020 9:52  | 0   | 0   | 0   |
| 79 | 1/16/2020 9:53  | 0   | 0   | 0   |
| 80 | 1/16/2020 9:54  | 0   | 0   | 0   |
| 81 | 1/16/2020 9:55  | 0   | 0   | 0   |
| 82 | 1/16/2020 9:56  | 0   | 0   | 0   |
| 83 | 1/16/2020 9:57  | 0   | 0   | 0   |
| 84 | 1/16/2020 9:58  | 0   | 0   | 0   |
| 85 | 1/16/2020 9:59  | 0   | 0   | 0   |
| 86 | 1/16/2020 10:00 | 0   | 0.1 | 0   |
| 87 | 1/16/2020 10:01 | 0   | 0.1 | 0   |
| 88 | 1/16/2020 10:02 | 0   | 0.1 | 0   |
| 89 | 1/16/2020 10:03 | 0.1 | 0.1 | 0.1 |
| 90 | 1/16/2020 10:04 | 0.1 | 0.1 | 0.1 |
| 91 | 1/16/2020 10:05 | 0.1 | 0.1 | 0.1 |
| 92 | 1/16/2020 10:06 | 0.1 | 0.1 | 0.1 |
| 93 | 1/16/2020 10:07 | 0.1 | 0.1 | 0.1 |
| 94 | 1/16/2020 10:08 | 0.1 | 0.1 | 0.1 |
| 95 | 1/16/2020 10:09 | 0.1 | 0.1 | 0.1 |
| 96 | 1/16/2020 10:10 | 0.1 | 0.1 | 0.1 |
| 97 | 1/16/2020 10:11 | 0.1 | 0.1 | 0.1 |
| 98 | 1/16/2020 10:12 | 0.1 | 0.1 | 0.1 |
| 99 | 1/16/2020 10:13 | 0.1 | 0.1 | 0.1 |

|     |                 |     |     |     |
|-----|-----------------|-----|-----|-----|
| 100 | 1/16/2020 10:14 | 0.1 | 0.1 | 0.1 |
| 101 | 1/16/2020 10:15 | 0.1 | 0.1 | 0.1 |
| 102 | 1/16/2020 10:16 | 0.1 | 0.1 | 0.1 |
| 103 | 1/16/2020 10:17 | 0.1 | 0.1 | 0.1 |
| 104 | 1/16/2020 10:18 | 0.1 | 0.1 | 0.1 |
| 105 | 1/16/2020 10:19 | 0.1 | 0.1 | 0.1 |
| 106 | 1/16/2020 10:20 | 0.1 | 0.1 | 0.1 |
| 107 | 1/16/2020 10:21 | 0.1 | 0.1 | 0.1 |
| 108 | 1/16/2020 10:22 | 0.1 | 0.1 | 0.1 |
| 109 | 1/16/2020 10:23 | 0.1 | 0.1 | 0.1 |
| 110 | 1/16/2020 10:24 | 0.1 | 0.1 | 0.1 |
| 111 | 1/16/2020 10:25 | 0.1 | 0.1 | 0.1 |
| 112 | 1/16/2020 10:26 | 0.1 | 0.1 | 0.1 |
| 113 | 1/16/2020 10:27 | 0.1 | 0.1 | 0.1 |
| 114 | 1/16/2020 10:28 | 0.1 | 0.1 | 0.1 |
| 115 | 1/16/2020 10:29 | 0.1 | 0.1 | 0.1 |
| 116 | 1/16/2020 10:30 | 0.1 | 0.1 | 0.1 |
| 117 | 1/16/2020 10:31 | 0.1 | 0.1 | 0.1 |
| 118 | 1/16/2020 10:32 | 0.1 | 0.1 | 0.1 |
| 119 | 1/16/2020 10:33 | 0.1 | 0.1 | 0.1 |
| 120 | 1/16/2020 10:34 | 0.1 | 0.1 | 0.1 |
| 121 | 1/16/2020 10:35 | 0.1 | 0.1 | 0.1 |
| 122 | 1/16/2020 10:36 | 0.1 | 0.1 | 0.1 |
| 123 | 1/16/2020 10:37 | 0.1 | 0.1 | 0.1 |
| 124 | 1/16/2020 10:38 | 0.1 | 0.1 | 0.1 |
| 125 | 1/16/2020 10:39 | 0.1 | 0.1 | 0.1 |
| 126 | 1/16/2020 10:40 | 0.1 | 0.1 | 0.1 |
| 127 | 1/16/2020 10:41 | 0.1 | 0.1 | 0.1 |
| 128 | 1/16/2020 10:42 | 0.1 | 0.1 | 0.1 |
| 129 | 1/16/2020 10:43 | 0.1 | 0.1 | 0.1 |
| 130 | 1/16/2020 10:44 | 0.1 | 0.1 | 0.1 |
| 131 | 1/16/2020 10:45 | 0.1 | 0.1 | 0.1 |
| 132 | 1/16/2020 10:46 | 0.1 | 0.1 | 0.1 |
| 133 | 1/16/2020 10:47 | 0.1 | 0.1 | 0.1 |
| 134 | 1/16/2020 10:48 | 0.1 | 0.1 | 0.1 |
| 135 | 1/16/2020 10:49 | 0.1 | 0.1 | 0.1 |
| 136 | 1/16/2020 10:50 | 0.1 | 0.1 | 0.1 |
| 137 | 1/16/2020 10:51 | 0.1 | 0.1 | 0.1 |
| 138 | 1/16/2020 10:52 | 0.1 | 0.1 | 0.1 |
| 139 | 1/16/2020 10:53 | 0.1 | 0.1 | 0.1 |
| 140 | 1/16/2020 10:54 | 0.1 | 0.1 | 0.1 |
| 141 | 1/16/2020 10:55 | 0.1 | 0.1 | 0.1 |
| 142 | 1/16/2020 10:56 | 0.1 | 0.1 | 0.1 |
| 143 | 1/16/2020 10:57 | 0.1 | 0.1 | 0.1 |
| 144 | 1/16/2020 10:58 | 0.1 | 0.1 | 0.1 |
| 145 | 1/16/2020 10:59 | 0.1 | 0.1 | 0.1 |
| 146 | 1/16/2020 11:00 | 0.1 | 0.1 | 0.1 |



|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 147     | 1/16/2020 11:01 | 0.1 | 0.1 | 0.1 |
| 148     | 1/16/2020 11:02 | 0.1 | 0.1 | 0.1 |
| 149     | 1/16/2020 11:03 | 0.1 | 0.1 | 0.1 |
| 150     | 1/16/2020 11:04 | 0.1 | 0.1 | 0.1 |
| 151     | 1/16/2020 11:05 | 0.1 | 0.1 | 0.1 |
| 152     | 1/16/2020 11:06 | 0.1 | 0.1 | 0.1 |
| 153     | 1/16/2020 11:07 | 0.1 | 0.1 | 0.1 |
| 154     | 1/16/2020 11:08 | 0.1 | 0.1 | 0.1 |
| 155     | 1/16/2020 11:09 | 0.1 | 0.1 | 0.1 |
| 156     | 1/16/2020 11:10 | 0.1 | 0.1 | 0.1 |
| 157     | 1/16/2020 11:11 | 0.1 | 0.1 | 0.1 |
| 158     | 1/16/2020 11:12 | 0.1 | 0.1 | 0.1 |
| 159     | 1/16/2020 11:13 | 0.1 | 0.1 | 0.1 |
| 160     | 1/16/2020 11:14 | 0.1 | 0.1 | 0.1 |
| 161     | 1/16/2020 11:15 | 0.1 | 0.1 | 0.1 |
| 162     | 1/16/2020 11:16 | 0.1 | 0.1 | 0.1 |
| 163     | 1/16/2020 11:17 | 0.1 | 0.1 | 0.1 |
| 164     | 1/16/2020 11:18 | 0.1 | 0.1 | 0.1 |
| 165     | 1/16/2020 11:19 | 0.1 | 0.1 | 0.1 |
| 166     | 1/16/2020 11:20 | 0.1 | 0.1 | 0.1 |
| 167     | 1/16/2020 11:21 | 0.1 | 0.1 | 0.1 |
| 168     | 1/16/2020 11:22 | 0.1 | 0.1 | 0.1 |
| 169     | 1/16/2020 11:23 | 0.1 | 0.1 | 0.1 |
| 170     | 1/16/2020 11:24 | 0.1 | 0.1 | 0.1 |
| 171     | 1/16/2020 11:25 | 0.1 | 0.1 | 0.1 |
| 172     | 1/16/2020 11:26 | 0.1 | 0.1 | 0.1 |
| 173     | 1/16/2020 11:27 | 0.1 | 0.1 | 0.1 |
| 174     | 1/16/2020 11:28 | 0.1 | 0.1 | 0.1 |
| 175     | 1/16/2020 11:29 | 0.1 | 0.1 | 0.1 |
| 176     | 1/16/2020 11:30 | 0.1 | 0.1 | 0.1 |
| 177     | 1/16/2020 11:31 | 0.1 | 0.1 | 0.1 |
| 178     | 1/16/2020 11:32 | 0.1 | 0.1 | 0.1 |
| 179     | 1/16/2020 11:33 | 0.1 | 0.1 | 0.1 |
| 180     | 1/16/2020 11:34 | 0.1 | 0.1 | 0.1 |
| 181     | 1/16/2020 11:35 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.1 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0.1 | 0.1 | 0.1 |

\*\*\*\*\*

#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/16/2020 8:35 | 0                 | ---                |
| 2     | 1/16/2020 8:36 | 0                 | ---                |
| 3     | 1/16/2020 8:37 | 0                 | ---                |
| 4     | 1/16/2020 8:38 | 0                 | ---                |

|    |                |       |   |
|----|----------------|-------|---|
| 5  | 1/16/2020 8:39 | 0 --- |   |
| 6  | 1/16/2020 8:40 | 0 --- |   |
| 7  | 1/16/2020 8:41 | 0 --- |   |
| 8  | 1/16/2020 8:42 | 0 --- |   |
| 9  | 1/16/2020 8:43 | 0 --- |   |
| 10 | 1/16/2020 8:44 | 0 --- |   |
| 11 | 1/16/2020 8:45 | 0 --- |   |
| 12 | 1/16/2020 8:46 | 0 --- |   |
| 13 | 1/16/2020 8:47 | 0 --- |   |
| 14 | 1/16/2020 8:48 | 0 --- |   |
| 15 | 1/16/2020 8:49 | 0     | 0 |
| 16 | 1/16/2020 8:50 | 0     | 0 |
| 17 | 1/16/2020 8:51 | 0     | 0 |
| 18 | 1/16/2020 8:52 | 0     | 0 |
| 19 | 1/16/2020 8:53 | 0     | 0 |
| 20 | 1/16/2020 8:54 | 0     | 0 |
| 21 | 1/16/2020 8:55 | 0     | 0 |
| 22 | 1/16/2020 8:56 | 0     | 0 |
| 23 | 1/16/2020 8:57 | 0     | 0 |
| 24 | 1/16/2020 8:58 | 0     | 0 |
| 25 | 1/16/2020 8:59 | 0     | 0 |
| 26 | 1/16/2020 9:00 | 0     | 0 |
| 27 | 1/16/2020 9:01 | 0     | 0 |
| 28 | 1/16/2020 9:02 | 0     | 0 |
| 29 | 1/16/2020 9:03 | 0     | 0 |
| 30 | 1/16/2020 9:04 | 0     | 0 |
| 31 | 1/16/2020 9:05 | 0     | 0 |
| 32 | 1/16/2020 9:06 | 0     | 0 |
| 33 | 1/16/2020 9:07 | 0     | 0 |
| 34 | 1/16/2020 9:08 | 0     | 0 |
| 35 | 1/16/2020 9:09 | 0     | 0 |
| 36 | 1/16/2020 9:10 | 0     | 0 |
| 37 | 1/16/2020 9:11 | 0     | 0 |
| 38 | 1/16/2020 9:12 | 0     | 0 |
| 39 | 1/16/2020 9:13 | 0     | 0 |
| 40 | 1/16/2020 9:14 | 0     | 0 |
| 41 | 1/16/2020 9:15 | 0     | 0 |
| 42 | 1/16/2020 9:16 | 0     | 0 |
| 43 | 1/16/2020 9:17 | 0     | 0 |
| 44 | 1/16/2020 9:18 | 0     | 0 |
| 45 | 1/16/2020 9:19 | 0     | 0 |
| 46 | 1/16/2020 9:20 | 0     | 0 |
| 47 | 1/16/2020 9:21 | 0     | 0 |
| 48 | 1/16/2020 9:22 | 0     | 0 |
| 49 | 1/16/2020 9:23 | 0     | 0 |
| 50 | 1/16/2020 9:24 | 0     | 0 |
| 51 | 1/16/2020 9:25 | 0     | 0 |

|    |                 |   |     |
|----|-----------------|---|-----|
| 52 | 1/16/2020 9:26  | 0 | 0   |
| 53 | 1/16/2020 9:27  | 0 | 0   |
| 54 | 1/16/2020 9:28  | 0 | 0   |
| 55 | 1/16/2020 9:29  | 0 | 0   |
| 56 | 1/16/2020 9:30  | 0 | 0   |
| 57 | 1/16/2020 9:31  | 0 | 0   |
| 58 | 1/16/2020 9:32  | 0 | 0   |
| 59 | 1/16/2020 9:33  | 0 | 0   |
| 60 | 1/16/2020 9:34  | 0 | 0   |
| 61 | 1/16/2020 9:35  | 0 | 0   |
| 62 | 1/16/2020 9:36  | 0 | 0   |
| 63 | 1/16/2020 9:37  | 0 | 0   |
| 64 | 1/16/2020 9:38  | 0 | 0   |
| 65 | 1/16/2020 9:39  | 0 | 0   |
| 66 | 1/16/2020 9:40  | 0 | 0   |
| 67 | 1/16/2020 9:41  | 0 | 0   |
| 68 | 1/16/2020 9:42  | 0 | 0   |
| 69 | 1/16/2020 9:43  | 0 | 0   |
| 70 | 1/16/2020 9:44  | 0 | 0   |
| 71 | 1/16/2020 9:45  | 0 | 0   |
| 72 | 1/16/2020 9:46  | 0 | 0   |
| 73 | 1/16/2020 9:47  | 0 | 0   |
| 74 | 1/16/2020 9:48  | 0 | 0   |
| 75 | 1/16/2020 9:49  | 0 | 0   |
| 76 | 1/16/2020 9:50  | 0 | 0   |
| 77 | 1/16/2020 9:51  | 0 | 0   |
| 78 | 1/16/2020 9:52  | 0 | 0   |
| 79 | 1/16/2020 9:53  | 0 | 0   |
| 80 | 1/16/2020 9:54  | 0 | 0   |
| 81 | 1/16/2020 9:55  | 0 | 0   |
| 82 | 1/16/2020 9:56  | 0 | 0   |
| 83 | 1/16/2020 9:57  | 0 | 0   |
| 84 | 1/16/2020 9:58  | 0 | 0   |
| 85 | 1/16/2020 9:59  | 0 | 0   |
| 86 | 1/16/2020 10:00 | 0 | 0   |
| 87 | 1/16/2020 10:01 | 0 | 0   |
| 88 | 1/16/2020 10:02 | 0 | 0   |
| 89 | 1/16/2020 10:03 | 0 | 0   |
| 90 | 1/16/2020 10:04 | 0 | 0   |
| 91 | 1/16/2020 10:05 | 0 | 0   |
| 92 | 1/16/2020 10:06 | 0 | 0   |
| 93 | 1/16/2020 10:07 | 0 | 0   |
| 94 | 1/16/2020 10:08 | 0 | 0   |
| 95 | 1/16/2020 10:09 | 0 | 0   |
| 96 | 1/16/2020 10:10 | 0 | 0.1 |
| 97 | 1/16/2020 10:11 | 0 | 0.1 |
| 98 | 1/16/2020 10:12 | 0 | 0.1 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 99  | 1/16/2020 10:13 | 0 | 0.1 |
| 100 | 1/16/2020 10:14 | 0 | 0.1 |
| 101 | 1/16/2020 10:15 | 0 | 0.1 |
| 102 | 1/16/2020 10:16 | 0 | 0.1 |
| 103 | 1/16/2020 10:17 | 0 | 0.1 |
| 104 | 1/16/2020 10:18 | 0 | 0.1 |
| 105 | 1/16/2020 10:19 | 0 | 0.1 |
| 106 | 1/16/2020 10:20 | 0 | 0.1 |
| 107 | 1/16/2020 10:21 | 0 | 0.1 |
| 108 | 1/16/2020 10:22 | 0 | 0.1 |
| 109 | 1/16/2020 10:23 | 0 | 0.1 |
| 110 | 1/16/2020 10:24 | 0 | 0.1 |
| 111 | 1/16/2020 10:25 | 0 | 0.1 |
| 112 | 1/16/2020 10:26 | 0 | 0.1 |
| 113 | 1/16/2020 10:27 | 0 | 0.1 |
| 114 | 1/16/2020 10:28 | 0 | 0.1 |
| 115 | 1/16/2020 10:29 | 0 | 0.1 |
| 116 | 1/16/2020 10:30 | 0 | 0.1 |
| 117 | 1/16/2020 10:31 | 0 | 0.1 |
| 118 | 1/16/2020 10:32 | 0 | 0.1 |
| 119 | 1/16/2020 10:33 | 0 | 0.1 |
| 120 | 1/16/2020 10:34 | 0 | 0.1 |
| 121 | 1/16/2020 10:35 | 0 | 0.1 |
| 122 | 1/16/2020 10:36 | 0 | 0.1 |
| 123 | 1/16/2020 10:37 | 0 | 0.1 |
| 124 | 1/16/2020 10:38 | 0 | 0.1 |
| 125 | 1/16/2020 10:39 | 0 | 0.1 |
| 126 | 1/16/2020 10:40 | 0 | 0.1 |
| 127 | 1/16/2020 10:41 | 0 | 0.1 |
| 128 | 1/16/2020 10:42 | 0 | 0.1 |
| 129 | 1/16/2020 10:43 | 0 | 0.1 |
| 130 | 1/16/2020 10:44 | 0 | 0.1 |
| 131 | 1/16/2020 10:45 | 0 | 0.1 |
| 132 | 1/16/2020 10:46 | 0 | 0.1 |
| 133 | 1/16/2020 10:47 | 0 | 0.1 |
| 134 | 1/16/2020 10:48 | 0 | 0.1 |
| 135 | 1/16/2020 10:49 | 0 | 0.1 |
| 136 | 1/16/2020 10:50 | 0 | 0.1 |
| 137 | 1/16/2020 10:51 | 0 | 0.1 |
| 138 | 1/16/2020 10:52 | 0 | 0.1 |
| 139 | 1/16/2020 10:53 | 0 | 0.1 |
| 140 | 1/16/2020 10:54 | 0 | 0.1 |
| 141 | 1/16/2020 10:55 | 0 | 0.1 |
| 142 | 1/16/2020 10:56 | 0 | 0.1 |
| 143 | 1/16/2020 10:57 | 0 | 0.1 |
| 144 | 1/16/2020 10:58 | 0 | 0.1 |
| 145 | 1/16/2020 10:59 | 0 | 0.1 |

|     |                 |   |     |
|-----|-----------------|---|-----|
| 146 | 1/16/2020 11:00 | 0 | 0.1 |
| 147 | 1/16/2020 11:01 | 0 | 0.1 |
| 148 | 1/16/2020 11:02 | 0 | 0.1 |
| 149 | 1/16/2020 11:03 | 0 | 0.1 |
| 150 | 1/16/2020 11:04 | 0 | 0.1 |
| 151 | 1/16/2020 11:05 | 0 | 0.1 |
| 152 | 1/16/2020 11:06 | 0 | 0.1 |
| 153 | 1/16/2020 11:07 | 0 | 0.1 |
| 154 | 1/16/2020 11:08 | 0 | 0.1 |
| 155 | 1/16/2020 11:09 | 0 | 0.1 |
| 156 | 1/16/2020 11:10 | 0 | 0.1 |
| 157 | 1/16/2020 11:11 | 0 | 0.1 |
| 158 | 1/16/2020 11:12 | 0 | 0.1 |
| 159 | 1/16/2020 11:13 | 0 | 0.1 |
| 160 | 1/16/2020 11:14 | 0 | 0.1 |
| 161 | 1/16/2020 11:15 | 0 | 0.1 |
| 162 | 1/16/2020 11:16 | 0 | 0.1 |
| 163 | 1/16/2020 11:17 | 0 | 0.1 |
| 164 | 1/16/2020 11:18 | 0 | 0.1 |
| 165 | 1/16/2020 11:19 | 0 | 0.1 |
| 166 | 1/16/2020 11:20 | 0 | 0.1 |
| 167 | 1/16/2020 11:21 | 0 | 0.1 |
| 168 | 1/16/2020 11:22 | 0 | 0.1 |
| 169 | 1/16/2020 11:23 | 0 | 0.1 |
| 170 | 1/16/2020 11:24 | 0 | 0.1 |
| 171 | 1/16/2020 11:25 | 0 | 0.1 |
| 172 | 1/16/2020 11:26 | 0 | 0.1 |
| 173 | 1/16/2020 11:27 | 0 | 0.1 |
| 174 | 1/16/2020 11:28 | 0 | 0.1 |
| 175 | 1/16/2020 11:29 | 0 | 0.1 |
| 176 | 1/16/2020 11:30 | 0 | 0.1 |
| 177 | 1/16/2020 11:31 | 0 | 0.1 |
| 178 | 1/16/2020 11:32 | 0 | 0.1 |
| 179 | 1/16/2020 11:33 | 0 | 0.1 |
| 180 | 1/16/2020 11:34 | 0 | 0.1 |
| 181 | 1/16/2020 11:35 | 0 | 0.1 |

20/02/04 07:29

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## Summary

Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmware Ver V2.20A

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down

Site ID 12345678  
User ID 12345678

Begin 2/4/2020 7:29  
End 2/4/2020 14:58  
Sample Period(s) 900  
Number of Records 29

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 12/27/2019 14:06  
Peak 0  
Min 0  
Average 0

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## Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 2/4/2020 7:44 | 0                 | 0                 | 0                  |
| 2     | 2/4/2020 7:59 | 0                 | 0                 | 0                  |
| 3     | 2/4/2020 8:14 | 0                 | 0                 | 0                  |
| 4     | 2/4/2020 8:29 | 0                 | 0                 | 0                  |
| 5     | 2/4/2020 8:44 | 0                 | 0                 | 0                  |

|         |                |   |   |   |
|---------|----------------|---|---|---|
| 6       | 2/4/2020 8:59  | 0 | 0 | 0 |
| 7       | 2/4/2020 9:14  | 0 | 0 | 0 |
| 8       | 2/4/2020 9:29  | 0 | 0 | 0 |
| 9       | 2/4/2020 9:44  | 0 | 0 | 0 |
| 10      | 2/4/2020 9:59  | 0 | 0 | 0 |
| 11      | 2/4/2020 10:14 | 0 | 0 | 0 |
| 12      | 2/4/2020 10:29 | 0 | 0 | 0 |
| 13      | 2/4/2020 10:44 | 0 | 0 | 0 |
| 14      | 2/4/2020 10:59 | 0 | 0 | 0 |
| 15      | 2/4/2020 11:14 | 0 | 0 | 0 |
| 16      | 2/4/2020 11:29 | 0 | 0 | 0 |
| 17      | 2/4/2020 11:44 | 0 | 0 | 0 |
| 18      | 2/4/2020 11:59 | 0 | 0 | 0 |
| 19      | 2/4/2020 12:14 | 0 | 0 | 0 |
| 20      | 2/4/2020 12:29 | 0 | 0 | 0 |
| 21      | 2/4/2020 12:44 | 0 | 0 | 0 |
| 22      | 2/4/2020 12:59 | 0 | 0 | 0 |
| 23      | 2/4/2020 13:14 | 0 | 0 | 0 |
| 24      | 2/4/2020 13:29 | 0 | 0 | 0 |
| 25      | 2/4/2020 13:44 | 0 | 0 | 0 |
| 26      | 2/4/2020 13:59 | 0 | 0 | 0 |
| 27      | 2/4/2020 14:14 | 0 | 0 | 0 |
| 28      | 2/4/2020 14:29 | 0 | 0 | 0 |
| 29      | 2/4/2020 14:44 | 0 | 0 | 0 |
| Peak    |                | 0 | 0 | 0 |
| Min     |                | 0 | 0 | 0 |
| Average |                | 0 | 0 | 0 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 2/4/2020 7:44  | 0                 | 0                  |
| 2     | 2/4/2020 7:59  | 0                 | 0                  |
| 3     | 2/4/2020 8:14  | 0                 | 0                  |
| 4     | 2/4/2020 8:29  | 0                 | 0                  |
| 5     | 2/4/2020 8:44  | 0                 | 0                  |
| 6     | 2/4/2020 8:59  | 0                 | 0                  |
| 7     | 2/4/2020 9:14  | 0                 | 0                  |
| 8     | 2/4/2020 9:29  | 0                 | 0                  |
| 9     | 2/4/2020 9:44  | 0                 | 0                  |
| 10    | 2/4/2020 9:59  | 0                 | 0                  |
| 11    | 2/4/2020 10:14 | 0                 | 0                  |
| 12    | 2/4/2020 10:29 | 0                 | 0                  |
| 13    | 2/4/2020 10:44 | 0                 | 0                  |
| 14    | 2/4/2020 10:59 | 0                 | 0                  |
| 15    | 2/4/2020 11:14 | 0                 | 0                  |

|    |                |   |   |
|----|----------------|---|---|
| 16 | 2/4/2020 11:29 | 0 | 0 |
| 17 | 2/4/2020 11:44 | 0 | 0 |
| 18 | 2/4/2020 11:59 | 0 | 0 |
| 19 | 2/4/2020 12:14 | 0 | 0 |
| 20 | 2/4/2020 12:29 | 0 | 0 |
| 21 | 2/4/2020 12:44 | 0 | 0 |
| 22 | 2/4/2020 12:59 | 0 | 0 |
| 23 | 2/4/2020 13:14 | 0 | 0 |
| 24 | 2/4/2020 13:29 | 0 | 0 |
| 25 | 2/4/2020 13:44 | 0 | 0 |
| 26 | 2/4/2020 13:59 | 0 | 0 |
| 27 | 2/4/2020 14:14 | 0 | 0 |
| 28 | 2/4/2020 14:29 | 0 | 0 |
| 29 | 2/4/2020 14:44 | 0 | 0 |



20/02/05 07:25

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## Summary

Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmware Ver V2.20A

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Battery Low

Site ID 12345678  
User ID 12345678

Begin 2/5/2020 7:25  
End 2/5/2020 8:57  
Sample Period(s) 900  
Number of Records 6

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 12/27/2019 14:06  
Peak 0  
Min 0  
Average 0

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## Datalog

| Index | Date/Time     | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|---------------|-------------------|-------------------|--------------------|
| 1     | 2/5/2020 7:40 | 0                 | 0                 | 0                  |
| 2     | 2/5/2020 7:55 | 0                 | 0                 | 0                  |
| 3     | 2/5/2020 8:10 | 0                 | 0.2               | 0                  |
| 4     | 2/5/2020 8:25 | 0                 | 0                 | 0                  |
| 5     | 2/5/2020 8:40 | 0                 | 0                 | 0                  |

|         |   |               |   |     |   |
|---------|---|---------------|---|-----|---|
|         | 6 | 2/5/2020 8:55 | 0 | 0   | 0 |
| Peak    |   |               | 0 | 0.2 | 0 |
| Min     |   |               | 0 | 0   | 0 |
| Average |   |               | 0 | 0   | 0 |

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TWA/STEL

| Index | Date/Time     | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|---------------|-------------------|--------------------|
| 1     | 2/5/2020 7:40 | 0                 | 0                  |
| 2     | 2/5/2020 7:55 | 0                 | 0                  |
| 3     | 2/5/2020 8:10 | 0                 | 0                  |
| 4     | 2/5/2020 8:25 | 0                 | 0                  |
| 5     | 2/5/2020 8:40 | 0                 | 0                  |
| 6     | 2/5/2020 8:55 | 0                 | 0                  |

20/02/05 08:58

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## Summary

Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-907676  
Unit Firmware Ver V2.20A

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Battery Low

Site ID 12345678  
User ID 12345678

Begin 2/5/2020 8:58  
End 2/5/2020 12:48  
Sample Period(s) 900  
Number of Records 15

Sensor PID(ppm)  
Sensor SN S023030130U6  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 12/27/2019 14:06  
Peak 0  
Min 0  
Average 0

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## Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 2/5/2020 9:13  | 0                 | 0                 | 0                  |
| 2     | 2/5/2020 9:28  | 0                 | 0                 | 0                  |
| 3     | 2/5/2020 9:43  | 0                 | 0                 | 0                  |
| 4     | 2/5/2020 9:58  | 0                 | 0                 | 0                  |
| 5     | 2/5/2020 10:13 | 0                 | 0                 | 0                  |

|         |                |   |   |   |
|---------|----------------|---|---|---|
| 6       | 2/5/2020 10:28 | 0 | 0 | 0 |
| 7       | 2/5/2020 10:43 | 0 | 0 | 0 |
| 8       | 2/5/2020 10:58 | 0 | 0 | 0 |
| 9       | 2/5/2020 11:13 | 0 | 0 | 0 |
| 10      | 2/5/2020 11:28 | 0 | 0 | 0 |
| 11      | 2/5/2020 11:43 | 0 | 0 | 0 |
| 12      | 2/5/2020 11:58 | 0 | 0 | 0 |
| 13      | 2/5/2020 12:13 | 0 | 0 | 0 |
| 14      | 2/5/2020 12:28 | 0 | 0 | 0 |
| 15      | 2/5/2020 12:43 | 0 | 0 | 0 |
| Peak    |                | 0 | 0 | 0 |
| Min     |                | 0 | 0 | 0 |
| Average |                | 0 | 0 | 0 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 2/5/2020 9:13  | 0                 | 0                  |
| 2     | 2/5/2020 9:28  | 0                 | 0                  |
| 3     | 2/5/2020 9:43  | 0                 | 0                  |
| 4     | 2/5/2020 9:58  | 0                 | 0                  |
| 5     | 2/5/2020 10:13 | 0                 | 0                  |
| 6     | 2/5/2020 10:28 | 0                 | 0                  |
| 7     | 2/5/2020 10:43 | 0                 | 0                  |
| 8     | 2/5/2020 10:58 | 0                 | 0                  |
| 9     | 2/5/2020 11:13 | 0                 | 0                  |
| 10    | 2/5/2020 11:28 | 0                 | 0                  |
| 11    | 2/5/2020 11:43 | 0                 | 0                  |
| 12    | 2/5/2020 11:58 | 0                 | 0                  |
| 13    | 2/5/2020 12:13 | 0                 | 0                  |
| 14    | 2/5/2020 12:28 | 0                 | 0                  |
| 15    | 2/5/2020 12:43 | 0                 | 0                  |

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20/02/05 14:05

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Summary

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|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-907676             |
| Unit Firmware Ver | V2.20A                 |

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|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Battery Low  |

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|         |          |
|---------|----------|
| Site ID | 12345678 |
| User ID | 12345678 |

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|                   |                |
|-------------------|----------------|
| Begin             | 2/5/2020 14:05 |
| End               | 2/5/2020 15:09 |
| Sample Period(s)  | 900            |
| Number of Records | 4              |

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|                  |                  |
|------------------|------------------|
| Sensor           | PID(ppm)         |
| Sensor SN        | S023030130U6     |
| Measure Type     | Avg; Max; Real   |
| Span             | 100              |
| Span 2           | 1000             |
| Low Alarm        | 50               |
| High Alarm       | 100              |
| Over Alarm       | 15000            |
| STEL Alarm       | 25               |
| TWA Alarm        | 10               |
| Measurement Gas  | Isobutylene      |
| Calibration Time | 12/27/2019 14:06 |
| Peak             | 0                |
| Min              | 0                |
| Average          | 0                |

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Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 2/5/2020 14:20 | 0                 | 0.4               | 0                  |
| 2     | 2/5/2020 14:35 | 0                 | 0                 | 0                  |
| 3     | 2/5/2020 14:50 | 0                 | 0                 | 0                  |
| 4     | 2/5/2020 15:05 | 0                 | 0                 | 0                  |
| Peak  |                | 0                 | 0.4               | 0                  |

**Outdoor Downwind CAMP Data  
(UST Decommissioning, Parking Lot Box-  
Out, Sanitary Sewer Lateral  
Installation)**

|                      |             |
|----------------------|-------------|
| Instrument Name      | DustTrak II |
| Model Number         | 8530        |
| Serial Number        | 8530134215  |
| Firmware Version     | 3.6         |
| Calibration Date     | 9/28/2017   |
| Test Name            | MANUAL_038  |
| Test Start Time      | 11:56:39 AM |
| Test Start Date      | 11/13/2019  |
| Test Length [D:H:M]  | 0:05:15     |
| Test Interval [M:S]  | 15:00       |
| Mass Average [mg/m3] | 0.006       |
| Mass Minimum [mg/m3] | 0.002       |
| Mass Maximum [mg/m3] | 0.022       |
| Mass TWA [mg/m3]     | 0.004       |
| Photometric User Cal | 1           |
| Flow User Cal        | 0           |
| Errors               |             |
| Number of Samples    | 21          |

| Elapsed Time [s] | Mass [mg/m3] | Alarms | Errors |
|------------------|--------------|--------|--------|
| 900              | 0.006        |        |        |
| 1800             | 0.009        |        |        |
| 2700             | 0.005        |        |        |
| 3600             | 0.01         |        |        |
| 4500             | 0.022        |        |        |
| 5400             | 0.01         |        |        |
| 6300             | 0.002        |        |        |
| 7200             | 0.002        |        |        |
| 8100             | 0.003        |        |        |
| 9000             | 0.005        |        |        |
| 9900             | 0.003        |        |        |
| 10800            | 0.004        |        |        |
| 11700            | 0.005        |        |        |
| 12600            | 0.005        |        |        |
| 13500            | 0.005        |        |        |
| 14400            | 0.005        |        |        |
| 15300            | 0.004        |        |        |
| 16200            | 0.006        |        |        |
| 17100            | 0.007        |        |        |
| 18000            | 0.005        |        |        |
| 18900            | 0.008        |        |        |

# Test 010

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/19/2019  |
| Instrument S/N | 8530183205  | Start Time       | 08:56:57    |
|                |             | Stop Date        | 12/19/2019  |
|                |             | Stop Time        | 14:26:57    |
|                |             | Total Time       | 0:05:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.000 mg/m <sup>3</sup> |
| Max            | 0.000 mg/m <sup>3</sup> |
| Max Date       | 12/19/2019              |
| Max Time       | 09:11:57                |
| Min            | 0.000 mg/m <sup>3</sup> |
| Min Date       | 12/19/2019              |
| Min Time       | 09:11:57                |
| TWA (8 hr)     | 0.000                   |
| TWA Start Date | 12/19/2019              |
| TWA Start Time | 08:56:57                |
| TWA End Time   | 14:26:57                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/19/2019 | 09:11:57 | 0.000                     |
| 2          | 12/19/2019 | 09:26:57 | 0.000                     |
| 3          | 12/19/2019 | 09:41:57 | 0.000                     |
| 4          | 12/19/2019 | 09:56:57 | 0.000                     |
| 5          | 12/19/2019 | 10:11:57 | 0.000                     |
| 6          | 12/19/2019 | 10:26:57 | 0.000                     |
| 7          | 12/19/2019 | 10:41:57 | 0.000                     |
| 8          | 12/19/2019 | 10:56:57 | 0.000                     |
| 9          | 12/19/2019 | 11:11:57 | 0.000                     |
| 10         | 12/19/2019 | 11:26:57 | 0.000                     |
| 11         | 12/19/2019 | 11:41:57 | 0.000                     |
| 12         | 12/19/2019 | 11:56:57 | 0.000                     |
| 13         | 12/19/2019 | 12:11:57 | 0.000                     |
| 14         | 12/19/2019 | 12:26:57 | 0.000                     |
| 15         | 12/19/2019 | 12:41:57 | 0.000                     |
| 16         | 12/19/2019 | 12:56:57 | 0.000                     |
| 17         | 12/19/2019 | 13:11:57 | 0.000                     |
| 18         | 12/19/2019 | 13:26:57 | 0.000                     |
| 19         | 12/19/2019 | 13:41:57 | 0.000                     |
| 20         | 12/19/2019 | 13:56:57 | 0.000                     |
| 21         | 12/19/2019 | 14:11:57 | 0.000                     |
| 22         | 12/19/2019 | 14:26:57 | 0.000                     |



# Test 011

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 12/20/2019  |
| Instrument S/N | 8530183205  | Start Time       | 08:30:22    |
|                |             | Stop Date        | 12/20/2019  |
|                |             | Stop Time        | 14:15:22    |
|                |             | Total Time       | 0:05:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.000 mg/m <sup>3</sup> |
| Max            | 0.000 mg/m <sup>3</sup> |
| Max Date       | 12/20/2019              |
| Max Time       | 08:45:22                |
| Min            | 0.000 mg/m <sup>3</sup> |
| Min Date       | 12/20/2019              |
| Min Time       | 08:45:22                |
| TWA (8 hr)     | 0.000                   |
| TWA Start Date | 12/20/2019              |
| TWA Start Time | 08:30:22                |
| TWA End Time   | 14:15:22                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/20/2019 | 08:45:22 | 0.000                     |
| 2          | 12/20/2019 | 09:00:22 | 0.000                     |
| 3          | 12/20/2019 | 09:15:22 | 0.000                     |
| 4          | 12/20/2019 | 09:30:22 | 0.000                     |
| 5          | 12/20/2019 | 09:45:22 | 0.000                     |
| 6          | 12/20/2019 | 10:00:22 | 0.000                     |
| 7          | 12/20/2019 | 10:15:22 | 0.000                     |
| 8          | 12/20/2019 | 10:30:22 | 0.000                     |
| 9          | 12/20/2019 | 10:45:22 | 0.000                     |
| 10         | 12/20/2019 | 11:00:22 | 0.000                     |
| 11         | 12/20/2019 | 11:15:22 | 0.000                     |
| 12         | 12/20/2019 | 11:30:22 | 0.000                     |
| 13         | 12/20/2019 | 11:45:22 | 0.000                     |
| 14         | 12/20/2019 | 12:00:22 | 0.000                     |
| 15         | 12/20/2019 | 12:15:22 | 0.000                     |
| 16         | 12/20/2019 | 12:30:22 | 0.000                     |
| 17         | 12/20/2019 | 12:45:22 | 0.000                     |
| 18         | 12/20/2019 | 13:00:22 | 0.000                     |
| 19         | 12/20/2019 | 13:15:22 | 0.000                     |
| 20         | 12/20/2019 | 13:30:22 | 0.000                     |
| 21         | 12/20/2019 | 13:45:22 | 0.000                     |
| 22         | 12/20/2019 | 14:00:22 | 0.000                     |
| 23         | 12/20/2019 | 14:15:22 | 0.000                     |

# Test 002

| Instrument     |             | Data Properties |            |
|----------------|-------------|-----------------|------------|
| Model          | DustTrak II | Start Date      | 12/30/2019 |
| Instrument S/N | 8530143406  | Start Time      | 11:17:50   |
|                |             | Stop Date       | 12/30/2019 |
|                |             | Stop Time       | 11:32:50   |
|                |             | Total Time      | 0:00:15:00 |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.015 mg/m <sup>3</sup> |
| Max            | 0.015 mg/m <sup>3</sup> |
| Max Date       | 12/30/2019              |
| Max Time       | 11:32:50                |
| Min            | 0.015 mg/m <sup>3</sup> |
| Min Date       | 12/30/2019              |
| Min Time       | 11:32:50                |
| TWA (8 hr)     | 0.000                   |
| TWA Start Date | 12/30/2019              |
| TWA Start Time | 11:17:50                |
| TWA End Time   | 11:32:50                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 12/30/2019 | 11:32:50 | 0.015                     |

# Test 001

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/08/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:56:18    |
|                |             | Stop Date        | 01/08/2020  |
|                |             | Stop Time        | 14:26:18    |
|                |             | Total Time       | 0:06:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.010 mg/m <sup>3</sup> |
| Max            | 0.018 mg/m <sup>3</sup> |
| Max Date       | 01/08/2020              |
| Max Time       | 08:11:18                |
| Min            | 0.008 mg/m <sup>3</sup> |
| Min Date       | 01/08/2020              |
| Min Time       | 10:56:18                |
| TWA (8 hr)     | 0.008                   |
| TWA Start Date | 01/08/2020              |
| TWA Start Time | 07:56:18                |
| TWA End Time   | 14:26:18                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/08/2020 | 08:11:18 | 0.018                     |
| 2          | 01/08/2020 | 08:26:18 | 0.017                     |
| 3          | 01/08/2020 | 08:41:18 | 0.014                     |
| 4          | 01/08/2020 | 08:56:18 | 0.012                     |
| 5          | 01/08/2020 | 09:11:18 | 0.012                     |
| 6          | 01/08/2020 | 09:26:18 | 0.009                     |
| 7          | 01/08/2020 | 09:41:18 | 0.011                     |
| 8          | 01/08/2020 | 09:56:18 | 0.009                     |
| 9          | 01/08/2020 | 10:11:18 | 0.011                     |
| 10         | 01/08/2020 | 10:26:18 | 0.010                     |
| 11         | 01/08/2020 | 10:41:18 | 0.009                     |
| 12         | 01/08/2020 | 10:56:18 | 0.008                     |
| 13         | 01/08/2020 | 11:11:18 | 0.009                     |
| 14         | 01/08/2020 | 11:26:18 | 0.009                     |
| 15         | 01/08/2020 | 11:41:18 | 0.011                     |
| 16         | 01/08/2020 | 11:56:18 | 0.011                     |
| 17         | 01/08/2020 | 12:11:18 | 0.009                     |
| 18         | 01/08/2020 | 12:26:18 | 0.010                     |
| 19         | 01/08/2020 | 12:41:18 | 0.011                     |
| 20         | 01/08/2020 | 12:56:18 | 0.008                     |
| 21         | 01/08/2020 | 13:11:18 | 0.009                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/08/2020 | 13:26:18 | 0.010          |
| 23         | 01/08/2020 | 13:41:18 | 0.008          |
| 24         | 01/08/2020 | 13:56:18 | 0.008          |
| 25         | 01/08/2020 | 14:11:18 | 0.009          |
| 26         | 01/08/2020 | 14:26:18 | 0.008          |

# Test 002

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/09/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:16:09    |
|                |             | Stop Date        | 01/09/2020  |
|                |             | Stop Time        | 14:16:09    |
|                |             | Total Time       | 0:07:00:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.017 mg/m <sup>3</sup> |
| Max            | 0.037 mg/m <sup>3</sup> |
| Max Date       | 01/09/2020              |
| Max Time       | 08:31:09                |
| Min            | 0.007 mg/m <sup>3</sup> |
| Min Date       | 01/09/2020              |
| Min Time       | 07:46:09                |
| TWA (8 hr)     | 0.015                   |
| TWA Start Date | 01/09/2020              |
| TWA Start Time | 07:16:09                |
| TWA End Time   | 14:16:09                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/09/2020 | 07:31:09 | 0.008                     |
| 2          | 01/09/2020 | 07:46:09 | 0.007                     |
| 3          | 01/09/2020 | 08:01:09 | 0.012                     |
| 4          | 01/09/2020 | 08:16:09 | 0.024                     |
| 5          | 01/09/2020 | 08:31:09 | 0.037                     |
| 6          | 01/09/2020 | 08:46:09 | 0.018                     |
| 7          | 01/09/2020 | 09:01:09 | 0.018                     |
| 8          | 01/09/2020 | 09:16:09 | 0.020                     |
| 9          | 01/09/2020 | 09:31:09 | 0.020                     |
| 10         | 01/09/2020 | 09:46:09 | 0.025                     |
| 11         | 01/09/2020 | 10:01:09 | 0.018                     |
| 12         | 01/09/2020 | 10:16:09 | 0.020                     |
| 13         | 01/09/2020 | 10:31:09 | 0.015                     |
| 14         | 01/09/2020 | 10:46:09 | 0.018                     |
| 15         | 01/09/2020 | 11:01:09 | 0.013                     |
| 16         | 01/09/2020 | 11:16:09 | 0.019                     |
| 17         | 01/09/2020 | 11:31:09 | 0.015                     |
| 18         | 01/09/2020 | 11:46:09 | 0.013                     |
| 19         | 01/09/2020 | 12:01:09 | 0.016                     |
| 20         | 01/09/2020 | 12:16:09 | 0.012                     |
| 21         | 01/09/2020 | 12:31:09 | 0.012                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/09/2020 | 12:46:09 | 0.014          |
| 23         | 01/09/2020 | 13:01:09 | 0.014          |
| 24         | 01/09/2020 | 13:16:09 | 0.017          |
| 25         | 01/09/2020 | 13:31:09 | 0.015          |
| 26         | 01/09/2020 | 13:46:09 | 0.016          |
| 27         | 01/09/2020 | 14:01:09 | 0.015          |
| 28         | 01/09/2020 | 14:16:09 | 0.017          |

# Test 003

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/10/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:09:53    |
|                |             | Stop Date        | 01/10/2020  |
|                |             | Stop Time        | 13:39:53    |
|                |             | Total Time       | 0:06:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.016 mg/m <sup>3</sup> |
| Max            | 0.022 mg/m <sup>3</sup> |
| Max Date       | 01/10/2020              |
| Max Time       | 10:09:53                |
| Min            | 0.013 mg/m <sup>3</sup> |
| Min Date       | 01/10/2020              |
| Min Time       | 09:39:53                |
| TWA (8 hr)     | 0.013                   |
| TWA Start Date | 01/10/2020              |
| TWA Start Time | 07:09:53                |
| TWA End Time   | 13:39:53                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/10/2020 | 07:24:53 | 0.016                     |
| 2          | 01/10/2020 | 07:39:53 | 0.015                     |
| 3          | 01/10/2020 | 07:54:53 | 0.018                     |
| 4          | 01/10/2020 | 08:09:53 | 0.017                     |
| 5          | 01/10/2020 | 08:24:53 | 0.015                     |
| 6          | 01/10/2020 | 08:39:53 | 0.016                     |
| 7          | 01/10/2020 | 08:54:53 | 0.015                     |
| 8          | 01/10/2020 | 09:09:53 | 0.014                     |
| 9          | 01/10/2020 | 09:24:53 | 0.014                     |
| 10         | 01/10/2020 | 09:39:53 | 0.013                     |
| 11         | 01/10/2020 | 09:54:53 | 0.015                     |
| 12         | 01/10/2020 | 10:09:53 | 0.022                     |
| 13         | 01/10/2020 | 10:24:53 | 0.020                     |
| 14         | 01/10/2020 | 10:39:53 | 0.019                     |
| 15         | 01/10/2020 | 10:54:53 | 0.017                     |
| 16         | 01/10/2020 | 11:09:53 | 0.016                     |
| 17         | 01/10/2020 | 11:24:53 | 0.018                     |
| 18         | 01/10/2020 | 11:39:53 | 0.017                     |
| 19         | 01/10/2020 | 11:54:53 | 0.018                     |
| 20         | 01/10/2020 | 12:09:53 | 0.017                     |
| 21         | 01/10/2020 | 12:24:53 | 0.016                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/10/2020 | 12:39:53 | 0.017          |
| 23         | 01/10/2020 | 12:54:53 | 0.015          |
| 24         | 01/10/2020 | 13:09:53 | 0.017          |
| 25         | 01/10/2020 | 13:24:53 | 0.016          |
| 26         | 01/10/2020 | 13:39:53 | 0.015          |



# Test 004

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/13/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:09:33    |
|                |             | Stop Date        | 01/13/2020  |
|                |             | Stop Time        | 14:54:33    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.020 mg/m <sup>3</sup> |
| Max            | 0.034 mg/m <sup>3</sup> |
| Max Date       | 01/13/2020              |
| Max Time       | 07:54:33                |
| Min            | 0.016 mg/m <sup>3</sup> |
| Min Date       | 01/13/2020              |
| Min Time       | 10:39:33                |
| TWA (8 hr)     | 0.020                   |
| TWA Start Date | 01/13/2020              |
| TWA Start Time | 07:09:33                |
| TWA End Time   | 14:54:33                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/13/2020 | 07:24:33 | 0.020                     |
| 2          | 01/13/2020 | 07:39:33 | 0.020                     |
| 3          | 01/13/2020 | 07:54:33 | 0.034                     |
| 4          | 01/13/2020 | 08:09:33 | 0.023                     |
| 5          | 01/13/2020 | 08:24:33 | 0.030                     |
| 6          | 01/13/2020 | 08:39:33 | 0.031                     |
| 7          | 01/13/2020 | 08:54:33 | 0.026                     |
| 8          | 01/13/2020 | 09:09:33 | 0.021                     |
| 9          | 01/13/2020 | 09:24:33 | 0.023                     |
| 10         | 01/13/2020 | 09:39:33 | 0.024                     |
| 11         | 01/13/2020 | 09:54:33 | 0.018                     |
| 12         | 01/13/2020 | 10:09:33 | 0.017                     |
| 13         | 01/13/2020 | 10:24:33 | 0.017                     |
| 14         | 01/13/2020 | 10:39:33 | 0.016                     |
| 15         | 01/13/2020 | 10:54:33 | 0.017                     |
| 16         | 01/13/2020 | 11:09:33 | 0.019                     |
| 17         | 01/13/2020 | 11:24:33 | 0.023                     |
| 18         | 01/13/2020 | 11:39:33 | 0.017                     |
| 19         | 01/13/2020 | 11:54:33 | 0.018                     |
| 20         | 01/13/2020 | 12:09:33 | 0.016                     |
| 21         | 01/13/2020 | 12:24:33 | 0.017                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/13/2020 | 12:39:33 | 0.019          |
| 23         | 01/13/2020 | 12:54:33 | 0.018          |
| 24         | 01/13/2020 | 13:09:33 | 0.017          |
| 25         | 01/13/2020 | 13:24:33 | 0.016          |
| 26         | 01/13/2020 | 13:39:33 | 0.016          |
| 27         | 01/13/2020 | 13:54:33 | 0.018          |
| 28         | 01/13/2020 | 14:09:33 | 0.019          |
| 29         | 01/13/2020 | 14:24:33 | 0.018          |
| 30         | 01/13/2020 | 14:39:33 | 0.019          |
| 31         | 01/13/2020 | 14:54:33 | 0.019          |

# Test 005

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/14/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:12:08    |
|                |             | Stop Date        | 01/14/2020  |
|                |             | Stop Time        | 14:42:08    |
|                |             | Total Time       | 0:07:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.030 mg/m <sup>3</sup> |
| Max            | 0.042 mg/m <sup>3</sup> |
| Max Date       | 01/14/2020              |
| Max Time       | 09:27:08                |
| Min            | 0.020 mg/m <sup>3</sup> |
| Min Date       | 01/14/2020              |
| Min Time       | 14:27:08                |
| TWA (8 hr)     | 0.028                   |
| TWA Start Date | 01/14/2020              |
| TWA Start Time | 07:12:08                |
| TWA End Time   | 14:42:08                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/14/2020 | 07:27:08 | 0.038                     |
| 2          | 01/14/2020 | 07:42:08 | 0.038                     |
| 3          | 01/14/2020 | 07:57:08 | 0.037                     |
| 4          | 01/14/2020 | 08:12:08 | 0.034                     |
| 5          | 01/14/2020 | 08:27:08 | 0.034                     |
| 6          | 01/14/2020 | 08:42:08 | 0.037                     |
| 7          | 01/14/2020 | 08:57:08 | 0.036                     |
| 8          | 01/14/2020 | 09:12:08 | 0.037                     |
| 9          | 01/14/2020 | 09:27:08 | 0.042                     |
| 10         | 01/14/2020 | 09:42:08 | 0.041                     |
| 11         | 01/14/2020 | 09:57:08 | 0.038                     |
| 12         | 01/14/2020 | 10:12:08 | 0.037                     |
| 13         | 01/14/2020 | 10:27:08 | 0.034                     |
| 14         | 01/14/2020 | 10:42:08 | 0.033                     |
| 15         | 01/14/2020 | 10:57:08 | 0.032                     |
| 16         | 01/14/2020 | 11:12:08 | 0.030                     |
| 17         | 01/14/2020 | 11:27:08 | 0.029                     |
| 18         | 01/14/2020 | 11:42:08 | 0.023                     |
| 19         | 01/14/2020 | 11:57:08 | 0.022                     |
| 20         | 01/14/2020 | 12:12:08 | 0.023                     |
| 21         | 01/14/2020 | 12:27:08 | 0.023                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/14/2020 | 12:42:08 | 0.024          |
| 23         | 01/14/2020 | 12:57:08 | 0.023          |
| 24         | 01/14/2020 | 13:12:08 | 0.023          |
| 25         | 01/14/2020 | 13:27:08 | 0.022          |
| 26         | 01/14/2020 | 13:42:08 | 0.023          |
| 27         | 01/14/2020 | 13:57:08 | 0.026          |
| 28         | 01/14/2020 | 14:12:08 | 0.022          |
| 29         | 01/14/2020 | 14:27:08 | 0.020          |
| 30         | 01/14/2020 | 14:42:08 | 0.020          |

# Test 006

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/15/2020  |
| Instrument S/N | 8530162110  | Start Time       | 08:18:35    |
|                |             | Stop Date        | 01/15/2020  |
|                |             | Stop Time        | 14:48:35    |
|                |             | Total Time       | 0:06:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.014 mg/m <sup>3</sup> |
| Max            | 0.021 mg/m <sup>3</sup> |
| Max Date       | 01/15/2020              |
| Max Time       | 08:33:35                |
| Min            | 0.011 mg/m <sup>3</sup> |
| Min Date       | 01/15/2020              |
| Min Time       | 12:48:35                |
| TWA (8 hr)     | 0.012                   |
| TWA Start Date | 01/15/2020              |
| TWA Start Time | 08:18:35                |
| TWA End Time   | 14:48:35                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/15/2020 | 08:33:35 | 0.021                     |
| 2          | 01/15/2020 | 08:48:35 | 0.019                     |
| 3          | 01/15/2020 | 09:03:35 | 0.019                     |
| 4          | 01/15/2020 | 09:18:35 | 0.018                     |
| 5          | 01/15/2020 | 09:33:35 | 0.017                     |
| 6          | 01/15/2020 | 09:48:35 | 0.017                     |
| 7          | 01/15/2020 | 10:03:35 | 0.016                     |
| 8          | 01/15/2020 | 10:18:35 | 0.015                     |
| 9          | 01/15/2020 | 10:33:35 | 0.016                     |
| 10         | 01/15/2020 | 10:48:35 | 0.014                     |
| 11         | 01/15/2020 | 11:03:35 | 0.013                     |
| 12         | 01/15/2020 | 11:18:35 | 0.013                     |
| 13         | 01/15/2020 | 11:33:35 | 0.014                     |
| 14         | 01/15/2020 | 11:48:35 | 0.014                     |
| 15         | 01/15/2020 | 12:03:35 | 0.012                     |
| 16         | 01/15/2020 | 12:18:35 | 0.012                     |
| 17         | 01/15/2020 | 12:33:35 | 0.014                     |
| 18         | 01/15/2020 | 12:48:35 | 0.011                     |
| 19         | 01/15/2020 | 13:03:35 | 0.012                     |
| 20         | 01/15/2020 | 13:18:35 | 0.012                     |
| 21         | 01/15/2020 | 13:33:35 | 0.013                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/15/2020 | 13:48:35 | 0.012          |
| 23         | 01/15/2020 | 14:03:35 | 0.011          |
| 24         | 01/15/2020 | 14:18:35 | 0.012          |
| 25         | 01/15/2020 | 14:33:35 | 0.013          |
| 26         | 01/15/2020 | 14:48:35 | 0.013          |

# Test 007

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 01/16/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:10:51    |
|                |             | Stop Date        | 01/16/2020  |
|                |             | Stop Time        | 14:25:51    |
|                |             | Total Time       | 0:07:15:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.016 mg/m <sup>3</sup> |
| Max            | 0.034 mg/m <sup>3</sup> |
| Max Date       | 01/16/2020              |
| Max Time       | 08:25:51                |
| Min            | 0.008 mg/m <sup>3</sup> |
| Min Date       | 01/16/2020              |
| Min Time       | 12:25:51                |
| TWA (8 hr)     | 0.015                   |
| TWA Start Date | 01/16/2020              |
| TWA Start Time | 07:10:51                |
| TWA End Time   | 14:25:51                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 01/16/2020 | 07:25:51 | 0.016                     |
| 2          | 01/16/2020 | 07:40:51 | 0.019                     |
| 3          | 01/16/2020 | 07:55:51 | 0.022                     |
| 4          | 01/16/2020 | 08:10:51 | 0.028                     |
| 5          | 01/16/2020 | 08:25:51 | 0.034                     |
| 6          | 01/16/2020 | 08:40:51 | 0.034                     |
| 7          | 01/16/2020 | 08:55:51 | 0.034                     |
| 8          | 01/16/2020 | 09:10:51 | 0.029                     |
| 9          | 01/16/2020 | 09:25:51 | 0.025                     |
| 10         | 01/16/2020 | 09:40:51 | 0.015                     |
| 11         | 01/16/2020 | 09:55:51 | 0.012                     |
| 12         | 01/16/2020 | 10:10:51 | 0.009                     |
| 13         | 01/16/2020 | 10:25:51 | 0.011                     |
| 14         | 01/16/2020 | 10:40:51 | 0.009                     |
| 15         | 01/16/2020 | 10:55:51 | 0.018                     |
| 16         | 01/16/2020 | 11:10:51 | 0.018                     |
| 17         | 01/16/2020 | 11:25:51 | 0.016                     |
| 18         | 01/16/2020 | 11:40:51 | 0.013                     |
| 19         | 01/16/2020 | 11:55:51 | 0.015                     |
| 20         | 01/16/2020 | 12:10:51 | 0.009                     |
| 21         | 01/16/2020 | 12:25:51 | 0.008                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 01/16/2020 | 12:40:51 | 0.011          |
| 23         | 01/16/2020 | 12:55:51 | 0.008          |
| 24         | 01/16/2020 | 13:10:51 | 0.010          |
| 25         | 01/16/2020 | 13:25:51 | 0.008          |
| 26         | 01/16/2020 | 13:40:51 | 0.010          |
| 27         | 01/16/2020 | 13:55:51 | 0.011          |
| 28         | 01/16/2020 | 14:10:51 | 0.011          |
| 29         | 01/16/2020 | 14:25:51 | 0.012          |



# Test 051

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 02/04/2020  |
| Instrument S/N | 8530133815  | Start Time       | 07:28:47    |
|                |             | Stop Date        | 02/04/2020  |
|                |             | Stop Time        | 14:43:47    |
|                |             | Total Time       | 0:07:15:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.031 mg/m <sup>3</sup> |
| Max            | 0.060 mg/m <sup>3</sup> |
| Max Date       | 02/04/2020              |
| Max Time       | 12:58:47                |
| Min            | 0.011 mg/m <sup>3</sup> |
| Min Date       | 02/04/2020              |
| Min Time       | 14:13:47                |
| TWA (8 hr)     | 0.028                   |
| TWA Start Date | 02/04/2020              |
| TWA Start Time | 07:28:47                |
| TWA End Time   | 14:43:47                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 02/04/2020 | 07:43:47 | 0.049                     |
| 2          | 02/04/2020 | 07:58:47 | 0.053                     |
| 3          | 02/04/2020 | 08:13:47 | 0.055                     |
| 4          | 02/04/2020 | 08:28:47 | 0.049                     |
| 5          | 02/04/2020 | 08:43:47 | 0.044                     |
| 6          | 02/04/2020 | 08:58:47 | 0.037                     |
| 7          | 02/04/2020 | 09:13:47 | 0.031                     |
| 8          | 02/04/2020 | 09:28:47 | 0.029                     |
| 9          | 02/04/2020 | 09:43:47 | 0.030                     |
| 10         | 02/04/2020 | 09:58:47 | 0.030                     |
| 11         | 02/04/2020 | 10:13:47 | 0.033                     |
| 12         | 02/04/2020 | 10:28:47 | 0.030                     |
| 13         | 02/04/2020 | 10:43:47 | 0.030                     |
| 14         | 02/04/2020 | 10:58:47 | 0.031                     |
| 15         | 02/04/2020 | 11:13:47 | 0.030                     |
| 16         | 02/04/2020 | 11:28:47 | 0.029                     |
| 17         | 02/04/2020 | 11:43:47 | 0.031                     |
| 18         | 02/04/2020 | 11:58:47 | 0.034                     |
| 19         | 02/04/2020 | 12:13:47 | 0.030                     |
| 20         | 02/04/2020 | 12:28:47 | 0.032                     |
| 21         | 02/04/2020 | 12:43:47 | 0.030                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 02/04/2020 | 12:58:47 | 0.060          |
| 23         | 02/04/2020 | 13:13:47 | 0.021          |
| 24         | 02/04/2020 | 13:28:47 | 0.019          |
| 25         | 02/04/2020 | 13:43:47 | 0.013          |
| 26         | 02/04/2020 | 13:58:47 | 0.012          |
| 27         | 02/04/2020 | 14:13:47 | 0.011          |
| 28         | 02/04/2020 | 14:28:47 | 0.012          |
| 29         | 02/04/2020 | 14:43:47 | 0.014          |

# Test 052

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 02/05/2020  |
| Instrument S/N | 8530133815  | Start Time       | 07:21:25    |
|                |             | Stop Date        | 02/05/2020  |
|                |             | Stop Time        | 15:06:25    |
|                |             | Total Time       | 0:07:45:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.009 mg/m <sup>3</sup> |
| Max            | 0.037 mg/m <sup>3</sup> |
| Max Date       | 02/05/2020              |
| Max Time       | 14:21:25                |
| Min            | 0.004 mg/m <sup>3</sup> |
| Min Date       | 02/05/2020              |
| Min Time       | 10:51:25                |
| TWA (8 hr)     | 0.009                   |
| TWA Start Date | 02/05/2020              |
| TWA Start Time | 07:21:25                |
| TWA End Time   | 15:06:25                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 02/05/2020 | 07:36:25 | 0.010                     |
| 2          | 02/05/2020 | 07:51:25 | 0.007                     |
| 3          | 02/05/2020 | 08:06:25 | 0.011                     |
| 4          | 02/05/2020 | 08:21:25 | 0.008                     |
| 5          | 02/05/2020 | 08:36:25 | 0.006                     |
| 6          | 02/05/2020 | 08:51:25 | 0.008                     |
| 7          | 02/05/2020 | 09:06:25 | 0.006                     |
| 8          | 02/05/2020 | 09:21:25 | 0.006                     |
| 9          | 02/05/2020 | 09:36:25 | 0.007                     |
| 10         | 02/05/2020 | 09:51:25 | 0.005                     |
| 11         | 02/05/2020 | 10:06:25 | 0.005                     |
| 12         | 02/05/2020 | 10:21:25 | 0.006                     |
| 13         | 02/05/2020 | 10:36:25 | 0.006                     |
| 14         | 02/05/2020 | 10:51:25 | 0.004                     |
| 15         | 02/05/2020 | 11:06:25 | 0.005                     |
| 16         | 02/05/2020 | 11:21:25 | 0.009                     |
| 17         | 02/05/2020 | 11:36:25 | 0.024                     |
| 18         | 02/05/2020 | 11:51:25 | 0.009                     |
| 19         | 02/05/2020 | 12:06:25 | 0.006                     |
| 20         | 02/05/2020 | 12:21:25 | 0.007                     |
| 21         | 02/05/2020 | 12:36:25 | 0.007                     |

| Test Data  |            |          |                |
|------------|------------|----------|----------------|
| Data Point | Date       | Time     | AEROSOL mg/m^3 |
| 22         | 02/05/2020 | 12:51:25 | 0.007          |
| 23         | 02/05/2020 | 13:06:25 | 0.008          |
| 24         | 02/05/2020 | 13:21:25 | 0.013          |
| 25         | 02/05/2020 | 13:36:25 | 0.007          |
| 26         | 02/05/2020 | 13:51:25 | 0.009          |
| 27         | 02/05/2020 | 14:06:25 | 0.008          |
| 28         | 02/05/2020 | 14:21:25 | 0.037          |
| 29         | 02/05/2020 | 14:36:25 | 0.007          |
| 30         | 02/05/2020 | 14:51:25 | 0.012          |
| 31         | 02/05/2020 | 15:06:25 | 0.010          |

# Test 037

| Instrument     |             | Data Properties  |             |
|----------------|-------------|------------------|-------------|
| Model          | DustTrak II | Start Date       | 02/26/2020  |
| Instrument S/N | 8530162110  | Start Time       | 07:08:36    |
|                |             | Stop Date        | 02/26/2020  |
|                |             | Stop Time        | 15:38:36    |
|                |             | Total Time       | 0:08:30:00  |
|                |             | Logging Interval | 900 seconds |

| Statistics     |                         |
|----------------|-------------------------|
|                | <b>AEROSOL</b>          |
| Avg            | 0.031 mg/m <sup>3</sup> |
| Max            | 0.043 mg/m <sup>3</sup> |
| Max Date       | 02/26/2020              |
| Max Time       | 10:23:36                |
| Min            | 0.018 mg/m <sup>3</sup> |
| Min Date       | 02/26/2020              |
| Min Time       | 13:08:36                |
| TWA (8 hr)     | 0.030                   |
| TWA Start Date | 02/26/2020              |
| TWA Start Time | 07:08:36                |
| TWA End Time   | 15:38:36                |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 1          | 02/26/2020 | 07:23:36 | 0.027                     |
| 2          | 02/26/2020 | 07:38:36 | 0.027                     |
| 3          | 02/26/2020 | 07:53:36 | 0.030                     |
| 4          | 02/26/2020 | 08:08:36 | 0.030                     |
| 5          | 02/26/2020 | 08:23:36 | 0.031                     |
| 6          | 02/26/2020 | 08:38:36 | 0.030                     |
| 7          | 02/26/2020 | 08:53:36 | 0.030                     |
| 8          | 02/26/2020 | 09:08:36 | 0.031                     |
| 9          | 02/26/2020 | 09:23:36 | 0.030                     |
| 10         | 02/26/2020 | 09:38:36 | 0.032                     |
| 11         | 02/26/2020 | 09:53:36 | 0.028                     |
| 12         | 02/26/2020 | 10:08:36 | 0.029                     |
| 13         | 02/26/2020 | 10:23:36 | 0.043                     |
| 14         | 02/26/2020 | 10:38:36 | 0.039                     |
| 15         | 02/26/2020 | 10:53:36 | 0.032                     |
| 16         | 02/26/2020 | 11:08:36 | 0.037                     |
| 17         | 02/26/2020 | 11:23:36 | 0.030                     |
| 18         | 02/26/2020 | 11:38:36 | 0.038                     |
| 19         | 02/26/2020 | 11:53:36 | 0.037                     |
| 20         | 02/26/2020 | 12:08:36 | 0.028                     |
| 21         | 02/26/2020 | 12:23:36 | 0.023                     |

| Test Data  |            |          |                           |
|------------|------------|----------|---------------------------|
| Data Point | Date       | Time     | AEROSOL mg/m <sup>3</sup> |
| 22         | 02/26/2020 | 12:38:36 | 0.019                     |
| 23         | 02/26/2020 | 12:53:36 | 0.019                     |
| 24         | 02/26/2020 | 13:08:36 | 0.018                     |
| 25         | 02/26/2020 | 13:23:36 | 0.019                     |
| 26         | 02/26/2020 | 13:38:36 | 0.027                     |
| 27         | 02/26/2020 | 13:53:36 | 0.025                     |
| 28         | 02/26/2020 | 14:08:36 | 0.037                     |
| 29         | 02/26/2020 | 14:23:36 | 0.033                     |
| 30         | 02/26/2020 | 14:38:36 | 0.031                     |
| 31         | 02/26/2020 | 14:53:36 | 0.033                     |
| 32         | 02/26/2020 | 15:08:36 | 0.038                     |
| 33         | 02/26/2020 | 15:23:36 | 0.038                     |
| 34         | 02/26/2020 | 15:38:36 | 0.041                     |

9/11/2013 10:22

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# Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-919444  
Unit Firmware Ver V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Power Down  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 11/13/2019 10:22  
End 11/13/2019 15:54  
Sample Period(s) 60  
Number of Records 212  
-----

Sensor PID(ppm)  
Sensor SN S023030357U5  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 10/14/2019 12:05  
Peak 0  
Min 0  
Average 0

\*\*\*\*\*

# Datalog

| Index | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|------------------|-------------------|-------------------|--------------------|
| 1     | 11/13/2019 10:23 | 0                 | 0                 | 0                  |
| 2     | 11/13/2019 10:24 | 0                 | 0                 | 0                  |
| 3     | 11/13/2019 10:25 | 0                 | 0                 | 0                  |
| 4     | 11/13/2019 10:26 | 0                 | 0                 | 0                  |
| 5     | 11/13/2019 10:27 | 0                 | 0                 | 0                  |
| 6     | 11/13/2019 10:28 | 0                 | 0                 | 0                  |
| 7     | 11/13/2019 10:29 | 0                 | 0                 | 0                  |
| 8     | 11/13/2019 10:30 | 0                 | 0                 | 0                  |
| 9     | 11/13/2019 10:31 | 0                 | 0                 | 0                  |
| 10    | 11/13/2019 10:32 | 0                 | 0                 | 0                  |

|    |                  |   |   |   |
|----|------------------|---|---|---|
| 11 | 11/13/2019 10:33 | 0 | 0 | 0 |
| 12 | 11/13/2019 10:34 | 0 | 0 | 0 |
| 13 | 11/13/2019 10:35 | 0 | 0 | 0 |
| 14 | 11/13/2019 10:36 | 0 | 0 | 0 |
| 15 | 11/13/2019 10:37 | 0 | 0 | 0 |
| 16 | 11/13/2019 10:38 | 0 | 0 | 0 |
| 17 | 11/13/2019 10:39 | 0 | 0 | 0 |
| 18 | 11/13/2019 10:40 | 0 | 0 | 0 |
| 19 | 11/13/2019 10:41 | 0 | 0 | 0 |
| 20 | 11/13/2019 10:42 | 0 | 0 | 0 |
| 21 | 11/13/2019 10:43 | 0 | 0 | 0 |
| 22 | 11/13/2019 10:44 | 0 | 0 | 0 |
| 23 | 11/13/2019 10:45 | 0 | 0 | 0 |
| 24 | 11/13/2019 10:46 | 0 | 0 | 0 |
| 25 | 11/13/2019 10:47 | 0 | 0 | 0 |
| 26 | 11/13/2019 10:48 | 0 | 0 | 0 |
| 27 | 11/13/2019 10:49 | 0 | 0 | 0 |
| 28 | 11/13/2019 10:50 | 0 | 0 | 0 |
| 29 | 11/13/2019 10:51 | 0 | 0 | 0 |
| 30 | 11/13/2019 10:52 | 0 | 0 | 0 |
| 31 | 11/13/2019 10:53 | 0 | 0 | 0 |
| 32 | 11/13/2019 10:54 | 0 | 0 | 0 |
| 33 | 11/13/2019 10:55 | 0 | 0 | 0 |
| 34 | 11/13/2019 10:56 | 0 | 0 | 0 |
| 35 | 11/13/2019 10:57 | 0 | 0 | 0 |
| 36 | 11/13/2019 10:58 | 0 | 0 | 0 |
| 37 | 11/13/2019 10:59 | 0 | 0 | 0 |
| 38 | 11/13/2019 11:00 | 0 | 0 | 0 |
| 39 | 11/13/2019 11:01 | 0 | 0 | 0 |
| 40 | 11/13/2019 11:02 | 0 | 0 | 0 |
| 41 | 11/13/2019 11:03 | 0 | 0 | 0 |
| 42 | 11/13/2019 11:04 | 0 | 0 | 0 |
| 43 | 11/13/2019 11:05 | 0 | 0 | 0 |
| 44 | 11/13/2019 11:06 | 0 | 0 | 0 |
| 45 | 11/13/2019 11:07 | 0 | 0 | 0 |
| 46 | 11/13/2019 11:08 | 0 | 0 | 0 |
| 47 | 11/13/2019 11:09 | 0 | 0 | 0 |
| 48 | 11/13/2019 11:10 | 0 | 0 | 0 |
| 49 | 11/13/2019 11:11 | 0 | 0 | 0 |
| 50 | 11/13/2019 11:12 | 0 | 0 | 0 |
| 51 | 11/13/2019 11:13 | 0 | 0 | 0 |
| 52 | 11/13/2019 11:14 | 0 | 0 | 0 |
| 53 | 11/13/2019 11:15 | 0 | 0 | 0 |
| 54 | 11/13/2019 11:16 | 0 | 0 | 0 |
| 55 | 11/13/2019 11:17 | 0 | 0 | 0 |
| 56 | 11/13/2019 11:18 | 0 | 0 | 0 |
| 57 | 11/13/2019 11:19 | 0 | 0 | 0 |
| 58 | 11/13/2019 11:20 | 0 | 0 | 0 |
| 59 | 11/13/2019 11:21 | 0 | 0 | 0 |
| 60 | 11/13/2019 11:22 | 0 | 0 | 0 |
| 61 | 11/13/2019 11:23 | 0 | 0 | 0 |



|     |                  |   |   |   |
|-----|------------------|---|---|---|
| 62  | 11/13/2019 11:24 | 0 | 0 | 0 |
| 63  | 11/13/2019 11:25 | 0 | 0 | 0 |
| 64  | 11/13/2019 11:26 | 0 | 0 | 0 |
| 65  | 11/13/2019 11:27 | 0 | 0 | 0 |
| 66  | 11/13/2019 11:28 | 0 | 0 | 0 |
| 67  | 11/13/2019 11:29 | 0 | 0 | 0 |
| 68  | 11/13/2019 11:30 | 0 | 0 | 0 |
| 69  | 11/13/2019 11:31 | 0 | 0 | 0 |
| 70  | 11/13/2019 11:32 | 0 | 0 | 0 |
| 71  | 11/13/2019 11:33 | 0 | 0 | 0 |
| 72  | 11/13/2019 11:34 | 0 | 0 | 0 |
| 73  | 11/13/2019 11:35 | 0 | 0 | 0 |
| 74  | 11/13/2019 11:36 | 0 | 0 | 0 |
| 75  | 11/13/2019 11:37 | 0 | 0 | 0 |
| 76  | 11/13/2019 11:38 | 0 | 0 | 0 |
| 77  | 11/13/2019 11:39 | 0 | 0 | 0 |
| 78  | 11/13/2019 11:40 | 0 | 0 | 0 |
| 79  | 11/13/2019 11:41 | 0 | 0 | 0 |
| 80  | 11/13/2019 11:42 | 0 | 0 | 0 |
| 81  | 11/13/2019 11:43 | 0 | 0 | 0 |
| 82  | 11/13/2019 11:44 | 0 | 0 | 0 |
| 83  | 11/13/2019 11:45 | 0 | 0 | 0 |
| 84  | 11/13/2019 11:46 | 0 | 0 | 0 |
| 85  | 11/13/2019 11:47 | 0 | 0 | 0 |
| 86  | 11/13/2019 11:48 | 0 | 0 | 0 |
| 87  | 11/13/2019 11:49 | 0 | 0 | 0 |
| 88  | 11/13/2019 11:50 | 0 | 0 | 0 |
| 89  | 11/13/2019 11:51 | 0 | 0 | 0 |
| 90  | 11/13/2019 11:52 | 0 | 0 | 0 |
| 91  | 11/13/2019 11:53 | 0 | 0 | 0 |
| 92  | 11/13/2019 11:54 | 0 | 0 | 0 |
| 93  | 11/13/2019 11:55 | 0 | 0 | 0 |
| 94  | 11/13/2019 11:56 | 0 | 0 | 0 |
| 95  | 11/13/2019 11:57 | 0 | 0 | 0 |
| 96  | 11/13/2019 11:58 | 0 | 0 | 0 |
| 97  | 11/13/2019 11:59 | 0 | 0 | 0 |
| 98  | 11/13/2019 12:00 | 0 | 0 | 0 |
| 99  | 11/13/2019 12:01 | 0 | 0 | 0 |
| 100 | 11/13/2019 12:02 | 0 | 0 | 0 |
| 101 | 11/13/2019 12:03 | 0 | 0 | 0 |
| 102 | 11/13/2019 12:04 | 0 | 0 | 0 |
| 103 | 11/13/2019 12:05 | 0 | 0 | 0 |
| 104 | 11/13/2019 12:06 | 0 | 0 | 0 |
| 105 | 11/13/2019 12:07 | 0 | 0 | 0 |
| 106 | 11/13/2019 12:08 | 0 | 0 | 0 |
| 107 | 11/13/2019 12:09 | 0 | 0 | 0 |
| 108 | 11/13/2019 12:10 | 0 | 0 | 0 |
| 109 | 11/13/2019 12:11 | 0 | 0 | 0 |
| 110 | 11/13/2019 12:12 | 0 | 0 | 0 |
| 111 | 11/13/2019 12:13 | 0 | 0 | 0 |
| 112 | 11/13/2019 12:14 | 0 | 0 | 0 |

|     |                  |   |   |   |
|-----|------------------|---|---|---|
| 113 | 11/13/2019 12:15 | 0 | 0 | 0 |
| 114 | 11/13/2019 12:16 | 0 | 0 | 0 |
| 115 | 11/13/2019 12:17 | 0 | 0 | 0 |
| 116 | 11/13/2019 12:18 | 0 | 0 | 0 |
| 117 | 11/13/2019 12:19 | 0 | 0 | 0 |
| 118 | 11/13/2019 12:20 | 0 | 0 | 0 |
| 119 | 11/13/2019 12:21 | 0 | 0 | 0 |
| 120 | 11/13/2019 12:22 | 0 | 0 | 0 |
| 121 | 11/13/2019 12:23 | 0 | 0 | 0 |
| 122 | 11/13/2019 12:24 | 0 | 0 | 0 |
| 123 | 11/13/2019 12:25 | 0 | 0 | 0 |
| 124 | 11/13/2019 12:26 | 0 | 0 | 0 |
| 125 | 11/13/2019 12:27 | 0 | 0 | 0 |
| 126 | 11/13/2019 12:28 | 0 | 0 | 0 |
| 127 | 11/13/2019 12:29 | 0 | 0 | 0 |
| 128 | 11/13/2019 12:30 | 0 | 0 | 0 |
| 129 | 11/13/2019 12:31 | 0 | 0 | 0 |
| 130 | 11/13/2019 12:32 | 0 | 0 | 0 |
| 131 | 11/13/2019 12:33 | 0 | 0 | 0 |
| 132 | 11/13/2019 12:34 | 0 | 0 | 0 |
| 133 | 11/13/2019 12:35 | 0 | 0 | 0 |
| 134 | 11/13/2019 12:36 | 0 | 0 | 0 |
| 135 | 11/13/2019 12:37 | 0 | 0 | 0 |
| 136 | 11/13/2019 12:38 | 0 | 0 | 0 |
| 137 | 11/13/2019 12:39 | 0 | 0 | 0 |
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| 139 | 11/13/2019 12:41 | 0 | 0 | 0 |
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| 157 | 11/13/2019 12:59 | 0 | 0 | 0 |
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| 160 | 11/13/2019 13:02 | 0 | 0 | 0 |
| 161 | 11/13/2019 13:03 | 0 | 0 | 0 |
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| 163 | 11/13/2019 13:05 | 0 | 0 | 0 |

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|------|------------------|---|---|---|
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| 165  | 11/13/2019 13:07 | 0 | 0 | 0 |
| 166  | 11/13/2019 13:08 | 0 | 0 | 0 |
| 167  | 11/13/2019 13:09 | 0 | 0 | 0 |
| 168  | 11/13/2019 13:10 | 0 | 0 | 0 |
| 169  | 11/13/2019 13:11 | 0 | 0 | 0 |
| 170  | 11/13/2019 13:12 | 0 | 0 | 0 |
| 171  | 11/13/2019 13:13 | 0 | 0 | 0 |
| 172  | 11/13/2019 13:14 | 0 | 0 | 0 |
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| 174  | 11/13/2019 13:16 | 0 | 0 | 0 |
| 175  | 11/13/2019 13:17 | 0 | 0 | 0 |
| 176  | 11/13/2019 13:18 | 0 | 0 | 0 |
| 177  | 11/13/2019 13:19 | 0 | 0 | 0 |
| 178  | 11/13/2019 13:20 | 0 | 0 | 0 |
| 179  | 11/13/2019 13:21 | 0 | 0 | 0 |
| 180  | 11/13/2019 13:22 | 0 | 0 | 0 |
| 181  | 11/13/2019 13:23 | 0 | 0 | 0 |
| 182  | 11/13/2019 13:24 | 0 | 0 | 0 |
| 183  | 11/13/2019 13:25 | 0 | 0 | 0 |
| 184  | 11/13/2019 13:26 | 0 | 0 | 0 |
| 185  | 11/13/2019 13:27 | 0 | 0 | 0 |
| 186  | 11/13/2019 13:28 | 0 | 0 | 0 |
| 187  | 11/13/2019 13:29 | 0 | 0 | 0 |
| 188  | 11/13/2019 13:30 | 0 | 0 | 0 |
| 189  | 11/13/2019 13:31 | 0 | 0 | 0 |
| 190  | 11/13/2019 13:32 | 0 | 0 | 0 |
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| 194  | 11/13/2019 13:36 | 0 | 0 | 0 |
| 195  | 11/13/2019 13:37 | 0 | 0 | 0 |
| 196  | 11/13/2019 13:38 | 0 | 0 | 0 |
| 197  | 11/13/2019 13:39 | 0 | 0 | 0 |
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| 199  | 11/13/2019 13:41 | 0 | 0 | 0 |
| 200  | 11/13/2019 13:42 | 0 | 0 | 0 |
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| 212  | 11/13/2019 13:54 | 0 | 0 | 0 |
| Peak |                  | 0 | 0 | 0 |
| Min  |                  | 0 | 0 | 0 |

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|---------|---|---|---|
| Average | 0 | 0 | 0 |
|---------|---|---|---|

\*\*\*\*\*

TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
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| 2     | 11/13/2019 10:24 | 0 ---             |                    |
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| 5     | 11/13/2019 10:27 | 0 ---             |                    |
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| 27    | 11/13/2019 10:49 | 0                 | 0                  |
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| 33    | 11/13/2019 10:55 | 0                 | 0                  |
| 34    | 11/13/2019 10:56 | 0                 | 0                  |
| 35    | 11/13/2019 10:57 | 0                 | 0                  |
| 36    | 11/13/2019 10:58 | 0                 | 0                  |
| 37    | 11/13/2019 10:59 | 0                 | 0                  |
| 38    | 11/13/2019 11:00 | 0                 | 0                  |
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| 40    | 11/13/2019 11:02 | 0                 | 0                  |
| 41    | 11/13/2019 11:03 | 0                 | 0                  |
| 42    | 11/13/2019 11:04 | 0                 | 0                  |
| 43    | 11/13/2019 11:05 | 0                 | 0                  |
| 44    | 11/13/2019 11:06 | 0                 | 0                  |
| 45    | 11/13/2019 11:07 | 0                 | 0                  |

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| 47 | 11/13/2019 11:09 | 0 | 0 |
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| 53 | 11/13/2019 11:15 | 0 | 0 |
| 54 | 11/13/2019 11:16 | 0 | 0 |
| 55 | 11/13/2019 11:17 | 0 | 0 |
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| 96 | 11/13/2019 11:58 | 0 | 0 |

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| 109 | 11/13/2019 12:11 | 0 | 0 |
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| 111 | 11/13/2019 12:13 | 0 | 0 |
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| 114 | 11/13/2019 12:16 | 0 | 0 |
| 115 | 11/13/2019 12:17 | 0 | 0 |
| 116 | 11/13/2019 12:18 | 0 | 0 |
| 117 | 11/13/2019 12:19 | 0 | 0 |
| 118 | 11/13/2019 12:20 | 0 | 0 |
| 119 | 11/13/2019 12:21 | 0 | 0 |
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| 160 | 11/13/2019 13:02 | 0 | 0 |
| 161 | 11/13/2019 13:03 | 0 | 0 |
| 162 | 11/13/2019 13:04 | 0 | 0 |

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| 212 | 11/13/2019 13:54 | 0 | 0 |

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19/12/19 10:12

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Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

-----

Running M Hygiene Mode

Datalog Mc Auto

Diagnostic No

Stop Reaso Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/19/2019 10:12

End 12/19/2019 15:48

Sample Per 60

Number of 335

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurem Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

Datalog

| Index | Date/Time        | PID(ppm)<br>(Avg) |
|-------|------------------|-------------------|
| 1     | 12/19/2019 10:13 | 0                 |
| 2     | 12/19/2019 10:14 | 0                 |
| 3     | 12/19/2019 10:15 | 0                 |
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| 5     | 12/19/2019 10:17 | 0                 |

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| 51 | 12/19/2019 11:03 | 0 |
| 52 | 12/19/2019 11:04 | 0 |

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| 95 | 12/19/2019 11:47 | 0 |
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| 99 | 12/19/2019 11:51 | 0 |

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| 110 | 12/19/2019 12:02 | 0   |
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| 332 | 12/19/2019 15:44 | 0.1 |
| 333 | 12/19/2019 15:45 | 0.1 |
| 334 | 12/19/2019 15:46 | 0.1 |



|         |                  |     |
|---------|------------------|-----|
| 335     | 12/19/2019 15:47 | 0.1 |
| Peak    |                  | 0.1 |
| Min     |                  | 0   |
| Average |                  | 0.1 |

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19/12/20 09:46

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## Summary

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Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912310

Unit Firmw V2.20A

-----

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Power Down

-----

Site ID RAE00000

User ID USER0000

-----

Begin 12/20/2019 9:46

End 12/20/2019 15:38

Sample Per 60

Number of 352

-----

Sensor PID(ppm)

Sensor SN S023030031VC

Measure T<sub>1</sub> Avg

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 11/27/2019 14:14

Peak N/A

Min N/A

Average N/A

\*\*\*\*\*

## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) |
|-------|-----------------|-------------------|
| 1     | 12/20/2019 9:47 | 0                 |
| 2     | 12/20/2019 9:48 | 0                 |
| 3     | 12/20/2019 9:49 | 0                 |
| 4     | 12/20/2019 9:50 | 0                 |
| 5     | 12/20/2019 9:51 | 0                 |

|    |                  |   |
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| 7  | 12/20/2019 9:53  | 0 |
| 8  | 12/20/2019 9:54  | 0 |
| 9  | 12/20/2019 9:55  | 0 |
| 10 | 12/20/2019 9:56  | 0 |
| 11 | 12/20/2019 9:57  | 0 |
| 12 | 12/20/2019 9:58  | 0 |
| 13 | 12/20/2019 9:59  | 0 |
| 14 | 12/20/2019 10:00 | 0 |
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| 16 | 12/20/2019 10:02 | 0 |
| 17 | 12/20/2019 10:03 | 0 |
| 18 | 12/20/2019 10:04 | 0 |
| 19 | 12/20/2019 10:05 | 0 |
| 20 | 12/20/2019 10:06 | 0 |
| 21 | 12/20/2019 10:07 | 0 |
| 22 | 12/20/2019 10:08 | 0 |
| 23 | 12/20/2019 10:09 | 0 |
| 24 | 12/20/2019 10:10 | 0 |
| 25 | 12/20/2019 10:11 | 0 |
| 26 | 12/20/2019 10:12 | 0 |
| 27 | 12/20/2019 10:13 | 0 |
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| 30 | 12/20/2019 10:16 | 0 |
| 31 | 12/20/2019 10:17 | 0 |
| 32 | 12/20/2019 10:18 | 0 |
| 33 | 12/20/2019 10:19 | 0 |
| 34 | 12/20/2019 10:20 | 0 |
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| 36 | 12/20/2019 10:22 | 0 |
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| 51 | 12/20/2019 10:37 | 0 |
| 52 | 12/20/2019 10:38 | 0 |

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| 57 | 12/20/2019 10:43 | 0 |
| 58 | 12/20/2019 10:44 | 0 |
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| 62 | 12/20/2019 10:48 | 0 |
| 63 | 12/20/2019 10:49 | 0 |
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| 65 | 12/20/2019 10:51 | 0 |
| 66 | 12/20/2019 10:52 | 0 |
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| 77 | 12/20/2019 11:03 | 0 |
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| 86 | 12/20/2019 11:12 | 0 |
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| 88 | 12/20/2019 11:14 | 0 |
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| 91 | 12/20/2019 11:17 | 0 |
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| 98 | 12/20/2019 11:24 | 0 |
| 99 | 12/20/2019 11:25 | 0 |

|     |                  |     |
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| 193 | 12/20/2019 12:59 | 0.1 |

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| 221 | 12/20/2019 13:27 | 0.3 |
| 222 | 12/20/2019 13:28 | 0.3 |
| 223 | 12/20/2019 13:29 | 0.3 |
| 224 | 12/20/2019 13:30 | 0.3 |
| 225 | 12/20/2019 13:31 | 0.3 |
| 226 | 12/20/2019 13:32 | 0.3 |
| 227 | 12/20/2019 13:33 | 0.3 |
| 228 | 12/20/2019 13:34 | 0.2 |
| 229 | 12/20/2019 13:35 | 0.2 |
| 230 | 12/20/2019 13:36 | 0.2 |
| 231 | 12/20/2019 13:37 | 0.3 |
| 232 | 12/20/2019 13:38 | 0.2 |
| 233 | 12/20/2019 13:39 | 0.2 |
| 234 | 12/20/2019 13:40 | 0.2 |
| 235 | 12/20/2019 13:41 | 0.2 |
| 236 | 12/20/2019 13:42 | 0.2 |
| 237 | 12/20/2019 13:43 | 0.2 |
| 238 | 12/20/2019 13:44 | 0.2 |
| 239 | 12/20/2019 13:45 | 0.2 |
| 240 | 12/20/2019 13:46 | 0.2 |

|     |                  |     |
|-----|------------------|-----|
| 241 | 12/20/2019 13:47 | 0.2 |
| 242 | 12/20/2019 13:48 | 0.2 |
| 243 | 12/20/2019 13:49 | 0.2 |
| 244 | 12/20/2019 13:50 | 0.2 |
| 245 | 12/20/2019 13:51 | 0.2 |
| 246 | 12/20/2019 13:52 | 0.2 |
| 247 | 12/20/2019 13:53 | 0.2 |
| 248 | 12/20/2019 13:54 | 0.2 |
| 249 | 12/20/2019 13:55 | 0.2 |
| 250 | 12/20/2019 13:56 | 0.2 |
| 251 | 12/20/2019 13:57 | 0.2 |
| 252 | 12/20/2019 13:58 | 0.2 |
| 253 | 12/20/2019 13:59 | 0.2 |
| 254 | 12/20/2019 14:00 | 0.2 |
| 255 | 12/20/2019 14:01 | 0.2 |
| 256 | 12/20/2019 14:02 | 0.2 |
| 257 | 12/20/2019 14:03 | 0.1 |
| 258 | 12/20/2019 14:04 | 0.2 |
| 259 | 12/20/2019 14:05 | 0.1 |
| 260 | 12/20/2019 14:06 | 0.1 |
| 261 | 12/20/2019 14:07 | 0.1 |
| 262 | 12/20/2019 14:08 | 0.1 |
| 263 | 12/20/2019 14:09 | 0.1 |
| 264 | 12/20/2019 14:10 | 0.1 |
| 265 | 12/20/2019 14:11 | 0.1 |
| 266 | 12/20/2019 14:12 | 0.1 |
| 267 | 12/20/2019 14:13 | 0.1 |
| 268 | 12/20/2019 14:14 | 0.1 |
| 269 | 12/20/2019 14:15 | 0.1 |
| 270 | 12/20/2019 14:16 | 0.1 |
| 271 | 12/20/2019 14:17 | 0.1 |
| 272 | 12/20/2019 14:18 | 0.1 |
| 273 | 12/20/2019 14:19 | 0.1 |
| 274 | 12/20/2019 14:20 | 0.1 |
| 275 | 12/20/2019 14:21 | 0.1 |
| 276 | 12/20/2019 14:22 | 0.1 |
| 277 | 12/20/2019 14:23 | 0.1 |
| 278 | 12/20/2019 14:24 | 0.1 |
| 279 | 12/20/2019 14:25 | 0.1 |
| 280 | 12/20/2019 14:26 | 0.1 |
| 281 | 12/20/2019 14:27 | 0.1 |
| 282 | 12/20/2019 14:28 | 0.1 |
| 283 | 12/20/2019 14:29 | 0.1 |
| 284 | 12/20/2019 14:30 | 0.1 |
| 285 | 12/20/2019 14:31 | 0.1 |
| 286 | 12/20/2019 14:32 | 0.1 |
| 287 | 12/20/2019 14:33 | 0.1 |



|     |                  |     |
|-----|------------------|-----|
| 288 | 12/20/2019 14:34 | 0.1 |
| 289 | 12/20/2019 14:35 | 0.1 |
| 290 | 12/20/2019 14:36 | 0.1 |
| 291 | 12/20/2019 14:37 | 0.1 |
| 292 | 12/20/2019 14:38 | 0.1 |
| 293 | 12/20/2019 14:39 | 0.1 |
| 294 | 12/20/2019 14:40 | 0.1 |
| 295 | 12/20/2019 14:41 | 0.1 |
| 296 | 12/20/2019 14:42 | 0.1 |
| 297 | 12/20/2019 14:43 | 0.1 |
| 298 | 12/20/2019 14:44 | 0.1 |
| 299 | 12/20/2019 14:45 | 0.1 |
| 300 | 12/20/2019 14:46 | 0.1 |
| 301 | 12/20/2019 14:47 | 0.1 |
| 302 | 12/20/2019 14:48 | 0.1 |
| 303 | 12/20/2019 14:49 | 0.1 |
| 304 | 12/20/2019 14:50 | 0.1 |
| 305 | 12/20/2019 14:51 | 0.1 |
| 306 | 12/20/2019 14:52 | 0.1 |
| 307 | 12/20/2019 14:53 | 0.1 |
| 308 | 12/20/2019 14:54 | 0.1 |
| 309 | 12/20/2019 14:55 | 0.1 |
| 310 | 12/20/2019 14:56 | 0.1 |
| 311 | 12/20/2019 14:57 | 0.1 |
| 312 | 12/20/2019 14:58 | 0.1 |
| 313 | 12/20/2019 14:59 | 0.1 |
| 314 | 12/20/2019 15:00 | 0.1 |
| 315 | 12/20/2019 15:01 | 0.1 |
| 316 | 12/20/2019 15:02 | 0.1 |
| 317 | 12/20/2019 15:03 | 0.1 |
| 318 | 12/20/2019 15:04 | 0.1 |
| 319 | 12/20/2019 15:05 | 0.1 |
| 320 | 12/20/2019 15:06 | 0.1 |
| 321 | 12/20/2019 15:07 | 0.1 |
| 322 | 12/20/2019 15:08 | 0.1 |
| 323 | 12/20/2019 15:09 | 0.1 |
| 324 | 12/20/2019 15:10 | 0.1 |
| 325 | 12/20/2019 15:11 | 0.1 |
| 326 | 12/20/2019 15:12 | 0.1 |
| 327 | 12/20/2019 15:13 | 0.1 |
| 328 | 12/20/2019 15:14 | 0.1 |
| 329 | 12/20/2019 15:15 | 0.1 |
| 330 | 12/20/2019 15:16 | 0.1 |
| 331 | 12/20/2019 15:17 | 0.1 |
| 332 | 12/20/2019 15:18 | 0.1 |
| 333 | 12/20/2019 15:19 | 0.1 |
| 334 | 12/20/2019 15:20 | 0.1 |

|         |                  |     |
|---------|------------------|-----|
| 335     | 12/20/2019 15:21 | 0.1 |
| 336     | 12/20/2019 15:22 | 0.1 |
| 337     | 12/20/2019 15:23 | 0.1 |
| 338     | 12/20/2019 15:24 | 0.1 |
| 339     | 12/20/2019 15:25 | 0.1 |
| 340     | 12/20/2019 15:26 | 0.1 |
| 341     | 12/20/2019 15:27 | 0.1 |
| 342     | 12/20/2019 15:28 | 0.1 |
| 343     | 12/20/2019 15:29 | 0.2 |
| 344     | 12/20/2019 15:30 | 0.2 |
| 345     | 12/20/2019 15:31 | 0.2 |
| 346     | 12/20/2019 15:32 | 0.2 |
| 347     | 12/20/2019 15:33 | 0.2 |
| 348     | 12/20/2019 15:34 | 0.1 |
| 349     | 12/20/2019 15:35 | 0.1 |
| 350     | 12/20/2019 15:36 | 0.1 |
| 351     | 12/20/2019 15:37 | 0.2 |
| 352     | 12/20/2019 15:38 | 0.1 |
| Peak    |                  | 2.1 |
| Min     |                  | 0   |
| Average |                  | 0.1 |

19/12/30 10:10

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## Summary

Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-925155  
Unit Firmware Ver V2.20A

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic Mode No  
Stop Reason Battery Low

Site ID 12345682  
User ID 12345678

Begin 12/30/2019 10:10  
End 12/30/2019 12:00  
Sample Period(s) 900  
Number of Records 7

Sensor PID(ppm)  
Sensor SN S023030202V3  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Gas Isobutylene  
Calibration Time 12/27/2019 13:57  
Peak 1  
Min 0.4  
Average 0.6

\*\*\*\*\*

## Datalog

| Index | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|------------------|-------------------|-------------------|--------------------|
| 1     | 12/30/2019 10:25 | 0.3               | 0.4               | 0.4                |
| 2     | 12/30/2019 10:40 | 0.4               | 0.4               | 0.4                |
| 3     | 12/30/2019 10:55 | 0.4               | 0.5               | 0.5                |
| 4     | 12/30/2019 11:10 | 0.5               | 0.5               | 0.5                |
| 5     | 12/30/2019 11:25 | 0.6               | 0.6               | 0.6                |

|         |   |                  |     |     |     |
|---------|---|------------------|-----|-----|-----|
|         | 6 | 12/30/2019 11:40 | 0.7 | 0.8 | 0.8 |
|         | 7 | 12/30/2019 11:55 | 0.9 | 1   | 1   |
| Peak    |   |                  | 0.9 | 1   | 1   |
| Min     |   |                  | 0.3 | 0.4 | 0.4 |
| Average |   |                  | 0.5 | 0.6 | 0.6 |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 10:25 | 0                 | 0.4                |
| 2     | 12/30/2019 10:40 | 0                 | 0.8                |
| 3     | 12/30/2019 10:55 | 0                 | 0.9                |
| 4     | 12/30/2019 11:10 | 0.1               | 1                  |
| 5     | 12/30/2019 11:25 | 0.1               | 1.1                |
| 6     | 12/30/2019 11:40 | 0.1               | 1.4                |
| 7     | 12/30/2019 11:55 | 0.1               | 1.8                |

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19/12/30 12:04

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#### Summary

```

-----
Unit Name      MiniRAE 3000(PGM-7320)
Unit SN       592-925155
Unit Firmware Ver V2.20A
-----
Running Mode   Hygiene Mode
Datalog Mode   Auto
Diagnostic Mode No
Stop Reason    Power Down
-----
Site ID        12345682
User ID        12345678
-----
Begin          12/30/2019 12:04
End            12/30/2019 13:02
Sample Period(s) 900
Number of Records 3
-----
Sensor         PID(ppm)
Sensor SN      S023030202V3
Measure Type   Avg; Max; Real
Span           100
Span 2         1000
Low Alarm      50
High Alarm     100
Over Alarm     15000

```

|                  |                  |
|------------------|------------------|
| STEL Alarm       | 25               |
| TWA Alarm        | 10               |
| Measurement Gas  | Isobutylene      |
| Calibration Time | 12/27/2019 13:57 |
| Peak             | 1.3              |
| Min              | 1                |
| Average          | 1.1              |

\*\*\*\*\*

#### Datalog

| Index   | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|---------|------------------|-------------------|-------------------|--------------------|
| 1       | 12/30/2019 12:19 | 0.9               | 1                 | 1                  |
| 2       | 12/30/2019 12:34 | 1.1               | 1.1               | 1.1                |
| 3       | 12/30/2019 12:49 | 1.2               | 1.4               | 1.3                |
| Peak    |                  | 1.2               | 1.4               | 1.3                |
| Min     |                  | 0.9               | 1                 | 1                  |
| Average |                  | 1.1               | 1.2               | 1.1                |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 12:19 | 0                 | 1                  |
| 2     | 12/30/2019 12:34 | 0.1               | 2.1                |
| 3     | 12/30/2019 12:49 | 0.1               | 2.4                |

=====

19/12/30 13:05

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#### Summary

|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-925155             |
| Unit Firmware Ver | V2.20A                 |

|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Power Down   |

|         |          |
|---------|----------|
| Site ID | 12345682 |
| User ID | 12345678 |

|                   |                  |
|-------------------|------------------|
| Begin             | 12/30/2019 13:05 |
| End               | 12/30/2019 13:26 |
| Sample Period(s)  | 900              |
| Number of Records | 1                |

```

-----
Sensor          PID(ppm)
Sensor SN       S023030202V3
Measure Type    Avg; Max; Real
Span            100
Span 2          1000
Low Alarm       50
High Alarm      100
Over Alarm      15000
STEL Alarm      25
TWA Alarm       10
Measurement Gas Isobutylene
Calibration Time 12/27/2019 13:57
Peak            0.9
Min             0.9
Average         0.9

```

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#### Datalog

| Index   | Date/Time        | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|---------|------------------|-------------------|-------------------|--------------------|
| 1       | 12/30/2019 13:20 | 0.9               | 1.1               | 0.9                |
| Peak    |                  | 0.9               | 1.1               | 0.9                |
| Min     |                  | 0.9               | 1.1               | 0.9                |
| Average |                  | 0.9               | 1.1               | 0.9                |

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#### TWA/STEL

| Index | Date/Time        | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|------------------|-------------------|--------------------|
| 1     | 12/30/2019 13:20 | 0                 | 0.9                |

=====  
20/01/08 09:34  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic No  
Stop Reason Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/8/2020 9:34  
End 1/8/2020 14:13  
Sample Per 900  
Number of 18  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0.2  
Min 0  
Average 0.1

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/8/2020 9:49  | 0                 | 0                 | 0                  |
| 2     | 1/8/2020 10:04 | 0                 | 0                 | 0                  |
| 3     | 1/8/2020 10:19 | 0                 | 0                 | 0                  |
| 4     | 1/8/2020 10:34 | 0                 | 0.1               | 0                  |
| 5     | 1/8/2020 10:49 | 0.1               | 0.1               | 0.1                |

|         |                |     |     |     |
|---------|----------------|-----|-----|-----|
| 6       | 1/8/2020 11:04 | 0.1 | 0.1 | 0.1 |
| 7       | 1/8/2020 11:19 | 0.1 | 0.1 | 0.1 |
| 8       | 1/8/2020 11:34 | 0.1 | 0.1 | 0.1 |
| 9       | 1/8/2020 11:49 | 0.1 | 0.1 | 0.1 |
| 10      | 1/8/2020 12:04 | 0.1 | 0.1 | 0.1 |
| 11      | 1/8/2020 12:19 | 0.1 | 0.2 | 0.2 |
| 12      | 1/8/2020 12:34 | 0.2 | 0.2 | 0.2 |
| 13      | 1/8/2020 12:49 | 0.2 | 0.2 | 0.2 |
| 14      | 1/8/2020 13:04 | 0.2 | 0.2 | 0.1 |
| 15      | 1/8/2020 13:19 | 0.1 | 0.2 | 0.1 |
| 16      | 1/8/2020 13:34 | 0.1 | 0.1 | 0.1 |
| 17      | 1/8/2020 13:49 | 0.1 | 0.1 | 0.1 |
| 18      | 1/8/2020 14:04 | 0.1 | 0.1 | 0.1 |
| Peak    |                | 0.2 | 0.2 | 0.2 |
| Min     |                | 0   | 0   | 0   |
| Average |                | 0.1 | 0.1 | 0.1 |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/8/2020 9:49  | 0                 | 0                  |
| 2     | 1/8/2020 10:04 | 0                 | 0                  |
| 3     | 1/8/2020 10:19 | 0                 | 0                  |
| 4     | 1/8/2020 10:34 | 0                 | 0                  |
| 5     | 1/8/2020 10:49 | 0                 | 0.1                |
| 6     | 1/8/2020 11:04 | 0                 | 0.2                |
| 7     | 1/8/2020 11:19 | 0                 | 0.2                |
| 8     | 1/8/2020 11:34 | 0                 | 0.2                |
| 9     | 1/8/2020 11:49 | 0                 | 0.2                |
| 10    | 1/8/2020 12:04 | 0                 | 0.2                |
| 11    | 1/8/2020 12:19 | 0                 | 0.3                |
| 12    | 1/8/2020 12:34 | 0                 | 0.4                |
| 13    | 1/8/2020 12:49 | 0                 | 0.4                |
| 14    | 1/8/2020 13:04 | 0                 | 0.3                |
| 15    | 1/8/2020 13:19 | 0                 | 0.2                |
| 16    | 1/8/2020 13:34 | 0                 | 0.2                |
| 17    | 1/8/2020 13:49 | 0.1               | 0.2                |
| 18    | 1/8/2020 14:04 | 0.1               | 0.2                |



=====  
20/01/09 08:55  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic No  
Stop Reason Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/9/2020 8:55  
End 1/9/2020 10:17  
Sample Per 900  
Number of 5  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0  
Min 0  
Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/9/2020 9:10  | 0                 | 0.4               | 0                  |
| 2     | 1/9/2020 9:25  | 0                 | 0                 | 0                  |
| 3     | 1/9/2020 9:40  | 0                 | 0                 | 0                  |
| 4     | 1/9/2020 9:55  | 0                 | 0                 | 0                  |
| 5     | 1/9/2020 10:10 | 0                 | 0.1               | 0                  |

|         |   |     |   |
|---------|---|-----|---|
| Peak    | 0 | 0.4 | 0 |
| Min     | 0 | 0   | 0 |
| Average | 0 | 0.1 | 0 |

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# TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/9/2020 9:10  | 0                 | 0                  |
| 2     | 1/9/2020 9:25  | 0                 | 0                  |
| 3     | 1/9/2020 9:40  | 0                 | 0                  |
| 4     | 1/9/2020 9:55  | 0                 | 0                  |
| 5     | 1/9/2020 10:10 | 0                 | 0                  |

=====  
20/01/09 11:21  
\*\*\*\*\*

Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic No  
Stop Reason Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/9/2020 11:21  
End 1/9/2020 15:14  
Sample Per 900  
Number of 15  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0.1  
Min 0  
Average 0

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 1/9/2020 11:36 | 0                 | 0                 | 0                  |
| 2     | 1/9/2020 11:51 | 0                 | 0.1               | 0                  |
| 3     | 1/9/2020 12:06 | 0                 | 0                 | 0                  |
| 4     | 1/9/2020 12:21 | 0                 | 0.1               | 0                  |
| 5     | 1/9/2020 12:36 | 0                 | 0.1               | 0                  |

|         |                |   |     |     |
|---------|----------------|---|-----|-----|
| 6       | 1/9/2020 12:51 | 0 | 0   | 0   |
| 7       | 1/9/2020 13:06 | 0 | 0.1 | 0   |
| 8       | 1/9/2020 13:21 | 0 | 0.1 | 0   |
| 9       | 1/9/2020 13:36 | 0 | 0.1 | 0   |
| 10      | 1/9/2020 13:51 | 0 | 0.1 | 0.1 |
| 11      | 1/9/2020 14:06 | 0 | 0.1 | 0   |
| 12      | 1/9/2020 14:21 | 0 | 0.1 | 0   |
| 13      | 1/9/2020 14:36 | 0 | 0.1 | 0.1 |
| 14      | 1/9/2020 14:51 | 0 | 0.1 | 0   |
| 15      | 1/9/2020 15:06 | 0 | 0.1 | 0   |
| Peak    |                | 0 | 0.1 | 0.1 |
| Min     |                | 0 | 0   | 0   |
| Average |                | 0 | 0.1 | 0   |

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#### TWA/STEL

| Index | Date/Time      | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|----------------|-------------------|--------------------|
| 1     | 1/9/2020 11:36 | 0                 | 0                  |
| 2     | 1/9/2020 11:51 | 0                 | 0                  |
| 3     | 1/9/2020 12:06 | 0                 | 0                  |
| 4     | 1/9/2020 12:21 | 0                 | 0                  |
| 5     | 1/9/2020 12:36 | 0                 | 0                  |
| 6     | 1/9/2020 12:51 | 0                 | 0                  |
| 7     | 1/9/2020 13:06 | 0                 | 0                  |
| 8     | 1/9/2020 13:21 | 0                 | 0                  |
| 9     | 1/9/2020 13:36 | 0                 | 0                  |
| 10    | 1/9/2020 13:51 | 0                 | 0.1                |
| 11    | 1/9/2020 14:06 | 0                 | 0.1                |
| 12    | 1/9/2020 14:21 | 0                 | 0                  |
| 13    | 1/9/2020 14:36 | 0                 | 0.1                |
| 14    | 1/9/2020 14:51 | 0                 | 0.1                |
| 15    | 1/9/2020 15:06 | 0                 | 0                  |

20/01/10 08:48

\*\*\*\*\*

## Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN 592-912827

Unit Firmw V2.20A

Running Mode Hygiene Mode

Datalog Mode Auto

Diagnostic No

Stop Reason Power Down

Site ID 12345678

User ID 12345678

Begin 1/10/2020 8:48

End 1/10/2020 15:23

Sample Per 900

Number of 26

Sensor PID(ppm)

Sensor SN S023030007U9

Measure Type Avg; Max; Real

Span 100

Span 2 1000

Low Alarm 50

High Alarm 100

Over Alarm 15000

STEL Alarm 25

TWA Alarm 10

Measurement Isobutylene

Calibration 1/3/2020 13:23

Peak 0.1

Min 0

Average 0

\*\*\*\*\*

## Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 1/10/2020 9:03  | 0                 | 0.1               | 0                  |
| 2     | 1/10/2020 9:18  | 0                 | 0                 | 0                  |
| 3     | 1/10/2020 9:33  | 0                 | 0                 | 0                  |
| 4     | 1/10/2020 9:48  | 0                 | 0.1               | 0                  |
| 5     | 1/10/2020 10:03 | 0                 | 0                 | 0                  |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 6       | 1/10/2020 10:18 | 0   | 0.1 | 0   |
| 7       | 1/10/2020 10:33 | 0   | 0   | 0   |
| 8       | 1/10/2020 10:48 | 0   | 0   | 0   |
| 9       | 1/10/2020 11:03 | 0   | 0   | 0   |
| 10      | 1/10/2020 11:18 | 0   | 0.1 | 0   |
| 11      | 1/10/2020 11:33 | 0   | 0.1 | 0   |
| 12      | 1/10/2020 11:48 | 0   | 0.4 | 0   |
| 13      | 1/10/2020 12:03 | 0   | 0.1 | 0   |
| 14      | 1/10/2020 12:18 | 0   | 0.1 | 0.1 |
| 15      | 1/10/2020 12:33 | 0   | 0.1 | 0   |
| 16      | 1/10/2020 12:48 | 0.1 | 0.7 | 0   |
| 17      | 1/10/2020 13:03 | 0   | 0.1 | 0   |
| 18      | 1/10/2020 13:18 | 0   | 0.1 | 0   |
| 19      | 1/10/2020 13:33 | 0.1 | 0.4 | 0   |
| 20      | 1/10/2020 13:48 | 0.1 | 0.1 | 0.1 |
| 21      | 1/10/2020 14:03 | 0.1 | 0.1 | 0.1 |
| 22      | 1/10/2020 14:18 | 0.1 | 0.1 | 0   |
| 23      | 1/10/2020 14:33 | 0.1 | 0.3 | 0.1 |
| 24      | 1/10/2020 14:48 | 0.1 | 0.1 | 0.1 |
| 25      | 1/10/2020 15:03 | 0.1 | 0.1 | 0.1 |
| 26      | 1/10/2020 15:18 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.7 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0   | 0.1 | 0   |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/10/2020 9:03  | 0                 | 0                  |
| 2     | 1/10/2020 9:18  | 0                 | 0                  |
| 3     | 1/10/2020 9:33  | 0                 | 0                  |
| 4     | 1/10/2020 9:48  | 0                 | 0                  |
| 5     | 1/10/2020 10:03 | 0                 | 0                  |
| 6     | 1/10/2020 10:18 | 0                 | 0                  |
| 7     | 1/10/2020 10:33 | 0                 | 0                  |
| 8     | 1/10/2020 10:48 | 0                 | 0                  |
| 9     | 1/10/2020 11:03 | 0                 | 0                  |
| 10    | 1/10/2020 11:18 | 0                 | 0                  |
| 11    | 1/10/2020 11:33 | 0                 | 0                  |
| 12    | 1/10/2020 11:48 | 0                 | 0                  |
| 13    | 1/10/2020 12:03 | 0                 | 0                  |
| 14    | 1/10/2020 12:18 | 0                 | 0.1                |
| 15    | 1/10/2020 12:33 | 0                 | 0.1                |
| 16    | 1/10/2020 12:48 | 0                 | 0                  |
| 17    | 1/10/2020 13:03 | 0                 | 0                  |
| 18    | 1/10/2020 13:18 | 0                 | 0                  |

|    |                 |   |     |
|----|-----------------|---|-----|
| 19 | 1/10/2020 13:33 | 0 | 0   |
| 20 | 1/10/2020 13:48 | 0 | 0.1 |
| 21 | 1/10/2020 14:03 | 0 | 0.2 |
| 22 | 1/10/2020 14:18 | 0 | 0.1 |
| 23 | 1/10/2020 14:33 | 0 | 0.1 |
| 24 | 1/10/2020 14:48 | 0 | 0.2 |
| 25 | 1/10/2020 15:03 | 0 | 0.2 |
| 26 | 1/10/2020 15:18 | 0 | 0.2 |

=====  
20/01/13 08:49  
\*\*\*\*\*

Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running M Hygiene Mode  
Datalog Mc Auto  
Diagnostic No  
Stop Reaso Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/13/2020 8:49  
End 1/13/2020 16:15  
Sample Per 900  
Number of 29  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure T<sub>1</sub> Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurem Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0.1  
Min 0  
Average 0.1

\*\*\*\*\*

Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 1/13/2020 9:04  | 0                 | 0                 | 0                  |
| 2     | 1/13/2020 9:19  | 0                 | 0                 | 0                  |
| 3     | 1/13/2020 9:34  | 0                 | 0                 | 0                  |
| 4     | 1/13/2020 9:49  | 0                 | 0                 | 0                  |
| 5     | 1/13/2020 10:04 | 0                 | 0                 | 0                  |



|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 6       | 1/13/2020 10:19 | 0   | 0   | 0   |
| 7       | 1/13/2020 10:34 | 0   | 0.1 | 0   |
| 8       | 1/13/2020 10:49 | 0   | 0   | 0   |
| 9       | 1/13/2020 11:04 | 0   | 0   | 0   |
| 10      | 1/13/2020 11:19 | 0   | 0.1 | 0   |
| 11      | 1/13/2020 11:34 | 0   | 0.1 | 0.1 |
| 12      | 1/13/2020 11:49 | 0.1 | 0.1 | 0.1 |
| 13      | 1/13/2020 12:04 | 0.1 | 0.1 | 0.1 |
| 14      | 1/13/2020 12:19 | 0.1 | 0.1 | 0.1 |
| 15      | 1/13/2020 12:34 | 0.1 | 0.1 | 0.1 |
| 16      | 1/13/2020 12:49 | 0.1 | 0.1 | 0.1 |
| 17      | 1/13/2020 13:04 | 0.1 | 0.1 | 0.1 |
| 18      | 1/13/2020 13:19 | 0.1 | 0.1 | 0.1 |
| 19      | 1/13/2020 13:34 | 0.1 | 0.1 | 0.1 |
| 20      | 1/13/2020 13:49 | 0.1 | 0.1 | 0.1 |
| 21      | 1/13/2020 14:04 | 0.1 | 0.1 | 0.1 |
| 22      | 1/13/2020 14:19 | 0.1 | 0.1 | 0.1 |
| 23      | 1/13/2020 14:34 | 0.1 | 0.1 | 0.1 |
| 24      | 1/13/2020 14:49 | 0.1 | 0.1 | 0.1 |
| 25      | 1/13/2020 15:04 | 0.1 | 0.1 | 0.1 |
| 26      | 1/13/2020 15:19 | 0.1 | 0.1 | 0.1 |
| 27      | 1/13/2020 15:34 | 0.1 | 0.1 | 0.1 |
| 28      | 1/13/2020 15:49 | 0.1 | 0.1 | 0.1 |
| 29      | 1/13/2020 16:04 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.1 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0.1 | 0.1 | 0.1 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/13/2020 9:04  | 0                 | 0                  |
| 2     | 1/13/2020 9:19  | 0                 | 0                  |
| 3     | 1/13/2020 9:34  | 0                 | 0                  |
| 4     | 1/13/2020 9:49  | 0                 | 0                  |
| 5     | 1/13/2020 10:04 | 0                 | 0                  |
| 6     | 1/13/2020 10:19 | 0                 | 0                  |
| 7     | 1/13/2020 10:34 | 0                 | 0                  |
| 8     | 1/13/2020 10:49 | 0                 | 0                  |
| 9     | 1/13/2020 11:04 | 0                 | 0                  |
| 10    | 1/13/2020 11:19 | 0                 | 0                  |
| 11    | 1/13/2020 11:34 | 0                 | 0.1                |
| 12    | 1/13/2020 11:49 | 0                 | 0.2                |
| 13    | 1/13/2020 12:04 | 0                 | 0.2                |
| 14    | 1/13/2020 12:19 | 0                 | 0.2                |
| 15    | 1/13/2020 12:34 | 0                 | 0.2                |

|    |                 |     |     |
|----|-----------------|-----|-----|
| 16 | 1/13/2020 12:49 | 0   | 0.2 |
| 17 | 1/13/2020 13:04 | 0   | 0.2 |
| 18 | 1/13/2020 13:19 | 0   | 0.2 |
| 19 | 1/13/2020 13:34 | 0   | 0.2 |
| 20 | 1/13/2020 13:49 | 0   | 0.2 |
| 21 | 1/13/2020 14:04 | 0   | 0.2 |
| 22 | 1/13/2020 14:19 | 0   | 0.2 |
| 23 | 1/13/2020 14:34 | 0   | 0.2 |
| 24 | 1/13/2020 14:49 | 0   | 0.2 |
| 25 | 1/13/2020 15:04 | 0   | 0.2 |
| 26 | 1/13/2020 15:19 | 0.1 | 0.2 |
| 27 | 1/13/2020 15:34 | 0.1 | 0.2 |
| 28 | 1/13/2020 15:49 | 0.1 | 0.2 |
| 29 | 1/13/2020 16:04 | 0.1 | 0.2 |

=====  
20/01/14 08:51  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic No  
Stop Reason Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/14/2020 8:51  
End 1/14/2020 16:15  
Sample Per 900  
Number of 29  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0.1  
Min 0  
Average 0.1

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Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 1/14/2020 9:06  | 0                 | 0                 | 0                  |
| 2     | 1/14/2020 9:21  | 0                 | 0                 | 0                  |
| 3     | 1/14/2020 9:36  | 0                 | 0                 | 0                  |
| 4     | 1/14/2020 9:51  | 0                 | 0                 | 0                  |
| 5     | 1/14/2020 10:06 | 0                 | 0                 | 0                  |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 6       | 1/14/2020 10:21 | 0   | 0   | 0   |
| 7       | 1/14/2020 10:36 | 0   | 0   | 0   |
| 8       | 1/14/2020 10:51 | 0   | 0   | 0   |
| 9       | 1/14/2020 11:06 | 0   | 0   | 0   |
| 10      | 1/14/2020 11:21 | 0   | 0   | 0   |
| 11      | 1/14/2020 11:36 | 0   | 0   | 0   |
| 12      | 1/14/2020 11:51 | 0   | 0.1 | 0.1 |
| 13      | 1/14/2020 12:06 | 0.1 | 0.1 | 0.1 |
| 14      | 1/14/2020 12:21 | 0.1 | 0.1 | 0.1 |
| 15      | 1/14/2020 12:36 | 0.1 | 0.1 | 0.1 |
| 16      | 1/14/2020 12:51 | 0.1 | 0.1 | 0.1 |
| 17      | 1/14/2020 13:06 | 0.1 | 0.1 | 0.1 |
| 18      | 1/14/2020 13:21 | 0.1 | 0.1 | 0.1 |
| 19      | 1/14/2020 13:36 | 0.1 | 0.1 | 0.1 |
| 20      | 1/14/2020 13:51 | 0.1 | 0.1 | 0.1 |
| 21      | 1/14/2020 14:06 | 0.1 | 0.1 | 0.1 |
| 22      | 1/14/2020 14:21 | 0.1 | 0.1 | 0.1 |
| 23      | 1/14/2020 14:36 | 0.1 | 0.1 | 0.1 |
| 24      | 1/14/2020 14:51 | 0.1 | 0.1 | 0.1 |
| 25      | 1/14/2020 15:06 | 0.1 | 0.1 | 0.1 |
| 26      | 1/14/2020 15:21 | 0.1 | 0.1 | 0.1 |
| 27      | 1/14/2020 15:36 | 0.1 | 0.1 | 0.1 |
| 28      | 1/14/2020 15:51 | 0.1 | 0.1 | 0.1 |
| 29      | 1/14/2020 16:06 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.1 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0.1 | 0.1 | 0.1 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/14/2020 9:06  | 0                 | 0                  |
| 2     | 1/14/2020 9:21  | 0                 | 0                  |
| 3     | 1/14/2020 9:36  | 0                 | 0                  |
| 4     | 1/14/2020 9:51  | 0                 | 0                  |
| 5     | 1/14/2020 10:06 | 0                 | 0                  |
| 6     | 1/14/2020 10:21 | 0                 | 0                  |
| 7     | 1/14/2020 10:36 | 0                 | 0                  |
| 8     | 1/14/2020 10:51 | 0                 | 0                  |
| 9     | 1/14/2020 11:06 | 0                 | 0                  |
| 10    | 1/14/2020 11:21 | 0                 | 0                  |
| 11    | 1/14/2020 11:36 | 0                 | 0                  |
| 12    | 1/14/2020 11:51 | 0                 | 0.1                |
| 13    | 1/14/2020 12:06 | 0                 | 0.2                |
| 14    | 1/14/2020 12:21 | 0                 | 0.2                |
| 15    | 1/14/2020 12:36 | 0                 | 0.2                |

|    |                 |     |     |
|----|-----------------|-----|-----|
| 16 | 1/14/2020 12:51 | 0   | 0.2 |
| 17 | 1/14/2020 13:06 | 0   | 0.2 |
| 18 | 1/14/2020 13:21 | 0   | 0.2 |
| 19 | 1/14/2020 13:36 | 0   | 0.2 |
| 20 | 1/14/2020 13:51 | 0   | 0.2 |
| 21 | 1/14/2020 14:06 | 0   | 0.2 |
| 22 | 1/14/2020 14:21 | 0   | 0.2 |
| 23 | 1/14/2020 14:36 | 0   | 0.2 |
| 24 | 1/14/2020 14:51 | 0   | 0.2 |
| 25 | 1/14/2020 15:06 | 0   | 0.2 |
| 26 | 1/14/2020 15:21 | 0   | 0.2 |
| 27 | 1/14/2020 15:36 | 0.1 | 0.2 |
| 28 | 1/14/2020 15:51 | 0.1 | 0.2 |
| 29 | 1/14/2020 16:06 | 0.1 | 0.2 |

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20/01/15 08:47  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic No  
Stop Reason Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/15/2020 8:47  
End 1/15/2020 15:16  
Sample Per 900  
Number of 25  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0.1  
Min 0  
Average 0.1

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Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 1/15/2020 9:02  | 0                 | 0                 | 0                  |
| 2     | 1/15/2020 9:17  | 0                 | 0                 | 0                  |
| 3     | 1/15/2020 9:32  | 0.1               | 0.1               | 0.1                |
| 4     | 1/15/2020 9:47  | 0.1               | 0.1               | 0.1                |
| 5     | 1/15/2020 10:02 | 0.1               | 0.1               | 0                  |

|         |                 |     |     |     |
|---------|-----------------|-----|-----|-----|
| 6       | 1/15/2020 10:17 | 0   | 0.1 | 0.1 |
| 7       | 1/15/2020 10:32 | 0.1 | 0.1 | 0.1 |
| 8       | 1/15/2020 10:47 | 0.1 | 0.1 | 0.1 |
| 9       | 1/15/2020 11:02 | 0.1 | 0.1 | 0.1 |
| 10      | 1/15/2020 11:17 | 0.1 | 0.1 | 0.1 |
| 11      | 1/15/2020 11:32 | 0.1 | 0.1 | 0.1 |
| 12      | 1/15/2020 11:47 | 0.1 | 0.1 | 0.1 |
| 13      | 1/15/2020 12:02 | 0.1 | 0.1 | 0.1 |
| 14      | 1/15/2020 12:17 | 0.1 | 0.1 | 0.1 |
| 15      | 1/15/2020 12:32 | 0.1 | 0.1 | 0.1 |
| 16      | 1/15/2020 12:47 | 0.1 | 0.1 | 0.1 |
| 17      | 1/15/2020 13:02 | 0.1 | 0.1 | 0.1 |
| 18      | 1/15/2020 13:17 | 0.1 | 0.1 | 0.1 |
| 19      | 1/15/2020 13:32 | 0.1 | 0.1 | 0.1 |
| 20      | 1/15/2020 13:47 | 0.1 | 0.1 | 0.1 |
| 21      | 1/15/2020 14:02 | 0.1 | 0.1 | 0.1 |
| 22      | 1/15/2020 14:17 | 0.1 | 0.1 | 0.1 |
| 23      | 1/15/2020 14:32 | 0.1 | 0.1 | 0.1 |
| 24      | 1/15/2020 14:47 | 0.1 | 0.1 | 0.1 |
| 25      | 1/15/2020 15:02 | 0.1 | 0.1 | 0.1 |
| Peak    |                 | 0.1 | 0.1 | 0.1 |
| Min     |                 | 0   | 0   | 0   |
| Average |                 | 0.1 | 0.1 | 0.1 |

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#### TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/15/2020 9:02  | 0                 | 0                  |
| 2     | 1/15/2020 9:17  | 0                 | 0                  |
| 3     | 1/15/2020 9:32  | 0                 | 0.1                |
| 4     | 1/15/2020 9:47  | 0                 | 0.2                |
| 5     | 1/15/2020 10:02 | 0                 | 0.1                |
| 6     | 1/15/2020 10:17 | 0                 | 0.1                |
| 7     | 1/15/2020 10:32 | 0                 | 0.2                |
| 8     | 1/15/2020 10:47 | 0                 | 0.2                |
| 9     | 1/15/2020 11:02 | 0                 | 0.2                |
| 10    | 1/15/2020 11:17 | 0                 | 0.2                |
| 11    | 1/15/2020 11:32 | 0                 | 0.2                |
| 12    | 1/15/2020 11:47 | 0                 | 0.2                |
| 13    | 1/15/2020 12:02 | 0                 | 0.2                |
| 14    | 1/15/2020 12:17 | 0                 | 0.2                |
| 15    | 1/15/2020 12:32 | 0                 | 0.2                |
| 16    | 1/15/2020 12:47 | 0                 | 0.2                |
| 17    | 1/15/2020 13:02 | 0                 | 0.2                |
| 18    | 1/15/2020 13:17 | 0                 | 0.2                |
| 19    | 1/15/2020 13:32 | 0.1               | 0.2                |

|    |                 |     |     |
|----|-----------------|-----|-----|
| 20 | 1/15/2020 13:47 | 0.1 | 0.2 |
| 21 | 1/15/2020 14:02 | 0.1 | 0.2 |
| 22 | 1/15/2020 14:17 | 0.1 | 0.2 |
| 23 | 1/15/2020 14:32 | 0.1 | 0.2 |
| 24 | 1/15/2020 14:47 | 0.1 | 0.2 |
| 25 | 1/15/2020 15:02 | 0.1 | 0.2 |



=====  
20/01/16 08:51  
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Summary

-----  
Unit Name MiniRAE 3000(PGM-7320)  
Unit SN 592-912827  
Unit Firmw V2.20A  
-----

Running Mode Hygiene Mode  
Datalog Mode Auto  
Diagnostic No  
Stop Reason Battery Low  
-----

Site ID 12345678  
User ID 12345678  
-----

Begin 1/16/2020 8:51  
End 1/16/2020 10:07  
Sample Per 900  
Number of 5  
-----

Sensor PID(ppm)  
Sensor SN S023030007U9  
Measure Type Avg; Max; Real  
Span 100  
Span 2 1000  
Low Alarm 50  
High Alarm 100  
Over Alarm 15000  
STEL Alarm 25  
TWA Alarm 10  
Measurement Isobutylene  
Calibration 1/3/2020 13:23  
Peak 0  
Min 0  
Average 0

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Datalog

| Index | Date/Time       | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|-----------------|-------------------|-------------------|--------------------|
| 1     | 1/16/2020 9:06  | 0                 | 0                 | 0                  |
| 2     | 1/16/2020 9:21  | 0                 | 0                 | 0                  |
| 3     | 1/16/2020 9:36  | 0                 | 0                 | 0                  |
| 4     | 1/16/2020 9:51  | 0                 | 0                 | 0                  |
| 5     | 1/16/2020 10:06 | 0                 | 0                 | 0                  |

|         |   |   |   |
|---------|---|---|---|
| Peak    | 0 | 0 | 0 |
| Min     | 0 | 0 | 0 |
| Average | 0 | 0 | 0 |

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# TWA/STEL

| Index | Date/Time       | PID(ppm)<br>(TWA) | PID(ppm)<br>(STEL) |
|-------|-----------------|-------------------|--------------------|
| 1     | 1/16/2020 9:06  | 0                 | 0                  |
| 2     | 1/16/2020 9:21  | 0                 | 0                  |
| 3     | 1/16/2020 9:36  | 0                 | 0                  |
| 4     | 1/16/2020 9:51  | 0                 | 0                  |
| 5     | 1/16/2020 10:06 | 0                 | 0                  |

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20/02/04 08:40

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Summary

-----

|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-909130             |
| Unit Firmware Ver | V2.20A                 |

-----

|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Power Down   |

-----

|         |          |
|---------|----------|
| Site ID | 12345691 |
| User ID | 12345678 |

-----

|                   |                |
|-------------------|----------------|
| Begin             | 2/4/2020 8:40  |
| End               | 2/4/2020 16:04 |
| Sample Period(s)  | 60             |
| Number of Records | 443            |

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Datalog

Data has not been downloaded.

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20/02/05 08:35

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Summary

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|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-909130             |
| Unit Firmware Ver | V2.20A                 |

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|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Battery Low  |

-----

|         |          |
|---------|----------|
| Site ID | 12345691 |
| User ID | 12345678 |

-----

|                   |                |
|-------------------|----------------|
| Begin             | 2/5/2020 8:35  |
| End               | 2/5/2020 13:19 |
| Sample Period(s)  | 60             |
| Number of Records | 284            |

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Datalog

Data has not been downloaded.

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20/02/05 14:17

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Summary

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|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-909130             |
| Unit Firmware Ver | V2.20A                 |

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|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Power Down   |

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|         |          |
|---------|----------|
| Site ID | 12345691 |
| User ID | 12345678 |

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|                   |                |
|-------------------|----------------|
| Begin             | 2/5/2020 14:17 |
| End               | 2/5/2020 16:20 |
| Sample Period(s)  | 60             |
| Number of Records | 123            |

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Datalog

Data has not been downloaded.

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20/02/26 07:28

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Summary

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|                   |                        |
|-------------------|------------------------|
| Unit Name         | MiniRAE 3000(PGM-7320) |
| Unit SN           | 592-907676             |
| Unit Firmware Ver | V2.20A                 |

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|                 |              |
|-----------------|--------------|
| Running Mode    | Hygiene Mode |
| Datalog Mode    | Auto         |
| Diagnostic Mode | No           |
| Stop Reason     | Power Down   |

-----

|         |          |
|---------|----------|
| Site ID | 12345678 |
| User ID | 12345678 |

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|                   |                 |
|-------------------|-----------------|
| Begin             | 2/26/2020 7:28  |
| End               | 2/26/2020 15:48 |
| Sample Period(s)  | 900             |
| Number of Records | 33              |

-----

|                  |                  |
|------------------|------------------|
| Sensor           | PID(ppm)         |
| Sensor SN        | S023030130U6     |
| Measure Type     | Avg; Max; Real   |
| Span             | 100              |
| Span 2           | 1000             |
| Low Alarm        | 50               |
| High Alarm       | 100              |
| Over Alarm       | 15000            |
| STEL Alarm       | 25               |
| TWA Alarm        | 10               |
| Measurement Gas  | Isobutylene      |
| Calibration Time | 12/27/2019 14:06 |
| Peak             | 0                |
| Min              | 0                |
| Average          | 0                |

\*\*\*\*\*

Datalog

| Index | Date/Time      | PID(ppm)<br>(Avg) | PID(ppm)<br>(Max) | PID(ppm)<br>(Real) |
|-------|----------------|-------------------|-------------------|--------------------|
| 1     | 2/26/2020 7:43 | 0                 | 0                 | 0                  |
| 2     | 2/26/2020 7:58 | 0                 | 0                 | 0                  |
| 3     | 2/26/2020 8:13 | 0                 | 0                 | 0                  |
| 4     | 2/26/2020 8:28 | 0                 | 0                 | 0                  |
| 5     | 2/26/2020 8:43 | 0                 | 0                 | 0                  |

|    |                 |     |     |   |
|----|-----------------|-----|-----|---|
| 6  | 2/26/2020 8:58  | 0   | 0   | 0 |
| 7  | 2/26/2020 9:13  | 0.3 | 7.4 | 0 |
| 8  | 2/26/2020 9:28  | 0   | 0   | 0 |
| 9  | 2/26/2020 9:43  | 0   | 0   | 0 |
| 10 | 2/26/2020 9:58  | 0   | 0.1 | 0 |
| 11 | 2/26/2020 10:13 | 0   | 0   | 0 |
| 12 | 2/26/2020 10:28 | 0   | 0   | 0 |
| 13 | 2/26/2020 10:43 | 0   | 0   | 0 |
| 14 | 2/26/2020 10:58 | 0   | 0   | 0 |
| 15 | 2/26/2020 11:13 | 0   | 0   | 0 |
| 16 | 2/26/2020 11:28 | 0   | 0   | 0 |
| 17 | 2/26/2020 11:43 | 0   | 0   | 0 |
| 18 | 2/26/2020 11:58 | 0   | 0   | 0 |
| 19 | 2/26/2020 12:13 | 0   | 0   | 0 |
| 20 | 2/26/2020 12:28 | 0   | 0   | 0 |
| 21 | 2/26/2020 12:43 | 0   | 0   | 0 |
| 22 | 2/26/2020 12:58 | 0   | 0   | 0 |
| 23 | 2/26/2020 13:13 | 0   | 0   | 0 |
| 24 | 2/26/2020 13:28 | 0   | 0   | 0 |
| 25 | 2/26/2020 13:43 | 0   | 0   | 0 |
| 26 | 2/26/2020 13:58 | 0   | 0   | 0 |
| 27 | 2/26/2020 14:13 | 0   | 0   | 0 |
| 28 | 2/26/2020 14:28 | 0   | 0.4 | 0 |
| 29 | 2/26/2020 14:43 | 0   | 0   | 0 |
| 30 | 2/26/2020 14:58 | 0   | 0   | 0 |
| 31 | 2/26/2020 15:13 | 0   | 0   | 0 |
| 32 | 2/26/2020 15:28 | 0   | 0   | 0 |
| 33 | 2/26/2020 15:43 | 0   | 0   | 0 |

|         |     |     |   |
|---------|-----|-----|---|
| Peak    | 0.3 | 7.4 | 0 |
| Min     | 0   | 0   | 0 |
| Average | 0   | 0.2 | 0 |

\*\*\*\*\*

# TWA/STEL

| Index | Date/Time       | PID(ppm) | PID(ppm) |
|-------|-----------------|----------|----------|
|       |                 | (TWA)    | (STEL)   |
| 1     | 2/26/2020 7:43  | 0        | 0        |
| 2     | 2/26/2020 7:58  | 0        | 0        |
| 3     | 2/26/2020 8:13  | 0        | 0        |
| 4     | 2/26/2020 8:28  | 0        | 0        |
| 5     | 2/26/2020 8:43  | 0        | 0        |
| 6     | 2/26/2020 8:58  | 0        | 0        |
| 7     | 2/26/2020 9:13  | 0        | 0        |
| 8     | 2/26/2020 9:28  | 0        | 0        |
| 9     | 2/26/2020 9:43  | 0        | 0        |
| 10    | 2/26/2020 9:58  | 0        | 0        |
| 11    | 2/26/2020 10:13 | 0        | 0        |

|    |                 |   |   |
|----|-----------------|---|---|
| 12 | 2/26/2020 10:28 | 0 | 0 |
| 13 | 2/26/2020 10:43 | 0 | 0 |
| 14 | 2/26/2020 10:58 | 0 | 0 |
| 15 | 2/26/2020 11:13 | 0 | 0 |
| 16 | 2/26/2020 11:28 | 0 | 0 |
| 17 | 2/26/2020 11:43 | 0 | 0 |
| 18 | 2/26/2020 11:58 | 0 | 0 |
| 19 | 2/26/2020 12:13 | 0 | 0 |
| 20 | 2/26/2020 12:28 | 0 | 0 |
| 21 | 2/26/2020 12:43 | 0 | 0 |
| 22 | 2/26/2020 12:58 | 0 | 0 |
| 23 | 2/26/2020 13:13 | 0 | 0 |
| 24 | 2/26/2020 13:28 | 0 | 0 |
| 25 | 2/26/2020 13:43 | 0 | 0 |
| 26 | 2/26/2020 13:58 | 0 | 0 |
| 27 | 2/26/2020 14:13 | 0 | 0 |
| 28 | 2/26/2020 14:28 | 0 | 0 |
| 29 | 2/26/2020 14:43 | 0 | 0 |
| 30 | 2/26/2020 14:58 | 0 | 0 |
| 31 | 2/26/2020 15:13 | 0 | 0 |
| 32 | 2/26/2020 15:28 | 0 | 0 |
| 33 | 2/26/2020 15:43 | 0 | 0 |





# APPENDIX C

**Permits (Not NYSDEC Permits)**



# City of Rochester

Department of Neighborhood and Business Development  
City Hall Room 028B, 30 Church Street  
Rochester, New York 14614-1290  
www.cityofrochester.gov

Phone: 585.428.6520  
Fax: 585.428.6287  
TTY: 585.428.6054



Inspection and  
Compliance

Received By  
LaBella Associates, P.C.

MAR 09 2020

## CERTIFICATE OF COMPLIANCE

Client: \_\_\_\_\_  
Proj.#: \_\_\_\_\_

CASE NO. 684104

DAVE ENGERT  
300 STATE ST  
ROCHESTER NY 14614

Date Letter Printed: 03/04/20  
Date Permit Issued : 01/08/20  
Permit Number : 1197074

Permit Location: 0872 HUDSON AV

Permit description:

REMOVAL OF (1) 500 AND (1) 1,000 GALLON HEATING OIL STORAGE TANK ON VACANT LAND.

Dear Applicant / Owner:

The work performed at the permit location covered by Permit Number 1197074 has been completed and is in substantial compliance with the applicable requirements of the Municipal Code of the City of Rochester and the New York State Uniform Fire Prevention and Building Code.

STEVE ERSTENIUK

Inspector of Record: \_\_\_\_\_

### NOTICE OF DISCLAIMER

PROPERTY INSPECTIONS ARE VISUAL AND NON-DESTRUCTIVE ONLY AND ARE NOT INTENDED TO PROVIDE INFORMATION CONCERNING POSSIBLE HIDDEN DEFECTS WITHIN OR BEHIND WALLS, CEILINGS, PARTITIONS OR FLOORS. IN ADDITION, THE CITY MAKES NO REPRESENTATION, CERTIFICATION OR GUARANTEE TO ANY PERSON OR ENTITY, AND ASSUMES NO LIABILITY FOR REAL OR CLAIMED FAILURE TO OBSERVE OR CITE ANY DEFECTS, WHETHER HIDDEN OR OBVIOUS, IN CONJUNCTION WITH ANY INSPECTION REQUISITE FOR ISSUANCE OF THE CERTIFICATE OF COMPLIANCE. CITY INSPECTIONS ARE DONE TO PROMOTE THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC AS A WHOLE, BY ENHANCING THE CITY'S HOUSING STOCK AND RESIDENTIAL NEIGHBORHOODS.

LENDERS AND PURCHASERS ARE STRONGLY ENCOURAGED TO CONSULT INDEPENDENT INSPECTORS.





## City of Rochester

Department of Neighborhood and Business Development  
City Hall Room 028B, 30 Church Street  
Rochester, New York 14614-1290  
www.cityofrochester.gov

Phone: 585.428.6520  
Fax: 585.428.6287  
TTY: 585.428.6054



Inspection and  
Compliance

Received By  
LaBella Associates, P.C.

### CERTIFICATE OF COMPLIANCE

JUL 08 2019

Client: \_\_\_\_\_

Proj.#: \_\_\_\_\_

DAVID ENGERT  
300 STATE ST  
ROCHESTER NY 14614

CASE NO. 671629

Date Letter Printed: 07/03/19  
Date Permit Issued : 05/24/19  
Permit Number : 1192927

Permit Location: 0872 HUDSON AV

Permit description:

REMOVAL OF SEVEN (7) 275 GALLON HEATING OIL STORAGE TANKS FROM BASEMENT.

Dear Applicant / Owner:

The work performed at the permit location covered by Permit Number 1192927 has been completed and is in substantial compliance with the applicable requirements of the Municipal Code of the City of Rochester and the New York State Uniform Fire Prevention and Building Code.

STEVE ERSTENIUK

Inspector of Record: \_\_\_\_\_

#### NOTICE OF DISCLAIMER

PROPERTY INSPECTIONS ARE VISUAL AND NON-DESTRUCTIVE ONLY AND ARE NOT INTENDED TO PROVIDE INFORMATION CONCERNING POSSIBLE HIDDEN DEFECTS WITHIN OR BEHIND WALLS, CEILINGS, PARTITIONS OR FLOORS. IN ADDITION, THE CITY MAKES NO REPRESENTATION, CERTIFICATION OR GUARANTEE TO ANY PERSON OR ENTITY, AND ASSUMES NO LIABILITY FOR REAL OR CLAIMED FAILURE TO OBSERVE OR CITE ANY DEFECTS, WHETHER HIDDEN OR OBVIOUS, IN CONJUNCTION WITH ANY INSPECTION REQUISITE FOR ISSUANCE OF THE CERTIFICATE OF COMPLIANCE. CITY INSPECTIONS ARE DONE TO PROMOTE THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC AS A WHOLE, BY ENHANCING THE CITY'S HOUSING STOCK AND RESIDENTIAL NEIGHBORHOODS.

LENDERS AND PURCHASERS ARE STRONGLY ENCOURAGED TO CONSULT INDEPENDENT INSPECTORS.





# APPENDIX D

## Monthly Progress Reports and Field Logs

# Daily Field Logs

16

2182207  
Former Wollersack

5/22/14

- 0730 A. Britt onsite, Rock environmental onsite already, AMS setting up.
- 0745 weather cloudy, 50°.
- 0754 Rock Environmental plans to break up concrete and remove over tanks to get them out of the vault in basement area.
- 0800 Concrete barricades being moved by Rock environmental using excavator.
- 0815 Rock removing metal plate above concrete tank area. Determining how to remove vault.
- 0816 AMS ready to screen metal prior to removal. Metal duct work piping etc.
- 0830 Tom Risher of Rock Environmental on site. Determining method to remove concrete slab over tank area. AMS screening sidewalk, property perimeter.
- 0915 Rock environmental cutting concrete above tanks with demolisher saw. AMS begin screening 1st floor (ground level) with dig detector.
- 1010 continued on next page.

5/22/14

2182207  
Former Wollersack

17

- 1001 Rock Env. used Jack Hammer to make holes in concrete in addition to hole already in concrete slab in order to hook chain up to remove portion of concrete.
- 1020 Pete Sprague and Kevin Miller of LaBella on-site with trailer, with trailer drums and compressor.
- 1051 AMS completed accessible portions of 1st floor/ground level. Ground level readings appeared to be "low". AMS also begin to screen basement stairs. Circular coated glass piece had elevated readings 172 uR. AMS said the elevated object was found in corner of basement stairs. Similar circular glass/plastic pieces were found elsewhere throughout the building however were not elevated for radioactivity.
- 1135 Tank at vault in basement opened up by breaking concrete with excavator (Rock Env). Tanks prior to breaking concrete had holes in tops some concrete fell into tanks.



18

2182207  
Former Wollersack

5/22/19

- 1130 I-beam in way preventing access to remove tanks. Beam to be cut and removed by Rocky Ferra.
- 1139 Fire Marshall on-site Steve Engleniuk to look at tank removals, Steve said tanks with large holes can be removed without screening (LEL). Tank 7 without large openings to be screened, one tank had been removed prior to Fire Marshall on-site. Fire Marshall said he has to be on-site before removed.
- 1147 Four tanks removed, none of tanks have any ~~petroleum~~ oil of water, water will be pumped out by Labella if present.
- 1204 Oxygen 20.9%. CO 8ppm LEL 0 in tank
- 1205 LEL 0 CO 15.5% CO 10ppm after putting CO into tank
- 1210 Another tank without large holes pumped with CO<sub>2</sub> O<sub>2</sub> 10.3% LEL 0 CO 11ppm readings after CO<sub>2</sub> introduced.
- 1230 Labella P. Spagnola + K. Mikel offsite with 4-275 gallon tanker to bring to scrap.

5/22/19

2182207  
Former Wollersack

A

- 1331 P. Spagnola + K. Mikel to return for remaining three tanks after draping at scrap.
- 1416 Tank #5 removed from basement Labella Buck onsite for removal. Fire Marshall on-site.
- 1430 Tank #6 removed large holes in tank prior to removal.
- 1445 Tank #7 injected with CO<sub>2</sub> O<sub>2</sub> 10.3% LEL 0 CO 10ppm. Tanks being pulled.
- 1447 Tanks were measured with a QRAEII meter to measure oxygen, CO, LEL, and SO<sub>2</sub>.
- 1500 None of the tanks needed to be pumped prior to removal.
- 1501 P. Spagnola + K. Mikel strapped tanks to trailer to bring to scrap yard (Metulico).
- 1600 A. Brett offsite.

5/22/19  
AB



36

2182207  
Former Wellinsack

11/13/19

A. Betti and Pete Spagnola on-site @ 8 am. Weather: snowing ~ 8 inches of snow on ground, wind appears to be traveling to the east-northeast @ 2-3 mph. overcast

0815 J. Gillet on site. P. Spagnola shovel snow in vicinity of tank immediately east of building, fuel oil odor noted while shoveling

0820 Excavator delivered to site (Cat 305-SE)

0830 P. Spagnola leaving to pick up poly sheeting

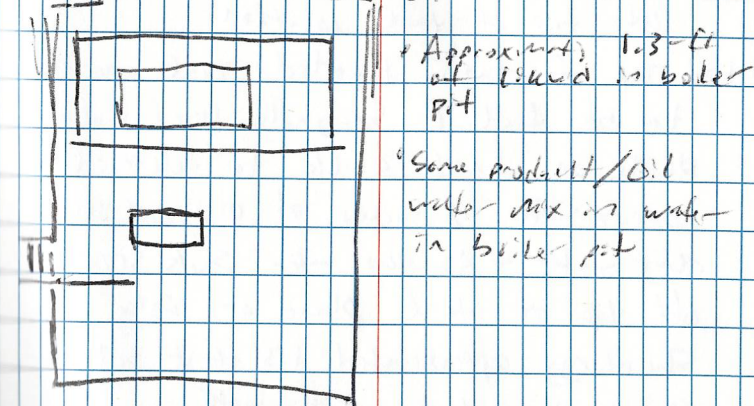
0845 Small boarded opening to basement from outside opened and screened with PTD, 0.6 ppm inside. Fan turned on and put in open to clear out vapors in basement, PID reading in air at 0.1 and slowly climbing

0846 A. Betti & J. Gillet go into basement, fuel oil odor present. Boiler pit appears to have oil & water mix in it. Screen debris/walls/pipes with PID for any indication of route of material

37

2182207  
Former Wellinsack

11/13/19  
Debris 26 mm paint/pollut. Fan blowing air outside  
16 mm in debris  
8 mm in debris



Pictures taken by J. Gillet

0905 J. Gillet offsite

0923 Camp monitors place upwind & downwind T&R stopped up inside to pump tanks and pit

0930 P. Spagnola returned onsite

0940 Begin pumping boiler pits with T&R Vacuum truck

0950 Boiler pit pumped of all liquid, some residual oil on surfaces

1000 CAMP Station started

1007 T&R begins pumping Northern tank ~ 8.5 inches of oil/water mix, 90 inches from top of fill port to bottom of tank



38

Q182207

11/5/79

1115 P. Seagrave begins scraping soil  
at top of tank location

1115 Top of tank located. Tank appears  
to be full. P. Seagrave used water  
piston on tank stick to determine  
approximately 8 inches of oil and the  
rest water ~ 40 inches water. Soils screened  
off top of tank placed on poly  
sheeting approximately 1.5 ft of soil  
removed to get to top of tank.

1137 T&R done pumping northern tank,  
moving to southern tank (just east  
of building).

1140 Downwind CAMP

Manual 38 Distruct Dt D2

Upwind Camp

Manual A4 Distruct D-2

1200 Logs on separate sheets

1400 CAMP Taken down. LaBelle offsite

12/13/10  
AB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------|--|
| <div><div><div></div><div>LaBella</div><div>Powered by partnership.</div></div><div>300 STATE STREET, ROCHESTER, NY<br/>ENVIRONMENTAL ENGINEERING CONSULTANTS</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                      | <div>PROJECT</div> <div>Former Wollensack Optical<br/>872 &amp; 886 Hudson Ave<br/>Rochester, NY</div> |                                                           |         | <div>TEST PIT: TP-01</div> <div>SHEET 1 OF 1</div> <div>JOB: 2182207</div> <div>CHKD BY:</div> <div>DATE: 11/13/2019</div> |  |
| CONTRACTOR: LaBella Environmental LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                      | TEST PIT LOCATION: See Figure                                                                          |                                                           |         |                                                                                                                            |  |
| OPERATOR: P Spagnola                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                      | GROUND SURFACE ELEVATION NA                                                                            |                                                           |         |                                                                                                                            |  |
| LABELLA REPRESENTATIVE: A. Brett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                      | DATUM: NA                                                                                              |                                                           |         |                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                      | TYPE OF EQUIPMENT: Excavator                                                                           |                                                           |         |                                                                                                                            |  |
| DEPTH (FEET)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SAMPLE               |                      | VISUAL CLASSIFICATION                                                                                  | PID FIELD SCREEN (PPM)                                    | REMARKS |                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SAMPLE NO. AND DEPTH | STRATA CHANGE (FEET) |                                                                                                        |                                                           |         |                                                                                                                            |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 0.0                  | Loose brown silty sand, moist, petro odor.                                                             |                                                           |         |                                                                                                                            |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        | 3.2                                                       |         |                                                                                                                            |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 2.0                  | Loose sand and gravel, moist, petro odor.                                                              | 17.8                                                      |         |                                                                                                                            |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 3.0                  | Brown silt and clay, moist, petro odor.                                                                | 20.6                                                      |         |                                                                                                                            |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        | 30.3                                                      |         |                                                                                                                            |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 4.3                  | Tightly packed silty sand and clay, slight petro odor.                                                 | 4.8                                                       |         |                                                                                                                            |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      | 6.0-ft End Test Pit                                                                                    | 2.5                                                       |         |                                                                                                                            |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      | Unable to dig deeper do to concrete in east side of test pit,                                          |                                                           |         |                                                                                                                            |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      | tank on north side of pit, building on northside and concrete on                                       |                                                           |         |                                                                                                                            |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      | south side.                                                                                            |                                                           |         |                                                                                                                            |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                      |                                                                                                        | Notes:                                                    |         |                                                                                                                            |  |
| WATER LEVEL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                      |                                                                                                        | Test pit 5-ft long east-west, 3-ft wide north-south, 6-ft |         |                                                                                                                            |  |
| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TIME                 | ELAPSED TIME         |                                                                                                        | deep                                                      |         |                                                                                                                            |  |
| NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA                   | NA                   |                                                                                                        | TP south of tank, hole noted in south end of tank. Rusty  |         |                                                                                                                            |  |
| <div>GENERAL NOTES</div> <div>1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.</div> <div>2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER</div> <div><div>BGS = Below Ground Surface</div><div>NA = Not Applicable</div><div>and = 35 - 50%</div><div>some = 20 - 35%</div><div>little = 10 - 20%</div><div>trace = 1 - 10%</div><div>C = Coarse</div><div>M = Medium</div><div>F = Fine</div><div>VF = Very Fine</div><div>R = Rounded</div><div>A = Angular</div><div>SR = Subrounded</div><div>SA = Subangular</div></div> <div>TEST PIT: TP-01</div> |                      |                      |                                                                                                        |                                                           |         |                                                                                                                            |  |

|                                                                                                                                                                           |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------|--|
| <div><div><div></div><div>LaBella</div><div>Powered by partnership.</div></div><div>300 STATE STREET, ROCHESTER, NY<br/>ENVIRONMENTAL ENGINEERING CONSULTANTS</div></div> |                      |                      |                                                                                                                                                                                                                   | <div>PROJECT</div> <div>Former Wollensack Optical</div> <div>872 &amp; 886 Hudson Ave</div> <div>Rochester, NY</div> |                         |                                                                                                    |  | <div>TEST PIT: TP-02</div> <div>SHEET 1 OF 1</div> <div>JOB: 2182207</div> <div>CHKD BY:</div> <div>DATE: 11/13/2019</div> |  |
| CONTRACTOR: LaBella Environmental LLC                                                                                                                                     |                      |                      |                                                                                                                                                                                                                   | TEST PIT LOCATION: See Figure                                                                                        |                         |                                                                                                    |  |                                                                                                                            |  |
| OPERATOR: P Spagnola                                                                                                                                                      |                      |                      |                                                                                                                                                                                                                   | GROUND SURFACE ELEVATION NA                                                                                          |                         | DATUM: NA                                                                                          |  |                                                                                                                            |  |
| LABELLA REPRESENTATIVE: A. Brett                                                                                                                                          |                      |                      |                                                                                                                                                                                                                   | TYPE OF EQUIPMENT: Excavator                                                                                         |                         |                                                                                                    |  |                                                                                                                            |  |
| DEPTH (FEET)                                                                                                                                                              | SAMPLE               |                      | VISUAL CLASSIFICATION                                                                                                                                                                                             | PID FIELD SCREEN (PPM)                                                                                               | REMARKS                 |                                                                                                    |  |                                                                                                                            |  |
|                                                                                                                                                                           | SAMPLE NO. AND DEPTH | STRATA CHANGE (FEET) |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 0                                                                                                                                                                         |                      | 0.0                  | Brown silty sand, little gravel, building materials such as bricks cinder blocks.<br><br><br><br><br><br><br><br><br><br>4-ft End Test Pit<br><br>Solid concrete slab at bottom of pit, unable to break/dig past. | 1.7                                                                                                                  |                         |                                                                                                    |  |                                                                                                                            |  |
| 1                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   | 1.7                                                                                                                  |                         |                                                                                                    |  |                                                                                                                            |  |
| 2                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   | 1.5                                                                                                                  |                         |                                                                                                    |  |                                                                                                                            |  |
| 3                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   | 1.2                                                                                                                  |                         |                                                                                                    |  |                                                                                                                            |  |
| 4                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 5                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 6                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 7                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 8                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 9                                                                                                                                                                         |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 10                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 11                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 12                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 13                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 14                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 15                                                                                                                                                                        |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
|                                                                                                                                                                           |                      |                      |                                                                                                                                                                                                                   | DEPTH (FT)                                                                                                           |                         | Notes:<br>Test pit 9-ft long north-south, 3-ft wide east-west, 4-ft deep.<br>Test pit east of tank |  |                                                                                                                            |  |
| WATER LEVEL DATA                                                                                                                                                          |                      |                      |                                                                                                                                                                                                                   | BOTTOM OF TEST PIT                                                                                                   | GROUNDWATER ENCOUNTERED |                                                                                                    |  |                                                                                                                            |  |
| DATE                                                                                                                                                                      | TIME                 | ELAPSED TIME         |                                                                                                                                                                                                                   | 4' ft bgs                                                                                                            | NA                      |                                                                                                    |  |                                                                                                                            |  |
| NA                                                                                                                                                                        | NA                   | NA                   |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| GENERAL NOTES                                                                                                                                                             |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.                                                                    |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER                                                                  |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| BGS = Below Ground Surface      and = 35 - 50%      C = Coarse      R = Rounded                                                                                           |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| NA = Not Applicable      some = 20 - 35%      M = Medium      A = Angular                                                                                                 |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| little = 10 - 20%      F = Fine      SR = Subrounded                                                                                                                      |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
| trace = 1 - 10%      VF = Very Fine      SA = Subangular                                                                                                                  |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         |                                                                                                    |  |                                                                                                                            |  |
|                                                                                                                                                                           |                      |                      |                                                                                                                                                                                                                   |                                                                                                                      |                         | TEST PIT: TP-02                                                                                    |  |                                                                                                                            |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------|--|
| <div><div><div></div><div>LaBella</div><div>Powered by partnership.</div></div><div>300 STATE STREET, ROCHESTER, NY<br/>ENVIRONMENTAL ENGINEERING CONSULTANTS</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |                      | <div>PROJECT</div> <div>Former Wollensack Optical<br/>872 &amp; 886 Hudson Ave<br/>Rochester, NY</div> |                                                                |         | <div>TEST PIT: TP-03</div> <div>SHEET 1 OF 1</div> <div>JOB: 2182207</div> <div>CHKD BY:</div> <div>DATE: 11/13/2019</div> |  |
| CONTRACTOR: LaBella Environmental LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                      | TEST PIT LOCATION: See Figure                                                                          |                                                                |         |                                                                                                                            |  |
| OPERATOR: P Spagnola                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                      | GROUND SURFACE ELEVATION NA                                                                            |                                                                |         |                                                                                                                            |  |
| LABELLA REPRESENTATIVE: A. Brett                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                      | DATUM: NA                                                                                              |                                                                |         |                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                      | TYPE OF EQUIPMENT: Excavator                                                                           |                                                                |         |                                                                                                                            |  |
| DEPTH (FEET)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SAMPLE               |                      | VISUAL CLASSIFICATION                                                                                  | PID FIELD SCREEN (PPM)                                         | REMARKS |                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SAMPLE NO. AND DEPTH | STRATA CHANGE (FEET) |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 0.0                  | Brown silty sand, some gravel and little cobbles, moist, no odor.                                      | 0.5                                                            |         |                                                                                                                            |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        | 0.5                                                            |         |                                                                                                                            |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        | 0.5                                                            |         |                                                                                                                            |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        | 0.5                                                            |         |                                                                                                                            |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        | 0.5                                                            |         |                                                                                                                            |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 5.0                  | Similar to above petro odor                                                                            | 30                                                             |         |                                                                                                                            |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      | 6-ft End Test Pit                                                                                      | 15                                                             |         |                                                                                                                            |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      | Concrete wall on east side of hole, tank south of hole.                                                | 25                                                             |         |                                                                                                                            |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                      |                                                                                                        | Notes:                                                         |         |                                                                                                                            |  |
| WATER LEVEL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                      |                                                                                                        | Test pit 5-ft long east-west, 3-ft wide north-south, 6-ft deep |         |                                                                                                                            |  |
| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TIME                 | ELAPSED TIME         |                                                                                                        | Test pit north of tank                                         |         |                                                                                                                            |  |
| NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA                   | NA                   |                                                                                                        |                                                                |         |                                                                                                                            |  |
| <div>GENERAL NOTES</div> <div>1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.</div> <div>2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER</div> <div><div>BGS = Below Ground Surface</div><div>NA = Not Applicable</div><div>and = 35 - 50%</div><div>some = 20 - 35%</div><div>little = 10 - 20%</div><div>trace = 1 - 10%</div><div>C = Coarse</div><div>M = Medium</div><div>F = Fine</div><div>VF = Very Fine</div><div>R = Rounded</div><div>A = Angular</div><div>SR = Subrounded</div><div>SA = Subangular</div></div> <div>TEST PIT: TP-03</div> |                      |                      |                                                                                                        |                                                                |         |                                                                                                                            |  |



Location \_\_\_\_\_ Date \_\_\_\_\_

Project / Client \_\_\_\_\_

Wollensack

← SHOULD BE 12/2

10/2

745 J. Folger On-site

750 Contractor on-site - Josh

800 All extension cords stolen from site,  
contractor goes to get more930 No removal today, contractor laborers  
plowing snow in morning, will set up  
in afternoon, J. Folger calls to coordinate  
vac truck and firebrick containment for tomorrow

1030 J. Folger off-site

10/3

← SHOULD BE 12/3

0650 J. Folger on-site

0700 Contractor on-site

0730 vac truck arrives, J. Folger sets up CAMP  
station0800 TRS (vac truck) begins pumping oily water  
from area around firebrick. J. Folger starts  
CAMP monitoring station0900 Contractors (Rock Environmental) begin  
clearing debris from boiler pit

Location \_\_\_\_\_ Date \_\_\_\_\_

Project / Client \_\_\_\_\_

0930 Boiler pit empty of water, but continues to  
fill from sump. ROCK Env. attempting to get  
conveyer belt working.1000 Yard box for ~~dam~~ fire-brick not arriving  
today. Will stage firebrick on poly after  
removal from basement.

1030 TRS off-site, 722 gallons pumped

1130 Contractors removing fire-brick into pallet  
box1230 PID in CAMP station shut off due to low  
battery, swapped for fresh. Contractors having  
trouble with conveyor1420 Firebrick removal complete, contractors will  
transition to removal of metal and assorted  
floor debris1515 Rock done for day, J. Folger packs up CAMP  
station

1530 ROCK and J. Folger off-site

Location \_\_\_\_\_ Date \_\_\_\_\_

Project / Client \_\_\_\_\_

10/4 ← SHOULD BE 12/4

- 0655 J. Folger on-site
- 0705 ROCK Environmental on-site - J. Folger sets up CAMP station. Plan for the day is removal of paint from walls
- 0800 Roll-off for basement debris arrives. ROCK cutting metal pieces from boiler pit into smaller pieces for removal
- 0915 Contractors removing paint from walls. Removal creating high levels of dust/particulate. ROCK contractors will wear respirators and tyvek suits
- 1520 Paint removal complete. J. Folger packs up CAMP
- 1530 J. Folger off-site

Location \_\_\_\_\_ Date \_\_\_\_\_

Project / Client \_\_\_\_\_

10/5 ← SHOULD BE 12/5

- 0650 J. Folger on-site
- 0655 ROCK Environmental on-site
- 0710 Plan is to begin floor removal. J. Folger sets up CAMP station and reminds contractors to be mindful of monitoring wells
- 0715 Contractors begin prepping for floor removal work
- 0900 Contractors continuing basement floor removal. Minor impact in soil identified near stairs (~20 ppm in PID), 2-3 ppm throughout basement
- 1045 Basement floor about half removed. Elevated dust levels (~1.5 mg/m<sup>3</sup>), all workers in area wearing respirators
- 1345 Work continues. Area of impact identified earlier off gassed. Dry down ~6", ~10-15 ppm
- 1550 Work for day completed. J. Folger packs up CAMP. off-site

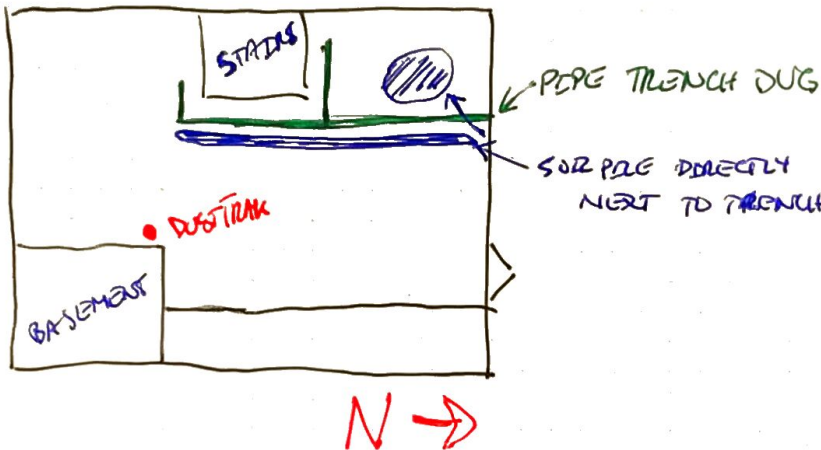


10/6 ← SHOULD BE 12/6

|      |                                                                                                    |
|------|----------------------------------------------------------------------------------------------------|
| 655  | J. Folger onsite                                                                                   |
| 705  | Rock Environmental onsite                                                                          |
| 715  | J. Folger sets up CAMP station Rock begins removal. Plan to finish removal of basement floor today |
| 1045 | Removal complete, Rock begins packing up                                                           |
| 1130 | J. Folger off-site                                                                                 |

12/13/19, FRIDAY

- 0700 ARRIVE ON SITE, SET UP CAMP STATION INSIDE
- 0820 EXCAVATION STARTS DIGGING PIPE TRENCH FOR CONNECTIONS TO OUTSIDE STORMWATER & SEWER
- DUSTTRAK NEEDS ZEROING - ALEX BREST BRINGING ZERO FILTER FROM LAB
  - AMBIENT PPD READINGS  $\sim 0.2 \rightarrow 0.9$  PPM
- 1100 PLUMBERS START PLACING PIPE IN TRENCH. S. LOGAN HELPS A. PRASADA WITH MOVING DISPOSAL DRUMS TO LOCATION OUTSIDE.
- 1530 WORKERS DONE FOR DAY. CAMP SHUT DOWN. S. LOGAN OFF SITE.



\* SOIL IS PLACED DIRECTLY NEXT TO HOME LOCATION NEXT TO TRENCH FOR HOPEFUL REVERSE BACKFILLING.



2182207 FORMER WAGENSACK OPTICAL

12/16/19, MONDAY

0700 ARRIVE ON SITE, SET UP CAMP STATION

PLUMBERS CONTINUING TO PLACE PIPE IN TRENCH DUG YESTERDAY, COLLING THROUGH FOOTER FOR OUTSIDE CONNECTION

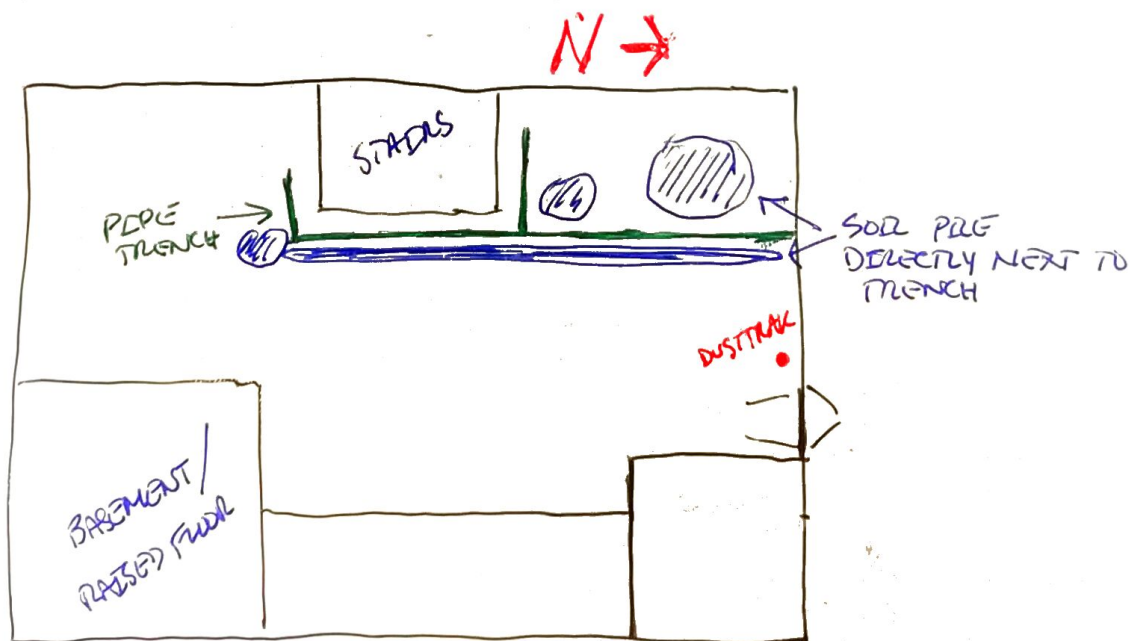
• AMBIENT PZD READINGS ~ 0.3-7 0.8 PPM

0900 EMAILS & CONVERSATIONS WERE DISCUSSED ABOUT SOIL REUSE. JOSH GROBE WAS SPOKEN WITH ABOUT TESTING SOIL & ITS TEMPERATURES; ALSO THE PROPER STORAGE OF SOILS NOT YET TESTED. CONVERSATIONS WILL HAPPEN FOR THE IMPORT OF SPONGE & CRUSHER RUN.

CONCRETE FLOOR IS BEING PLACED IN ROLL-OFF FOR REMOVAL

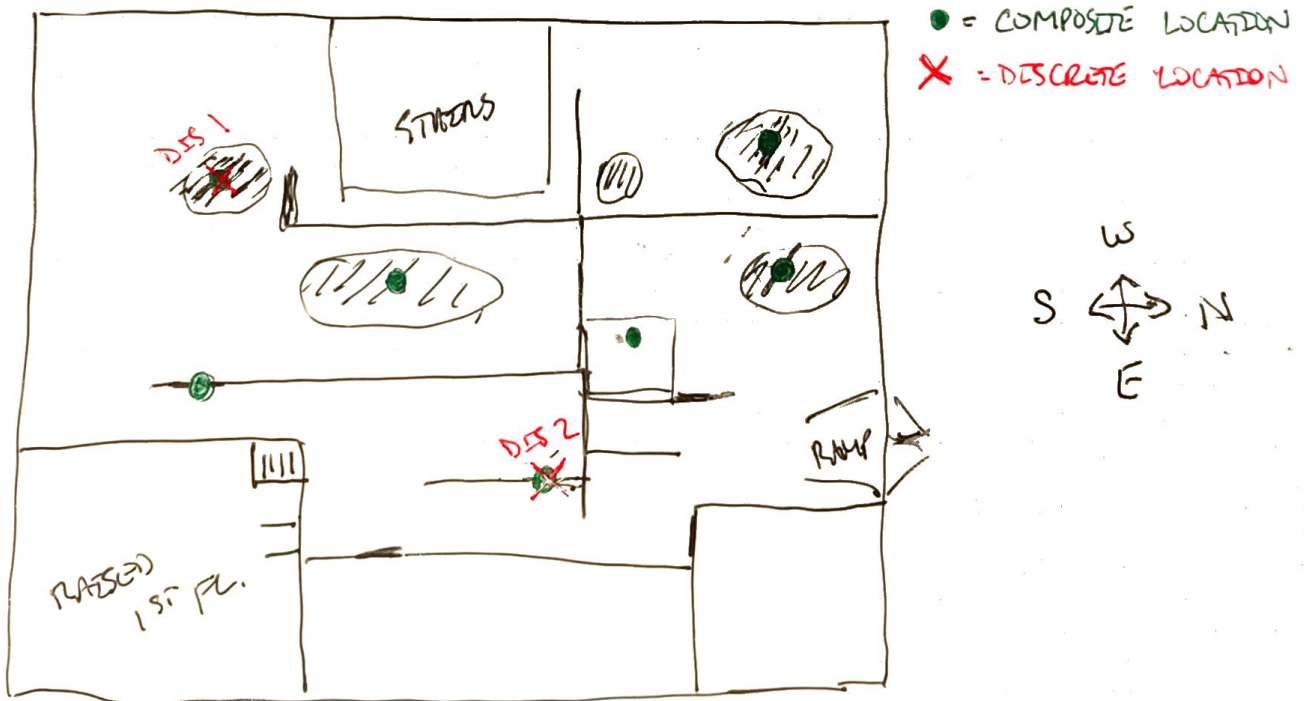
1000 SAMPLE KITS ARE ORDERED FOR ON-SITE REUSE TESTING, KITS WILL BE PICKED UP LATER TODAY & SAMPLES GATHERED TOMORROW.

1130 NO FURTHER DIGGING WILL BE DONE TODAY, NOW CONCRETE REMOVAL. LABELLA NOT NEEDED ON SITE. CAMP PACKED UP.  
S. LOGAN OFF SITE



12/17/19, TUESDAY

- 0700 ARRIVE ON SITE, SET UP CAMP STATION. WAITING FOR MENS EXCAVATOR OPERATOR TO ARRIVE TO DIG HOLES FOR SOIL SAMPLING. PLUMBERS CONTINUING TO INSTALL PIPE CONNECTIONS THROUGH FLOOR FOR SEWER/STORMWATER.
- 1000 EXCAVATOR REMOVING CONCRETE PIECES TO UNCOVER SOIL UNDERNEATH. CONCRETE BEING PLACED ON DUMPSTER FOR DISPOSAL. NO PID READINGS.
- 1100 SOIL SAMPLES TAKEN FOR REUSE TESTING - 2 DISCRETE VOLS, 1 COMPOSITE FOR REST OF FULL SUITE PARAMETERS.
- DIS-01-121719 : SW CORNER, 11:00  
 DIS-02-121719 : E SIDE, 11:30  
 COMP-01-121719 : 7 LOCATIONS ON 1<sup>ST</sup> FLOOR, 12:00



1230 LEAVE SITE TO DROP OFF SAMPLES. CAMP STATION  
BROKEN DOWN - NOT NEEDED UNTIL SAMPLE RESULTS  
COME IN & PLUMBERS CAN RESUME DIGGING.

1400 BACK ON SITE FOR PLACING PIDB BAGS ON WELLS.

1500 OFF SITE FOR DAY

2182207 FOREIGN WILMERSACK - TANK PULL

WRONG DATE ON  
FIELD NOTE  
-CORRECT DATE IS  
12/19/19

12/18/19

0800 ON SITE

0830 P. SPAGNOLA & CREW ARRIVE, DUMPSTER & EXCAVATOR  
ARRIVE SHORTLY AFTER. GUY D. ARRIVES.  
-TANK IS PURGED OF ~ 3.55 GALLONS  
0845 DUMPSTER IS LOADED.  
LEZ FROM DEC ARRIVES

0850 SOIL STARTING TO BE REMOVED FROM AROUND TANK. "CLEAN"  
SOIL IS STAGED ON POLY FOR TESTING. DIRT IS PLACED  
IN DUMPSTER.

TANK LENGTH: 10'6"

DIA: 4'

1000 TANK IS LIFTED ONTO AN ANGLE, STILL IN ITS TIE, TO  
FURTHER DRAIN IT

1100 TANK IS REINVERTED INVERT VIA CO<sub>2</sub> GAS

1125 FERG MARSHALL ARRIVES. CO<sub>2</sub> IS ADDED AGAIN TO SHOW INVERT  
NUMBERS. 14% O<sub>2</sub>, 0% LEZ IN THE TANK. FERG  
MARSHALL CLEARS TANK PULL.

1140 TANK IS LOADED INTO LABEULA MATRICK FOR TRANSPORT  
TO THE LLC FOR CLEANING & DISPOSAL.

1200 LABEULA LLC LEAVES SITE TO TRANSPORT TANK.

1300 LLC BACK ON SITE. CR#2 WON'T BE ON SITE UNTIL  
TOMORROW, SO EXPLORATORY DIGGING OCCURS, TO TRY TO FIND  
POSSIBLE POCKET OF CONTAMINATION

1400 DIGGING DONE FOR THE DAY. STOCKPILE IS COVERED  
AND FENCING IS PLACED AROUND THE PIT FOR SAFETY

1500 OFF SITE. DIGGING RESUMES TOMORROW, 8 AM.



2182207 FORMER WOLLENSACK OPTICAL

12/20/19

TANK PULL, DAY 2

0800 ARRIVE ON SITE, SET UP CAMP

0815 LLC ARRIVES ON SITE, PULLS DOWN PROTECTIVE FENCING.

CLEANER SOIL ON TOP LAYERS ARE SHIFTED TO THE SIDE, STILL IN THE PIT, TO CONTINUE LOOKING FOR SIGNS OF GROSS CONTAMINATION.

ORIGINALLY THOUGHT TO BE PART OF THE FOOTER, A ROCK IS SCRAPED CLEAN & SHIFTED, TO REVEAL STAINING ON THE ROCK & STRONG STAINING / ODOR NEXT TO & BELOW IT. CONTAMINATED SOIL IS REMOVED & PLACED IN ROLL-OFF DUMPSTER. DUMPSTER IS FILLED TO TRANSPORTABLE CAPACITY.

1000 ERIC D. FROM LABEUA & LEZ FROM DEC HAVE ARRIVED. 2 LOADS OF CR#2 HAVE BEEN DELIVERED & PLACED ON POLY SHEETING.

SEVERAL MORE BUCKET-FULLS OF CONTAMINATED SOIL ARE PLACED ON POLY NEXT TO THE ROLL-OFF FOR PART OF THE DISPOSAL DETERMINATION.

1030 - 1230 SAMPLES FOR DOCUMENTATION OF SOILS STAYING IN THE PIT, PLUS CONTAINED-IN SAMPLES ARE COLLECTED.

LLC CREW LEAVES TO GET A REPLACEMENT TAMPER, AS THE ONE ON SITE IS UNREPAIRABLE.

1330 CLEANER SOIL IS SHIFTED BACK TO BOTTOM OF PIT & TAMPED. POLY SHEETING IS PLACED AS DEMARCATION LAYER.

12/20/19 CONT.

1330... CR #2 IS THEN PLACED IN PIT & TAMPED DOWN IN 8" LEPTS

1430 PIT IS ~1.5' FROM GRADE WHEN CR #2 PILE IS DEPLETED. 1 MORE LOAD WILL NEED TO BE DELIVERED NEXT WEEK TO BRING PIT UP TO GRADE.

CAMP IS BROKEN DOWN. S. LOGAN OFF SITE.

### DISPOSAL SAMPLES:

★ 3 DAY TAT  
CAT B + DUSR

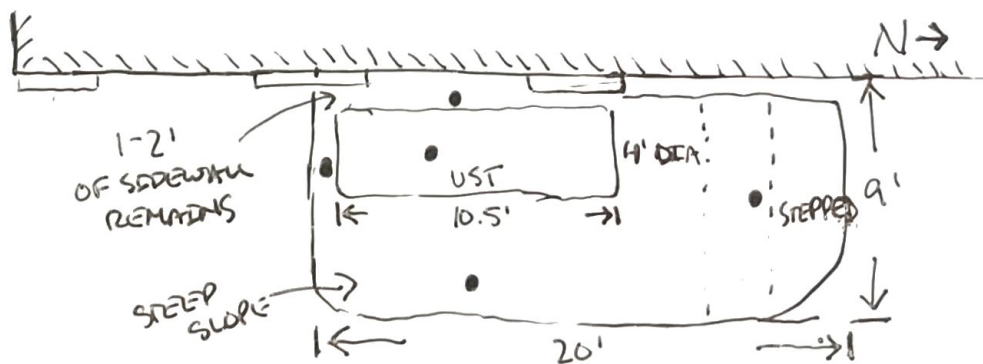
- WC-GRAB-122019, TAKEN @ 12:30 FROM WITHIN ROLL-OFF
- WC-COMP-122019, TAKEN FROM LOCATIONS IN ROLL-OFF PLUS SMALL PILE ON POLY NEXT TO DUMPSTER.

### DOCUMENTATION SAMPLES:

★ STANDARD TAT

| SAMPLE                   | LOCATION        | DEPTH | PID  | TIME  |
|--------------------------|-----------------|-------|------|-------|
| • TANK-EAST-122019 (10') | EAST SIDE WALL  | 10'   | 2.8  | 10:10 |
| • TANK-BOT-122019 (11')  | EXCAVATED FLOOR | 11'   | 30   | 10:30 |
| • TANK-WEST-122019 (8')  | WEST SIDE WALL  | 8'    | 16.1 | 10:40 |
| • TANK-SOUTH-122019 (8') | SOUTH WALL      | 8'    | 45.4 | 11:15 |
| ↳ DUP-01-122019          |                 | 8'    |      |       |
| • TANK-NORTH-122019 (8') | NORTH WALL      | 8'    | 2.7  | 11:30 |
| ↳ MS/MSD                 |                 |       |      |       |

★ DEPTHS MEASURED FROM SW CORNER OF PIT WHERE SOIL MEETS BLDG WALL







# LaBella

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PROJECT Wollensack SHEET \_\_\_\_ OF \_\_\_\_

PROJECT NO. \_\_\_\_\_ CALC. BY \_\_\_\_\_ DATE 12/30/19

SUBJECT \_\_\_\_\_ SCALE \_\_\_\_\_

CHECKED BY \_\_\_\_\_

0645 J. Folger on-site  
0700 Set up CAMP stations in basement and on first floor. GC informs it will likely be a bit before ROCK Environmental arrives to resume basement removal  
0730 Excavations on first floor resume. J. Folger starts CAMP  
0815 Rock Environmental on-site  
0830 Start basement CAMP. Basement partially flooded, cannot pump water out due to site restrictions. Rock planning to do what they can around water  
0915 A. Brett on-site to ID drums for disposal tomorrow. J. Folger and A. Brett consolidate some of the drums  
1015 Change battery in basement PID  
1100 Stone arrives to fill in UST pit  
1115 Rock complete with basement removal. J. Folger transfers CAMP station outside for UST pit CAMP monitoring, and sets up second upwind station  
1120 Start CAMP, LaBella LLC begins UST pit fill in  
1130 A. Brett off-site  
1145 UST Pit filled in, stop CAMP. Pack up exterior monitors. Check first floor CAMP, all okay.  
1200 LaBella LLC off-site  
1330 Check CAMP, all okay  
1430 CAMP all okay  
1515 1<sup>st</sup> floor work done for day, Pack up CAMP.  
1530 J. Folger off-site





# LaBella

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PROJECT Wollensack SHEET \_\_\_\_\_ OF \_\_\_\_\_

PROJECT NO. \_\_\_\_\_ CALC. BY \_\_\_\_\_ DATE 12/31/19

SUBJECT \_\_\_\_\_ SCALE \_\_\_\_\_

CHECKED BY \_\_\_\_\_

- 0645 J. Folger onsite
- 0700 Installers ~~are~~ working on first floor on-site. J. Folger sets up/starts CAMP monitor  
Work Crew refuels mini excavator.
- 0745 Rock Environmental on-site for basement stair removal
- 0830 J. Folger removes excess water from consolidated drums prior to pickup.  
Rock working on stair removal, plumbers continuing 1<sup>st</sup> floor work, CAMP all okay
- 845 Jim from ESG on-site for drum removal ground too soft for drum cart, Jim leaves to  
get plywood to make path
- 945 ESG returns, check CAMPS, all okay.
- 1000 ESG begins loading drums, J. Folger assists
- 1200 Check CAMP, all okay
- 1315 Check CAMP, all okay
- 1330 Drum loading complete
- 1400 ESG off-site
- 1430 Rock complete with basement stair removal, beginning to pack up. CAMP okay
- 1445 Rock off-site



# LaBella

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PROJECT Wollensack SHEET \_\_\_\_\_ OF \_\_\_\_\_

PROJECT NO. \_\_\_\_\_ CALC. BY \_\_\_\_\_ DATE 1/2/2020

SUBJECT \_\_\_\_\_ SCALE \_\_\_\_\_

CHECKED BY \_\_\_\_\_

0645 J. Folger on-site.  
0700 Plumbers on site, J. Folger sets up and starts CAMP on 1<sup>st</sup> floor.  
Plumbers resume installation work  
0800 Check CAMP, all okay, jackhammering occurring next to CAMP station  
creating dust. Worker operating jack hammer wearing dust mask  
0900 Check CAMP, all okay  
1000 Check CAMP, all okay  
1015 Rock Environmental on-site to collect scrap metal from basement stairs removal.  
1200 } Check CAMP, all okay  
1300 }  
1330 Rolloff containing debris from basement collected and removed from site  
1430 Liz from DEC on-site for site check. All okay. J. Folger checks CAMP, all okay.  
1445 DEC off-site  
1500 Plumbers done for day, pack up CAMP  
1515 J. Folger off-site





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PROJECT Wollensack

SHEET \_\_\_\_\_ OF \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

CALC. BY \_\_\_\_\_

DATE 1/6/2020

SUBJECT \_\_\_\_\_

SCALE \_\_\_\_\_

CHECKED BY \_\_\_\_\_

0645 J. Folger on-site  
0700 Set up CAMP, move station to back corner to be out of way of plumbers  
Work resumes on first floor  
0800 LaBella LLC on-site to remove remaining soil pile, firebrick, rolloff, and excavator  
Check CAMP, all okay  
0930 First truck with Firebrick off-site  
1115 Truck returns  
1130 York Safety on-site for inspection of Kennedy  
1135 Second truck load off-site - petro contaminated soil  
1425 AP on-site to pump waste water tank  
1440 Tank pumped, AP off-site, LLC loads last bit of petro contaminated soil into rolloff  
1455 LaBella LLC off-site  
1545 LLC returns to collect water tank  
1615 TRS on-site to pick up oily water drums  
1630 TRS and J. Folger off-site

Truck: USDOT 2414647  
MC 903422

1/7/2020

0645 J. Folger on-site  
0700 Setup and start CAMP. Plumbers burying and tamping installed plumbing  
0745 Truck on-site to collect excavator  
0810 Excavator off-site  
845 Check CAMP, elevated dust due to plumbers finishing up and moving concrete chunks with mini excavator.  
1000 Check CAMP, all okay  
1200 Check CAMP, all okay  
1330 Rolloff will not be removed today, rescheduled to first thing tomorrow. CAMP all okay  
1430 Light pole in front of Avenue D entrance removed. CAMP all okay



# LaBella

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PROJECT Wollersueck SHEET      OF       
 PROJECT NO.                      CALC. BY              DATE 1/8/2020  
 SUBJECT                      SCALE               
 CHECKED BY                     

|      |                                                                                                                                                                                                           |                                       |                      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|
| 0645 | J. Folger onsite                                                                                                                                                                                          |                                       |                      |
| 0700 | Set up interior CAMP for plumbers and exterior for excavation, start interior CAMP                                                                                                                        |                                       |                      |
| 0715 | Met with Victor excavating, point out monitoring well locations                                                                                                                                           |                                       |                      |
| 0745 | Victor Excavating begins removing fencing from excavation area                                                                                                                                            |                                       |                      |
| 0755 | Start exterior CAMP                                                                                                                                                                                       | Excavation Trucks (Ricelli)           | Stone Trucks         |
| 0800 | Victor begins excavation                                                                                                                                                                                  | #12, 7A-402 8:25                      | MJD-16               |
| 0900 | Basement is filled with gravel (see notebook for truck info)                                                                                                                                              | USDOT 918316                          | USDOT-1133266-NY     |
| 0900 |                                                                                                                                                                                                           | #360                                  | (basement fill) 9:10 |
|      |                                                                                                                                                                                                           | USDOT 418319                          |                      |
| 0920 | Checked SSDS plan against plumbers current work. Additional trenching for SSDS not yet cut. Informed plumbers it will be needed for SSDS installation. Plumbers had plan which showed all necessary cuts. | 8:30 - switch to Write in the Rain NB | due to weather       |
| 1030 | Walked interior with Josh from Hamilton Stern to go over DEC concerns                                                                                                                                     |                                       |                      |
|      | Noticed RIMW-16 and RIMW-14 were also destroyed by plumbers                                                                                                                                               |                                       |                      |
| 1115 | Changed battery in upwind PID                                                                                                                                                                             |                                       |                      |
| 1215 | Informed Victor Excavation too much mud is being tracked off-site. will spread stone around entrance after current load is finished                                                                       |                                       |                      |
| 1235 | Changed battery in upwind PID                                                                                                                                                                             |                                       |                      |

Upwind  
 PID: FA00918  
 DT: FA02283

Downwind:  
 PID: FA01644  
 DT: FA02727





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PROJECT Wollensack

SHEET \_\_\_\_\_ OF \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

CALC. BY \_\_\_\_\_

DATE 1/9/20

SUBJECT \_\_\_\_\_

SCALE \_\_\_\_\_

CHECKED BY \_\_\_\_\_

0645 J. Folger on-site  
 0700 Set up CAMP stations. Interior station now includes 4-gas meter to track CO and O<sub>2</sub> levels per DEC comment.  
 0715 All CAMP stations running, waiting for trucks to resume excavation.  
 0730 Stone deliveries begin  
 0750 Excavation resumes  
 0820 MW-12 bumped by excavator during digging. Uncertain if damaged. Roll-off collected by Cassella.  
 930 Truck 466 3A-1079 USDOT 757485 799959  
 915 Roll-off overloaded, placed back on-site  
 930 PID batteries dead in both upwind and downwind stations. Changed batteries, no more spares. Likely due to extreme cold  
 1045 Check CAMPs okay. Elevated dust in Jack Bement from Austin Master Services on-site to check radiological areas → Mobilize next Thursday  
 1100 Jack Bement off-site  
 1105 Upwind PID battery dead. Swapped for old one, hopefully warming weather will provide some battery life. Screened elevated dust readings from indoor CAMP station due to jackhammering.  
 1140 Upwind PID battery dead  
 1205 Notified Victor excavation of mud being trucked off-site. Victor spreads stone around site entrance  
 1210 Power to building cut, possibly by excavators  
 1400 Plumber off-site pack up interior camp  
 14:30 Victor done excavating pack up CAMP  
 15:00 Off-site

Excavation Trucks #21, 360, 338, 11, 17  
 → see 1/8/20 notes for license information

Blue

Schimpf #2 450087 USDOT 1743235

Ricelli #13 USDOT 918319 781241

Ricelli #12 USDOT 918319 781411

| Excavation Trucks |                        | Stone Fill       |
|-------------------|------------------------|------------------|
| 360               | 7:50                   | Schimpf 7:35     |
| 21                | 8:05                   | Schimpf #2 7:40  |
| 338               | 8:15                   | Schimpf 8:30     |
| 17                | 8:30                   | Schimpf #2 8:35  |
| 13                | 9:00                   | Victor 9:00      |
| 12                | 9:30                   | Schimpf 9:20     |
| 360               | 9:50                   | Schimpf #2 9:25  |
| 21                | 10:05                  | Victor 10:10     |
| 338               | 10:25                  | Schimpf 10:15    |
| 17                | 10:45                  | Schimpf #2 10:30 |
| 13                | 11:25                  | Victor 11:20     |
| 360               | 11:40                  | Schimpf 11:25    |
| 12                | 11:55                  | Schimpf #2 11:40 |
| 21                | 12:15                  | Victor 12:15     |
| 338               | 12:30                  | Schimpf #2 12:45 |
| 17                | 12:50                  | Victor 13:10     |
| 13                | 13:10                  | Schimpf #2 13:40 |
| 360               | 13:45                  | Schimpf #2 14:25 |
| 21                | 14:00                  | Victor 14:45     |
| 338               | <del>14:10</del> 14:25 |                  |
| 12                | 14:10                  |                  |



|      |                                                                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0645 | J Folger on-site                                                                                                                                                                                          |
| 0700 | Set up CAMPs                                                                                                                                                                                              |
| 0715 | Discuss plan with Victor Excavation, expressed concern about soil tracking off-site with wet warmer weather. Victor will take one load out of overweight roll-off, Riccelli will haul on LaBella Profile. |
| 0730 | Victor sweeps site walk, scrapes truck approach with bulldozer, spreads stone over mud.                                                                                                                   |
| 0740 | Excavation resumes                                                                                                                                                                                        |
| 0855 | Riccelli truck #325 arrives to be loaded with soil from LaBella LLC rolloff on LaBella Profile                                                                                                            |
| 0910 | Informed Victor mud was beginning to track offsite again. Victor spreads more stone at truck approach and loading areas                                                                                   |
| 1000 | Victor moves roll-off to already excavated area                                                                                                                                                           |
| 1200 | Interior Dust Trak battery dead. Plumbers no longer digging. Filling in trenches with pea gravel                                                                                                          |
| 1320 | Last excavation truck off-site                                                                                                                                                                            |
| 1345 | Shut down exterior CAMP stations                                                                                                                                                                          |
| 1515 | Rolloff removed Casella 4615<br>USDOT 757485, 799959                                                                                                                                                      |

Stone still from Penfield Dolomite

| Excavation Trucks    |       | Stone Trucks       |       |
|----------------------|-------|--------------------|-------|
| 360                  | 7:50  | Crupi              | 8:00  |
| 51                   | 8:10  | Victor             | 8:10  |
| 338                  | 8:30  | Crupi              | 8:55  |
| 17                   | 8:40  | Victor             | 9:00  |
| 11                   | 8:55  | Crupi              | 9:55  |
| 325*                 | 9:05  | Cutara CT08        | 10:15 |
| 360                  | 9:35  | Crupi              | 10:55 |
| 51                   | 10:00 | Crupi              | 11:55 |
| 338                  | 10:20 | Crupi              | 12:50 |
| 17                   | 10:40 |                    |       |
| 325                  | 11:00 |                    |       |
| 360                  | 11:30 |                    |       |
| 51                   | 12:00 |                    |       |
| 338                  | 12:30 |                    |       |
| 11                   | 12:40 |                    |       |
| 17                   | 12:50 |                    |       |
| 325                  | 13:20 |                    |       |
| Riccelli #325 781222 |       | Cutara CT08 A13754 |       |
| USDOT 918311         |       | USDOT 2982452      |       |
| Riccelli #51 781284  |       | Crupi 107553       |       |
| USDOT 918319         |       | USDOT 1150719      |       |

*Rite in the Rain*



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PROJECT Wollensack SHEET      OF     

PROJECT NO.                      CALC. BY              DATE 1/13/2020

SUBJECT                                      SCALE             

CHECKED BY                                     

- 0645 J. Folger on-site
- 0700 Set up interior and exterior CAMP. Victor will grade and dress parking lot. No additional stone planned for delivery.  
Ask plumbers to uncover monitoring well damaged during trenching
- 0800 Check CAMPs all okay
- 0815 Victor brings tree removal equipment for removal of tree near Hudson Ave entrance
- 0945 Poly tank delivered for pumping out basement
- 1015 Tree removal complete
- 1100 Replaced dead battery in Upwind PID
- 1230 Check CAMP stations, all okay. Victor continuing to grade parking lot. Plumbers burying SSDS
- 1315 Victor pick up and removes excavator from site
- 1400 Victor off-site
- 1415 Victor on-site, bulldozer loaded on truck and removed from site
- 1500 Plumbers off-site, pack up CAMP stations
- 1515 Dan Noll on-site to review SSDS system. Conduct walkthrough with Josh of Hamilton Stern.  
Discuss depressurization of stairwells.
- 1545 Off-site





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PROJECT Wollensack SHEET      OF       
PROJECT NO. 2182207 CALC. BY      DATE 1/14/20  
SUBJECT      SCALE       
CHECKED BY     

0645 J. Folger on-site

0700 Set up CAMP stations

0715 A. Brett on-site for J. Folger, CAMP set ups consisting/comprised below

| Dusttrucks | Run Mode   | PIDs (min-Rae 3000) | Location                       |
|------------|------------|---------------------|--------------------------------|
| FA02727    | Manual-003 | FA01644             | North near temp electric panel |
| FA02283    | Manual-005 | FA00918             | South site border              |
| FA01274    | Manual-011 | FA00345             | Indoors SW portion of building |

0730 Gas meter monitoring indoor air also used due to indoor equipment

use, measuring CO, H<sub>2</sub>S, O<sub>2</sub>, LEL  
(PPM) (PPM) (%) (%)

QRAE 3

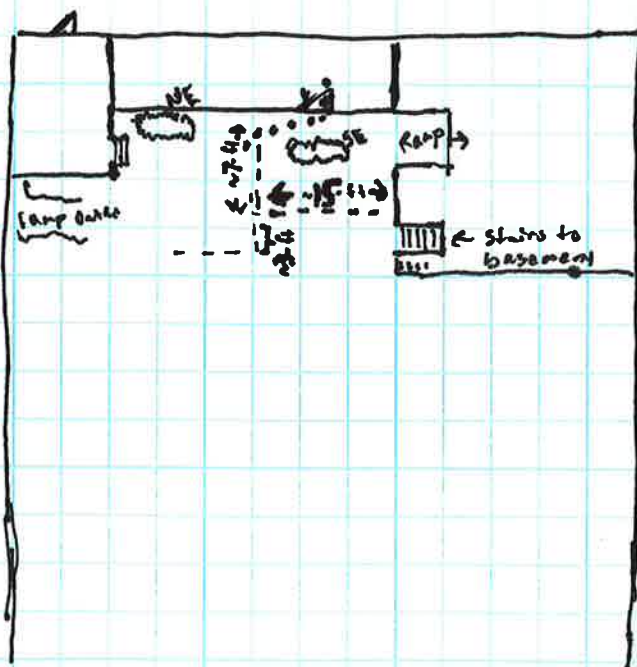
FA03226

0745 Contractor digging soil from trench for installation of SSDs piping (perforated pipe with sleeve to prevent rocks and dust inside). Minimal amounts of soil removed and added to stockpile. Digging/excavation completed with hand shovels, cuts in concrete already present.

0815 Backfilling around perforated pipe with pea stone gravel

0820 Contractor continuing removing small amounts of soil for placement of SSDs piping

0840 Contractor adding sleeves to piping and placing in trench, backfilling with pea stone. Pipe appears to be black corrugated pipe with perforations @ 4" diameter



- Soil pile
- Piping (perforated) for SSDs installed below current floor grade
- walk
- ===== Piping above current floor grade solid PVC that will be covered when floor grade will be brought up
- ||||| Stairs
- △ door or doorway
- Note: measurements of piping lengths are approximate
- ② Drawing not to scale

0900 Load of pea stone brought in with mini loader, QRAE 3 checked CO = 3 ppm  
Checking Dusttrucks and PIDs, all functioning with no exceedances  
Plumbers in meeting with Hamilton Stern

1045 Contractors sweeping up excess pea stone from floor, soil added to SE pile inside





- 0645 J. Folger on-site  
 0700 Set up CAMPs. Plumbers plan to clean up edges of concrete in preparation for concrete pouring  
 0815 Check CAMP stations. Downwind DustTruck not recording, flow issues. Reset unit, now working fine. All other stations okay  
 0915 Check CAMPs, all okay, plumbers preparing for concrete pouring: <sup>covering</sup> ~~covering~~ pipe ends, edging concrete  
 1030 CAMPs all okay, some dust generated by plumber activity, not excessive  
 1130 CAMP all okay  
 1215 CAMP all okay, plumbers starting to drill concrete for rebar, creating dust, still at acceptable levels  
 1330 CAMP upwind PID battery dead. No activity needing monitoring occurring outside. Plumbers continuing to drill and spread plastic in trenches  
 1430 Interior CAMP okay, dust ~~at~~ levels significantly decreased. Plumbers continuing to lay plastic  
 1500 Plumbers off-site, Pack up CAMPs  
 1515 J. Folger off-site

1/16/2020

- 0645 J. Folger on-site  
 0700 Set up CAMPs. Hamilton Stern prepping area around 1<sup>st</sup> floor sump for radiation remediation by Austin Masters. - expected around 0800  
 0800 Austin Master Services on-site. Cement truck for filling of plumbing trenches on-site  
 0815 Plumbing trenches beginning to be filled with concrete.  
 0915 Austin Master setting up. Will begin removal after concrete pouring is complete. Will begin setup at upstairs location while waiting  
 1000 Both exterior PID batteries dead. No activity requiring monitoring occurring outside  
 1100 Austin Master begins upstairs radioactive material removal  
 1130 Concrete pouring done  
 1330 Upstairs radioactive removal complete, Austin Master cleaning up work area  
 1400 AMS working on cleaning out downstairs sump  
 1445 Sump cleanup appears to be more contaminated than initially anticipated. Zircon sent in sump. Second floor passed screening. AMS taking down radioactive danger signs. Packing up first floor removal area, will resume tomorrow  
 1515 J. Folger off-site



## IW-5-09 Soil Log

| (ft)<br>Depth | TIME  | DATE   | PID<br>(ppm) | General Description                                           |
|---------------|-------|--------|--------------|---------------------------------------------------------------|
| 0-5           | 1435  | 2/3/20 | 2.7          | Brown, VF SAND & SILT; TRACE CLAY, moist, some F-SA-SR gravel |
| 5-10          | 1500  | 2/3/20 | 0.9          | Brown SILT; trace clay; trace F-VF SA-SR gravel moist.        |
| 10-15         | 0900  | 2/4/20 | 9.7          |                                                               |
| 15-21         | ~1030 | 2/4/20 | 32           |                                                               |

1445

| Workzone                     | upwind                       | Downwind                    | CO-0  | LEL-0   |
|------------------------------|------------------------------|-----------------------------|-------|---------|
| 0.004 $\text{mg}/\text{m}^3$ | 0.016 $\text{mg}/\text{m}^3$ | 0.05 $\text{mg}/\text{m}^3$ | H2S-0 | O2-20.9 |
| 0 ppm                        | Dead PID                     | 0 ppm                       |       |         |

1452 - Workzone Dust levels appear to be within our desired levels of  $< 0.150 \text{ mg}/\text{m}^3$

\*NOTE - USING WORKZONE PID to screen Soil.

1535 - Digging ends - Clean up CAMPS + WORK AREA

1600 - A. da Silva Leaves Site.

2/4/2020

34°F Cloudy

A. da Silva 43

0630 - A. da Silva @ office (Korak + Hours) } office Charge

0700 - A. da Silva on Site. Zero

calibrates all CAMPS (DUSTRACKS). Sets

up CAMPS By 0730

- There should be outdoor Excavation onsite today

for Sewer Line. A. da Silva will send update Email to PMS

0740 - Indoor Concrete ~~exterior~~ <sup>Asst</sup> Demolition of Stairs begins via Rock Environmental, May Cause Dust Buildup. They are Wetting Surfaces.

Dust levels increasing. A. da Silva Removes ply-wood windows on NE corner of Building.

0800 - w/ Ply wood windows down in NE & SW corners,

Dust levels in workzone hang around  $0.1 \text{ mg}/\text{m}^3$

- Differs on Site.

| Workzone                     | upwind                       | Downwind                     | CO-0  | LEL-0   |
|------------------------------|------------------------------|------------------------------|-------|---------|
| 0.106 $\text{mg}/\text{m}^3$ | 0.043 $\text{mg}/\text{m}^3$ | 0.051 $\text{mg}/\text{m}^3$ | H2S-0 | O2-20.9 |
| 0.0 PPM                      | 0 ppm                        | 0 ppm                        |       |         |

→ All Soil on site appears to be moist Due to Recent Melting of Snow. (Hamilton) Plans on using the Air Profiler Crusher Run for Back Fill.

0810 - Augering begins on <sup>(Continues)</sup> IW-5-09. Refer to Pg. 42 for Soil log.

0820 - Victor Excavation took (1) Excavator offsite.

Prepping for onsite Excavation of Sewer Line.

0845 - Workzone PID SPIKE, Some kind of ~~fraser~~ <sup>Sweet</sup> glue smell coming from North End of Building. NOT SOIL

- May Be Roof glue

Rite in the Rain.

1) 20 - Noticable Spike in work zone dust TRAIL white Rock Environment  
is being guiding steel near Stairways Addition  
Will take down an Additional Plywood window in SW Corner.

Top 1.5 - 2 ft are Black urban fill w/ cinders, slag, glass, metal, etc.  
TRACE Brick

↳ Soil Below 3 is silty Brown - light Brown SAND; trace - little clay; little VF - F sand gravel; some large stones 6" - 12" diameter. No odors

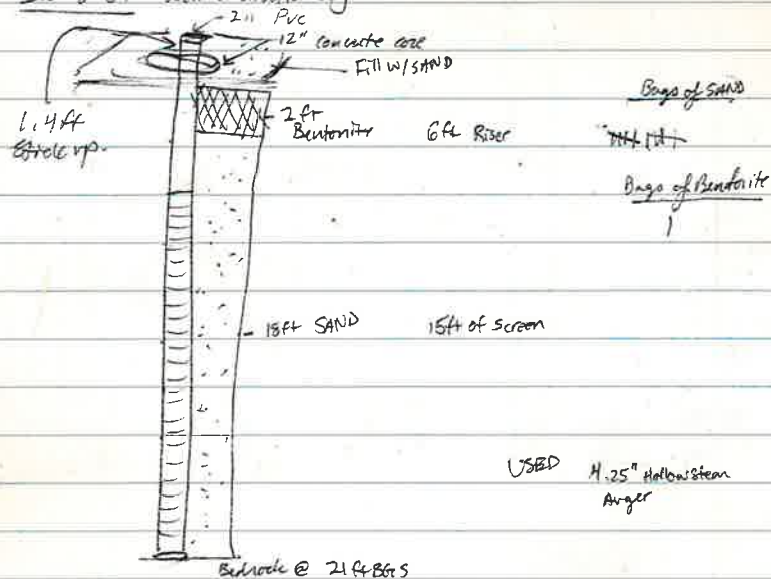
- 1-2 ft ~~stone~~<sup>ASPH</sup> of 1.5' 2" stone surrounds Piping
- Cr #2 (crusher Run) will be used for the Rest of Backfill

Rite in the Rain.

1131 - opening other Ply wood window appeared to mitigate dust levels.

- Excavation outside (onsite) for sewer line parallel for adding supports on sides.

### IW-S-09 Well construction Log



- 1150 - TRUCK load of <sup>Gravel (possible 1 1/2\"/></sup>

| 1225 Work Zone          | UPWIND                  | Downwind                | CO-5  | LEL-0 <sup>47</sup> |
|-------------------------|-------------------------|-------------------------|-------|---------------------|
| 0.041 mg/m <sup>3</sup> | 0.029 mg/m <sup>3</sup> | 0.030 mg/m <sup>3</sup> | H2S-0 | 05                  |
| 0.1 ppm                 | 0 ppm                   | 0 ppm                   |       | 20.9                |

1300 - STILL NO outside (onsite) excavation. They are trying Down Pipe

1315 - Start on IW-S-10. Moved it ~1 ft west to avoid footer.

- 1321 - ~6 yd<sup>3</sup> of 1 1/2\"/>

| 1330 Work Zone          | UPWIND                  | Downwind                | CO-  | LEL- |
|-------------------------|-------------------------|-------------------------|------|------|
| 0.032 mg/m <sup>3</sup> | 0.013 mg/m <sup>3</sup> | 0.027 mg/m <sup>3</sup> | H2S- | 02-  |
| 0 ppm                   | 0 ppm                   | 0 ppm                   |      |      |

1400 - while A. de Silva was at Drillers installing Truckers  
Dropped of. x2 Loads of Anker Run  
- Concrete Core <sup>for</sup> Extracted.

1410 - Decom on 4.25\"/>

1430 - Augering on IW-S-10 Begins

| Work Zone               | UPWIND                  | Downwind                | CO-0  | LEL-0   |
|-------------------------|-------------------------|-------------------------|-------|---------|
| 0.069 mg/m <sup>3</sup> | 0.009 mg/m <sup>3</sup> | 0.011 mg/m <sup>3</sup> | H2S-0 | 02-20.9 |
| 0.1 ppm                 | 0 ppm                   | 0 ppm                   |       |         |

| IW-S-10 Soil Log |      |        |         |                                                                     |
|------------------|------|--------|---------|---------------------------------------------------------------------|
| Depth            | Time | Date   | PID ppm | General Soil Description                                            |
| 0-5              | 15   | 9/4/20 | 0.3     | Brown, VF silty SAND; TRACE clay; Some LITTLE VF SA-SR2 gravel most |
| 5-10             | 15   | 9/4/20 | 6.1     | " most                                                              |
| 10-15            | 15   | 9/4/20 | 0.1     | "                                                                   |
| 15-21.3          | 15   | 9/4/20 | 18.0    | " Depth of well / Bedrock: 21.3 ft                                  |

Rite in the Rain.



1440 - ~~outdoor~~ <sup>ADD</sup> OUT DOOR (onsite sewerline) Excavation Ends for the day.

- Another load of Crusher Run on Site.

- A. dasilva takes Down out door CAMPS.

1520 - Appears as though any <sup>Workzone</sup> Dust levels above 0.150  $\mu\text{g}/\text{m}^3$  (and from Rock Environmental's Demolition of stairs (Angle Grinder + Concrete Breaking). Nothing can affect. Pictures were Taken.

1532 - Drilling ends - Cleaning up materials.

ADD

2/5/2020

A. dasilva

78°F Clear 49

0615 - A. dasilva Picks up Poly from LLC Shop.

0650 - A. dasilva on Site & sets up one (1) work zone (Drillings indoor) CAMP and Two (upwind & Downwind)

CAMPS for on site outdoor Sewage Excavation

| 0730       | workzone                       | upwind                         | Downwind                       | Co-2 ppm | LEL-O    |
|------------|--------------------------------|--------------------------------|--------------------------------|----------|----------|
| Background | 0.014 $\mu\text{g}/\text{m}^3$ | 0.006 $\mu\text{g}/\text{m}^3$ | 0.006 $\mu\text{g}/\text{m}^3$ | H2S-O    | 0.2-20.9 |
| Prevent    | 0 ppm                          | 0 ppm                          | 0 ppm                          |          |          |

The Door way CAMP is USED AS upwind CAMP.

0745 - Victor Excavation is getting Ready to mobilize and finish Sewer Excavation on North West corner of Site Building.

(Refer to Page 45 for on going details.)

0750 - wood Saw cutting in South East Corner inside Building may Create an optic in Dust for work zone CAMP.

As for Now, will need to sample Soil ATK for:

- Total VOC (TCL list)  $\rightarrow$  5035Kt

- TCLP VOC

- TCLP Metals

- Reactive cyanide & Sulfide

- PH

- Flashpoint.

0750 - Sewer Excavation Begins. Down wind PID will be used for Screening

85 - Drilling continues on IW-S-10

| 0830 - workzone                | upwind                         | Downwind                       | Co-3  | LEL-O    |
|--------------------------------|--------------------------------|--------------------------------|-------|----------|
| 0.063 $\mu\text{g}/\text{m}^3$ | 0.037 $\mu\text{g}/\text{m}^3$ | 0.004 $\mu\text{g}/\text{m}^3$ | H2S-O | 0.2-20.9 |
| 0.3 ppm                        | 0 ppm                          | 0 ppm                          |       |          |

Brick cutting near CAMP may cause Dust to increase

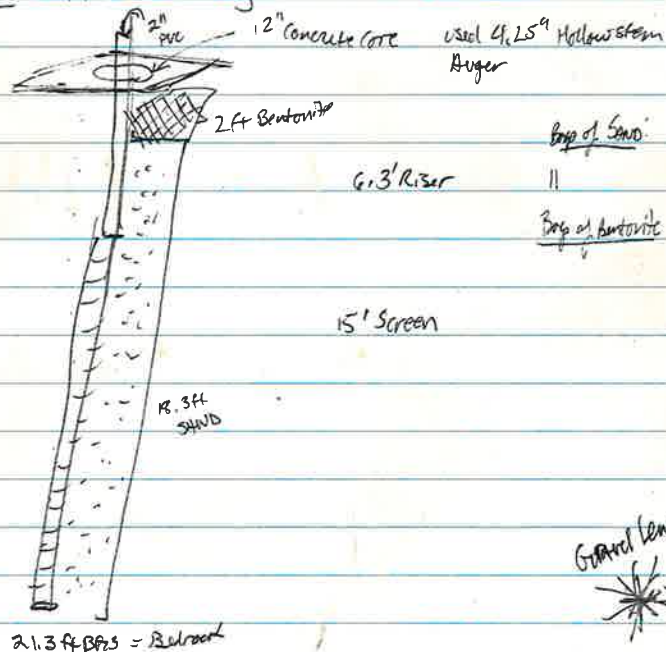
Rite in the Rain.

US 30 - Pioneer Excavation. Victor Excavation waiting for microbly to stage 971.

US 50 - Excavation Reverts.

|                         |                         |                         |       |         |
|-------------------------|-------------------------|-------------------------|-------|---------|
| 936 - work zone         | upwind                  | Downwind                | CO-0  | LEL-0   |
| 0.084 mg/m <sup>3</sup> | 0.018 mg/m <sup>3</sup> | 0.005 mg/m <sup>3</sup> | H2S-0 | CO-20.9 |
| 0.2 ppm                 | 0.1 ppm                 | 0.1 ppm                 |       |         |

### IW-S-10 well installation Log



|                         |                         |                         |       |         |
|-------------------------|-------------------------|-------------------------|-------|---------|
| 1020 work zone          | upwind                  | Downwind                | CO-0  | LEL-0   |
| 0.031 mg/m <sup>3</sup> | 0.004 mg/m <sup>3</sup> | 0.005 mg/m <sup>3</sup> | H2S-0 | CO-20.9 |
| 0.1 ppm                 | 0.1 ppm                 | 0.1 ppm                 |       |         |

1045 - IW-S-10 fully installed. 21.3ft Deep. 18.3ft SAND. 15ft Screen.  
2ft Bentonite.

1122 - Drillers mobilized to IW-S-11 Location (SE corner of Building)

- Drillers Decom. 425 Hollow stem Augers

|                         |                         |                         |       |         |
|-------------------------|-------------------------|-------------------------|-------|---------|
| 1130 work zone          | upwind                  | Downwind                | CO-0  | LEL-0   |
| 0.037 mg/m <sup>3</sup> | 0.004 mg/m <sup>3</sup> | 0.004 mg/m <sup>3</sup> | H2S-0 | CO-20.9 |
| 0.1 ppm                 | 0.1 ppm                 | 0.1 ppm                 |       |         |

1140 - Concrete Begins on IW-S-10  
Concrete Begins on IW-S-11 construction  
1300 - After Decom of Augers IW-S-11 Begins.

|                         |                         |                         |       |         |
|-------------------------|-------------------------|-------------------------|-------|---------|
| work zone               | upwind                  | Downwind                | CO-0  | LEL-0   |
| 0.044 mg/m <sup>3</sup> | 0.004 mg/m <sup>3</sup> | 0.006 mg/m <sup>3</sup> | H2S-0 | CO-20.9 |
| 0.1 ppm                 | Dead PID                | Dead PID                |       |         |

No Digging. Still setting Pipes. Pto's phased on charger.

### Soil Log for IW-S-11

| Depth (ft) | TIME | DATE   | PID (ppm) | General Description                                                   |
|------------|------|--------|-----------|-----------------------------------------------------------------------|
| 0-5        | 1320 | 2/5/20 | 6.9       | Brown to light Brown VF SAND & silt; trace clay. Some SA Fines; moist |
| 5-10       | 1404 | 2/5/20 | 1.6       | SAA 11                                                                |
| 10-15      | 1430 | 2/5/20 | 4.5       | SAA however ~ 1ft SA-SR M gravel lense @ ~ 13-14 ft                   |
| 15-21.7    | 15   | 2/5/20 | 4.5       | SAA - No stone/gravel                                                 |

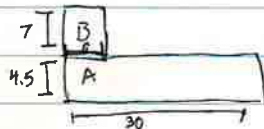
1310 - Victor Excavation has set pipes & is now adding 15ft 2' stone.

|                         |                         |                         |       |                  |
|-------------------------|-------------------------|-------------------------|-------|------------------|
| 1400 work zone          | upwind                  | Downwind                | CO-3  | LEL-0            |
| 0.106 mg/m <sup>3</sup> | 0.004 mg/m <sup>3</sup> | 0.013 mg/m <sup>3</sup> | H2S-0 | CO-20.9          |
| 0.3 ppm                 | 0.1 ppm                 | 0.1 ppm                 |       | Rite in the Rain |

$$A \quad 30 \times 4.5 \times 8 = 1080 \text{ ft}^3$$

$$B \quad 7 \times 5 \times 6 = 210 \text{ ft}^3 \quad \oplus = 1290 \text{ ft}^3$$

$$\sim 47.777 \text{ yd}^3$$



1410 - masons are taking wall down on Eastern wall. May  
Cause SPIKE in Dust.

1500 - Confirmed Excavation this end. Addition pushed upward  
& Down until CAUTIONS up.

1533 - Get to Bedrock @ 21.74 BGS for IW-5-11

1545 - End of Digging/wall install @ IW-5-11. The Rest will  
be set tomorrow.

It appears to be Spike on Dust TRAIL. Most likely  
From Electrician Sweeping Concrete dust.

1600 - Leaves Site

1700



2/26/2020

36 of Rain

A. de Salazar

111

0630 - Arriving @ office to pick up Camps

0645 - A. de Salazar on Site. Sets water up

0700 - Camps (Droptails) Zero calibrated

0730 - Camps Set up. x1 workzone x1 upwind of soil pit x1 downwind of soil pit

0805 - Unloading on Site. unloading supplies. 3 total Camps.

0830 - Concrete going on IW-5-8/IW-D-18 Begins.

0745 - Groundwater Taken  $\uparrow$  AKA RIMW-195/RIMW-19D

| ID      | GW (ft) | ID      | GW (ft) | Stick (ft) |
|---------|---------|---------|---------|------------|
| IW-5-01 | 10.45   | IW-5-13 | 10.2    |            |
| 02      | 10.58   | 14      | 10.6    |            |
| 03      | 10.96   | 15      | 10.34   |            |
| 04      | 9.6     | 16      | 10.46   |            |
| 05      | 10.36   | 17      | 10.14   |            |
| 06      | 10.33   | IW-D-07 | 11.16   |            |
| 07      | 10.73   | -08     | 9.88    |            |
| 08      | 10.36   | -12     | 10.21   |            |
| 09      | 11.01   | -13     | 11.32   |            |
| 10      | 11.25   | -14     | 11.04   |            |
| 11      | 11.08   | -15     | 11.42   |            |
| 12      | 10.74   | -16     | 11.61   |            |

- Excavation of Soil Begins

0730 - Camps Set up UPwind + Downwind of Soil Pit Being Excavated

0802 - Background, Downwind - Downwind

| Workzone                | Upwind                  | Downwind                | G-0   | LEC-0                 |
|-------------------------|-------------------------|-------------------------|-------|-----------------------|
| 0.063 mg/m <sup>3</sup> | 0.032 mg/m <sup>3</sup> | 0.035 mg/m <sup>3</sup> | H2S-0 | O <sub>2</sub> -20.9% |
| 0 ppm                   | 0 ppm                   | 0 ppm                   |       |                       |

Rite in the Rain

West to East.

Wind coming from Hudson Arc to East

-- Prior to Background Reading Workarea Dust Levels are high ~ 0.200  $\text{mg}/\text{m}^3$ . A dustfall will open SE W window for ventilation.

- Dump truck to Remove Soil

Riccelli Enterprises, IS DOT 918319 + 918319

- Hamilton is taking Care TA-402 TA-402 of TRUCK Manifests.

| 0900 - Workarea              | Upwind                       | Doorway                      | CO - 0  | LEL - 0               |
|------------------------------|------------------------------|------------------------------|---------|-----------------------|
| 0.145 $\text{mg}/\text{m}^3$ | 0.042 $\text{mg}/\text{m}^3$ | 0.031 $\text{mg}/\text{m}^3$ | H2S - 0 | O <sub>2</sub> - 20.9 |
| 0 ppm                        | 0 ppm                        | 0 ppm                        |         |                       |

0900 - Splice in PEX from Drillers spraying oil on drill shaft. ~ lasted about 20 seconds.

0910 - Labella HC (Rob Yager + Mike) on site to Set up Decor Pad.

0930 - Augering on IW-S-18/IW-D-18 Begins.

0910 - Excavation site

0920 - Offloading Soil Pile Begins.

0940 - Riccelli truck #13 Back for another load. <sup>Asol</sup> <sup>PS Lead</sup>  
Soil log IW-S-18/IW-D-15 ARA RIMW-145/RIMW-190

| DEPTH   | Date | Time | (FPM) | General description -                                                   |
|---------|------|------|-------|-------------------------------------------------------------------------|
| 0-5     | 2/26 | 1100 | 0.1   | Brown to Dark Brown, Silty, SAND; trace clay; L.H.V. F SA gravel quartz |
| 5-10    | 2/26 | 1235 | 0.5   | SAA But Brown - Tigerbone                                               |
| 10-15   | 2/26 | 1441 | 3.0   | SAA                                                                     |
| 15-20.7 | 2/27 | 940  | 16.2  | SAA + Trace Brite?                                                      |

1000 - 4 gal Purged from IW-D-16

1005 - Visible Dust from Masons <sup>Asol</sup> dropping wooden Planks. No dust from Auger. Moist soil, slow Auger spin.

| 1008 work area               | upwind                       | Doorway                      | CO - 0  | LEL - 0               |
|------------------------------|------------------------------|------------------------------|---------|-----------------------|
| 0.091 $\text{mg}/\text{m}^3$ | 0.036 $\text{mg}/\text{m}^3$ | 0.026 $\text{mg}/\text{m}^3$ | H2S - 0 | O <sub>2</sub> - 20.9 |
| 0.1 ppm                      | 0 ppm                        | 0 ppm                        |         |                       |

1014 - Masons over Coating dust using Hammer drill. A dustfall asked if they could attach a vacuum to it to Reduce Dust levels.

| 1100 work area               | upwind                       | Doorway                      | CO - 0  | LEL - 0               |
|------------------------------|------------------------------|------------------------------|---------|-----------------------|
| 0.058 $\text{mg}/\text{m}^3$ | 0.034 $\text{mg}/\text{m}^3$ | 0.033 $\text{mg}/\text{m}^3$ | H2S - 0 | O <sub>2</sub> - 20.9 |
| 0.1 ppm                      | 0 ppm                        | 0 ppm                        |         |                       |

1130 - 3 Loads of Soil <sup>Tested</sup> have been taken off site.

Manifests will be given to Hamilton.

| 1200 - work area             | upwind                      | Doorway                      | CO - 0  | LEL - 0               |
|------------------------------|-----------------------------|------------------------------|---------|-----------------------|
| 0.036 $\text{mg}/\text{m}^3$ | 0.03 $\text{mg}/\text{m}^3$ | 0.033 $\text{mg}/\text{m}^3$ | H2S - 0 | O <sub>2</sub> - 20.9 |
| 0.3 PPM                      | 0 ppm                       | 0 ppm                        |         |                       |

↳ Masons on Lunch Break.

↳ Excavator Crew Shovel for 5-6 Truck Loads. Not Filling all the way. All loading lighter loads due to Freezing/Rain Conditions?

1205 - Drillers on Break.

1236 - 4 gal Purged from IW-D-16

1343 - Excavation of Soil has Ended. Upwind Camp taken down & Doorway Placed Next to Building Entrance - Pictures taken.

Rite in the Rain.

1400 - Workzone      Driveway      0-0      161-0  
 0.038 <sup>mg</sup>/m<sup>3</sup>      0.033 <sup>mg</sup>/m<sup>3</sup>      H<sub>2</sub>S-0      O<sub>2</sub>-20.9  
 0.1 ppm      0 ppm

→ LLC (Carbide) & A. da Silva took drums through front door and set them on a 8'x14' Secondary Containment area in the South East West Corner of Building & Locked A Fence that was set up around the Chemical.

Pictures taken c. 72

1412 - Spike in CO. Plumbers were using Gas Saws to Cut Pipe. A. da Silva Had them open window/door for better ventilation. CO Levels decreased.

1414 - ~~At~~ Plumbers are finished using Saws

1520 - Dumped 1x Bucket full of soil in Roll off & Covered

1538 - Drilling Ends. CHMPs are locked up

1600 - A. da Silva leaves site after closing Plymouth Windows.

# Monthly Progress Reports





June 12, 2019

Charlotte Theobald  
NYS Department of Environmental Conservation  
6274 East Avon-Lima Road  
Avon, New York 14414

**RE: June 2019 Monthly Progress Report  
Former Wollensack Optical Site – C828209  
872 & 886 Hudson Avenue, Rochester, New York  
LaBella Project #2182207**

Dear Ms. Theobald,

LaBella Associates, D.P.C. (“LaBella”) is pleased to submit this Monthly Progress Report (MPR) associated with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site (BCP ID No. C828209) located at 872 & 886 Hudson Avenue, Rochester, New York, hereinafter referred to as the “Site.” Below is a summary of activities completed in the previous month (May) and planned for this month (June).

**Activities in Prior Month (May)**

- Based on comments received from the NYSDEC on March 14, 2019 for the Remedial Investigation Work Plan (RIWP) and subsequent discussions with the NYSDEC, the revised RIWP was submitted to the NYSDEC on April 4, 2019. In an effort to move forward with the project and after notifying the NYSDEC, portions of Task 2 of the RIWP (i.e., Floor Slab Evaluation) were completed the week of May 13, 2019. Activities completed as part of Task 2 included:
  - Sub-slab vapor screening – DRAFT PID measurement modeling is attached to this MPR. Final modeling will be included in the Remedial Investigation (RI) Report. The preliminary modeling indicates the highest sub-slab vapor VOC concentrations were measured in the southwestern quadrant of the building.
  - Floor penetration evaluation – The locations of several drains on the first floor of the Site building were documented. A plumbing subcontractor mobilized to the Site on May 16, 2019 but due to blockages in several of the drains, only one drain was able to be partially scoped. Dye testing could not be completed in any of the drains due to the blockages.
- Based on preliminary comments regarding Task 1 of the RIWP (Radiation Survey) received from the NYSDEC on April 24, 2019, Task 1 of the RIWP began on May 20, 2019 and was completed by Austin Master Services (AMS), a NYSDOH Radioactive Material Licensed contractor. AMS is currently drafting a report summarizing the scope completed and results of this survey; however, preliminary findings previously shared with the NYSDEC indicate elevated levels of radiation within a sump located on the first floor of the Site building and in one (1) approximately 3-feet (ft) by 3-ft area on the wooden floor surface of the third floor of the Site building.



- Seven (7) aboveground storage tanks (ASTs) were removed from the vault located immediately adjacent to the south of the Site on May 22, 2019. This vault was accessible through the Site building's basement and is located beneath the right-of-way (ROW) along Avenue D. During removal, the ASTs were observed to be generally empty and several of the ASTs were observed to have holes in them. The AST removal will be further documented in the RI Report.
- During a meeting at the Site with the contractors (Hamilton Stern Construction LLC and Rock Environmental) on May 24, 2019, a suspect underground storage tank (UST) fill port was observed in the northeastern portion of the Site (refer to attached Figure 2). Upon further inspection of this suspect fill port, this pipe does appear to be associated with an approximately 48-inch diameter UST with approximately 8.5-inches of oily water in the bottom of the tank. This UST is partially located beneath temporary electrical utilities recently installed as part of the Site redevelopment work and thus test pitting to further assess this UST could not be completed. Soil borings will be advanced to assess the subsurface in the vicinity of this UST during the RI.
- Received NYSDEC approval of RIWP on May 31, 2019.
- On June 4, 2019, Rock Environmental was breaking up a concrete pad located directly east of the Site building and an apparent UST was encountered beneath the pad (refer to attached Figure 2). Upon further inspection, this appears to be a 1,000-gallon UST with approximately 10-inches of oily water in the bottom of the tank. This UST appears to be surrounded by underground concrete walls potentially comprising a vault. Soil borings will be advanced to assess the subsurface in the vicinity of this UST during the RI.
- A Request for Importation of recycled concrete was submitted to the NYSDEC on May 22, 2019 and subsequently approved by the NYSDEC. Recycled concrete was imported to the Site on May 24, 2019 and placed on the Site surface to prevent tracking of soils due to wet conditions. This work included excavation of a few inches of soil in this area and placement of that soil in a pile on the eastern side of the Site. LaBella was on-site to implement the Community Air Monitoring Plan (CAMP) during this work.
- Following approval of the RIWP by the NYSDEC, soil borings were completed in the Site building basement per the RIWP. Based on the holes observed in the ASTs during their removal, a soil boring was also advanced through the vault's floor. Soil samples were submitted from each of the four (4) soil borings. AMS was on-site during this work and screened each boring with radiological detection equipment. Additional details regarding this work and associated results will be documented in the RI Report.
- A Request for Importation of #3A and #4A stone (i.e., cobbles) was submitted to the NYSDEC on May 30, 2019 and subsequently approved by the NYSDEC. This material was imported to the Site on June 10, 2019, and utilized to fill the former AST vault located immediately adjacent to the south of the Site, beneath the ROW (i.e., sidewalk).

#### **Activities Planned for this Month (June)**

- Implementation of much of the RIWP is planned to take place in June and July 2019. Please see the attached schedule for a detailed timeline of the anticipated RIWP activities.
- Submission to the NYSDEC of a work plan for sub-slab depressurization system (SSDS) design.



### **Sampling/Testing Results**

Laboratory data associated with the Site was not been received since the Site was enrolled in the BCP.

### **Unresolved Delays Encountered or Anticipated**

Unresolved delays have not been encountered nor are they anticipated at this time.

### **Percentage of Completion**

To date, the following key items have been completed as part of the BCP project:

- RIWP Approval
- Interim Site Management Plan submitted to NYSDEC/NYSDOH (pending approval)

### **Activities Undertaken in Support of the Citizen Participation Plan**

- A public comment period has been completed for the RIWP.
- A copy of this Monthly Progress Report will be submitted to the document repository.

If you have any questions or require additional information please do not hesitate to contact me at 585-295-6648.

Respectfully submitted,

**LaBella Associates**

Jennifer M. Gillen, PG  
Brownfield Remediation Program Manager

cc: Carolyn Vitale – Jefferson Wollensack LLC  
Amy Reichhart – Nixon Peabody LLP  
Chris Roland – Edgemere Development  
Arunesh Ghosh – NYSDOH  
Justin Deming – NYSDOH  
Joseph Biondolillo – City of Rochester DEQ  
John Frazer – MCHD  
Wade Silkworth – MCHD

**Attachments:**

DRAFT Figures

RIWP Implementation Schedule



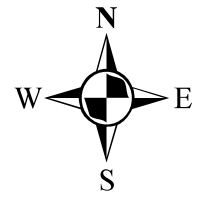


**Sub-slab vapor PID measurements**

**Concentration in parts per million (ppm)**

- 0.000000 - 5.000000
- 5.000001 - 15.000000
- 15.000001 - 25.000000
- 25.000001 - 35.000000
- 35.000001 - 45.000000
- 45.000001 - 55.000000
- 55.000001 - 65.000000

**DRAFT**



0 5 10  
Feet

1 inch = 10 feet

INTENDED TO PRINT AS: 11" X 17"

CLIENT:

PROJECT:

872 & 886 HUDSON AVENUE  
ROCHESTER, NEW YORK

DRAWING NAME:

SubSlab Screening  
Locations

**DRAFT**

PROJECT #/DRAWING #/ DATE

2181763

FIGURE 1

6/12/2019

**Legend**

- SubSlab PPB Screening Points
- Site Parcels

**NOTES:**

1) Property boundaries obtained from Monroe County GIS [DATE] and are considered approximate.

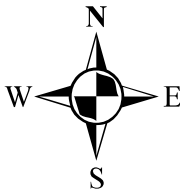
2) Aerial image obtained from Monroe County GIS [DATE] and may not represent current conditions.

3) Testing locations measured from Site features and are considered approximate.





DRAFT



0 15 30  
Feet  
1 inch = 30 feet

INTENDED TO PRINT AS: 11" X 17"

CLIENT:

PROJECT:

872 & 886 HUDSON AVENUE  
ROCHESTER, NEW YORK

DRAWING NAME:

DRAFT

PROJECT #/DRAWING #/ DATE

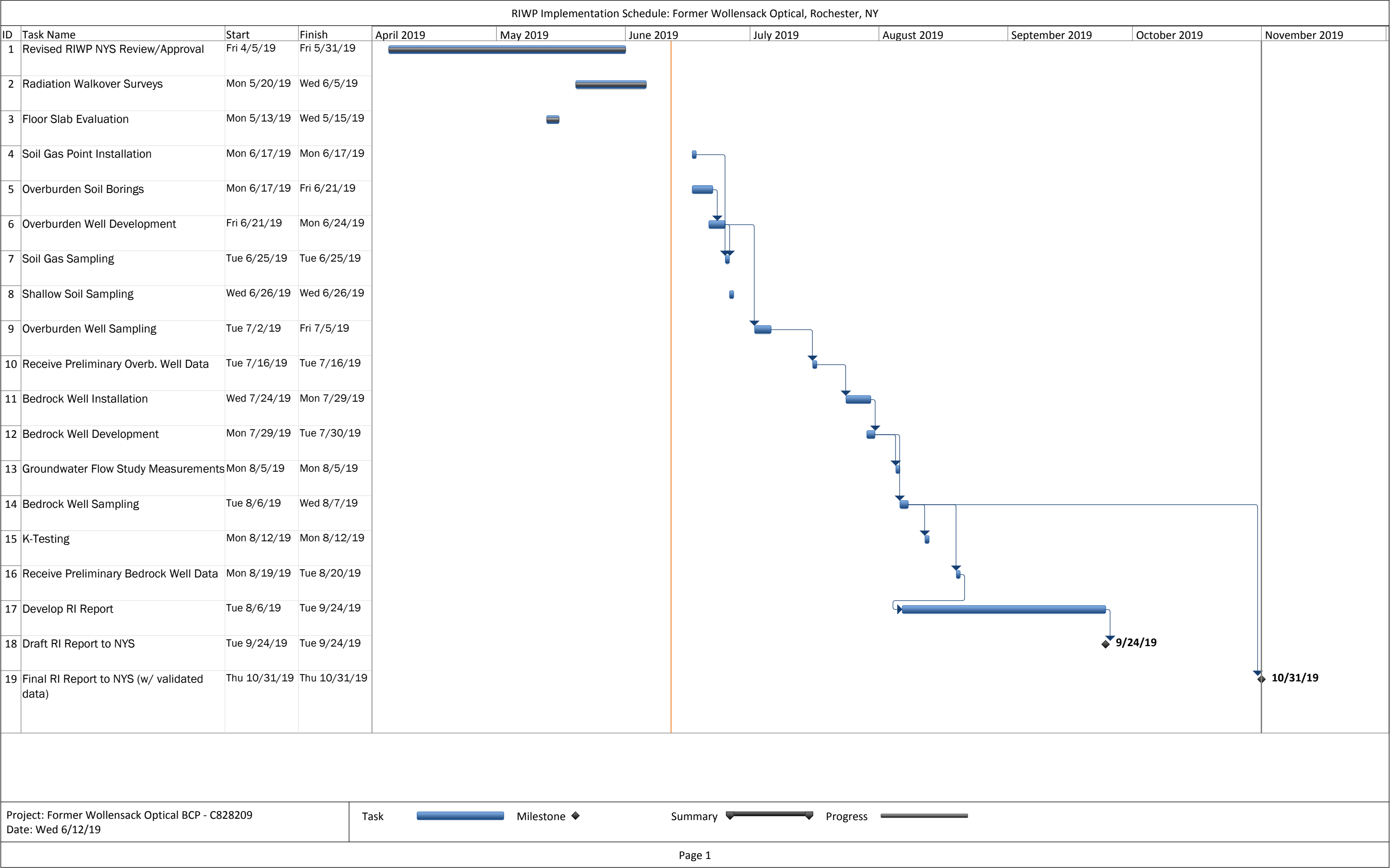
2181763

FIGURE 2

NOTES:

- 1) Property boundaries obtained from Monroe County GIS 2016 and are considered approximate.
- 2) April 2018 aerial image obtained from Pictometry International, Inc. and may not represent current conditions.
- 3) Testing locations measured using Arrow GPS and from Site features and are considered approximate.







January 14, 2020

Charlotte Theobald  
NYS Department of Environmental Conservation  
6274 East Avon-Lima Road  
Avon, New York 14414

**RE: December 2019 Monthly Progress Report  
Former Wollensack Optical Site – C828209  
872 & 886 Hudson Avenue, Rochester, New York  
LaBella Project #2182207**

Dear Ms. Theobald,

LaBella Associates, D.P.C. (“LaBella”) is pleased to submit this Monthly Progress Report (MPR) associated with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site (BCP ID No. C828209) located at 872 & 886 Hudson Avenue, Rochester, New York, hereinafter referred to as the “Site.” Below is a summary of activities completed in the previous month (December 2019) and planned for this month (January 2020).

#### **Activities in Prior Month (December 2019)**

- During a site visit by LaBella personnel on November 7, 2019 a fuel oil odor was noted in the building. LaBella discovered approximately 6-inches of water in the former boiler pit within the basement with less than 1-inch of apparent fuel oil floating on top of it. Based on this discovery, Spill #1907970 was opened with the NYSDEC. A vac truck was mobilized to the Site on November 13, 2019 and pumped the oil-water mixture from the Site. LaBella also completed test pitting around the exterior underground storage tank (UST) located immediately east of the basement. Test pits completed to the north, south and east of the UST did not identify significant evidence of impairment but soils directly below the UST could not be accessed at this time. The maximum PID reading measured was 30-ppm at 5-ft below ground surface (bgs) directly south of the UST.

The UST was accessed using the excavator and was found to have filled with apparent rainwater with 8-inches of oil floating on top of the water within the UST. When this UST was first discovered in June 2019, approximately 8.5-inches of oily water was observed in this tank. Refer to the June 2019 Monthly Progress Report for additional information.

Following discussions with the NYSDEC, the UST was properly removed on December 19-20, 2019. Approximately 25-cubic yards of impacted soil were excavated from the tank pit for off-site disposal at High Acres Landfill in Fairport, New York. Confirmatory samples collected from the tank pit did not identify targeted compounds above Site SCGs with the exception of acetone in one (1) sample slightly above the NYCRR Part 375 Unrestricted Use and Protection of Groundwater Soil Cleanup Objectives (SCOs). Data tables and the unvalidated laboratory report are attached to this letter. After excavation, impacted soils were staged in a lined roll-off dumpster and on poly-sheeting and covered with poly-sheeting. Waste characterization sampling was completed and a contained-in determination was approved by the NYSDEC on January 2, 2020. Impacted soils were disposed of at the landfill the week of January 6, 2020. This work will be further documented in a Construction Completion Report (CCR). The CCR will include all relevant disposal documentation.



- The basement floor was removed as part of redevelopment operations in November and December 2019. LaBella was on-site to implement the CAMP during this period and screen exposed soils in the basement. Evidence of impairment was not noted in soils below the basement floor slab at that time. A CCR will include a summary of this work as well as concrete recycling documentation.
- Trenching associated with plumbing and sub-slab depressurization system installation on the first floor of the building was completed in December 2019. Soils excavated as part of this work were sampled for reuse per DER-10 Section 5.4. These soils were approved for reuse by the Department on December 26, 2019 with the condition that the soils would be re-used beneath the building floor slab as the PFAS data has not yet been received for this material.
- Firebrick from beneath the former boiler in the building basement was previously identified to contain levels of radiological activity above background. This radiological activity was deemed to be associated with Naturally Occurring Radioactive Material (NORM) by the radiological consultant, Austin Master Services (AMS) during their radiological survey completed during the RI and not associated with a release at the Site. Following waste characterization and landfill approval, the firebrick was removed from the Site on January 6, 2020 for disposal at High Acres Landfill in Fairport, NY. Removal of this material and associated disposal documentation will be included in the CCR.
- Drums containing investigation derived waste (soil and water) generated during the RI were removed from the Site. To facilitate removal of these drums from the Site, any water from the drums was pumped to a holding tank on-site in November 2019 for waste characterization sampling and subsequent disposal. Following coordination with Monroe County Pure Waters regarding permitting and disposal, the water from this tank was transported via vac truck on January 6, 2020 to Monroe County's VanLare Treatment Plant in Irondequoit, NY. Soil drums were disposed of on December 31, 2019 following completion of a contained-in demonstration which was approved by the NYSDEC on December 22, 2019. Note that the Department's November 5, 2019 conditional approval letter for the Remedial Investigation Report allotted the Volunteer 30-days to remove these drums from the Site. However, following discussions with the Department regarding the Monroe County permitting process and need for the contained-in determination, the Department was made aware that the drums would be properly disposed of off-site but could not be removed within the 30-days timeframe.
- The NYSDEC's November 2019 conditional approval letter for the Interim Remedial Measure (IRM) requested a design document be submitted associated with the treatment wells and infrastructure to be installed at the Site. This document was submitted to the NYSDEC on January 7, 2020. Treatment well installation is scheduled to begin on January 20, 2020. The well installation will require approximately 1-month to complete.
- The following requests for import, request for reuse and contained-in determinations were approved by the Department in December 2019 (and early January 2020):

| Request Type       | Material - Source                  | Use                  | NYSDEC Approval Date |
|--------------------|------------------------------------|----------------------|----------------------|
| Request for Import | Crusher Run #2 – Dolomite Penfield | UST removal backfill | 12/18/2019           |
| Request for Import | #1 Washed Stone – Dolomite Palmyra | Plumbing bedding     | 12/23/2020           |



| Request Type               | Material - Source                                       | Use                                                     | NYSDEC Approval Date |
|----------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------------|
| Request for Import         | Crusher Run #2 and 1&2 Stone - Dolomite Penfield        | Parking subbase and utility bedding                     | 1/13/2020            |
| Request for Reuse          | Soil from excavation of interior plumbing trenches      | Backfill in interior plumbing trenches below floor slab | 12/23/2019           |
| Contained-In Determination | Investigation derived waste (soil drums)                | NA                                                      | 12/26/2019           |
| Contained-In Determination | Top 2-ft of soil in future parking lot footprint        | NA                                                      | 12/30/2019           |
| Contained-In Determination | Petroleum-impacted soils from December 2019 UST Removal | NA                                                      | 1/2/2020             |

#### Activities Planned for this Month (January)

- Completion of the following additional RI activities identified in the Department's November 5, 2019 RI Report conditional approval letter and described in LaBella's November 8, 2019 clarification letter. This work will be completed in accordance with the RIWP.
  - Collection of shallow soil sample COMP-SS-01 (0-2-inches) for SPLP PFAS analysis.
  - Sampling of well SB-MW-10 for TCL & CP-51 VOCs and TICs.
  - Sampling of wells BW-01, BW-02 and BW-03 for full-suite parameters.
  - Collection of a round of static water levels and completion of NAPL gauging during these measurements.
- Decommissioning of former well/boring SB-17 in accordance with CP-43. This boring was advanced in 2018 as part of the initial Phase II ESA. The boring could not be advanced past 8-ft below ground surface (bgs) and groundwater was never encountered in it.
- Installation of the sub-slab depressurization system (SSDS) within the building. The Volunteer understands the SSDS Work Plan submitted to the Department in June 2019 has not yet been approved by the Department.
- Excavation of parking lot footprint and placement of stone in this area as well as installation of underground utilities, primarily sewers. Asphalt paving is planned to occur later in 2020. The ISMP will continue to be implemented during all earthwork at the Site.
- Completion of radiation remediation by AMS per the approved IRM Work Plan.

#### Sampling/Testing Results

- The currently unvalidated data report for confirmatory sample data for the December 2019 UST removal as well as data summary tables (Table 1A and 1B) are attached to this MPR.
- Data associated with the various request for reuse, request of importation and contained-in determination were previously submitted under separate cover and will be included in the CCR.



### **Unresolved Delays Encountered or Anticipated**

Unresolved delays have not been encountered nor are they anticipated at this time.

### **Percentage of Completion**

To date, the following key items have been completed as part of the BCP project:

- RIWP Approval
- Interim Site Management Plan submitted to NYSDEC/NYSDOH (pending approval)
- SSDS Work Plan submitted to NYSDEC/NYSDOH (pending approval)
- RI Report Approval
- IRM Work Plan Approval
- IRM RAOC #1 Design Document submitted to NYSDEC/NYSDOH (pending approval)

### **Activities Undertaken in Support of the Citizen Participation Plan**

- Public comment periods have been completed for the RIWP and the IRM Work Plan.
- A copy of this Monthly Progress Report will be submitted to the document repository.

If you have any questions or require additional information please do not hesitate to contact me at 585-295-6648.

Respectfully submitted,

**LaBella Associates**

Jennifer M. Gillen, PG  
Brownfield Remediation Program Manager

cc: Carolyn Vitale – Jefferson Wollensack LLC  
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**Attachments:**

Unvalidated Laboratory Data & Data Summary Tables – UST Removal Confirmatory Samples





Table 1A  
Former Wollensack Optical, NYSDEC BCP #C828209  
872 & 886 Hudson Ave, Rochester, New York  
Confirmatory Sample Data - Eastern UST Removal - Volatile Organic Compounds  
LaBella Project # 2182207

| SAMPLE ID:                  | NYCRR Part 375<br>Unrestricted Use<br>SCOs | NYCRR Part 375<br>Restricted<br>Residential Use<br>SCOs | NYCRR Part 375<br>Protection of<br>Groundwater SCOs | New York DEC<br>CP-51 Soil<br>Cleanup Levels | TANK-BOT-122019 |    | TANK-EAST-122019 |   | TANK-NORTH-122019 |   | TANK-SOUTH-122019 |    | DUP-01-122019 (Parent<br>= South) |    | TANK-WEST-122019 |    |
|-----------------------------|--------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|-----------------|----|------------------|---|-------------------|---|-------------------|----|-----------------------------------|----|------------------|----|
| SAMPLE TYPE                 |                                            |                                                         |                                                     |                                              | BOTTOM          |    | SIDEWALL         |   | SIDEWALL          |   | SIDEWALL          |    | SIDEWALL                          |    | SIDEWALL         |    |
| COLLECTION DATE:            |                                            |                                                         |                                                     |                                              | 12/20/2019      |    | 12/20/2019       |   | 12/20/2019        |   | 12/20/2019        |    | 12/20/2019                        |    | 12/20/2019       |    |
| SAMPLE DEPTH (bgs):         |                                            |                                                         |                                                     |                                              | 11'             |    | 10'              |   | 8'                |   | 8'                |    | 8'                                |    | 8'               |    |
|                             |                                            |                                                         |                                                     |                                              | Conc            | Q  | Conc             | Q | Conc              | Q | Conc              | Q  | Conc                              | Q  | Conc             | Q  |
| Volatile Organic Compounds  |                                            |                                                         |                                                     |                                              |                 |    |                  |   |                   |   |                   |    |                                   |    |                  |    |
| 1,1,1-Trichloroethane       | 0.68                                       | 100                                                     | 0.68                                                | NL                                           | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.12             | UD |
| 1,1,2,2-Tetrachloroethane   | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.12             | UD |
| 1,1,2-Trichloroethane       | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| 1,1-Dichloroethane          | 0.27                                       | 26                                                      | 0.27                                                | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| 1,1-Dichloroethene          | 0.33                                       | 100                                                     | 0.33                                                | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| 1,2,4-Trichlorobenzene      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| 1,2,4-Trimethylbenzene      | 3.6                                        | 52                                                      | 3.6                                                 | 3.6                                          | 0.23            | UD | 0.0012           | J | 0.0017            | U | 0.38              |    | 1.8                               | D  | 2.5              | D  |
| 1,2-Dibromo-3-chloropropane | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.35            | UD | 0.0025           | U | 0.0025            | U | 0.29              | UD | 0.61                              | UD | 0.7              | UD |
| 1,2-Dibromoethane           | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| 1,2-Dichlorobenzene         | 1.1                                        | 100                                                     | 1.1                                                 | NL                                           | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| 1,2-Dichloroethane          | 0.02                                       | 3.1                                                     | 0.02                                                | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| 1,2-Dichloropropane         | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| 1,3,5-Trimethylbenzene      | 8.4                                        | 52                                                      | 8.4                                                 | NL                                           | 0.23            | UD | 0.0002           | J | 0.0017            | U | 0.058             | J  | 0.25                              | JD | 0.44             | JD |
| 1,3-Dichlorobenzene         | 2.4                                        | 49                                                      | 2.4                                                 | NL                                           | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| 1,4-Dichlorobenzene         | 1.8                                        | 13                                                      | 1.8                                                 | NL                                           | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| 2-Butanone                  | 0.12                                       | 100                                                     | 0.12                                                | NL                                           | 1.2             | UD | 0.0082           | U | 0.0083            | U | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| 2-Hexanone                  | NL                                         | NL                                                      | NL                                                  | NL                                           | 1.2             | UD | 0.0082           | U | 0.0083            | U | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| 4-Methyl-2-pentanone        | NL                                         | NL                                                      | NL                                                  | NL                                           | 1.2             | UD | 0.0082           | U | 0.0083            | U | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| Acetone                     | 0.05                                       | 100                                                     | 0.05                                                | NL                                           | 1.2             | UD | 0.0082           | U | 0.064             |   | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| Benzene                     | 0.06                                       | 4.8                                                     | 0.06                                                | 0.06                                         | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.12             | UD |
| Bromodichloromethane        | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.12             | UD |
| Bromoform                   | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.46            | UD | 0.0033           | U | 0.0033            | U | 0.39              | UD | 0.82                              | UD | 0.93             | UD |
| Bromomethane                | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| Carbon disulfide            | NL                                         | NL                                                      | NL                                                  | NL                                           | 1.2             | UD | 0.0082           | U | 0.0083            | U | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| Carbon tetrachloride        | 0.76                                       | 2.4                                                     | 0.76                                                | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| Chlorobenzene               | 1.1                                        | 100                                                     | 1.1                                                 | NL                                           | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.12             | UD |
| Chloroethane                | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| Chloroform                  | 0.37                                       | 49                                                      | 0.37                                                | NL                                           | 0.17            | UD | 0.0012           | U | 0.00029           | J | 0.14              | UD | 0.31                              | UD | 0.35             | UD |
| Chloromethane               | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.46            | UD | 0.0033           | U | 0.0033            | U | 0.39              | UD | 0.82                              | UD | 0.93             | UD |
| cis-1,2-Dichloroethene      | 0.25                                       | 100                                                     | 0.25                                                | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| cis-1,3-Dichloropropene     | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.12             | UD |
| Cyclohexane                 | NL                                         | NL                                                      | NL                                                  | NL                                           | 1.2             | UD | 0.0082           | U | 0.0083            | U | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| Dibromochloromethane        | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| Dichlorodifluoromethane     | NL                                         | NL                                                      | NL                                                  | NL                                           | 1.2             | UD | 0.0082           | U | 0.0083            | U | 0.97              | UD | 2                                 | UD | 2.3              | UD |
| Ethylbenzene                | 1                                          | 41                                                      | 1                                                   | 1                                            | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| Freon-113                   | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.46            | UD | 0.0033           | U | 0.0033            | U | 0.39              | UD | 0.82                              | UD | 0.93             | UD |
| Isopropylbenzene            | NL                                         | NL                                                      | NL                                                  | 2.3                                          | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| Methyl Acetate              | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.46            | UD | 0.0033           | U | 0.0016            | J | 0.39              | UD | 0.82                              | UD | 0.93             | UD |
| Methyl cyclohexane          | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.46            | UD | 0.0033           | U | 0.0033            | U | 0.39              | UD | 0.82                              | UD | 0.93             | UD |
| Methyl tert butyl ether     | 0.93                                       | 100                                                     | 0.93                                                | 0.93                                         | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| Methylene chloride          | 0.05                                       | 100                                                     | 0.05                                                | NL                                           | 0.58            | UD | 0.0041           | U | 0.0042            | U | 0.48              | UD | 1                                 | UD | 1.2              | UD |
| n-Butylbenzene              | 12                                         | 100                                                     | 12                                                  | 12                                           | 0.031           | JD | 0.00077          | J | 0.00083           | U | 0.38              |    | 1.4                               | D  | 0.98             | D  |
| n-Propylbenzene             | 3.9                                        | 100                                                     | 3.9                                                 | 3.9                                          | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.047                             | JD | 0.06             | JD |
| Naphthalene                 | 12                                         | 100                                                     | 12                                                  | 12                                           | 1.6             | D  | 0.009            |   | 0.0033            | U | 2.2               |    | 10                                | D  | 6.3              | D  |
| o-Xylene                    | NL                                         | NL                                                      | NL                                                  | 0.26                                         | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| p-Isopropyltoluene          | NL                                         | NL                                                      | NL                                                  | 10                                           | 0.12            | UD | 0.00031          | J | 0.00083           | U | 0.09              | J  | 0.39                              | D  | 0.44             | D  |
| p/m-Xylene                  | NL                                         | NL                                                      | NL                                                  | 0.26                                         | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| sec-Butylbenzene            | 11                                         | 100                                                     | 11                                                  | 11                                           | 0.12            | UD | 0.00017          | J | 0.00083           | U | 0.049             | J  | 0.2                               | D  | 0.27             | D  |
| Styrene                     | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| tert-Butylbenzene           | 5.9                                        | 100                                                     | 5.9                                                 | 5.9                                          | 0.23            | UD | 0.0016           | U | 0.0017            | U | 0.19              | UD | 0.41                              | UD | 0.47             | UD |
| Tetrachloroethene           | 1.3                                        | 19                                                      | 1.3                                                 | NL                                           | 0.058           | UD | 0.00041          | U | 0.00042           | U | 0.048             | UD | 0.1                               | UD | 0.079            | JD |
| Toluene                     | 0.7                                        | 100                                                     | 0.7                                                 | 0.7                                          | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| trans-1,2-Dichloroethene    | 0.19                                       | 100                                                     | 0.19                                                | NL                                           | 0.17            | UD | 0.00043          | J | 0.0012            | U | 0.14              | UD | 0.31                              | UD | 0.35             | UD |
| trans-1,3-Dichloropropene   | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| Trichloroethene             | 0.47                                       | 21                                                      | 0.47                                                | NL                                           | 0.058           | UD | 0.00041          | U | 0.00082           |   | 0.031             | JD | 0.1                               | UD | 0.15             | D  |
| Trichlorofluoromethane      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.46            | UD | 0.0033           | U | 0.0033            | U | 0.39              | UD | 0.82                              | UD | 0.93             | UD |
| Vinyl chloride              | 0.02                                       | 0.9                                                     | 0.02                                                | NL                                           | 0.12            | UD | 0.00082          | U | 0.00083           | U | 0.097             | UD | 0.2                               | UD | 0.23             | UD |
| Total VOCs                  | -                                          | -                                                       | -                                                   | -                                            | 1.631           | D  | 0.01208          |   | 0.06671           |   | 3.188             | D  | 14.087                            | D  | 11.219           | D  |
| Total TIC Compounds         | -                                          | -                                                       | -                                                   | -                                            | 29.2            | JD | 1.34             | J | 0.0747            | J | 44.9              | JD | 212                               | JD | 144              | JD |
| TOTAL VOCs + TICs           | -                                          | -                                                       | -                                                   | -                                            | 30.831          | D  | 1.35208          |   | 0.14141           |   | 48.088            | D  | 226.087                           | D  | 155.219          | D  |

NOTES:  
All values displayed in milligrams per kilograms (mg/kg) or parts per million (ppm).  
"NL" indicates Not Listed.  
"U" indicates the compound was not detected above the indicated laboratory method detection limit (MDL).  
"D" indicates the sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.  
"J" indicates an estimated value.  
*Italicised font indicates the compound was detected above the MDL but did not exceed any Soil Cleanup Objective (SCO).*  
Single Underline indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective (SCO).  
Red font indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Restricted Residential Use SCO.  
Yellow highlight indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Protection of Groundwater SCO.  
Double underline indicates that the compound was detected at a concentration above its respective New York DEC Commissioner's Policy-51 (CP-51) Soil Cleanup Levels.  
VOCs analyzed by USEPA Method 8260.



Table 1B  
Former Wollensack Optical, NYSDEC BCP #C828209  
872 & 886 Hudson Ave, Rochester, New York  
Confirmatory Sample Data - Eastern UST Removal - Semi-Volatile Organic Compounds  
LaBella Project # 2182207

| SAMPLE ID:                      | NYCRR Part 375<br>Unrestricted Use<br>SCOs | NYCRR Part 375<br>Restricted<br>Residential Use<br>SCOs | NYCRR Part 375<br>Protection of<br>Groundwater SCOs | New York DEC<br>CP-51 Soil<br>Cleanup Levels | TANK-BOT-122019 |   | TANK-EAST-122019 |   | TANK-NORTH-122019 |   | TANK-SOUTH-122019 |    | DUP-01-122019 (Parent<br>= South) |    | TANK-WEST-122019 |    |
|---------------------------------|--------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|-----------------|---|------------------|---|-------------------|---|-------------------|----|-----------------------------------|----|------------------|----|
| SAMPLE TYPE                     |                                            |                                                         |                                                     |                                              | BOTTOM          |   | SIDEWALL         |   | SIDEWALL          |   | SIDEWALL          |    | SIDEWALL                          |    | SIDEWALL         |    |
| COLLECTION DATE:                |                                            |                                                         |                                                     |                                              | 12/20/2019      |   | 12/20/2019       |   | 12/20/2019        |   | 12/20/2019        |    | 12/20/2019                        |    | 12/20/2019       |    |
| SAMPLE DEPTH (bgs):             |                                            |                                                         |                                                     |                                              | 11'             |   | 10'              |   | 8'                |   | 8'                |    | 8'                                |    | 8'               |    |
|                                 |                                            |                                                         |                                                     |                                              | Conc            | Q | Conc             | Q | Conc              | Q | Conc              | Q  | Conc                              | Q  | Conc             | Q  |
| Semi-volatile Organic Compounds |                                            |                                                         |                                                     |                                              |                 |   |                  |   |                   |   |                   |    |                                   |    |                  |    |
| 1,2,4,5-Tetrachlorobenzene      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2,3,4,6-Tetrachlorophenol       | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2,4,5-Trichlorophenol           | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2,4,6-Trichlorophenol           | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.12            | U | 0.11             | U | 0.12              | U | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| 2,4-Dichlorophenol              | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.18            | U | 0.17             | U | 0.17              | U | 0.85              | UD | 0.83                              | UD | 1.8              | UD |
| 2,4-Dimethylphenol              | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2,4-Dinitrophenol               | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.96            | U | 0.89             | U | 0.93              | U | 4.6               | UD | 4.4                               | UD | 9.6              | UD |
| 2,4-Dinitrotoluene              | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2,6-Dinitrotoluene              | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2-Chloronaphthalene             | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2-Chlorophenol                  | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2-Methylnaphthalene             | NL                                         | NL                                                      | NL                                                  | NL                                           | 1.2             |   | 0.22             | U | 0.23              | U | 15                | D  | 18                                | D  | 30               | D  |
| 2-Methylphenol                  | 0.33                                       | 100                                                     | 0.33                                                | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2-Nitroaniline                  | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 2-Nitrophenol                   | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.43            | U | 0.4              | U | 0.42              | U | 2                 | UD | 2                                 | UD | 4.3              | UD |
| 3,3'-Dichlorobenzidine          | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 3-Methylphenol/4-Methylphenol   | 0.33                                       | 100                                                     | 0.33                                                | NL                                           | 0.29            | U | 0.27             | U | 0.28              | U | 1.4               | UD | 1.3                               | UD | 2.9              | UD |
| 3-Nitroaniline                  | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 4,6-Dinitro-o-cresol            | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.52            | U | 0.48             | U | 0.5               | U | 2.5               | UD | 2.4                               | UD | 5.2              | UD |
| 4-Bromophenyl phenyl ether      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 4-Chloroaniline                 | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 4-Chlorophenyl phenyl ether     | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 4-Nitroaniline                  | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| 4-Nitrophenol                   | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.28            | U | 0.26             | U | 0.27              | U | 1.3               | UD | 1.3                               | UD | 2.8              | UD |
| Acenaphthene                    | 20                                         | 100                                                     | 98                                                  | 20                                           | 0.042           | J | 0.15             | U | 0.16              | U | 0.46              | JD | 0.5                               | JD | 1.3              | JD |
| Acenaphthylene                  | 100                                        | 100                                                     | 107                                                 | 100                                          | 0.16            | U | 0.15             | U | 0.16              | U | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Acetophenone                    | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Anthracene                      | 100                                        | 100                                                     | 1000                                                | 100                                          | 0.12            | U | 0.11             | U | 0.12              | U | 0.57              | UD | 0.55                              | UD | 0.52             | JD |
| Atrazine                        | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.16            | U | 0.15             | U | 0.16              | U | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Benzaldehyde                    | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.26            | U | 0.24             | U | 0.26              | U | 1.2               | UD | 1.2                               | UD | 2.6              | UD |
| Benzo(a)anthracene              | 1                                          | 1                                                       | 1                                                   | 1                                            | 0.12            | U | 0.11             | U | 0.064             | J | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Benzo(a)pyrene                  | 1                                          | 1                                                       | 22                                                  | 1                                            | 0.16            | U | 0.15             | U | 0.16              | U | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Benzo(b)fluoranthene            | 1                                          | 1                                                       | 1.7                                                 | 1                                            | 0.12            | U | 0.11             | U | 0.062             | J | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Benzo(ghi)perylene              | 100                                        | 100                                                     | 1000                                                | 100                                          | 0.16            | U | 0.15             | U | 0.033             | J | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Benzo(k)fluoranthene            | 0.8                                        | 3.9                                                     | 1.7                                                 | 0.8                                          | 0.12            | U | 0.11             | U | 0.12              | U | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Biphenyl                        | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.16            | J | 0.42             | U | 0.44              | U | 1.7               | JD | 2.1                               | D  | 3.7              | JD |
| Bis(2-chloroethoxy)methane      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.22            | U | 0.2              | U | 0.21              | U | 1                 | UD | 1                                 | UD | 2.2              | UD |
| Bis(2-chloroethyl)ether         | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.18            | U | 0.17             | U | 0.17              | U | 0.85              | UD | 0.83                              | UD | 1.8              | UD |
| Bis(2-chloroisopropyl)ether     | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.24            | U | 0.22             | U | 0.23              | U | 1.1               | UD | 1.1                               | UD | 2.4              | UD |
| Bis(2-ethylhexyl)phthalate      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Butyl benzyl phthalate          | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Caprolactam                     | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Carbazole                       | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Chrysene                        | 1                                          | 3.9                                                     | 1                                                   | 1                                            | 0.12            | U | 0.11             | U | 0.053             | J | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Di-n-butylphthalate             | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Di-n-octylphthalate             | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Dibenzo(a,h)anthracene          | 0.33                                       | 0.33                                                    | 1000                                                | 0.33                                         | 0.12            | U | 0.11             | U | 0.12              | U | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Dibenzofuran                    | 7                                          | 59                                                      | 210                                                 | NL                                           | 0.074           | J | 0.18             | U | 0.19              | U | 0.73              | JD | 0.87                              | JD | 1.5              | JD |
| Diethyl phthalate               | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Dimethyl phthalate              | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Fluoranthene                    | 100                                        | 100                                                     | 1000                                                | 100                                          | 0.12            | U | 0.11             | U | 0.13              |   | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Fluorene                        | 30                                         | 100                                                     | 386                                                 | 30                                           | 0.098           | J | 0.18             | U | 0.19              | U | 0.98              | D  | 1.2                               | D  | 2.5              | D  |
| Hexachlorobenzene               | 0.33                                       | 1.2                                                     | 3.2                                                 | NL                                           | 0.12            | U | 0.11             | U | 0.12              | U | 0.57              | UD | 0.55                              | UD | 1.2              | UD |
| Hexachlorobutadiene             | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Hexachlorocyclopentadiene       | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.57            | U | 0.53             | U | 0.56              | U | 2.7               | UD | 2.6                               | UD | 5.7              | UD |
| Hexachloroethane                | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.16            | U | 0.15             | U | 0.16              | U | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Indeno(1,2,3-cd)pyrene          | 0.5                                        | 0.5                                                     | 8.2                                                 | 0.5                                          | 0.16            | U | 0.15             | U | 0.035             | J | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Isophorone                      | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.18            | U | 0.17             | U | 0.17              | U | 0.85              | UD | 0.83                              | UD | 1.8              | UD |
| n-Nitrosodi-n-propylamine       | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Naphthalene                     | 12                                         | 100                                                     | 12                                                  | 12                                           | 0.21            |   | 0.18             | U | 0.19              | U | 2.6               | D  | 3.2                               | D  | 5.5              | D  |
| NDPA/DPA                        | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.16            | U | 0.15             | U | 0.16              | U | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Nitrobenzene                    | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.18            | U | 0.17             | U | 0.17              | U | 0.85              | UD | 0.83                              | UD | 1.8              | UD |
| p-Chloro-m-cresol               | NL                                         | NL                                                      | NL                                                  | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Pentachlorophenol               | 0.8                                        | 6.7                                                     | 0.8                                                 | NL                                           | 0.16            | U | 0.15             | U | 0.16              | U | 0.76              | UD | 0.74                              | UD | 1.6              | UD |
| Phenanthrene                    | 100                                        | 100                                                     | 1000                                                | 100                                          | 0.22            |   | 0.11             | U | 0.079             | J | 2.3               | D  | 2.6                               | D  | 5.1              | D  |
| Phenol                          | 0.33                                       | 100                                                     | 0.33                                                | NL                                           | 0.2             | U | 0.18             | U | 0.19              | U | 0.95              | UD | 0.92                              | UD | 2                | UD |
| Pyrene                          | 100                                        | 100                                                     | 1000                                                | 100                                          | 0.02            | J | 0.11             | U | 0.11              | J | 0.096             | JD | 0.13                              | JD | 0.4              | JD |
| Total SVOCs                     | -                                          | -                                                       | -                                                   | -                                            | 2.024           |   | -                |   | 0.566             |   | 23.866            | D  | 28.6                              | D  | 50.52            | D  |
| Total TIC Compounds             | -                                          | -                                                       | -                                                   | -                                            | 23.3            | J | -                |   | -                 |   | 198               | JD | 276                               | JD | 646              | JD |
| TOTAL SVOCs + TICs              | -                                          | -                                                       | -                                                   | -                                            | 25.324          |   | 0                |   | 0.566             |   | 221.866           | D  | 304.6                             | D  | 696.52           | D  |

NOTES:  
All values displayed in milligrams per kilograms (mg/kg) or parts per million (ppm).  
"NL" indicates Not Listed.  
"U" indicates the compound was not detected above the indicated laboratory method detection limit (MDL).  
"D" indicates the sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.  
"J" indicates an estimated value.  
*Italicised font indicates the compound was detected above the MDL but did not exceed any Soil Cleanup Objective (SCO).*  
Single Underline indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective (SCO).  
Red font indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Restricted Residential Use SCO.  
Yellow highlight indicates that the compound was detected at a concentration above its respective NYCRR Part 375-6.8(b) Protection of Groundwater SCO.  
Double underline indicates that the compound was detected at a concentration above its respective New York DEC Commissioner's Policy-51 (CP-51) Soil Cleanup Levels.  
SVOCs analyzed by USEPA Method 8270.





## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L1961284                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 12/30/19                                                                         |

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Alpha<br>Sample ID | Client ID              | Matrix | Sample<br>Location            | Collection<br>Date/Time | Receive Date |
|--------------------|------------------------|--------|-------------------------------|-------------------------|--------------|
| L1961284-01        | TANK-EAST-122019 (10') | SOIL   | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 10:10          | 12/20/19     |
| L1961284-02        | TANK-BOT-122019 (11')  | SOIL   | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 10:30          | 12/20/19     |
| L1961284-03        | TANK-WEST-122019 (8')  | SOIL   | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 10:40          | 12/20/19     |
| L1961284-04        | TANK-SOUTH-122019 (8') | SOIL   | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 11:15          | 12/20/19     |
| L1961284-05        | TANK-NORTH-122019 (8') | SOIL   | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 11:30          | 12/20/19     |
| L1961284-06        | DUP-01-122019          | SOIL   | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 00:00          | 12/20/19     |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

### Case Narrative (continued)

#### Report Submission

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

#### Volatile Organics

L1961284-02, -03, -04, and -06: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The WG1325623-5 Method Blank, associated with L1961284-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG1325768-6 MS recovery, performed on L1961284-05, is outside the acceptance criteria for acetone (0%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

#### Semivolatile Organics

L1961284-03, -04, and -06: The sample has elevated detection limits due to the dilution required by the sample matrix.

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

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 12/30/19

# ORGANICS

# **VOLATILES**



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-01  
**Client ID:** TANK-EAST-122019 (10')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:10  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/28/19 09:43  
**Analyst:** AD  
**Percent Solids:** 89%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 4.1  | 1.9  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 0.82 | 0.12 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.2  | 0.12 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 0.82 | 0.19 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 0.82 | 0.10 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 0.82 | 0.12 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 0.82 | 0.22 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.41 | 0.16 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.41 | 0.10 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 3.3  | 0.57 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 0.82 | 0.21 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.41 | 0.14 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.41 | 0.09 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 0.82 | 0.22 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.41 | 0.13 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 3.3  | 0.20 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.41 | 0.14 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.41 | 0.14 | 1               |
| Toluene                                             | ND     |           | ug/kg | 0.82 | 0.45 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 0.82 | 0.12 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 3.3  | 0.77 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 1.6  | 0.48 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 0.82 | 0.28 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 1.6  | 0.37 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 0.82 | 0.20 | 1               |
| trans-1,2-Dichloroethene                            | 0.43   | J         | ug/kg | 1.2  | 0.11 | 1               |
| Trichloroethene                                     | ND     |           | ug/kg | 0.41 | 0.11 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 1.6  | 0.12 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-01  
**Client ID:** TANK-EAST-122019 (10')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:10  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 1.6  | 0.12 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 1.6  | 0.14 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 1.6  | 0.16 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 1.6  | 0.46 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 0.82 | 0.24 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 0.82 | 0.14 | 1               |
| Styrene                                             | ND     |           | ug/kg | 0.82 | 0.16 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 8.2  | 0.75 | 1               |
| Acetone                                             | ND     |           | ug/kg | 8.2  | 4.0  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 8.2  | 3.7  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 8.2  | 1.8  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 8.2  | 1.0  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 8.2  | 0.97 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 0.82 | 0.23 | 1               |
| n-Butylbenzene                                      | 0.77   | J         | ug/kg | 0.82 | 0.14 | 1               |
| sec-Butylbenzene                                    | 0.17   | J         | ug/kg | 0.82 | 0.12 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 1.6  | 0.10 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 2.5  | 0.82 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 0.82 | 0.09 | 1               |
| p-Isopropyltoluene                                  | 0.31   | J         | ug/kg | 0.82 | 0.09 | 1               |
| Naphthalene                                         | 9.0    |           | ug/kg | 3.3  | 0.53 | 1               |
| n-Propylbenzene                                     | ND     |           | ug/kg | 0.82 | 0.14 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 1.6  | 0.22 | 1               |
| 1,3,5-Trimethylbenzene                              | 0.20   | J         | ug/kg | 1.6  | 0.16 | 1               |
| 1,2,4-Trimethylbenzene                              | 1.2    | J         | ug/kg | 1.6  | 0.27 | 1               |
| Methyl Acetate                                      | ND     |           | ug/kg | 3.3  | 0.78 | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 8.2  | 0.45 | 1               |
| Freon-113                                           | ND     |           | ug/kg | 3.3  | 0.57 | 1               |
| Methyl cyclohexane                                  | ND     |           | ug/kg | 3.3  | 0.50 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-01  
**Client ID:** TANK-EAST-122019 (10')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:10  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                     |      |    |       |   |
|---------------------|------|----|-------|---|
| Total TIC Compounds | 1340 | J  | ug/kg | 1 |
| Unknown Alkane      | 124  | J  | ug/kg | 1 |
| Unknown Alkane      | 160  | J  | ug/kg | 1 |
| Unknown Benzene     | 58.0 | J  | ug/kg | 1 |
| Unknown Naphthalene | 59.6 | J  | ug/kg | 1 |
| Unknown Alkane      | 48.8 | J  | ug/kg | 1 |
| Unknown             | 90.5 | J  | ug/kg | 1 |
| Unknown Alkane      | 209  | J  | ug/kg | 1 |
| Undecane            | 93.9 | NJ | ug/kg | 1 |
| Unknown             | 52.4 | J  | ug/kg | 1 |
| Unknown Alkane      | 67.3 | J  | ug/kg | 1 |
| Unknown Aromatic    | 111  | J  | ug/kg | 1 |
| Unknown Naphthalene | 64.0 | J  | ug/kg | 1 |
| Unknown Alkane      | 50.1 | J  | ug/kg | 1 |
| Unknown Aromatic    | 54.6 | J  | ug/kg | 1 |
| Unknown Alkane      | 95.2 | J  | ug/kg | 1 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 102        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-02 D  
 Client ID: TANK-BOT-122019 (11')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 10:30  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 09:55  
 Analyst: MV  
 Percent Solids: 81%

| Parameter                                            | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                                   | ND     |           | ug/kg | 580 | 260 | 2               |
| 1,1-Dichloroethane                                   | ND     |           | ug/kg | 120 | 17. | 2               |
| Chloroform                                           | ND     |           | ug/kg | 170 | 16. | 2               |
| Carbon tetrachloride                                 | ND     |           | ug/kg | 120 | 26. | 2               |
| 1,2-Dichloropropane                                  | ND     |           | ug/kg | 120 | 14. | 2               |
| Dibromochloromethane                                 | ND     |           | ug/kg | 120 | 16. | 2               |
| 1,1,2-Trichloroethane                                | ND     |           | ug/kg | 120 | 31. | 2               |
| Tetrachloroethene                                    | ND     |           | ug/kg | 58  | 23. | 2               |
| Chlorobenzene                                        | ND     |           | ug/kg | 58  | 15. | 2               |
| Trichlorofluoromethane                               | ND     |           | ug/kg | 460 | 80. | 2               |
| 1,2-Dichloroethane                                   | ND     |           | ug/kg | 120 | 30. | 2               |
| 1,1,1-Trichloroethane                                | ND     |           | ug/kg | 58  | 19. | 2               |
| Bromodichloromethane                                 | ND     |           | ug/kg | 58  | 13. | 2               |
| trans-1,3-Dichloropropene                            | ND     |           | ug/kg | 120 | 32. | 2               |
| cis-1,3-Dichloropropene                              | ND     |           | ug/kg | 58  | 18. | 2               |
| Bromoform                                            | ND     |           | ug/kg | 460 | 28. | 2               |
| 1,1,2,2-Tetrachloroethane                            | ND     |           | ug/kg | 58  | 19. | 2               |
| Benzene                                              | ND     |           | ug/kg | 58  | 19. | 2               |
| Toluene                                              | ND     |           | ug/kg | 120 | 63. | 2               |
| Ethylbenzene                                         | ND     |           | ug/kg | 120 | 16. | 2               |
| Chloromethane                                        | ND     |           | ug/kg | 460 | 110 | 2               |
| Bromomethane                                         | ND     |           | ug/kg | 230 | 67. | 2               |
| Vinyl chloride                                       | ND     |           | ug/kg | 120 | 39. | 2               |
| Chloroethane                                         | ND     |           | ug/kg | 230 | 52. | 2               |
| 1,1-Dichloroethene                                   | ND     |           | ug/kg | 120 | 28. | 2               |
| trans-1,2-Dichloroethene                             | ND     |           | ug/kg | 170 | 16. | 2               |
| Trichloroethene                                      | ND     |           | ug/kg | 58  | 16. | 2               |
| 1,2-Dichlorobenzene                                  | ND     |           | ug/kg | 230 | 17. | 2               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-02 D  
 Client ID: TANK-BOT-122019 (11')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 10:30  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |      |     |                 |
| 1,3-Dichlorobenzene                                  | ND     |           | ug/kg | 230  | 17. | 2               |
| 1,4-Dichlorobenzene                                  | ND     |           | ug/kg | 230  | 20. | 2               |
| Methyl tert butyl ether                              | ND     |           | ug/kg | 230  | 23. | 2               |
| p/m-Xylene                                           | ND     |           | ug/kg | 230  | 65. | 2               |
| o-Xylene                                             | ND     |           | ug/kg | 120  | 34. | 2               |
| cis-1,2-Dichloroethene                               | ND     |           | ug/kg | 120  | 20. | 2               |
| Styrene                                              | ND     |           | ug/kg | 120  | 23. | 2               |
| Dichlorodifluoromethane                              | ND     |           | ug/kg | 1200 | 100 | 2               |
| Acetone                                              | ND     |           | ug/kg | 1200 | 560 | 2               |
| Carbon disulfide                                     | ND     |           | ug/kg | 1200 | 530 | 2               |
| 2-Butanone                                           | ND     |           | ug/kg | 1200 | 260 | 2               |
| 4-Methyl-2-pentanone                                 | ND     |           | ug/kg | 1200 | 150 | 2               |
| 2-Hexanone                                           | ND     |           | ug/kg | 1200 | 140 | 2               |
| 1,2-Dibromoethane                                    | ND     |           | ug/kg | 120  | 32. | 2               |
| n-Butylbenzene                                       | 31     | J         | ug/kg | 120  | 19. | 2               |
| sec-Butylbenzene                                     | ND     |           | ug/kg | 120  | 17. | 2               |
| tert-Butylbenzene                                    | ND     |           | ug/kg | 230  | 14. | 2               |
| 1,2-Dibromo-3-chloropropane                          | ND     |           | ug/kg | 350  | 120 | 2               |
| Isopropylbenzene                                     | ND     |           | ug/kg | 120  | 13. | 2               |
| p-Isopropyltoluene                                   | ND     |           | ug/kg | 120  | 13. | 2               |
| Naphthalene                                          | 1600   |           | ug/kg | 460  | 75. | 2               |
| n-Propylbenzene                                      | ND     |           | ug/kg | 120  | 20. | 2               |
| 1,2,4-Trichlorobenzene                               | ND     |           | ug/kg | 230  | 31. | 2               |
| 1,3,5-Trimethylbenzene                               | ND     |           | ug/kg | 230  | 22. | 2               |
| 1,2,4-Trimethylbenzene                               | ND     |           | ug/kg | 230  | 39. | 2               |
| Methyl Acetate                                       | ND     |           | ug/kg | 460  | 110 | 2               |
| Cyclohexane                                          | ND     |           | ug/kg | 1200 | 63. | 2               |
| Freon-113                                            | ND     |           | ug/kg | 460  | 80. | 2               |
| Methyl cyclohexane                                   | ND     |           | ug/kg | 460  | 70. | 2               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-02 D  
**Client ID:** TANK-BOT-122019 (11')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                     |       |    |       |   |
|---------------------|-------|----|-------|---|
| Total TIC Compounds | 29200 | J  | ug/kg | 2 |
| Unknown Benzene     | 1970  | J  | ug/kg | 2 |
| Unknown Aromatic    | 1650  | J  | ug/kg | 2 |
| Unknown Aromatic    | 6040  | J  | ug/kg | 2 |
| Dodecane (C12)      | 2640  | NJ | ug/kg | 2 |
| Unknown Naphthalene | 3630  | J  | ug/kg | 2 |
| Unknown Naphthalene | 1780  | J  | ug/kg | 2 |
| Unknown Naphthalene | 3370  | J  | ug/kg | 2 |
| Unknown Naphthalene | 2140  | J  | ug/kg | 2 |
| Unknown Benzene     | 2640  | J  | ug/kg | 2 |
| Unknown Aromatic    | 3380  | J  | ug/kg | 2 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 122        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 90         |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-03 D  
**Client ID:** TANK-WEST-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:40  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/27/19 09:05  
**Analyst:** MV  
**Percent Solids:** 83%

| Parameter                                            | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |      |     |                 |
| Methylene chloride                                   | ND     |           | ug/kg | 1200 | 530 | 4               |
| 1,1-Dichloroethane                                   | ND     |           | ug/kg | 230  | 34. | 4               |
| Chloroform                                           | ND     |           | ug/kg | 350  | 33. | 4               |
| Carbon tetrachloride                                 | ND     |           | ug/kg | 230  | 54. | 4               |
| 1,2-Dichloropropane                                  | ND     |           | ug/kg | 230  | 29. | 4               |
| Dibromochloromethane                                 | ND     |           | ug/kg | 230  | 33. | 4               |
| 1,1,2-Trichloroethane                                | ND     |           | ug/kg | 230  | 62. | 4               |
| Tetrachloroethene                                    | 79     | J         | ug/kg | 120  | 46. | 4               |
| Chlorobenzene                                        | ND     |           | ug/kg | 120  | 30. | 4               |
| Trichlorofluoromethane                               | ND     |           | ug/kg | 930  | 160 | 4               |
| 1,2-Dichloroethane                                   | ND     |           | ug/kg | 230  | 60. | 4               |
| 1,1,1-Trichloroethane                                | ND     |           | ug/kg | 120  | 39. | 4               |
| Bromodichloromethane                                 | ND     |           | ug/kg | 120  | 25. | 4               |
| trans-1,3-Dichloropropene                            | ND     |           | ug/kg | 230  | 64. | 4               |
| cis-1,3-Dichloropropene                              | ND     |           | ug/kg | 120  | 37. | 4               |
| Bromoform                                            | ND     |           | ug/kg | 930  | 57. | 4               |
| 1,1,2,2-Tetrachloroethane                            | ND     |           | ug/kg | 120  | 39. | 4               |
| Benzene                                              | ND     |           | ug/kg | 120  | 39. | 4               |
| Toluene                                              | ND     |           | ug/kg | 230  | 130 | 4               |
| Ethylbenzene                                         | ND     |           | ug/kg | 230  | 33. | 4               |
| Chloromethane                                        | ND     |           | ug/kg | 930  | 220 | 4               |
| Bromomethane                                         | ND     |           | ug/kg | 470  | 140 | 4               |
| Vinyl chloride                                       | ND     |           | ug/kg | 230  | 78. | 4               |
| Chloroethane                                         | ND     |           | ug/kg | 470  | 100 | 4               |
| 1,1-Dichloroethene                                   | ND     |           | ug/kg | 230  | 55. | 4               |
| trans-1,2-Dichloroethene                             | ND     |           | ug/kg | 350  | 32. | 4               |
| Trichloroethene                                      | 150    |           | ug/kg | 120  | 32. | 4               |
| 1,2-Dichlorobenzene                                  | ND     |           | ug/kg | 470  | 34. | 4               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-03 D  
 Client ID: TANK-WEST-122019 (8')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 10:40  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                                  | ND     |           | ug/kg | 470  | 34.  | 4               |
| 1,4-Dichlorobenzene                                  | ND     |           | ug/kg | 470  | 40.  | 4               |
| Methyl tert butyl ether                              | ND     |           | ug/kg | 470  | 47.  | 4               |
| p/m-Xylene                                           | ND     |           | ug/kg | 470  | 130  | 4               |
| o-Xylene                                             | ND     |           | ug/kg | 230  | 68.  | 4               |
| cis-1,2-Dichloroethene                               | ND     |           | ug/kg | 230  | 41.  | 4               |
| Styrene                                              | ND     |           | ug/kg | 230  | 46.  | 4               |
| Dichlorodifluoromethane                              | ND     |           | ug/kg | 2300 | 210  | 4               |
| Acetone                                              | ND     |           | ug/kg | 2300 | 1100 | 4               |
| Carbon disulfide                                     | ND     |           | ug/kg | 2300 | 1100 | 4               |
| 2-Butanone                                           | ND     |           | ug/kg | 2300 | 520  | 4               |
| 4-Methyl-2-pentanone                                 | ND     |           | ug/kg | 2300 | 300  | 4               |
| 2-Hexanone                                           | ND     |           | ug/kg | 2300 | 270  | 4               |
| 1,2-Dibromoethane                                    | ND     |           | ug/kg | 230  | 65.  | 4               |
| n-Butylbenzene                                       | 980    |           | ug/kg | 230  | 39.  | 4               |
| sec-Butylbenzene                                     | 270    |           | ug/kg | 230  | 34.  | 4               |
| tert-Butylbenzene                                    | ND     |           | ug/kg | 470  | 27.  | 4               |
| 1,2-Dibromo-3-chloropropane                          | ND     |           | ug/kg | 700  | 230  | 4               |
| Isopropylbenzene                                     | ND     |           | ug/kg | 230  | 25.  | 4               |
| p-Isopropyltoluene                                   | 440    |           | ug/kg | 230  | 25.  | 4               |
| Naphthalene                                          | 6300   |           | ug/kg | 930  | 150  | 4               |
| n-Propylbenzene                                      | 60     | J         | ug/kg | 230  | 40.  | 4               |
| 1,2,4-Trichlorobenzene                               | ND     |           | ug/kg | 470  | 63.  | 4               |
| 1,3,5-Trimethylbenzene                               | 440    | J         | ug/kg | 470  | 45.  | 4               |
| 1,2,4-Trimethylbenzene                               | 2500   |           | ug/kg | 470  | 78.  | 4               |
| Methyl Acetate                                       | ND     |           | ug/kg | 930  | 220  | 4               |
| Cyclohexane                                          | ND     |           | ug/kg | 2300 | 130  | 4               |
| Freon-113                                            | ND     |           | ug/kg | 930  | 160  | 4               |
| Methyl cyclohexane                                   | ND     |           | ug/kg | 930  | 140  | 4               |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-03 D  
**Client ID:** TANK-WEST-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:40  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                                |        |    |       |   |
|--------------------------------|--------|----|-------|---|
| Total TIC Compounds            | 144000 | J  | ug/kg | 4 |
| Unknown Aromatic               | 9120   | J  | ug/kg | 4 |
| Benzene, (2-methyl-1-butenyl)- | 23500  | NJ | ug/kg | 4 |
| Unknown Aromatic               | 9740   | J  | ug/kg | 4 |
| Unknown Benzene                | 13800  | J  | ug/kg | 4 |
| Unknown Naphthalene            | 9450   | J  | ug/kg | 4 |
| Unknown Benzene                | 15000  | J  | ug/kg | 4 |
| Unknown Aromatic               | 20600  | J  | ug/kg | 4 |
| Unknown Aromatic               | 14300  | J  | ug/kg | 4 |
| Unknown Benzene                | 12800  | J  | ug/kg | 4 |
| Unknown                        | 15200  | J  | ug/kg | 4 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 102        |           | 70-130              |
| Toluene-d8            | 94         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 97         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-04 D  
**Client ID:** TANK-SOUTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:15  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/30/19 10:39  
**Analyst:** JC  
**Percent Solids:** 87%

| Parameter                                            | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                                   | ND     |           | ug/kg | 480 | 220 | 2               |
| 1,1-Dichloroethane                                   | ND     |           | ug/kg | 97  | 14. | 2               |
| Chloroform                                           | ND     |           | ug/kg | 140 | 14. | 2               |
| Carbon tetrachloride                                 | ND     |           | ug/kg | 97  | 22. | 2               |
| 1,2-Dichloropropane                                  | ND     |           | ug/kg | 97  | 12. | 2               |
| Dibromochloromethane                                 | ND     |           | ug/kg | 97  | 14. | 2               |
| 1,1,2-Trichloroethane                                | ND     |           | ug/kg | 97  | 26. | 2               |
| Tetrachloroethene                                    | ND     |           | ug/kg | 48  | 19. | 2               |
| Chlorobenzene                                        | ND     |           | ug/kg | 48  | 12. | 2               |
| Trichlorofluoromethane                               | ND     |           | ug/kg | 390 | 67. | 2               |
| 1,2-Dichloroethane                                   | ND     |           | ug/kg | 97  | 25. | 2               |
| 1,1,1-Trichloroethane                                | ND     |           | ug/kg | 48  | 16. | 2               |
| Bromodichloromethane                                 | ND     |           | ug/kg | 48  | 10. | 2               |
| trans-1,3-Dichloropropene                            | ND     |           | ug/kg | 97  | 26. | 2               |
| cis-1,3-Dichloropropene                              | ND     |           | ug/kg | 48  | 15. | 2               |
| Bromoform                                            | ND     |           | ug/kg | 390 | 24. | 2               |
| 1,1,2,2-Tetrachloroethane                            | ND     |           | ug/kg | 48  | 16. | 2               |
| Benzene                                              | ND     |           | ug/kg | 48  | 16. | 2               |
| Toluene                                              | ND     |           | ug/kg | 97  | 52. | 2               |
| Ethylbenzene                                         | ND     |           | ug/kg | 97  | 14. | 2               |
| Chloromethane                                        | ND     |           | ug/kg | 390 | 90. | 2               |
| Bromomethane                                         | ND     |           | ug/kg | 190 | 56. | 2               |
| Vinyl chloride                                       | ND     |           | ug/kg | 97  | 32. | 2               |
| Chloroethane                                         | ND     |           | ug/kg | 190 | 44. | 2               |
| 1,1-Dichloroethene                                   | ND     |           | ug/kg | 97  | 23. | 2               |
| trans-1,2-Dichloroethene                             | ND     |           | ug/kg | 140 | 13. | 2               |
| Trichloroethene                                      | 31     | J         | ug/kg | 48  | 13. | 2               |
| 1,2-Dichlorobenzene                                  | ND     |           | ug/kg | 190 | 14. | 2               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-04 D  
 Client ID: TANK-SOUTH-122019 (8')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 11:15  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |     |     |                 |
| 1,3-Dichlorobenzene                                  | ND     |           | ug/kg | 190 | 14. | 2               |
| 1,4-Dichlorobenzene                                  | ND     |           | ug/kg | 190 | 16. | 2               |
| Methyl tert butyl ether                              | ND     |           | ug/kg | 190 | 19. | 2               |
| p/m-Xylene                                           | ND     |           | ug/kg | 190 | 54. | 2               |
| o-Xylene                                             | ND     |           | ug/kg | 97  | 28. | 2               |
| cis-1,2-Dichloroethene                               | ND     |           | ug/kg | 97  | 17. | 2               |
| Styrene                                              | ND     |           | ug/kg | 97  | 19. | 2               |
| Dichlorodifluoromethane                              | ND     |           | ug/kg | 970 | 88. | 2               |
| Acetone                                              | ND     |           | ug/kg | 970 | 460 | 2               |
| Carbon disulfide                                     | ND     |           | ug/kg | 970 | 440 | 2               |
| 2-Butanone                                           | ND     |           | ug/kg | 970 | 210 | 2               |
| 4-Methyl-2-pentanone                                 | ND     |           | ug/kg | 970 | 120 | 2               |
| 2-Hexanone                                           | ND     |           | ug/kg | 970 | 110 | 2               |
| 1,2-Dibromoethane                                    | ND     |           | ug/kg | 97  | 27. | 2               |
| n-Butylbenzene                                       | 380    |           | ug/kg | 97  | 16. | 2               |
| sec-Butylbenzene                                     | 49     | J         | ug/kg | 97  | 14. | 2               |
| tert-Butylbenzene                                    | ND     |           | ug/kg | 190 | 11. | 2               |
| 1,2-Dibromo-3-chloropropane                          | ND     |           | ug/kg | 290 | 97. | 2               |
| Isopropylbenzene                                     | ND     |           | ug/kg | 97  | 10. | 2               |
| p-Isopropyltoluene                                   | 90     | J         | ug/kg | 97  | 10. | 2               |
| Naphthalene                                          | 2200   |           | ug/kg | 390 | 63. | 2               |
| n-Propylbenzene                                      | ND     |           | ug/kg | 97  | 16. | 2               |
| 1,2,4-Trichlorobenzene                               | ND     |           | ug/kg | 190 | 26. | 2               |
| 1,3,5-Trimethylbenzene                               | 58     | J         | ug/kg | 190 | 19. | 2               |
| 1,2,4-Trimethylbenzene                               | 380    |           | ug/kg | 190 | 32. | 2               |
| Methyl Acetate                                       | ND     |           | ug/kg | 390 | 92. | 2               |
| Cyclohexane                                          | ND     |           | ug/kg | 970 | 53. | 2               |
| Freon-113                                            | ND     |           | ug/kg | 390 | 67. | 2               |
| Methyl cyclohexane                                   | ND     |           | ug/kg | 390 | 58. | 2               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-04 D  
**Client ID:** TANK-SOUTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:15  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                     |       |   |       |   |
|---------------------|-------|---|-------|---|
| Total TIC Compounds | 44900 | J | ug/kg | 2 |
| Unknown Aromatic    | 2810  | J | ug/kg | 2 |
| Unknown Benzene     | 7080  | J | ug/kg | 2 |
| Unknown Aromatic    | 7590  | J | ug/kg | 2 |
| Unknown Aromatic    | 4470  | J | ug/kg | 2 |
| Unknown Benzene     | 3720  | J | ug/kg | 2 |
| Unknown Naphthalene | 3290  | J | ug/kg | 2 |
| Unknown Naphthalene | 4640  | J | ug/kg | 2 |
| Unknown Benzene     | 4420  | J | ug/kg | 2 |
| Unknown Aromatic    | 3160  | J | ug/kg | 2 |
| Unknown Aromatic    | 3670  | J | ug/kg | 2 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 89         |           | 70-130              |
| Toluene-d8            | 90         |           | 70-130              |
| 4-Bromofluorobenzene  | 96         |           | 70-130              |
| Dibromofluoromethane  | 97         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-05  
**Client ID:** TANK-NORTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/27/19 11:11  
**Analyst:** JC  
**Percent Solids:** 83%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 4.2  | 1.9  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 0.83 | 0.12 | 1               |
| Chloroform                                          | 0.29   | J         | ug/kg | 1.2  | 0.12 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 0.83 | 0.19 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 0.83 | 0.10 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 0.83 | 0.12 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 0.83 | 0.22 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.42 | 0.16 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.42 | 0.10 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 3.3  | 0.58 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 0.83 | 0.21 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.42 | 0.14 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.42 | 0.09 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 0.83 | 0.23 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.42 | 0.13 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 3.3  | 0.20 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.42 | 0.14 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.42 | 0.14 | 1               |
| Toluene                                             | ND     |           | ug/kg | 0.83 | 0.45 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 0.83 | 0.12 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 3.3  | 0.78 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 1.7  | 0.48 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 0.83 | 0.28 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 1.7  | 0.38 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 0.83 | 0.20 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.2  | 0.11 | 1               |
| Trichloroethene                                     | 0.82   |           | ug/kg | 0.42 | 0.11 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 1.7  | 0.12 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-05  
**Client ID:** TANK-NORTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 1.7  | 0.12 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 1.7  | 0.14 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 1.7  | 0.17 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 1.7  | 0.47 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 0.83 | 0.24 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 0.83 | 0.14 | 1               |
| Styrene                                             | ND     |           | ug/kg | 0.83 | 0.16 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 8.3  | 0.76 | 1               |
| Acetone                                             | 64     |           | ug/kg | 8.3  | 4.0  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 8.3  | 3.8  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 8.3  | 1.8  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 8.3  | 1.1  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 8.3  | 0.98 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 0.83 | 0.23 | 1               |
| n-Butylbenzene                                      | ND     |           | ug/kg | 0.83 | 0.14 | 1               |
| sec-Butylbenzene                                    | ND     |           | ug/kg | 0.83 | 0.12 | 1               |
| tert-Butylbenzene                                   | ND     |           | ug/kg | 1.7  | 0.10 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 2.5  | 0.83 | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 0.83 | 0.09 | 1               |
| p-Isopropyltoluene                                  | ND     |           | ug/kg | 0.83 | 0.09 | 1               |
| Naphthalene                                         | ND     |           | ug/kg | 3.3  | 0.54 | 1               |
| n-Propylbenzene                                     | ND     |           | ug/kg | 0.83 | 0.14 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 1.7  | 0.23 | 1               |
| 1,3,5-Trimethylbenzene                              | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| 1,2,4-Trimethylbenzene                              | ND     |           | ug/kg | 1.7  | 0.28 | 1               |
| Methyl Acetate                                      | 1.6    | J         | ug/kg | 3.3  | 0.79 | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 8.3  | 0.45 | 1               |
| Freon-113                                           | ND     |           | ug/kg | 3.3  | 0.58 | 1               |
| Methyl cyclohexane                                  | ND     |           | ug/kg | 3.3  | 0.50 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-05  
**Client ID:** TANK-NORTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                         |      |    |       |   |
|-------------------------|------|----|-------|---|
| Total TIC Compounds     | 74.7 | J  | ug/kg | 1 |
| Unknown Aromatic        | 4.34 | J  | ug/kg | 1 |
| Undecane, 2,6-dimethyl- | 6.09 | NJ | ug/kg | 1 |
| Dodecane (C12)          | 10.5 | NJ | ug/kg | 1 |
| Unknown Alkane          | 10.3 | J  | ug/kg | 1 |
| Unknown Naphthalene     | 4.64 | J  | ug/kg | 1 |
| Unknown Alkane          | 6.59 | J  | ug/kg | 1 |
| Unknown                 | 9.91 | J  | ug/kg | 1 |
| Tridecane               | 10.7 | NJ | ug/kg | 1 |
| Unknown Naphthalene     | 5.72 | J  | ug/kg | 1 |
| Pentadecane             | 5.90 | NJ | ug/kg | 1 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 91         |           | 70-130              |
| Toluene-d8            | 93         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 97         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-06 D  
 Client ID: DUP-01-122019  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 00:00  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 10:45  
 Analyst: JC  
 Percent Solids: 88%

| Parameter                                            | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |      |     |                 |
| Methylene chloride                                   | ND     |           | ug/kg | 1000 | 470 | 4               |
| 1,1-Dichloroethane                                   | ND     |           | ug/kg | 200  | 30. | 4               |
| Chloroform                                           | ND     |           | ug/kg | 310  | 29. | 4               |
| Carbon tetrachloride                                 | ND     |           | ug/kg | 200  | 47. | 4               |
| 1,2-Dichloropropane                                  | ND     |           | ug/kg | 200  | 26. | 4               |
| Dibromochloromethane                                 | ND     |           | ug/kg | 200  | 29. | 4               |
| 1,1,2-Trichloroethane                                | ND     |           | ug/kg | 200  | 55. | 4               |
| Tetrachloroethene                                    | ND     |           | ug/kg | 100  | 40. | 4               |
| Chlorobenzene                                        | ND     |           | ug/kg | 100  | 26. | 4               |
| Trichlorofluoromethane                               | ND     |           | ug/kg | 820  | 140 | 4               |
| 1,2-Dichloroethane                                   | ND     |           | ug/kg | 200  | 52. | 4               |
| 1,1,1-Trichloroethane                                | ND     |           | ug/kg | 100  | 34. | 4               |
| Bromodichloromethane                                 | ND     |           | ug/kg | 100  | 22. | 4               |
| trans-1,3-Dichloropropene                            | ND     |           | ug/kg | 200  | 56. | 4               |
| cis-1,3-Dichloropropene                              | ND     |           | ug/kg | 100  | 32. | 4               |
| Bromoform                                            | ND     |           | ug/kg | 820  | 50. | 4               |
| 1,1,2,2-Tetrachloroethane                            | ND     |           | ug/kg | 100  | 34. | 4               |
| Benzene                                              | ND     |           | ug/kg | 100  | 34. | 4               |
| Toluene                                              | ND     |           | ug/kg | 200  | 110 | 4               |
| Ethylbenzene                                         | ND     |           | ug/kg | 200  | 29. | 4               |
| Chloromethane                                        | ND     |           | ug/kg | 820  | 190 | 4               |
| Bromomethane                                         | ND     |           | ug/kg | 410  | 120 | 4               |
| Vinyl chloride                                       | ND     |           | ug/kg | 200  | 68. | 4               |
| Chloroethane                                         | ND     |           | ug/kg | 410  | 92. | 4               |
| 1,1-Dichloroethene                                   | ND     |           | ug/kg | 200  | 49. | 4               |
| trans-1,2-Dichloroethene                             | ND     |           | ug/kg | 310  | 28. | 4               |
| Trichloroethene                                      | ND     |           | ug/kg | 100  | 28. | 4               |
| 1,2-Dichlorobenzene                                  | ND     |           | ug/kg | 410  | 29. | 4               |



**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-06 D  
 Client ID: DUP-01-122019  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 00:00  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |      |     |                 |
| 1,3-Dichlorobenzene                                  | ND     |           | ug/kg | 410  | 30. | 4               |
| 1,4-Dichlorobenzene                                  | ND     |           | ug/kg | 410  | 35. | 4               |
| Methyl tert butyl ether                              | ND     |           | ug/kg | 410  | 41. | 4               |
| p/m-Xylene                                           | ND     |           | ug/kg | 410  | 110 | 4               |
| o-Xylene                                             | ND     |           | ug/kg | 200  | 60. | 4               |
| cis-1,2-Dichloroethene                               | ND     |           | ug/kg | 200  | 36. | 4               |
| Styrene                                              | ND     |           | ug/kg | 200  | 40. | 4               |
| Dichlorodifluoromethane                              | ND     |           | ug/kg | 2000 | 190 | 4               |
| Acetone                                              | ND     |           | ug/kg | 2000 | 980 | 4               |
| Carbon disulfide                                     | ND     |           | ug/kg | 2000 | 930 | 4               |
| 2-Butanone                                           | ND     |           | ug/kg | 2000 | 450 | 4               |
| 4-Methyl-2-pentanone                                 | ND     |           | ug/kg | 2000 | 260 | 4               |
| 2-Hexanone                                           | ND     |           | ug/kg | 2000 | 240 | 4               |
| 1,2-Dibromoethane                                    | ND     |           | ug/kg | 200  | 57. | 4               |
| n-Butylbenzene                                       | 1400   |           | ug/kg | 200  | 34. | 4               |
| sec-Butylbenzene                                     | 200    |           | ug/kg | 200  | 30. | 4               |
| tert-Butylbenzene                                    | ND     |           | ug/kg | 410  | 24. | 4               |
| 1,2-Dibromo-3-chloropropane                          | ND     |           | ug/kg | 610  | 200 | 4               |
| Isopropylbenzene                                     | ND     |           | ug/kg | 200  | 22. | 4               |
| p-Isopropyltoluene                                   | 390    |           | ug/kg | 200  | 22. | 4               |
| Naphthalene                                          | 10000  |           | ug/kg | 820  | 130 | 4               |
| n-Propylbenzene                                      | 47     | J         | ug/kg | 200  | 35. | 4               |
| 1,2,4-Trichlorobenzene                               | ND     |           | ug/kg | 410  | 56. | 4               |
| 1,3,5-Trimethylbenzene                               | 250    | J         | ug/kg | 410  | 39. | 4               |
| 1,2,4-Trimethylbenzene                               | 1800   |           | ug/kg | 410  | 68. | 4               |
| Methyl Acetate                                       | ND     |           | ug/kg | 820  | 190 | 4               |
| Cyclohexane                                          | ND     |           | ug/kg | 2000 | 110 | 4               |
| Freon-113                                            | ND     |           | ug/kg | 820  | 140 | 4               |
| Methyl cyclohexane                                   | ND     |           | ug/kg | 820  | 120 | 4               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-06 D

Date Collected: 12/20/19 00:00

Client ID: DUP-01-122019

Date Received: 12/20/19

Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                         |        |    |       |   |
|-------------------------|--------|----|-------|---|
| Total TIC Compounds     | 212000 | J  | ug/kg | 4 |
| Unknown Aromatic        | 11300  | J  | ug/kg | 4 |
| Unknown Naphthalene     | 15600  | J  | ug/kg | 4 |
| Unknown Aromatic        | 24400  | J  | ug/kg | 4 |
| Unknown Alkane          | 10800  | J  | ug/kg | 4 |
| Dodecane (C12)          | 48000  | NJ | ug/kg | 4 |
| Undecane, 2,6-dimethyl- | 26200  | NJ | ug/kg | 4 |
| Unknown Cyclohexane     | 10700  | J  | ug/kg | 4 |
| Unknown Aromatic        | 17800  | J  | ug/kg | 4 |
| Unknown Benzene         | 36300  | J  | ug/kg | 4 |
| Unknown                 | 11300  | J  | ug/kg | 4 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92         |           | 70-130              |
| Toluene-d8            | 94         |           | 70-130              |
| 4-Bromofluorobenzene  | 104        |           | 70-130              |
| Dibromofluoromethane  | 94         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/28/19 09:16  
 Analyst: MKS

| Parameter                                                                                | Result | Qualifier | Units | RL   | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1325623-5 |        |           |       |      |      |
| Methylene chloride                                                                       | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                               | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                     | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                      | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                     | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                    | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                        | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                            | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                                   | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                    | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                     | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                                | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                                  | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                                | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,2,2-Tetrachloroethane                                                                | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                                  | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                                  | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                             | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                            | 1.3    | J         | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                             | 12     |           | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                           | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                             | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                       | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                                 | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                          | ND     |           | ug/kg | 0.50 | 0.14 |
| 1,2-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0  | 0.14 |
| 1,3-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0  | 0.15 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/28/19 09:16  
 Analyst: MKS

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1325623-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether                                                                  | ND     |           | ug/kg | 2.0 | 0.20 |
| p/m-Xylene                                                                               | ND     |           | ug/kg | 2.0 | 0.56 |
| o-Xylene                                                                                 | ND     |           | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene                                                                   | ND     |           | ug/kg | 1.0 | 0.18 |
| Styrene                                                                                  | ND     |           | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane                                                                  | ND     |           | ug/kg | 10  | 0.92 |
| Acetone                                                                                  | ND     |           | ug/kg | 10  | 4.8  |
| Carbon disulfide                                                                         | ND     |           | ug/kg | 10  | 4.6  |
| 2-Butanone                                                                               | ND     |           | ug/kg | 10  | 2.2  |
| 4-Methyl-2-pentanone                                                                     | ND     |           | ug/kg | 10  | 1.3  |
| 2-Hexanone                                                                               | ND     |           | ug/kg | 10  | 1.2  |
| 1,2-Dibromoethane                                                                        | ND     |           | ug/kg | 1.0 | 0.28 |
| n-Butylbenzene                                                                           | ND     |           | ug/kg | 1.0 | 0.17 |
| sec-Butylbenzene                                                                         | ND     |           | ug/kg | 1.0 | 0.15 |
| tert-Butylbenzene                                                                        | ND     |           | ug/kg | 2.0 | 0.12 |
| 1,2-Dibromo-3-chloropropane                                                              | ND     |           | ug/kg | 3.0 | 1.0  |
| Isopropylbenzene                                                                         | ND     |           | ug/kg | 1.0 | 0.11 |
| p-Isopropyltoluene                                                                       | ND     |           | ug/kg | 1.0 | 0.11 |
| Naphthalene                                                                              | ND     |           | ug/kg | 4.0 | 0.65 |
| n-Propylbenzene                                                                          | ND     |           | ug/kg | 1.0 | 0.17 |
| 1,2,4-Trichlorobenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.27 |
| 1,3,5-Trimethylbenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.19 |
| 1,2,4-Trimethylbenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.33 |
| Methyl Acetate                                                                           | ND     |           | ug/kg | 4.0 | 0.95 |
| Cyclohexane                                                                              | ND     |           | ug/kg | 10  | 0.54 |
| Freon-113                                                                                | ND     |           | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane                                                                       | ND     |           | ug/kg | 4.0 | 0.60 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/28/19 09:16  
 Analyst: MKS

| Parameter                                                                                | Result | Qualifier | Units | RL | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1325623-5 |        |           |       |    |     |

Tentatively Identified Compounds

|                               |      |    |       |
|-------------------------------|------|----|-------|
| Total TIC Compounds           | 15.8 | J  | ug/kg |
| Unknown                       | 2.15 | J  | ug/kg |
| Unknown                       | 3.91 | J  | ug/kg |
| Unknown                       | 4.77 | J  | ug/kg |
| Cyclotrisiloxane, Hexamethyl- | 4.97 | NJ | ug/kg |

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98        |           | 70-130              |
| Toluene-d8            | 97        |           | 70-130              |
| 4-Bromofluorobenzene  | 102       |           | 70-130              |
| Dibromofluoromethane  | 103       |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 07:00  
 Analyst: MV

| Parameter                                                                                | Result | Qualifier | Units | RL   | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1325768-5 |        |           |       |      |      |
| Methylene chloride                                                                       | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                               | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                     | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                      | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                     | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                    | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                        | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                            | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                                   | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                    | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                     | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                                | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                                  | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                                | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,1,2-Tetrachloroethane                                                                | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                                  | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                                  | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                             | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                            | ND     |           | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                             | ND     |           | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                           | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                             | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                       | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                                 | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                          | ND     |           | ug/kg | 0.50 | 0.14 |
| 1,2-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0  | 0.14 |
| 1,3-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0  | 0.15 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 07:00  
 Analyst: MV

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1325768-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether                                                                  | 0.21   | J         | ug/kg | 2.0 | 0.20 |
| p/m-Xylene                                                                               | ND     |           | ug/kg | 2.0 | 0.56 |
| o-Xylene                                                                                 | ND     |           | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene                                                                   | ND     |           | ug/kg | 1.0 | 0.18 |
| Styrene                                                                                  | ND     |           | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane                                                                  | ND     |           | ug/kg | 10  | 0.92 |
| Acetone                                                                                  | ND     |           | ug/kg | 10  | 4.8  |
| Carbon disulfide                                                                         | ND     |           | ug/kg | 10  | 4.6  |
| 2-Butanone                                                                               | ND     |           | ug/kg | 10  | 2.2  |
| 4-Methyl-2-pentanone                                                                     | ND     |           | ug/kg | 10  | 1.3  |
| 2-Hexanone                                                                               | ND     |           | ug/kg | 10  | 1.2  |
| 1,2-Dibromoethane                                                                        | ND     |           | ug/kg | 1.0 | 0.28 |
| n-Butylbenzene                                                                           | ND     |           | ug/kg | 1.0 | 0.17 |
| sec-Butylbenzene                                                                         | ND     |           | ug/kg | 1.0 | 0.15 |
| tert-Butylbenzene                                                                        | ND     |           | ug/kg | 2.0 | 0.12 |
| 1,2-Dibromo-3-chloropropane                                                              | ND     |           | ug/kg | 3.0 | 1.0  |
| Isopropylbenzene                                                                         | ND     |           | ug/kg | 1.0 | 0.11 |
| p-Isopropyltoluene                                                                       | ND     |           | ug/kg | 1.0 | 0.11 |
| Naphthalene                                                                              | ND     |           | ug/kg | 4.0 | 0.65 |
| n-Propylbenzene                                                                          | ND     |           | ug/kg | 1.0 | 0.17 |
| 1,2,4-Trichlorobenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.27 |
| 1,3,5-Trimethylbenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.19 |
| 1,2,4-Trimethylbenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.33 |
| Methyl Acetate                                                                           | ND     |           | ug/kg | 4.0 | 0.95 |
| Cyclohexane                                                                              | ND     |           | ug/kg | 10  | 0.54 |
| Freon-113                                                                                | ND     |           | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane                                                                       | ND     |           | ug/kg | 4.0 | 0.60 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 07:00  
 Analyst: MV

| Parameter                                                                                | Result | Qualifier | Units | RL | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05 Batch: WG1325768-5 |        |           |       |    |     |

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 95        |           | 70-130              |
| Toluene-d8            | 100       |           | 70-130              |
| 4-Bromofluorobenzene  | 93        |           | 70-130              |
| Dibromofluoromethane  | 95        |           | 70-130              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 07:00  
 Analyst: MV

| Parameter                                                                                       | Result | Qualifier | Units | RL  | MDL |
|-------------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-03,06 Batch: WG1325770-5 |        |           |       |     |     |
| Methylene chloride                                                                              | ND     |           | ug/kg | 250 | 110 |
| 1,1-Dichloroethane                                                                              | ND     |           | ug/kg | 50  | 7.2 |
| Chloroform                                                                                      | ND     |           | ug/kg | 75  | 7.0 |
| Carbon tetrachloride                                                                            | ND     |           | ug/kg | 50  | 12. |
| 1,2-Dichloropropane                                                                             | ND     |           | ug/kg | 50  | 6.2 |
| Dibromochloromethane                                                                            | ND     |           | ug/kg | 50  | 7.0 |
| 1,1,2-Trichloroethane                                                                           | ND     |           | ug/kg | 50  | 13. |
| Tetrachloroethene                                                                               | ND     |           | ug/kg | 25  | 9.8 |
| Chlorobenzene                                                                                   | ND     |           | ug/kg | 25  | 6.4 |
| Trichlorofluoromethane                                                                          | ND     |           | ug/kg | 200 | 35. |
| 1,2-Dichloroethane                                                                              | ND     |           | ug/kg | 50  | 13. |
| 1,1,1-Trichloroethane                                                                           | ND     |           | ug/kg | 25  | 8.4 |
| Bromodichloromethane                                                                            | ND     |           | ug/kg | 25  | 5.4 |
| trans-1,3-Dichloropropene                                                                       | ND     |           | ug/kg | 50  | 14. |
| cis-1,3-Dichloropropene                                                                         | ND     |           | ug/kg | 25  | 7.9 |
| Bromoform                                                                                       | ND     |           | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane                                                                       | ND     |           | ug/kg | 25  | 8.3 |
| Benzene                                                                                         | ND     |           | ug/kg | 25  | 8.3 |
| Toluene                                                                                         | ND     |           | ug/kg | 50  | 27. |
| Ethylbenzene                                                                                    | ND     |           | ug/kg | 50  | 7.0 |
| Chloromethane                                                                                   | ND     |           | ug/kg | 200 | 47. |
| Bromomethane                                                                                    | ND     |           | ug/kg | 100 | 29. |
| Vinyl chloride                                                                                  | ND     |           | ug/kg | 50  | 17. |
| Chloroethane                                                                                    | ND     |           | ug/kg | 100 | 23. |
| 1,1-Dichloroethene                                                                              | ND     |           | ug/kg | 50  | 12. |
| trans-1,2-Dichloroethene                                                                        | ND     |           | ug/kg | 75  | 6.8 |
| Trichloroethene                                                                                 | ND     |           | ug/kg | 25  | 6.8 |
| 1,2-Dichlorobenzene                                                                             | ND     |           | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene                                                                             | ND     |           | ug/kg | 100 | 7.4 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 07:00  
 Analyst: MV

| Parameter                                                                                       | Result | Qualifier | Units | RL  | MDL |
|-------------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-03,06 Batch: WG1325770-5 |        |           |       |     |     |
| 1,4-Dichlorobenzene                                                                             | ND     |           | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether                                                                         | 10     | J         | ug/kg | 100 | 10. |
| p/m-Xylene                                                                                      | ND     |           | ug/kg | 100 | 28. |
| o-Xylene                                                                                        | ND     |           | ug/kg | 50  | 14. |
| cis-1,2-Dichloroethene                                                                          | ND     |           | ug/kg | 50  | 8.8 |
| Styrene                                                                                         | ND     |           | ug/kg | 50  | 9.8 |
| Dichlorodifluoromethane                                                                         | ND     |           | ug/kg | 500 | 46. |
| Acetone                                                                                         | ND     |           | ug/kg | 500 | 240 |
| Carbon disulfide                                                                                | ND     |           | ug/kg | 500 | 230 |
| 2-Butanone                                                                                      | ND     |           | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone                                                                            | ND     |           | ug/kg | 500 | 64. |
| 2-Hexanone                                                                                      | ND     |           | ug/kg | 500 | 59. |
| 1,2-Dibromoethane                                                                               | ND     |           | ug/kg | 50  | 14. |
| n-Butylbenzene                                                                                  | ND     |           | ug/kg | 50  | 8.4 |
| sec-Butylbenzene                                                                                | ND     |           | ug/kg | 50  | 7.3 |
| tert-Butylbenzene                                                                               | ND     |           | ug/kg | 100 | 5.9 |
| 1,2-Dibromo-3-chloropropane                                                                     | ND     |           | ug/kg | 150 | 50. |
| Isopropylbenzene                                                                                | ND     |           | ug/kg | 50  | 5.4 |
| p-Isopropyltoluene                                                                              | ND     |           | ug/kg | 50  | 5.4 |
| Naphthalene                                                                                     | ND     |           | ug/kg | 200 | 32. |
| n-Propylbenzene                                                                                 | ND     |           | ug/kg | 50  | 8.6 |
| 1,2,4-Trichlorobenzene                                                                          | ND     |           | ug/kg | 100 | 14. |
| 1,3,5-Trimethylbenzene                                                                          | ND     |           | ug/kg | 100 | 9.6 |
| 1,2,4-Trimethylbenzene                                                                          | ND     |           | ug/kg | 100 | 17. |
| Methyl Acetate                                                                                  | ND     |           | ug/kg | 200 | 48. |
| Cyclohexane                                                                                     | ND     |           | ug/kg | 500 | 27. |
| Freon-113                                                                                       | ND     |           | ug/kg | 200 | 35. |
| Methyl cyclohexane                                                                              | ND     |           | ug/kg | 200 | 30. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/27/19 07:00  
 Analyst: MV

| Parameter                                                                                       | Result | Qualifier | Units | RL | MDL |
|-------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02-03,06 Batch: WG1325770-5 |        |           |       |    |     |

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 95        |           | 70-130              |
| Toluene-d8            | 100       |           | 70-130              |
| 4-Bromofluorobenzene  | 93        |           | 70-130              |
| Dibromofluoromethane  | 95        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/30/19 07:20  
 Analyst: MV

| Parameter                                                                                 | Result | Qualifier | Units | RL  | MDL |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1325794-5 |        |           |       |     |     |
| Methylene chloride                                                                        | ND     |           | ug/kg | 250 | 110 |
| 1,1-Dichloroethane                                                                        | ND     |           | ug/kg | 50  | 7.2 |
| Chloroform                                                                                | ND     |           | ug/kg | 75  | 7.0 |
| Carbon tetrachloride                                                                      | ND     |           | ug/kg | 50  | 12. |
| 1,2-Dichloropropane                                                                       | ND     |           | ug/kg | 50  | 6.2 |
| Dibromochloromethane                                                                      | ND     |           | ug/kg | 50  | 7.0 |
| 1,1,2-Trichloroethane                                                                     | ND     |           | ug/kg | 50  | 13. |
| Tetrachloroethene                                                                         | ND     |           | ug/kg | 25  | 9.8 |
| Chlorobenzene                                                                             | ND     |           | ug/kg | 25  | 6.4 |
| Trichlorofluoromethane                                                                    | ND     |           | ug/kg | 200 | 35. |
| 1,2-Dichloroethane                                                                        | ND     |           | ug/kg | 50  | 13. |
| 1,1,1-Trichloroethane                                                                     | ND     |           | ug/kg | 25  | 8.4 |
| Bromodichloromethane                                                                      | ND     |           | ug/kg | 25  | 5.4 |
| trans-1,3-Dichloropropene                                                                 | ND     |           | ug/kg | 50  | 14. |
| cis-1,3-Dichloropropene                                                                   | ND     |           | ug/kg | 25  | 7.9 |
| Bromoform                                                                                 | ND     |           | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane                                                                 | ND     |           | ug/kg | 25  | 8.3 |
| Benzene                                                                                   | ND     |           | ug/kg | 25  | 8.3 |
| Toluene                                                                                   | ND     |           | ug/kg | 50  | 27. |
| Ethylbenzene                                                                              | ND     |           | ug/kg | 50  | 7.0 |
| Chloromethane                                                                             | ND     |           | ug/kg | 200 | 47. |
| Bromomethane                                                                              | ND     |           | ug/kg | 100 | 29. |
| Vinyl chloride                                                                            | ND     |           | ug/kg | 50  | 17. |
| Chloroethane                                                                              | ND     |           | ug/kg | 100 | 23. |
| 1,1-Dichloroethene                                                                        | ND     |           | ug/kg | 50  | 12. |
| trans-1,2-Dichloroethene                                                                  | ND     |           | ug/kg | 75  | 6.8 |
| Trichloroethene                                                                           | ND     |           | ug/kg | 25  | 6.8 |
| 1,2-Dichlorobenzene                                                                       | ND     |           | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene                                                                       | ND     |           | ug/kg | 100 | 7.4 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 12/30/19 07:20  
 Analyst: MV

| Parameter                                                                                 | Result | Qualifier | Units | RL  | MDL |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1325794-5 |        |           |       |     |     |
| 1,4-Dichlorobenzene                                                                       | ND     |           | ug/kg | 100 | 8.6 |
| Methyl tert butyl ether                                                                   | 13     | J         | ug/kg | 100 | 10. |
| p/m-Xylene                                                                                | ND     |           | ug/kg | 100 | 28. |
| o-Xylene                                                                                  | ND     |           | ug/kg | 50  | 14. |
| cis-1,2-Dichloroethene                                                                    | ND     |           | ug/kg | 50  | 8.8 |
| Styrene                                                                                   | ND     |           | ug/kg | 50  | 9.8 |
| Dichlorodifluoromethane                                                                   | ND     |           | ug/kg | 500 | 46. |
| Acetone                                                                                   | ND     |           | ug/kg | 500 | 240 |
| Carbon disulfide                                                                          | ND     |           | ug/kg | 500 | 230 |
| 2-Butanone                                                                                | ND     |           | ug/kg | 500 | 110 |
| 4-Methyl-2-pentanone                                                                      | ND     |           | ug/kg | 500 | 64. |
| 2-Hexanone                                                                                | ND     |           | ug/kg | 500 | 59. |
| 1,2-Dibromoethane                                                                         | ND     |           | ug/kg | 50  | 14. |
| n-Butylbenzene                                                                            | ND     |           | ug/kg | 50  | 8.4 |
| sec-Butylbenzene                                                                          | ND     |           | ug/kg | 50  | 7.3 |
| tert-Butylbenzene                                                                         | ND     |           | ug/kg | 100 | 5.9 |
| 1,2-Dibromo-3-chloropropane                                                               | ND     |           | ug/kg | 150 | 50. |
| Isopropylbenzene                                                                          | ND     |           | ug/kg | 50  | 5.4 |
| p-Isopropyltoluene                                                                        | ND     |           | ug/kg | 50  | 5.4 |
| Naphthalene                                                                               | ND     |           | ug/kg | 200 | 32. |
| n-Propylbenzene                                                                           | ND     |           | ug/kg | 50  | 8.6 |
| 1,2,4-Trichlorobenzene                                                                    | ND     |           | ug/kg | 100 | 14. |
| 1,3,5-Trimethylbenzene                                                                    | ND     |           | ug/kg | 100 | 9.6 |
| 1,2,4-Trimethylbenzene                                                                    | ND     |           | ug/kg | 100 | 17. |
| Methyl Acetate                                                                            | ND     |           | ug/kg | 200 | 48. |
| Cyclohexane                                                                               | ND     |           | ug/kg | 500 | 27. |
| Freon-113                                                                                 | ND     |           | ug/kg | 200 | 35. |
| Methyl cyclohexane                                                                        | ND     |           | ug/kg | 200 | 30. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/30/19 07:20  
 Analyst: MV

| Parameter                                                                                 | Result | Qualifier | Units | RL | MDL |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1325794-5 |        |           |       |    |     |

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/kg

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 89        |           | 70-130              |
| Toluene-d8            | 90        |           | 70-130              |
| 4-Bromofluorobenzene  | 100       |           | 70-130              |
| Dibromofluoromethane  | 96        |           | 70-130              |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1325623-3 WG1325623-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                          | 97               |      | 96                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloroethane                                                                                          | 98               |      | 96                |      | 70-130              | 2   |      | 30            |
| Chloroform                                                                                                  | 100              |      | 98                |      | 70-130              | 2   |      | 30            |
| Carbon tetrachloride                                                                                        | 104              |      | 102               |      | 70-130              | 2   |      | 30            |
| 1,2-Dichloropropane                                                                                         | 97               |      | 95                |      | 70-130              | 2   |      | 30            |
| Dibromochloromethane                                                                                        | 100              |      | 97                |      | 70-130              | 3   |      | 30            |
| 1,1,2-Trichloroethane                                                                                       | 99               |      | 95                |      | 70-130              | 4   |      | 30            |
| Tetrachloroethene                                                                                           | 94               |      | 91                |      | 70-130              | 3   |      | 30            |
| Chlorobenzene                                                                                               | 93               |      | 90                |      | 70-130              | 3   |      | 30            |
| Trichlorofluoromethane                                                                                      | 196              | Q    | 187               | Q    | 70-139              | 5   |      | 30            |
| 1,2-Dichloroethane                                                                                          | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| 1,1,1-Trichloroethane                                                                                       | 102              |      | 100               |      | 70-130              | 2   |      | 30            |
| Bromodichloromethane                                                                                        | 104              |      | 102               |      | 70-130              | 2   |      | 30            |
| trans-1,3-Dichloropropene                                                                                   | 92               |      | 89                |      | 70-130              | 3   |      | 30            |
| cis-1,3-Dichloropropene                                                                                     | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Bromoform                                                                                                   | 97               |      | 97                |      | 70-130              | 0   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                   | 94               |      | 91                |      | 70-130              | 3   |      | 30            |
| Benzene                                                                                                     | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| Toluene                                                                                                     | 94               |      | 90                |      | 70-130              | 4   |      | 30            |
| Ethylbenzene                                                                                                | 96               |      | 92                |      | 70-130              | 4   |      | 30            |
| Chloromethane                                                                                               | 93               |      | 91                |      | 52-130              | 2   |      | 30            |
| Bromomethane                                                                                                | 182              | Q    | 174               | Q    | 57-147              | 4   |      | 30            |
| Vinyl chloride                                                                                              | 138              | Q    | 129               |      | 67-130              | 7   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1325623-3 WG1325623-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                | 198              | Q    | 190               | Q    | 50-151              | 4   |      | 30            |
| 1,1-Dichloroethene                                                                                          | 140              | Q    | 106               |      | 65-135              | 28  |      | 30            |
| trans-1,2-Dichloroethene                                                                                    | 103              |      | 102               |      | 70-130              | 1   |      | 30            |
| Trichloroethene                                                                                             | 103              |      | 100               |      | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                         | 94               |      | 92                |      | 70-130              | 2   |      | 30            |
| 1,3-Dichlorobenzene                                                                                         | 94               |      | 92                |      | 70-130              | 2   |      | 30            |
| 1,4-Dichlorobenzene                                                                                         | 92               |      | 90                |      | 70-130              | 2   |      | 30            |
| Methyl tert butyl ether                                                                                     | 99               |      | 98                |      | 66-130              | 1   |      | 30            |
| p/m-Xylene                                                                                                  | 98               |      | 94                |      | 70-130              | 4   |      | 30            |
| o-Xylene                                                                                                    | 100              |      | 97                |      | 70-130              | 3   |      | 30            |
| cis-1,2-Dichloroethene                                                                                      | 101              |      | 101               |      | 70-130              | 0   |      | 30            |
| Styrene                                                                                                     | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| Dichlorodifluoromethane                                                                                     | 138              |      | 134               |      | 30-146              | 3   |      | 30            |
| Acetone                                                                                                     | 95               |      | 85                |      | 54-140              | 11  |      | 30            |
| Carbon disulfide                                                                                            | 136              | Q    | 105               |      | 59-130              | 26  |      | 30            |
| 2-Butanone                                                                                                  | 85               |      | 76                |      | 70-130              | 11  |      | 30            |
| 4-Methyl-2-pentanone                                                                                        | 85               |      | 79                |      | 70-130              | 7   |      | 30            |
| 2-Hexanone                                                                                                  | 81               |      | 75                |      | 70-130              | 8   |      | 30            |
| 1,2-Dibromoethane                                                                                           | 97               |      | 94                |      | 70-130              | 3   |      | 30            |
| n-Butylbenzene                                                                                              | 99               |      | 96                |      | 70-130              | 3   |      | 30            |
| sec-Butylbenzene                                                                                            | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| tert-Butylbenzene                                                                                           | 95               |      | 92                |      | 70-130              | 3   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                 | 87               |      | 83                |      | 68-130              | 5   |      | 30            |



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1325623-3 WG1325623-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                            | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| p-Isopropyltoluene                                                                                          | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Naphthalene                                                                                                 | 89               |      | 88                |      | 70-130              | 1   |      | 30            |
| n-Propylbenzene                                                                                             | 97               |      | 94                |      | 70-130              | 3   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                      | 91               |      | 89                |      | 70-130              | 2   |      | 30            |
| 1,3,5-Trimethylbenzene                                                                                      | 96               |      | 93                |      | 70-130              | 3   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                      | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Methyl Acetate                                                                                              | 87               |      | 85                |      | 51-146              | 2   |      | 30            |
| Cyclohexane                                                                                                 | 99               |      | 97                |      | 59-142              | 2   |      | 30            |
| Freon-113                                                                                                   | 137              |      | 112               |      | 50-139              | 20  |      | 30            |
| Methyl cyclohexane                                                                                          | 104              |      | 101               |      | 70-130              | 3   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 95               |      | 95                |      | 70-130                 |
| Toluene-d8            | 98               |      | 96                |      | 70-130                 |
| 4-Bromofluorobenzene  | 96               |      | 96                |      | 70-130                 |
| Dibromofluoromethane  | 102              |      | 103               |      | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1325768-3 WG1325768-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                          | 91               |      | 90                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloroethane                                                                                          | 104              |      | 100               |      | 70-130              | 4   |      | 30            |
| Chloroform                                                                                                  | 107              |      | 100               |      | 70-130              | 7   |      | 30            |
| Carbon tetrachloride                                                                                        | 115              |      | 107               |      | 70-130              | 7   |      | 30            |
| 1,2-Dichloropropane                                                                                         | 108              |      | 105               |      | 70-130              | 3   |      | 30            |
| Dibromochloromethane                                                                                        | 101              |      | 96                |      | 70-130              | 5   |      | 30            |
| 1,1,2-Trichloroethane                                                                                       | 98               |      | 92                |      | 70-130              | 6   |      | 30            |
| Tetrachloroethene                                                                                           | 109              |      | 103               |      | 70-130              | 6   |      | 30            |
| Chlorobenzene                                                                                               | 98               |      | 97                |      | 70-130              | 1   |      | 30            |
| Trichlorofluoromethane                                                                                      | 93               |      | 96                |      | 70-139              | 3   |      | 30            |
| 1,2-Dichloroethane                                                                                          | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| 1,1,1-Trichloroethane                                                                                       | 111              |      | 104               |      | 70-130              | 7   |      | 30            |
| Bromodichloromethane                                                                                        | 106              |      | 104               |      | 70-130              | 2   |      | 30            |
| trans-1,3-Dichloropropene                                                                                   | 104              |      | 99                |      | 70-130              | 5   |      | 30            |
| cis-1,3-Dichloropropene                                                                                     | 114              |      | 113               |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                                   | 96               |      | 103               |      | 70-130              | 7   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                   | 88               |      | 92                |      | 70-130              | 4   |      | 30            |
| Benzene                                                                                                     | 106              |      | 101               |      | 70-130              | 5   |      | 30            |
| Toluene                                                                                                     | 103              |      | 97                |      | 70-130              | 6   |      | 30            |
| Ethylbenzene                                                                                                | 107              |      | 103               |      | 70-130              | 4   |      | 30            |
| Chloromethane                                                                                               | 83               |      | 88                |      | 52-130              | 6   |      | 30            |
| Bromomethane                                                                                                | 119              |      | 114               |      | 57-147              | 4   |      | 30            |
| Vinyl chloride                                                                                              | 101              |      | 100               |      | 67-130              | 1   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1325768-3 WG1325768-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                | 115              |      | 108               |      | 50-151              | 6   |      | 30            |
| 1,1-Dichloroethene                                                                                          | 103              |      | 98                |      | 65-135              | 5   |      | 30            |
| trans-1,2-Dichloroethene                                                                                    | 106              |      | 103               |      | 70-130              | 3   |      | 30            |
| Trichloroethene                                                                                             | 112              |      | 107               |      | 70-130              | 5   |      | 30            |
| 1,2-Dichlorobenzene                                                                                         | 97               |      | 102               |      | 70-130              | 5   |      | 30            |
| 1,3-Dichlorobenzene                                                                                         | 98               |      | 103               |      | 70-130              | 5   |      | 30            |
| 1,4-Dichlorobenzene                                                                                         | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| Methyl tert butyl ether                                                                                     | 104              |      | 102               |      | 66-130              | 2   |      | 30            |
| p/m-Xylene                                                                                                  | 113              |      | 108               |      | 70-130              | 5   |      | 30            |
| o-Xylene                                                                                                    | 114              |      | 108               |      | 70-130              | 5   |      | 30            |
| cis-1,2-Dichloroethene                                                                                      | 112              |      | 105               |      | 70-130              | 6   |      | 30            |
| Styrene                                                                                                     | 116              |      | 109               |      | 70-130              | 6   |      | 30            |
| Dichlorodifluoromethane                                                                                     | 87               |      | 93                |      | 30-146              | 7   |      | 30            |
| Acetone                                                                                                     | 93               |      | 85                |      | 54-140              | 9   |      | 30            |
| Carbon disulfide                                                                                            | 87               |      | 85                |      | 59-130              | 2   |      | 30            |
| 2-Butanone                                                                                                  | 111              |      | 98                |      | 70-130              | 12  |      | 30            |
| 4-Methyl-2-pentanone                                                                                        | 104              |      | 96                |      | 70-130              | 8   |      | 30            |
| 2-Hexanone                                                                                                  | 98               |      | 95                |      | 70-130              | 3   |      | 30            |
| 1,2-Dibromoethane                                                                                           | 98               |      | 95                |      | 70-130              | 3   |      | 30            |
| n-Butylbenzene                                                                                              | 106              |      | 113               |      | 70-130              | 6   |      | 30            |
| sec-Butylbenzene                                                                                            | 107              |      | 113               |      | 70-130              | 5   |      | 30            |
| tert-Butylbenzene                                                                                           | 107              |      | 113               |      | 70-130              | 5   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                 | 95               |      | 102               |      | 68-130              | 7   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 Batch: WG1325768-3 WG1325768-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                            | 107              |      | 116               |      | 70-130              | 8   |      | 30            |
| p-Isopropyltoluene                                                                                          | 111              |      | 113               |      | 70-130              | 2   |      | 30            |
| Naphthalene                                                                                                 | 107              |      | 117               |      | 70-130              | 9   |      | 30            |
| n-Propylbenzene                                                                                             | 104              |      | 106               |      | 70-130              | 2   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                      | 104              |      | 116               |      | 70-130              | 11  |      | 30            |
| 1,3,5-Trimethylbenzene                                                                                      | 105              |      | 111               |      | 70-130              | 6   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                      | 107              |      | 114               |      | 70-130              | 6   |      | 30            |
| Methyl Acetate                                                                                              | 93               |      | 92                |      | 51-146              | 1   |      | 30            |
| Cyclohexane                                                                                                 | 123              |      | 112               |      | 59-142              | 9   |      | 30            |
| Freon-113                                                                                                   | 104              |      | 102               |      | 50-139              | 2   |      | 30            |
| Methyl cyclohexane                                                                                          | 120              |      | 114               |      | 70-130              | 5   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 96               |      | 95                |      | 70-130                 |
| Toluene-d8            | 99               |      | 96                |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 111               |      | 70-130                 |
| Dibromofluoromethane  | 104              |      | 99                |      | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1325770-3 WG1325770-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                                 | 91               |      | 90                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloroethane                                                                                                 | 104              |      | 100               |      | 70-130              | 4   |      | 30            |
| Chloroform                                                                                                         | 107              |      | 100               |      | 70-130              | 7   |      | 30            |
| Carbon tetrachloride                                                                                               | 115              |      | 107               |      | 70-130              | 7   |      | 30            |
| 1,2-Dichloropropane                                                                                                | 108              |      | 105               |      | 70-130              | 3   |      | 30            |
| Dibromochloromethane                                                                                               | 101              |      | 96                |      | 70-130              | 5   |      | 30            |
| 1,1,2-Trichloroethane                                                                                              | 98               |      | 92                |      | 70-130              | 6   |      | 30            |
| Tetrachloroethene                                                                                                  | 109              |      | 103               |      | 70-130              | 6   |      | 30            |
| Chlorobenzene                                                                                                      | 98               |      | 97                |      | 70-130              | 1   |      | 30            |
| Trichlorofluoromethane                                                                                             | 93               |      | 96                |      | 70-139              | 3   |      | 30            |
| 1,2-Dichloroethane                                                                                                 | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| 1,1,1-Trichloroethane                                                                                              | 111              |      | 104               |      | 70-130              | 7   |      | 30            |
| Bromodichloromethane                                                                                               | 106              |      | 104               |      | 70-130              | 2   |      | 30            |
| trans-1,3-Dichloropropene                                                                                          | 104              |      | 99                |      | 70-130              | 5   |      | 30            |
| cis-1,3-Dichloropropene                                                                                            | 114              |      | 113               |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                                          | 96               |      | 103               |      | 70-130              | 7   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                          | 88               |      | 92                |      | 70-130              | 4   |      | 30            |
| Benzene                                                                                                            | 106              |      | 101               |      | 70-130              | 5   |      | 30            |
| Toluene                                                                                                            | 103              |      | 97                |      | 70-130              | 6   |      | 30            |
| Ethylbenzene                                                                                                       | 107              |      | 103               |      | 70-130              | 4   |      | 30            |
| Chloromethane                                                                                                      | 83               |      | 88                |      | 52-130              | 6   |      | 30            |
| Bromomethane                                                                                                       | 119              |      | 114               |      | 57-147              | 4   |      | 30            |
| Vinyl chloride                                                                                                     | 101              |      | 100               |      | 67-130              | 1   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1961284

**Project Number:** 2182207

**Report Date:** 12/30/19

| Parameter                                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1325770-3 WG1325770-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                       | 115              |      | 108               |      | 50-151              | 6   |      | 30            |
| 1,1-Dichloroethene                                                                                                 | 103              |      | 98                |      | 65-135              | 5   |      | 30            |
| trans-1,2-Dichloroethene                                                                                           | 106              |      | 103               |      | 70-130              | 3   |      | 30            |
| Trichloroethene                                                                                                    | 112              |      | 107               |      | 70-130              | 5   |      | 30            |
| 1,2-Dichlorobenzene                                                                                                | 97               |      | 102               |      | 70-130              | 5   |      | 30            |
| 1,3-Dichlorobenzene                                                                                                | 98               |      | 103               |      | 70-130              | 5   |      | 30            |
| 1,4-Dichlorobenzene                                                                                                | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| Methyl tert butyl ether                                                                                            | 104              |      | 102               |      | 66-130              | 2   |      | 30            |
| p/m-Xylene                                                                                                         | 113              |      | 108               |      | 70-130              | 5   |      | 30            |
| o-Xylene                                                                                                           | 114              |      | 108               |      | 70-130              | 5   |      | 30            |
| cis-1,2-Dichloroethene                                                                                             | 112              |      | 105               |      | 70-130              | 6   |      | 30            |
| Styrene                                                                                                            | 116              |      | 109               |      | 70-130              | 6   |      | 30            |
| Dichlorodifluoromethane                                                                                            | 87               |      | 93                |      | 30-146              | 7   |      | 30            |
| Acetone                                                                                                            | 93               |      | 85                |      | 54-140              | 9   |      | 30            |
| Carbon disulfide                                                                                                   | 87               |      | 85                |      | 59-130              | 2   |      | 30            |
| 2-Butanone                                                                                                         | 111              |      | 98                |      | 70-130              | 12  |      | 30            |
| 4-Methyl-2-pentanone                                                                                               | 104              |      | 96                |      | 70-130              | 8   |      | 30            |
| 2-Hexanone                                                                                                         | 98               |      | 95                |      | 70-130              | 3   |      | 30            |
| 1,2-Dibromoethane                                                                                                  | 98               |      | 95                |      | 70-130              | 3   |      | 30            |
| n-Butylbenzene                                                                                                     | 106              |      | 113               |      | 70-130              | 6   |      | 30            |
| sec-Butylbenzene                                                                                                   | 107              |      | 113               |      | 70-130              | 5   |      | 30            |
| tert-Butylbenzene                                                                                                  | 107              |      | 113               |      | 70-130              | 5   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                        | 95               |      | 102               |      | 68-130              | 7   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02-03,06 Batch: WG1325770-3 WG1325770-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                                   | 107              |      | 116               |      | 70-130              | 8   |      | 30            |
| p-Isopropyltoluene                                                                                                 | 111              |      | 113               |      | 70-130              | 2   |      | 30            |
| Naphthalene                                                                                                        | 107              |      | 117               |      | 70-130              | 9   |      | 30            |
| n-Propylbenzene                                                                                                    | 104              |      | 106               |      | 70-130              | 2   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                             | 104              |      | 116               |      | 70-130              | 11  |      | 30            |
| 1,3,5-Trimethylbenzene                                                                                             | 105              |      | 111               |      | 70-130              | 6   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                             | 107              |      | 114               |      | 70-130              | 6   |      | 30            |
| Methyl Acetate                                                                                                     | 93               |      | 92                |      | 51-146              | 1   |      | 30            |
| Cyclohexane                                                                                                        | 123              |      | 112               |      | 59-142              | 9   |      | 30            |
| Freon-113                                                                                                          | 104              |      | 102               |      | 50-139              | 2   |      | 30            |
| Methyl cyclohexane                                                                                                 | 120              |      | 114               |      | 70-130              | 5   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 96               |      | 95                |      | 70-130                 |
| Toluene-d8            | 99               |      | 96                |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 110               |      | 70-130                 |
| Dibromofluoromethane  | 104              |      | 100               |      | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1961284

**Project Number:** 2182207

**Report Date:** 12/30/19

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1325794-3 WG1325794-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                           | 86               |      | 84                |      | 70-130              | 2   |      | 30            |
| 1,1-Dichloroethane                                                                                           | 92               |      | 87                |      | 70-130              | 6   |      | 30            |
| Chloroform                                                                                                   | 93               |      | 88                |      | 70-130              | 6   |      | 30            |
| Carbon tetrachloride                                                                                         | 100              |      | 93                |      | 70-130              | 7   |      | 30            |
| 1,2-Dichloropropane                                                                                          | 93               |      | 90                |      | 70-130              | 3   |      | 30            |
| Dibromochloromethane                                                                                         | 87               |      | 84                |      | 70-130              | 4   |      | 30            |
| 1,1,2-Trichloroethane                                                                                        | 83               |      | 80                |      | 70-130              | 4   |      | 30            |
| Tetrachloroethene                                                                                            | 97               |      | 90                |      | 70-130              | 7   |      | 30            |
| Chlorobenzene                                                                                                | 89               |      | 83                |      | 70-130              | 7   |      | 30            |
| Trichlorofluoromethane                                                                                       | 96               |      | 88                |      | 70-139              | 9   |      | 30            |
| 1,2-Dichloroethane                                                                                           | 86               |      | 84                |      | 70-130              | 2   |      | 30            |
| 1,1,1-Trichloroethane                                                                                        | 98               |      | 90                |      | 70-130              | 9   |      | 30            |
| Bromodichloromethane                                                                                         | 92               |      | 89                |      | 70-130              | 3   |      | 30            |
| trans-1,3-Dichloropropene                                                                                    | 89               |      | 85                |      | 70-130              | 5   |      | 30            |
| cis-1,3-Dichloropropene                                                                                      | 102              |      | 98                |      | 70-130              | 4   |      | 30            |
| Bromoform                                                                                                    | 86               |      | 83                |      | 70-130              | 4   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                    | 77               |      | 75                |      | 70-130              | 3   |      | 30            |
| Benzene                                                                                                      | 97               |      | 90                |      | 70-130              | 7   |      | 30            |
| Toluene                                                                                                      | 89               |      | 83                |      | 70-130              | 7   |      | 30            |
| Ethylbenzene                                                                                                 | 93               |      | 87                |      | 70-130              | 7   |      | 30            |
| Chloromethane                                                                                                | 83               |      | 75                |      | 52-130              | 10  |      | 30            |
| Bromomethane                                                                                                 | 99               |      | 90                |      | 57-147              | 10  |      | 30            |
| Vinyl chloride                                                                                               | 88               |      | 79                |      | 67-130              | 11  |      | 30            |



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1325794-3 WG1325794-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                 | 87               |      | 79                |      | 50-151              | 10  |      | 30            |
| 1,1-Dichloroethene                                                                                           | 102              |      | 94                |      | 65-135              | 8   |      | 30            |
| trans-1,2-Dichloroethene                                                                                     | 101              |      | 94                |      | 70-130              | 7   |      | 30            |
| Trichloroethene                                                                                              | 99               |      | 93                |      | 70-130              | 6   |      | 30            |
| 1,2-Dichlorobenzene                                                                                          | 84               |      | 83                |      | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                                                                                          | 86               |      | 82                |      | 70-130              | 5   |      | 30            |
| 1,4-Dichlorobenzene                                                                                          | 85               |      | 81                |      | 70-130              | 5   |      | 30            |
| Methyl tert butyl ether                                                                                      | 98               |      | 97                |      | 66-130              | 1   |      | 30            |
| p/m-Xylene                                                                                                   | 99               |      | 92                |      | 70-130              | 7   |      | 30            |
| o-Xylene                                                                                                     | 99               |      | 92                |      | 70-130              | 7   |      | 30            |
| cis-1,2-Dichloroethene                                                                                       | 100              |      | 96                |      | 70-130              | 4   |      | 30            |
| Styrene                                                                                                      | 98               |      | 92                |      | 70-130              | 6   |      | 30            |
| Dichlorodifluoromethane                                                                                      | 83               |      | 76                |      | 30-146              | 9   |      | 30            |
| Acetone                                                                                                      | 85               |      | 88                |      | 54-140              | 3   |      | 30            |
| Carbon disulfide                                                                                             | 85               |      | 78                |      | 59-130              | 9   |      | 30            |
| 2-Butanone                                                                                                   | 88               |      | 90                |      | 70-130              | 2   |      | 30            |
| 4-Methyl-2-pentanone                                                                                         | 89               |      | 86                |      | 70-130              | 3   |      | 30            |
| 2-Hexanone                                                                                                   | 86               |      | 84                |      | 70-130              | 2   |      | 30            |
| 1,2-Dibromoethane                                                                                            | 88               |      | 85                |      | 70-130              | 3   |      | 30            |
| n-Butylbenzene                                                                                               | 91               |      | 85                |      | 70-130              | 7   |      | 30            |
| sec-Butylbenzene                                                                                             | 94               |      | 87                |      | 70-130              | 8   |      | 30            |
| tert-Butylbenzene                                                                                            | 96               |      | 89                |      | 70-130              | 8   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                  | 85               |      | 86                |      | 68-130              | 1   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1325794-3 WG1325794-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                             | 96               |      | 90                |      | 70-130              | 6   |      | 30            |
| p-Isopropyltoluene                                                                                           | 98               |      | 92                |      | 70-130              | 6   |      | 30            |
| Naphthalene                                                                                                  | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| n-Propylbenzene                                                                                              | 91               |      | 85                |      | 70-130              | 7   |      | 30            |
| 1,2,4-Trichlorobenzene                                                                                       | 95               |      | 93                |      | 70-130              | 2   |      | 30            |
| 1,3,5-Trimethylbenzene                                                                                       | 93               |      | 87                |      | 70-130              | 7   |      | 30            |
| 1,2,4-Trimethylbenzene                                                                                       | 95               |      | 89                |      | 70-130              | 7   |      | 30            |
| Methyl Acetate                                                                                               | 83               |      | 84                |      | 51-146              | 1   |      | 30            |
| Cyclohexane                                                                                                  | 105              |      | 96                |      | 59-142              | 9   |      | 30            |
| Freon-113                                                                                                    | 102              |      | 95                |      | 50-139              | 7   |      | 30            |
| Methyl cyclohexane                                                                                           | 108              |      | 99                |      | 70-130              | 9   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 87               |      | 88                |      | 70-130                 |
| Toluene-d8            | 93               |      | 93                |      | 70-130                 |
| 4-Bromofluorobenzene  | 101              |      | 102               |      | 70-130                 |
| Dibromofluoromethane  | 98               |      | 99                |      | 70-130                 |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1325768-6 WG1325768-7 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |          |          |              |      |           |               |      |                 |     |      |            |
| Methylene chloride                                                                                                                                                         | ND            | 75.1     | 59       | 78           |      | 64        | 86            |      | 70-130          | 8   |      | 30         |
| 1,1-Dichloroethane                                                                                                                                                         | ND            | 75.1     | 61       | 81           |      | 72        | 98            |      | 70-130          | 17  |      | 30         |
| Chloroform                                                                                                                                                                 | 0.29J         | 75.1     | 60       | 80           |      | 66        | 90            |      | 70-130          | 10  |      | 30         |
| Carbon tetrachloride                                                                                                                                                       | ND            | 75.1     | 65       | 87           |      | 76        | 104           |      | 70-130          | 15  |      | 30         |
| 1,2-Dichloropropane                                                                                                                                                        | ND            | 75.1     | 68       | 91           |      | 70        | 96            |      | 70-130          | 3   |      | 30         |
| Dibromochloromethane                                                                                                                                                       | ND            | 75.1     | 58       | 78           |      | 57        | 77            |      | 70-130          | 3   |      | 30         |
| 1,1,2-Trichloroethane                                                                                                                                                      | ND            | 75.1     | 58       | 76           |      | 56        | 75            |      | 70-130          | 4   |      | 30         |
| Tetrachloroethene                                                                                                                                                          | ND            | 75.1     | 53       | 70           |      | 58        | 79            |      | 70-130          | 10  |      | 30         |
| Chlorobenzene                                                                                                                                                              | ND            | 75.1     | 49       | 65           | Q    | 51        | 70            |      | 70-130          | 5   |      | 30         |
| Trichlorofluoromethane                                                                                                                                                     | ND            | 75.1     | 69       | 92           |      | 67        | 90            |      | 70-139          | 4   |      | 30         |
| 1,2-Dichloroethane                                                                                                                                                         | ND            | 75.1     | 63       | 83           |      | 65        | 88            |      | 70-130          | 3   |      | 30         |
| 1,1,1-Trichloroethane                                                                                                                                                      | ND            | 75.1     | 59       | 78           |      | 75        | 102           |      | 70-130          | 24  |      | 30         |
| Bromodichloromethane                                                                                                                                                       | ND            | 75.1     | 66       | 88           |      | 66        | 90            |      | 70-130          | 0   |      | 30         |
| trans-1,3-Dichloropropene                                                                                                                                                  | ND            | 75.1     | 57       | 76           |      | 55        | 74            |      | 70-130          | 4   |      | 30         |
| cis-1,3-Dichloropropene                                                                                                                                                    | ND            | 75.1     | 67       | 89           |      | 70        | 95            |      | 70-130          | 5   |      | 30         |
| Bromoform                                                                                                                                                                  | ND            | 75.1     | 56       | 74           |      | 54        | 73            |      | 70-130          | 3   |      | 30         |
| 1,1,1,2,2-Tetrachloroethane                                                                                                                                                | ND            | 75.1     | 50       | 67           | Q    | 49        | 66            | Q    | 70-130          | 3   |      | 30         |
| Benzene                                                                                                                                                                    | ND            | 75.1     | 58       | 77           |      | 71        | 96            |      | 70-130          | 19  |      | 30         |
| Toluene                                                                                                                                                                    | ND            | 75.1     | 55       | 74           |      | 57        | 78            |      | 70-130          | 4   |      | 30         |
| Ethylbenzene                                                                                                                                                               | ND            | 75.1     | 50       | 67           | Q    | 55        | 75            |      | 70-130          | 10  |      | 30         |
| Chloromethane                                                                                                                                                              | ND            | 75.1     | 64       | 85           |      | 66        | 89            |      | 52-130          | 2   |      | 30         |
| Bromomethane                                                                                                                                                               | ND            | 75.1     | 81       | 108          |      | 80        | 109           |      | 57-147          | 1   |      | 30         |
| Vinyl chloride                                                                                                                                                             | ND            | 75.1     | 72       | 95           |      | 76        | 103           |      | 67-130          | 6   |      | 30         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1325768-6 WG1325768-7 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |          |          |              |      |           |               |      |                 |     |      |            |
| Chloroethane                                                                                                                                                               | ND            | 75.1     | 74       | 99           |      | 74        | 100           |      | 50-151          | 1   |      | 30         |
| 1,1-Dichloroethene                                                                                                                                                         | ND            | 75.1     | 74       | 99           |      | 76        | 103           |      | 65-135          | 2   |      | 30         |
| trans-1,2-Dichloroethene                                                                                                                                                   | ND            | 75.1     | 65       | 87           |      | 73        | 99            |      | 70-130          | 11  |      | 30         |
| Trichloroethene                                                                                                                                                            | 0.82          | 75.1     | 68       | 89           |      | 72        | 97            |      | 70-130          | 6   |      | 30         |
| 1,2-Dichlorobenzene                                                                                                                                                        | ND            | 75.1     | 40       | 53           | Q    | 40        | 54            | Q    | 70-130          | 1   |      | 30         |
| 1,3-Dichlorobenzene                                                                                                                                                        | ND            | 75.1     | 37       | 50           | Q    | 40        | 54            | Q    | 70-130          | 6   |      | 30         |
| 1,4-Dichlorobenzene                                                                                                                                                        | ND            | 75.1     | 36       | 48           | Q    | 39        | 52            | Q    | 70-130          | 6   |      | 30         |
| Methyl tert butyl ether                                                                                                                                                    | ND            | 75.1     | 68       | 90           |      | 73        | 100           |      | 66-130          | 8   |      | 30         |
| p/m-Xylene                                                                                                                                                                 | ND            | 150      | 100      | 67           | Q    | 110       | 75            |      | 70-130          | 10  |      | 30         |
| o-Xylene                                                                                                                                                                   | ND            | 150      | 110      | 71           |      | 110       | 77            |      | 70-130          | 6   |      | 30         |
| cis-1,2-Dichloroethene                                                                                                                                                     | ND            | 75.1     | 60       | 79           |      | 73        | 99            |      | 70-130          | 20  |      | 30         |
| Styrene                                                                                                                                                                    | ND            | 150      | 100      | 69           | Q    | 110       | 72            |      | 70-130          | 2   |      | 30         |
| Dichlorodifluoromethane                                                                                                                                                    | ND            | 75.1     | 73       | 97           |      | 74        | 101           |      | 30-146          | 2   |      | 30         |
| Acetone                                                                                                                                                                    | 64            | 75.1     | 60       | 0            | Q    | 67        | 4             | Q    | 54-140          | 11  |      | 30         |
| Carbon disulfide                                                                                                                                                           | ND            | 75.1     | 61       | 80           |      | 61        | 83            |      | 59-130          | 0   |      | 30         |
| 2-Butanone                                                                                                                                                                 | ND            | 75.1     | 54       | 72           |      | 65        | 88            |      | 70-130          | 18  |      | 30         |
| 4-Methyl-2-pentanone                                                                                                                                                       | ND            | 75.1     | 63       | 84           |      | 60        | 81            |      | 70-130          | 5   |      | 30         |
| 2-Hexanone                                                                                                                                                                 | ND            | 75.1     | 60       | 80           |      | 52        | 70            |      | 70-130          | 16  |      | 30         |
| 1,2-Dibromoethane                                                                                                                                                          | ND            | 75.1     | 57       | 76           |      | 56        | 76            |      | 70-130          | 3   |      | 30         |
| n-Butylbenzene                                                                                                                                                             | ND            | 75.1     | 29       | 39           | Q    | 40        | 54            | Q    | 70-130          | 30  |      | 30         |
| sec-Butylbenzene                                                                                                                                                           | ND            | 75.1     | 37       | 49           | Q    | 47        | 64            | Q    | 70-130          | 24  |      | 30         |
| tert-Butylbenzene                                                                                                                                                          | ND            | 75.1     | 42       | 56           | Q    | 51        | 69            | Q    | 70-130          | 19  |      | 30         |
| 1,2-Dibromo-3-chloropropane                                                                                                                                                | ND            | 75.1     | 56       | 74           |      | 53        | 72            |      | 68-130          | 5   |      | 30         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1325768-6 WG1325768-7 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |          |          |              |      |           |               |      |                 |     |      |            |
| Isopropylbenzene                                                                                                                                                           | ND            | 75.1     | 46       | 61           | Q    | 54        | 74            |      | 70-130          | 17  |      | 30         |
| p-Isopropyltoluene                                                                                                                                                         | ND            | 75.1     | 36       | 48           | Q    | 47        | 63            | Q    | 70-130          | 26  |      | 30         |
| Naphthalene                                                                                                                                                                | ND            | 75.1     | 46       | 61           | Q    | 36        | 48            | Q    | 70-130          | 25  |      | 30         |
| n-Propylbenzene                                                                                                                                                            | ND            | 75.1     | 38       | 51           | Q    | 48        | 65            | Q    | 70-130          | 22  |      | 30         |
| 1,2,4-Trichlorobenzene                                                                                                                                                     | ND            | 75.1     | 35       | 47           | Q    | 35        | 48            | Q    | 70-130          | 1   |      | 30         |
| 1,3,5-Trimethylbenzene                                                                                                                                                     | ND            | 75.1     | 41       | 54           | Q    | 47        | 64            | Q    | 70-130          | 16  |      | 30         |
| 1,2,4-Trimethylbenzene                                                                                                                                                     | ND            | 75.1     | 41       | 54           | Q    | 45        | 62            | Q    | 70-130          | 11  |      | 30         |
| Methyl Acetate                                                                                                                                                             | 1.6J          | 75.1     | 79       | 105          |      | 110       | 143           |      | 51-146          | 29  |      | 30         |
| Cyclohexane                                                                                                                                                                | ND            | 75.1     | 67       | 89           |      | 80        | 108           |      | 59-142          | 18  |      | 30         |
| Freon-113                                                                                                                                                                  | ND            | 75.1     | 77       | 103          |      | 76        | 103           |      | 50-139          | 1   |      | 30         |
| Methyl cyclohexane                                                                                                                                                         | ND            | 75.1     | 77       | 102          |      | 74        | 100           |      | 70-130          | 5   |      | 30         |

| Surrogate             | MS % Recovery | Qualifier | MSD % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|---------------|-----------|----------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93            |           | 100            |           | 70-130              |
| 4-Bromofluorobenzene  | 99            |           | 102            |           | 70-130              |
| Dibromofluoromethane  | 85            |           | 105            |           | 70-130              |
| Toluene-d8            | 94            |           | 93             |           | 70-130              |

# SEMIVOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-01  
**Client ID:** TANK-EAST-122019 (10')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:10  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/24/19 02:09  
**Analyst:** EK  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 150 | 19. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 110 | 21. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 25. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 180 | 18. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 180 | 49. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 37. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 180 | 32. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 110 | 21. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 180 | 20. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 220 | 32. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 200 | 18. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 180 | 27. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 530 | 170 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 150 | 30. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 24. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 180 | 22. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 27. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 150 | 21. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 180 | 28. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 180 | 64. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 180 | 47. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 180 | 35. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 180 | 63. | 1               |
| Diethyl phthalate                                | ND     |           | ug/kg | 180 | 17. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 180 | 39. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 110 | 21. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 150 | 45. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS****Lab ID:** L1961284-01**Date Collected:** 12/20/19 10:10**Client ID:** TANK-EAST-122019 (10')**Date Received:** 12/20/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 110 | 31. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 110 | 30. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 110 | 19. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 150 | 28. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 110 | 36. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 150 | 22. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 180 | 18. | 1               |
| Phenanthrene                                     | ND     |           | ug/kg | 110 | 22. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 110 | 21. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 150 | 26. | 1               |
| Pyrene                                           | ND     |           | ug/kg | 110 | 18. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 420 | 43. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 180 | 34. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 180 | 36. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 180 | 35. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 180 | 77. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 180 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 220 | 22. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 180 | 19. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 180 | 23. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 110 | 35. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 180 | 28. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 180 | 22. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 30. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 180 | 61. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 400 | 70. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 260 | 76. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 890 | 86. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 480 | 89. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 150 | 41. | 1               |
| Phenol                                           | ND     |           | ug/kg | 180 | 28. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 180 | 29. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 270 | 29. | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 180 | 35. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 180 | 18. | 1               |
| Atrazine                                         | ND     |           | ug/kg | 150 | 65. | 1               |
| Benzaldehyde                                     | ND     |           | ug/kg | 240 | 50. | 1               |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-01  
**Client ID:** TANK-EAST-122019 (10')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:10  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 180 | 56. | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 180 | 37. | 1               |

## Tentatively Identified Compounds

|                                     |    |       |   |
|-------------------------------------|----|-------|---|
| No Tentatively Identified Compounds | ND | ug/kg | 1 |
|-------------------------------------|----|-------|---|

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 79         |           | 25-120              |
| Phenol-d6            | 80         |           | 10-120              |
| Nitrobenzene-d5      | 73         |           | 23-120              |
| 2-Fluorobiphenyl     | 74         |           | 30-120              |
| 2,4,6-Tribromophenol | 92         |           | 10-136              |
| 4-Terphenyl-d14      | 68         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-02  
**Client ID:** TANK-BOT-122019 (11')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/24/19 02:54  
**Analyst:** EK  
**Percent Solids:** 81%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | 42     | J         | ug/kg | 160 | 21. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 220 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | 210    |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 30. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 51. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 23. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 49. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS****Lab ID:** L1961284-02**Date Collected:** 12/20/19 10:30**Client ID:** TANK-BOT-122019 (11')**Date Received:** 12/20/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 34. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | ND     |           | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 24. | 1               |
| Fluorene                                         | 98     | J         | ug/kg | 200 | 20. | 1               |
| Phenanthrene                                     | 220    |           | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 20     | J         | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | 160    | J         | ug/kg | 460 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 39. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 83. | 1               |
| Dibenzofuran                                     | 74     | J         | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | 1200   |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 25. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 76. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 82. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 960 | 94. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 96. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 290 | 31. | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 20. | 1               |
| Atrazine                                         | ND     |           | ug/kg | 160 | 70. | 1               |
| Benzaldehyde                                     | ND     |           | ug/kg | 260 | 54. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-02  
**Client ID:** TANK-BOT-122019 (11')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 200 | 61. | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 200 | 40. | 1               |

## Tentatively Identified Compounds

|                     |       |   |       |  |  |   |
|---------------------|-------|---|-------|--|--|---|
| Total TIC Compounds | 23300 | J | ug/kg |  |  | 1 |
| Unknown PAH         | 814   | J | ug/kg |  |  | 1 |
| Unknown             | 1280  | J | ug/kg |  |  | 1 |
| Unknown             | 2190  | J | ug/kg |  |  | 1 |
| Unknown Alkane      | 3630  | J | ug/kg |  |  | 1 |
| Unknown Alkane      | 4300  | J | ug/kg |  |  | 1 |
| Unknown Cycloalkane | 941   | J | ug/kg |  |  | 1 |
| Unknown Naphthalene | 1340  | J | ug/kg |  |  | 1 |
| Unknown Naphthalene | 977   | J | ug/kg |  |  | 1 |
| Unknown PAH         | 1000  | J | ug/kg |  |  | 1 |
| Unknown             | 1250  | J | ug/kg |  |  | 1 |
| Unknown Naphthalene | 1070  | J | ug/kg |  |  | 1 |
| Unknown Alkane      | 920   | J | ug/kg |  |  | 1 |
| Unknown Alkane      | 1040  | J | ug/kg |  |  | 1 |
| Unknown Naphthalene | 1530  | J | ug/kg |  |  | 1 |
| Unknown PAH         | 975   | J | ug/kg |  |  | 1 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 82         |           | 25-120              |
| Phenol-d6            | 85         |           | 10-120              |
| Nitrobenzene-d5      | 78         |           | 23-120              |
| 2-Fluorobiphenyl     | 68         |           | 30-120              |
| 2,4,6-Tribromophenol | 105        |           | 10-136              |
| 4-Terphenyl-d14      | 69         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-03 D  
**Client ID:** TANK-WEST-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:40  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/26/19 17:59  
**Analyst:** EK  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                        | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Acenaphthene                                     | 1300   | J         | ug/kg | 1600 | 210  | 10              |
| Hexachlorobenzene                                | ND     |           | ug/kg | 1200 | 220  | 10              |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 1800 | 270  | 10              |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 2000 | 200  | 10              |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 2000 | 530  | 10              |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 2000 | 400  | 10              |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 2000 | 340  | 10              |
| Fluoranthene                                     | ND     |           | ug/kg | 1200 | 230  | 10              |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 2000 | 210  | 10              |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 2000 | 300  | 10              |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 2400 | 340  | 10              |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 2200 | 200  | 10              |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 2000 | 290  | 10              |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 5700 | 1800 | 10              |
| Hexachloroethane                                 | ND     |           | ug/kg | 1600 | 320  | 10              |
| Isophorone                                       | ND     |           | ug/kg | 1800 | 260  | 10              |
| Naphthalene                                      | 5500   |           | ug/kg | 2000 | 240  | 10              |
| Nitrobenzene                                     | ND     |           | ug/kg | 1800 | 300  | 10              |
| NDPA/DPA                                         | ND     |           | ug/kg | 1600 | 230  | 10              |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 2000 | 310  | 10              |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 2000 | 690  | 10              |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 2000 | 500  | 10              |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 2000 | 380  | 10              |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 2000 | 680  | 10              |
| Diethyl phthalate                                | ND     |           | ug/kg | 2000 | 180  | 10              |
| Dimethyl phthalate                               | ND     |           | ug/kg | 2000 | 420  | 10              |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 1200 | 220  | 10              |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 1600 | 490  | 10              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-03 D  
 Client ID: TANK-WEST-122019 (8')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 10:40  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 1200 | 340 | 10              |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 1200 | 320 | 10              |
| Chrysene                                         | ND     |           | ug/kg | 1200 | 210 | 10              |
| Acenaphthylene                                   | ND     |           | ug/kg | 1600 | 310 | 10              |
| Anthracene                                       | 520    | J         | ug/kg | 1200 | 390 | 10              |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 1600 | 230 | 10              |
| Fluorene                                         | 2500   |           | ug/kg | 2000 | 190 | 10              |
| Phenanthrene                                     | 5100   |           | ug/kg | 1200 | 240 | 10              |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 1200 | 230 | 10              |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 1600 | 280 | 10              |
| Pyrene                                           | 400    | J         | ug/kg | 1200 | 200 | 10              |
| Biphenyl                                         | 3700   | J         | ug/kg | 4600 | 460 | 10              |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 2000 | 360 | 10              |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 2000 | 380 | 10              |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 2000 | 380 | 10              |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 2000 | 830 | 10              |
| Dibenzofuran                                     | 1500   | J         | ug/kg | 2000 | 190 | 10              |
| 2-Methylnaphthalene                              | 30000  |           | ug/kg | 2400 | 240 | 10              |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 2000 | 210 | 10              |
| Acetophenone                                     | ND     |           | ug/kg | 2000 | 250 | 10              |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 1200 | 380 | 10              |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 2000 | 300 | 10              |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 2000 | 240 | 10              |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 1800 | 320 | 10              |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 2000 | 660 | 10              |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 4300 | 750 | 10              |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 2800 | 810 | 10              |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 9600 | 930 | 10              |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 5200 | 960 | 10              |
| Pentachlorophenol                                | ND     |           | ug/kg | 1600 | 440 | 10              |
| Phenol                                           | ND     |           | ug/kg | 2000 | 300 | 10              |
| 2-Methylphenol                                   | ND     |           | ug/kg | 2000 | 310 | 10              |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 2900 | 310 | 10              |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 2000 | 380 | 10              |
| Carbazole                                        | ND     |           | ug/kg | 2000 | 190 | 10              |
| Atrazine                                         | ND     |           | ug/kg | 1600 | 700 | 10              |
| Benzaldehyde                                     | ND     |           | ug/kg | 2600 | 540 | 10              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-03 D  
 Client ID: TANK-WEST-122019 (8')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 10:40  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 2000 | 610 | 10              |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 2000 | 400 | 10              |

## Tentatively Identified Compounds

|                     |        |   |       |  |  |    |
|---------------------|--------|---|-------|--|--|----|
| Total TIC Compounds | 646000 | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 25700  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 50500  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 61400  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 79300  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 33200  | J | ug/kg |  |  | 10 |
| Unknown             | 25200  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 167000 | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 22200  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 24600  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 37600  | J | ug/kg |  |  | 10 |
| Unknown Naphthalene | 27600  | J | ug/kg |  |  | 10 |
| Unknown Naphthalene | 25300  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 20000  | J | ug/kg |  |  | 10 |
| Unknown             | 27800  | J | ug/kg |  |  | 10 |
| Unknown Alkane      | 18900  | J | ug/kg |  |  | 10 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 87         |           | 25-120              |
| Phenol-d6            | 91         |           | 10-120              |
| Nitrobenzene-d5      | 133        | Q         | 23-120              |
| 2-Fluorobiphenyl     | 101        |           | 30-120              |
| 2,4,6-Tribromophenol | 92         |           | 10-136              |
| 4-Terphenyl-d14      | 98         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-04 D  
**Client ID:** TANK-SOUTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:15  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/26/19 18:23  
**Analyst:** EK  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Acenaphthene                                     | 460    | J         | ug/kg | 760  | 98. | 5               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 570  | 110 | 5               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 850  | 130 | 5               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 950  | 94. | 5               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 950  | 250 | 5               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 950  | 190 | 5               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 950  | 160 | 5               |
| Fluoranthene                                     | ND     |           | ug/kg | 570  | 110 | 5               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 950  | 100 | 5               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 950  | 140 | 5               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 1100 | 160 | 5               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 1000 | 95. | 5               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 950  | 140 | 5               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 2700 | 860 | 5               |
| Hexachloroethane                                 | ND     |           | ug/kg | 760  | 150 | 5               |
| Isophorone                                       | ND     |           | ug/kg | 850  | 120 | 5               |
| Naphthalene                                      | 2600   |           | ug/kg | 950  | 120 | 5               |
| Nitrobenzene                                     | ND     |           | ug/kg | 850  | 140 | 5               |
| NDPA/DPA                                         | ND     |           | ug/kg | 760  | 110 | 5               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 950  | 150 | 5               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 950  | 330 | 5               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 950  | 240 | 5               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 950  | 180 | 5               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 950  | 320 | 5               |
| Diethyl phthalate                                | ND     |           | ug/kg | 950  | 88. | 5               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 950  | 200 | 5               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 570  | 110 | 5               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 760  | 230 | 5               |



**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-04 D  
 Client ID: TANK-SOUTH-122019 (8')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 11:15  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 570  | 160 | 5               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 570  | 150 | 5               |
| Chrysene                                         | ND     |           | ug/kg | 570  | 99. | 5               |
| Acenaphthylene                                   | ND     |           | ug/kg | 760  | 150 | 5               |
| Anthracene                                       | ND     |           | ug/kg | 570  | 180 | 5               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 760  | 110 | 5               |
| Fluorene                                         | 980    |           | ug/kg | 950  | 92. | 5               |
| Phenanthrene                                     | 2300   |           | ug/kg | 570  | 120 | 5               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 570  | 110 | 5               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 760  | 130 | 5               |
| Pyrene                                           | 96     | J         | ug/kg | 570  | 94. | 5               |
| Biphenyl                                         | 1700   | J         | ug/kg | 2200 | 220 | 5               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 950  | 170 | 5               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 950  | 180 | 5               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 950  | 180 | 5               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 950  | 390 | 5               |
| Dibenzofuran                                     | 730    | J         | ug/kg | 950  | 90. | 5               |
| 2-Methylnaphthalene                              | 15000  |           | ug/kg | 1100 | 110 | 5               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 950  | 99. | 5               |
| Acetophenone                                     | ND     |           | ug/kg | 950  | 120 | 5               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 570  | 180 | 5               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 950  | 140 | 5               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 950  | 110 | 5               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 850  | 150 | 5               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 950  | 310 | 5               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 2000 | 360 | 5               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 1300 | 390 | 5               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 4600 | 440 | 5               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 2500 | 460 | 5               |
| Pentachlorophenol                                | ND     |           | ug/kg | 760  | 210 | 5               |
| Phenol                                           | ND     |           | ug/kg | 950  | 140 | 5               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 950  | 150 | 5               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 1400 | 150 | 5               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 950  | 180 | 5               |
| Carbazole                                        | ND     |           | ug/kg | 950  | 92. | 5               |
| Atrazine                                         | ND     |           | ug/kg | 760  | 330 | 5               |
| Benzaldehyde                                     | ND     |           | ug/kg | 1200 | 260 | 5               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-04 D  
 Client ID: TANK-SOUTH-122019 (8')  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 11:15  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 950 | 290 | 5               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 950 | 190 | 5               |

## Tentatively Identified Compounds

|                     |        |   |       |  |  |   |
|---------------------|--------|---|-------|--|--|---|
| Total TIC Compounds | 198000 | J | ug/kg |  |  | 5 |
| Unknown Benzene     | 6760   | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 12900  | J | ug/kg |  |  | 5 |
| Unknown             | 8380   | J | ug/kg |  |  | 5 |
| Unknown PAH         | 6550   | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 7070   | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 7020   | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 7330   | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 7880   | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 21400  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 14100  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 36000  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 10900  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 11000  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 12100  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 28900  | J | ug/kg |  |  | 5 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 90         |           | 25-120              |
| Phenol-d6            | 91         |           | 10-120              |
| Nitrobenzene-d5      | 94         |           | 23-120              |
| 2-Fluorobiphenyl     | 93         |           | 30-120              |
| 2,4,6-Tribromophenol | 93         |           | 10-136              |
| 4-Terphenyl-d14      | 95         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-05  
**Client ID:** TANK-NORTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/24/19 07:27  
**Analyst:** EK  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 170 | 26. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 190 | 19. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 190 | 52. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 39. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 190 | 33. | 1               |
| Fluoranthene                                     | 130    |           | ug/kg | 120 | 22. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 190 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 190 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 230 | 33. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 19. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 190 | 28. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 560 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 31. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 170 | 25. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 190 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 170 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 22. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 190 | 30. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 190 | 67. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 190 | 49. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 190 | 37. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 190 | 66. | 1               |
| Diethyl phthalate                                | ND     |           | ug/kg | 190 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 190 | 41. | 1               |
| Benzo(a)anthracene                               | 64     | J         | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 47. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS****Lab ID:** L1961284-05**Date Collected:** 12/20/19 11:30**Client ID:** TANK-NORTH-122019 (8')**Date Received:** 12/20/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Benzo(b)fluoranthene                             | 62     | J         | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 31. | 1               |
| Chrysene                                         | 53     | J         | ug/kg | 120 | 20. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 30. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 38. | 1               |
| Benzo(ghi)perylene                               | 33     | J         | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 190 | 19. | 1               |
| Phenanthrene                                     | 79     | J         | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 22. | 1               |
| Indeno(1,2,3-cd)pyrene                           | 35     | J         | ug/kg | 160 | 27. | 1               |
| Pyrene                                           | 110    | J         | ug/kg | 120 | 19. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 440 | 45. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 190 | 35. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 190 | 37. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 190 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 190 | 80. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 190 | 18. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 230 | 23. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 190 | 20. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 190 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 37. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 190 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 170 | 31. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 190 | 64. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 420 | 73. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 270 | 79. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 930 | 90. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 500 | 93. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 43. | 1               |
| Phenol                                           | ND     |           | ug/kg | 190 | 29. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 190 | 30. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 30. | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 190 | 37. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 190 | 19. | 1               |
| Atrazine                                         | ND     |           | ug/kg | 160 | 68. | 1               |
| Benzaldehyde                                     | ND     |           | ug/kg | 260 | 52. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-05  
**Client ID:** TANK-NORTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 190 | 59. | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 190 | 39. | 1               |

## Tentatively Identified Compounds

|                                     |    |       |   |
|-------------------------------------|----|-------|---|
| No Tentatively Identified Compounds | ND | ug/kg | 1 |
|-------------------------------------|----|-------|---|

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 93         |           | 25-120              |
| Phenol-d6            | 94         |           | 10-120              |
| Nitrobenzene-d5      | 80         |           | 23-120              |
| 2-Fluorobiphenyl     | 78         |           | 30-120              |
| 2,4,6-Tribromophenol | 116        |           | 10-136              |
| 4-Terphenyl-d14      | 76         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-06 D  
 Client ID: DUP-01-122019  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 00:00  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 12/26/19 18:48  
 Analyst: EK  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 12/22/19 09:01

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Acenaphthene                                     | 500    | J         | ug/kg | 740  | 96. | 5               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 550  | 100 | 5               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 830  | 120 | 5               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 920  | 92. | 5               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 920  | 250 | 5               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 920  | 180 | 5               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 920  | 160 | 5               |
| Fluoranthene                                     | ND     |           | ug/kg | 550  | 110 | 5               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 920  | 99. | 5               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 920  | 140 | 5               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 1100 | 160 | 5               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 1000 | 93. | 5               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 920  | 140 | 5               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 2600 | 840 | 5               |
| Hexachloroethane                                 | ND     |           | ug/kg | 740  | 150 | 5               |
| Isophorone                                       | ND     |           | ug/kg | 830  | 120 | 5               |
| Naphthalene                                      | 3200   |           | ug/kg | 920  | 110 | 5               |
| Nitrobenzene                                     | ND     |           | ug/kg | 830  | 140 | 5               |
| NDPA/DPA                                         | ND     |           | ug/kg | 740  | 100 | 5               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 920  | 140 | 5               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 920  | 320 | 5               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 920  | 230 | 5               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 920  | 180 | 5               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 920  | 310 | 5               |
| Diethyl phthalate                                | ND     |           | ug/kg | 920  | 86. | 5               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 920  | 190 | 5               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 550  | 100 | 5               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 740  | 220 | 5               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-06 D  
 Client ID: DUP-01-122019  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 00:00  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 550  | 160 | 5               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 550  | 150 | 5               |
| Chrysene                                         | ND     |           | ug/kg | 550  | 96. | 5               |
| Acenaphthylene                                   | ND     |           | ug/kg | 740  | 140 | 5               |
| Anthracene                                       | ND     |           | ug/kg | 550  | 180 | 5               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 740  | 110 | 5               |
| Fluorene                                         | 1200   |           | ug/kg | 920  | 90. | 5               |
| Phenanthrene                                     | 2600   |           | ug/kg | 550  | 110 | 5               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 550  | 110 | 5               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 740  | 130 | 5               |
| Pyrene                                           | 130    | J         | ug/kg | 550  | 92. | 5               |
| Biphenyl                                         | 2100   |           | ug/kg | 2100 | 210 | 5               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 920  | 170 | 5               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 920  | 180 | 5               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 920  | 170 | 5               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 920  | 380 | 5               |
| Dibenzofuran                                     | 870    | J         | ug/kg | 920  | 87. | 5               |
| 2-Methylnaphthalene                              | 18000  |           | ug/kg | 1100 | 110 | 5               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 920  | 96. | 5               |
| Acetophenone                                     | ND     |           | ug/kg | 920  | 110 | 5               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 550  | 180 | 5               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 920  | 140 | 5               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 920  | 110 | 5               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 830  | 150 | 5               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 920  | 300 | 5               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 2000 | 350 | 5               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 1300 | 380 | 5               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 4400 | 430 | 5               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 2400 | 440 | 5               |
| Pentachlorophenol                                | ND     |           | ug/kg | 740  | 200 | 5               |
| Phenol                                           | ND     |           | ug/kg | 920  | 140 | 5               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 920  | 140 | 5               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 1300 | 140 | 5               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 920  | 180 | 5               |
| Carbazole                                        | ND     |           | ug/kg | 920  | 90. | 5               |
| Atrazine                                         | ND     |           | ug/kg | 740  | 320 | 5               |
| Benzaldehyde                                     | ND     |           | ug/kg | 1200 | 250 | 5               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**SAMPLE RESULTS**

Lab ID: L1961284-06 D

Date Collected: 12/20/19 00:00

Client ID: DUP-01-122019

Date Received: 12/20/19

Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 920 | 280 | 5               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 920 | 190 | 5               |

## Tentatively Identified Compounds

|                     |        |   |       |  |  |   |
|---------------------|--------|---|-------|--|--|---|
| Total TIC Compounds | 276000 | J | ug/kg |  |  | 5 |
| Unknown PAH         | 11400  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 22100  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 10700  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 23600  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 27000  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 9520   | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 19800  | J | ug/kg |  |  | 5 |
| Unknown Cycloalkane | 14600  | J | ug/kg |  |  | 5 |
| Unknown             | 11000  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 11700  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 12400  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 15700  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 22400  | J | ug/kg |  |  | 5 |
| Unknown Alkane      | 51200  | J | ug/kg |  |  | 5 |
| Unknown Naphthalene | 12500  | J | ug/kg |  |  | 5 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 85         |           | 25-120              |
| Phenol-d6            | 91         |           | 10-120              |
| Nitrobenzene-d5      | 103        |           | 23-120              |
| 2-Fluorobiphenyl     | 87         |           | 30-120              |
| 2,4,6-Tribromophenol | 74         |           | 10-136              |
| 4-Terphenyl-d14      | 90         |           | 18-120              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/24/19 00:41  
**Analyst:** JG

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1323715-1 |        |           |       |     |     |
| Acenaphthene                                                                             | ND     |           | ug/kg | 130 | 17. |
| Hexachlorobenzene                                                                        | ND     |           | ug/kg | 99  | 18. |
| Bis(2-chloroethyl)ether                                                                  | ND     |           | ug/kg | 150 | 22. |
| 2-Chloronaphthalene                                                                      | ND     |           | ug/kg | 160 | 16. |
| 3,3'-Dichlorobenzidine                                                                   | ND     |           | ug/kg | 160 | 44. |
| 2,4-Dinitrotoluene                                                                       | ND     |           | ug/kg | 160 | 33. |
| 2,6-Dinitrotoluene                                                                       | ND     |           | ug/kg | 160 | 28. |
| Fluoranthene                                                                             | ND     |           | ug/kg | 99  | 19. |
| 4-Chlorophenyl phenyl ether                                                              | ND     |           | ug/kg | 160 | 18. |
| 4-Bromophenyl phenyl ether                                                               | ND     |           | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether                                                              | ND     |           | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane                                                               | ND     |           | ug/kg | 180 | 16. |
| Hexachlorobutadiene                                                                      | ND     |           | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene                                                                | ND     |           | ug/kg | 470 | 150 |
| Hexachloroethane                                                                         | ND     |           | ug/kg | 130 | 27. |
| Isophorone                                                                               | ND     |           | ug/kg | 150 | 21. |
| Naphthalene                                                                              | ND     |           | ug/kg | 160 | 20. |
| Nitrobenzene                                                                             | ND     |           | ug/kg | 150 | 24. |
| NDPA/DPA                                                                                 | ND     |           | ug/kg | 130 | 19. |
| n-Nitrosodi-n-propylamine                                                                | ND     |           | ug/kg | 160 | 26. |
| Bis(2-ethylhexyl)phthalate                                                               | ND     |           | ug/kg | 160 | 57. |
| Butyl benzyl phthalate                                                                   | ND     |           | ug/kg | 160 | 42. |
| Di-n-butylphthalate                                                                      | ND     |           | ug/kg | 160 | 31. |
| Di-n-octylphthalate                                                                      | ND     |           | ug/kg | 160 | 56. |
| Diethyl phthalate                                                                        | ND     |           | ug/kg | 160 | 15. |
| Dimethyl phthalate                                                                       | ND     |           | ug/kg | 160 | 35. |
| Benzo(a)anthracene                                                                       | ND     |           | ug/kg | 99  | 19. |
| Benzo(a)pyrene                                                                           | ND     |           | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene                                                                     | ND     |           | ug/kg | 99  | 28. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/24/19 00:41  
**Analyst:** JG

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/22/19 09:01

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1323715-1 |        |           |       |     |     |
| Benzo(k)fluoranthene                                                                     | ND     |           | ug/kg | 99  | 26. |
| Chrysene                                                                                 | ND     |           | ug/kg | 99  | 17. |
| Acenaphthylene                                                                           | ND     |           | ug/kg | 130 | 26. |
| Anthracene                                                                               | ND     |           | ug/kg | 99  | 32. |
| Benzo(ghi)perylene                                                                       | ND     |           | ug/kg | 130 | 19. |
| Fluorene                                                                                 | ND     |           | ug/kg | 160 | 16. |
| Phenanthrene                                                                             | ND     |           | ug/kg | 99  | 20. |
| Dibenzo(a,h)anthracene                                                                   | ND     |           | ug/kg | 99  | 19. |
| Indeno(1,2,3-cd)pyrene                                                                   | ND     |           | ug/kg | 130 | 23. |
| Pyrene                                                                                   | ND     |           | ug/kg | 99  | 16. |
| Biphenyl                                                                                 | ND     |           | ug/kg | 380 | 38. |
| 4-Chloroaniline                                                                          | ND     |           | ug/kg | 160 | 30. |
| 2-Nitroaniline                                                                           | ND     |           | ug/kg | 160 | 32. |
| 3-Nitroaniline                                                                           | ND     |           | ug/kg | 160 | 31. |
| 4-Nitroaniline                                                                           | ND     |           | ug/kg | 160 | 68. |
| Dibenzofuran                                                                             | ND     |           | ug/kg | 160 | 16. |
| 2-Methylnaphthalene                                                                      | ND     |           | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene                                                               | ND     |           | ug/kg | 160 | 17. |
| Acetophenone                                                                             | ND     |           | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol                                                                    | ND     |           | ug/kg | 99  | 31. |
| p-Chloro-m-cresol                                                                        | ND     |           | ug/kg | 160 | 25. |
| 2-Chlorophenol                                                                           | ND     |           | ug/kg | 160 | 20. |
| 2,4-Dichlorophenol                                                                       | ND     |           | ug/kg | 150 | 27. |
| 2,4-Dimethylphenol                                                                       | ND     |           | ug/kg | 160 | 55. |
| 2-Nitrophenol                                                                            | ND     |           | ug/kg | 360 | 62. |
| 4-Nitrophenol                                                                            | ND     |           | ug/kg | 230 | 68. |
| 2,4-Dinitrophenol                                                                        | ND     |           | ug/kg | 790 | 77. |
| 4,6-Dinitro-o-cresol                                                                     | ND     |           | ug/kg | 430 | 79. |
| Pentachlorophenol                                                                        | ND     |           | ug/kg | 130 | 36. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 12/24/19 00:41  
 Analyst: JG

Extraction Method: EPA 3546  
 Extraction Date: 12/22/19 09:01

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1323715-1 |        |           |       |     |     |
| Phenol                                                                                   | ND     |           | ug/kg | 160 | 25. |
| 2-Methylphenol                                                                           | ND     |           | ug/kg | 160 | 26. |
| 3-Methylphenol/4-Methylphenol                                                            | ND     |           | ug/kg | 240 | 26. |
| 2,4,5-Trichlorophenol                                                                    | ND     |           | ug/kg | 160 | 32. |
| Carbazole                                                                                | ND     |           | ug/kg | 160 | 16. |
| Atrazine                                                                                 | ND     |           | ug/kg | 130 | 58. |
| Benzaldehyde                                                                             | ND     |           | ug/kg | 220 | 45. |
| Caprolactam                                                                              | ND     |           | ug/kg | 160 | 50. |
| 2,3,4,6-Tetrachlorophenol                                                                | ND     |           | ug/kg | 160 | 33. |

#### Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 83        |           | 25-120              |
| Phenol-d6            | 86        |           | 10-120              |
| Nitrobenzene-d5      | 65        |           | 23-120              |
| 2-Fluorobiphenyl     | 60        |           | 30-120              |
| 2,4,6-Tribromophenol | 91        |           | 10-136              |
| 4-Terphenyl-d14      | 65        |           | 18-120              |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1323715-2 WG1323715-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                                | 76               |      | 76                |      | 31-137              | 0   |      | 50            |
| Hexachlorobenzene                                                                                           | 75               |      | 77                |      | 40-140              | 3   |      | 50            |
| Bis(2-chloroethyl)ether                                                                                     | 69               |      | 68                |      | 40-140              | 1   |      | 50            |
| 2-Chloronaphthalene                                                                                         | 75               |      | 75                |      | 40-140              | 0   |      | 50            |
| 3,3'-Dichlorobenzidine                                                                                      | 57               |      | 52                |      | 40-140              | 9   |      | 50            |
| 2,4-Dinitrotoluene                                                                                          | 86               |      | 89                |      | 40-132              | 3   |      | 50            |
| 2,6-Dinitrotoluene                                                                                          | 78               |      | 82                |      | 40-140              | 5   |      | 50            |
| Fluoranthene                                                                                                | 73               |      | 76                |      | 40-140              | 4   |      | 50            |
| 4-Chlorophenyl phenyl ether                                                                                 | 71               |      | 72                |      | 40-140              | 1   |      | 50            |
| 4-Bromophenyl phenyl ether                                                                                  | 72               |      | 73                |      | 40-140              | 1   |      | 50            |
| Bis(2-chloroisopropyl)ether                                                                                 | 96               |      | 95                |      | 40-140              | 1   |      | 50            |
| Bis(2-chloroethoxy)methane                                                                                  | 77               |      | 74                |      | 40-117              | 4   |      | 50            |
| Hexachlorobutadiene                                                                                         | 65               |      | 66                |      | 40-140              | 2   |      | 50            |
| Hexachlorocyclopentadiene                                                                                   | 48               |      | 49                |      | 40-140              | 2   |      | 50            |
| Hexachloroethane                                                                                            | 78               |      | 73                |      | 40-140              | 7   |      | 50            |
| Isophorone                                                                                                  | 80               |      | 79                |      | 40-140              | 1   |      | 50            |
| Naphthalene                                                                                                 | 76               |      | 76                |      | 40-140              | 0   |      | 50            |
| Nitrobenzene                                                                                                | 77               |      | 74                |      | 40-140              | 4   |      | 50            |
| NDPA/DPA                                                                                                    | 76               |      | 76                |      | 36-157              | 0   |      | 50            |
| n-Nitrosodi-n-propylamine                                                                                   | 79               |      | 78                |      | 32-121              | 1   |      | 50            |
| Bis(2-ethylhexyl)phthalate                                                                                  | 79               |      | 79                |      | 40-140              | 0   |      | 50            |
| Butyl benzyl phthalate                                                                                      | 80               |      | 81                |      | 40-140              | 1   |      | 50            |
| Di-n-butylphthalate                                                                                         | 81               |      | 81                |      | 40-140              | 0   |      | 50            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1961284

**Project Number:** 2182207

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1323715-2 WG1323715-3 |                  |      |                   |      |                     |     |      |               |
| Di-n-octylphthalate                                                                                         | 78               |      | 78                |      | 40-140              | 0   |      | 50            |
| Diethyl phthalate                                                                                           | 77               |      | 79                |      | 40-140              | 3   |      | 50            |
| Dimethyl phthalate                                                                                          | 74               |      | 75                |      | 40-140              | 1   |      | 50            |
| Benzo(a)anthracene                                                                                          | 68               |      | 69                |      | 40-140              | 1   |      | 50            |
| Benzo(a)pyrene                                                                                              | 67               |      | 70                |      | 40-140              | 4   |      | 50            |
| Benzo(b)fluoranthene                                                                                        | 68               |      | 71                |      | 40-140              | 4   |      | 50            |
| Benzo(k)fluoranthene                                                                                        | 74               |      | 76                |      | 40-140              | 3   |      | 50            |
| Chrysene                                                                                                    | 70               |      | 71                |      | 40-140              | 1   |      | 50            |
| Acenaphthylene                                                                                              | 76               |      | 78                |      | 40-140              | 3   |      | 50            |
| Anthracene                                                                                                  | 78               |      | 78                |      | 40-140              | 0   |      | 50            |
| Benzo(ghi)perylene                                                                                          | 80               |      | 83                |      | 40-140              | 4   |      | 50            |
| Fluorene                                                                                                    | 77               |      | 79                |      | 40-140              | 3   |      | 50            |
| Phenanthrene                                                                                                | 74               |      | 75                |      | 40-140              | 1   |      | 50            |
| Dibenzo(a,h)anthracene                                                                                      | 78               |      | 81                |      | 40-140              | 4   |      | 50            |
| Indeno(1,2,3-cd)pyrene                                                                                      | 75               |      | 76                |      | 40-140              | 1   |      | 50            |
| Pyrene                                                                                                      | 71               |      | 74                |      | 35-142              | 4   |      | 50            |
| Biphenyl                                                                                                    | 76               |      | 76                |      | 37-127              | 0   |      | 50            |
| 4-Chloroaniline                                                                                             | 60               |      | 51                |      | 40-140              | 16  |      | 50            |
| 2-Nitroaniline                                                                                              | 85               |      | 88                |      | 47-134              | 3   |      | 50            |
| 3-Nitroaniline                                                                                              | 70               |      | 64                |      | 26-129              | 9   |      | 50            |
| 4-Nitroaniline                                                                                              | 71               |      | 73                |      | 41-125              | 3   |      | 50            |
| Dibenzofuran                                                                                                | 77               |      | 77                |      | 40-140              | 0   |      | 50            |
| 2-Methylnaphthalene                                                                                         | 81               |      | 78                |      | 40-140              | 4   |      | 50            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1323715-2 WG1323715-3 |                  |      |                   |      |                     |     |      |               |
| 1,2,4,5-Tetrachlorobenzene                                                                                  | 68               |      | 68                |      | 40-117              | 0   |      | 50            |
| Acetophenone                                                                                                | 78               |      | 77                |      | 14-144              | 1   |      | 50            |
| 2,4,6-Trichlorophenol                                                                                       | 68               |      | 71                |      | 30-130              | 4   |      | 50            |
| p-Chloro-m-cresol                                                                                           | 84               |      | 85                |      | 26-103              | 1   |      | 50            |
| 2-Chlorophenol                                                                                              | 81               |      | 79                |      | 25-102              | 3   |      | 50            |
| 2,4-Dichlorophenol                                                                                          | 81               |      | 80                |      | 30-130              | 1   |      | 50            |
| 2,4-Dimethylphenol                                                                                          | 81               |      | 78                |      | 30-130              | 4   |      | 50            |
| 2-Nitrophenol                                                                                               | 92               |      | 91                |      | 30-130              | 1   |      | 50            |
| 4-Nitrophenol                                                                                               | 86               |      | 90                |      | 11-114              | 5   |      | 50            |
| 2,4-Dinitrophenol                                                                                           | 22               |      | 25                |      | 4-130               | 13  |      | 50            |
| 4,6-Dinitro-o-cresol                                                                                        | 68               |      | 74                |      | 10-130              | 8   |      | 50            |
| Pentachlorophenol                                                                                           | 50               |      | 54                |      | 17-109              | 8   |      | 50            |
| Phenol                                                                                                      | 80               |      | 79                |      | 26-90               | 1   |      | 50            |
| 2-Methylphenol                                                                                              | 83               |      | 82                |      | 30-130.             | 1   |      | 50            |
| 3-Methylphenol/4-Methylphenol                                                                               | 82               |      | 80                |      | 30-130              | 2   |      | 50            |
| 2,4,5-Trichlorophenol                                                                                       | 77               |      | 78                |      | 30-130              | 1   |      | 50            |
| Carbazole                                                                                                   | 76               |      | 78                |      | 54-128              | 3   |      | 50            |
| Atrazine                                                                                                    | 67               |      | 68                |      | 40-140              | 1   |      | 50            |
| Benzaldehyde                                                                                                | 61               |      | 64                |      | 40-140              | 5   |      | 50            |
| Caprolactam                                                                                                 | 89               |      | 92                |      | 15-130              | 3   |      | 50            |
| 2,3,4,6-Tetrachlorophenol                                                                                   | 70               |      | 74                |      | 40-140              | 6   |      | 50            |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1323715-2 WG1323715-3

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 78                       |             | 75                        |             | 25-120                         |
| Phenol-d6            | 84                       |             | 81                        |             | 10-120                         |
| Nitrobenzene-d5      | 62                       |             | 62                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 56                       |             | 56                        |             | 30-120                         |
| 2,4,6-Tribromophenol | 82                       |             | 83                        |             | 10-136                         |
| 4-Terphenyl-d14      | 55                       |             | 57                        |             | 18-120                         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1323715-4 WG1323715-5 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |          |          |              |      |           |               |      |                 |     |      |            |
| Acenaphthene                                                                                                                                                               | ND            | 1560     | 1500     | 96           |      | 1500      | 95            |      | 31-137          | 0   |      | 50         |
| Hexachlorobenzene                                                                                                                                                          | ND            | 1560     | 1800     | 120          |      | 1800      | 110           |      | 40-140          | 0   |      | 50         |
| Bis(2-chloroethyl)ether                                                                                                                                                    | ND            | 1560     | 1400     | 90           |      | 1300      | 83            |      | 40-140          | 7   |      | 50         |
| 2-Chloronaphthalene                                                                                                                                                        | ND            | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| 3,3'-Dichlorobenzidine                                                                                                                                                     | ND            | 1560     | 1200     | 77           |      | 1300      | 83            |      | 40-140          | 8   |      | 50         |
| 2,4-Dinitrotoluene                                                                                                                                                         | ND            | 1560     | 1600     | 100          |      | 1700      | 110           |      | 40-132          | 6   |      | 50         |
| 2,6-Dinitrotoluene                                                                                                                                                         | ND            | 1560     | 1600     | 100          |      | 1700      | 110           |      | 40-140          | 6   |      | 50         |
| Fluoranthene                                                                                                                                                               | 130           | 1560     | 1700     | 100          |      | 1600      | 93            |      | 40-140          | 6   |      | 50         |
| 4-Chlorophenyl phenyl ether                                                                                                                                                | ND            | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| 4-Bromophenyl phenyl ether                                                                                                                                                 | ND            | 1560     | 1700     | 110          |      | 1700      | 110           |      | 40-140          | 0   |      | 50         |
| Bis(2-chloroisopropyl)ether                                                                                                                                                | ND            | 1560     | 1200     | 77           |      | 1100      | 70            |      | 40-140          | 9   |      | 50         |
| Bis(2-chloroethoxy)methane                                                                                                                                                 | ND            | 1560     | 1400     | 90           |      | 1400      | 89            |      | 40-117          | 0   |      | 50         |
| Hexachlorobutadiene                                                                                                                                                        | ND            | 1560     | 1600     | 100          |      | 1400      | 89            |      | 40-140          | 13  |      | 50         |
| Hexachlorocyclopentadiene                                                                                                                                                  | ND            | 1560     | 790      | 51           |      | 650       | 41            |      | 40-140          | 19  |      | 50         |
| Hexachloroethane                                                                                                                                                           | ND            | 1560     | 1400     | 90           |      | 1300      | 83            |      | 40-140          | 7   |      | 50         |
| Isophorone                                                                                                                                                                 | ND            | 1560     | 1400     | 90           |      | 1400      | 89            |      | 40-140          | 0   |      | 50         |
| Naphthalene                                                                                                                                                                | ND            | 1560     | 1600     | 100          |      | 1500      | 95            |      | 40-140          | 6   |      | 50         |
| Nitrobenzene                                                                                                                                                               | ND            | 1560     | 1400     | 90           |      | 1400      | 89            |      | 40-140          | 0   |      | 50         |
| NDPA/DPA                                                                                                                                                                   | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 36-157          | 0   |      | 50         |
| n-Nitrosodi-n-propylamine                                                                                                                                                  | ND            | 1560     | 1400     | 90           |      | 1400      | 89            |      | 32-121          | 0   |      | 50         |
| Bis(2-ethylhexyl)phthalate                                                                                                                                                 | ND            | 1560     | 1400     | 90           |      | 1500      | 95            |      | 40-140          | 7   |      | 50         |
| Butyl benzyl phthalate                                                                                                                                                     | ND            | 1560     | 1700     | 110          |      | 1600      | 100           |      | 40-140          | 6   |      | 50         |
| Di-n-butylphthalate                                                                                                                                                        | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |



# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| Parameter                                                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1323715-4 WG1323715-5 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |          |          |              |      |           |               |      |                 |     |      |            |
| Di-n-octylphthalate                                                                                                                                                        | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |
| Diethyl phthalate                                                                                                                                                          | ND            | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| Dimethyl phthalate                                                                                                                                                         | ND            | 1560     | 1400     | 90           |      | 1600      | 100           |      | 40-140          | 13  |      | 50         |
| Benzo(a)anthracene                                                                                                                                                         | 64J           | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |
| Benzo(a)pyrene                                                                                                                                                             | ND            | 1560     | 1400     | 90           |      | 1300      | 83            |      | 40-140          | 7   |      | 50         |
| Benzo(b)fluoranthene                                                                                                                                                       | 62J           | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| Benzo(k)fluoranthene                                                                                                                                                       | ND            | 1560     | 1500     | 96           |      | 1300      | 83            |      | 40-140          | 14  |      | 50         |
| Chrysene                                                                                                                                                                   | 53J           | 1560     | 1400     | 90           |      | 1400      | 89            |      | 40-140          | 0   |      | 50         |
| Acenaphthylene                                                                                                                                                             | ND            | 1560     | 1500     | 96           |      | 1600      | 100           |      | 40-140          | 6   |      | 50         |
| Anthracene                                                                                                                                                                 | ND            | 1560     | 1600     | 100          |      | 1500      | 95            |      | 40-140          | 6   |      | 50         |
| Benzo(ghi)perylene                                                                                                                                                         | 33J           | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| Fluorene                                                                                                                                                                   | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |
| Phenanthrene                                                                                                                                                               | 79J           | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| Dibenzo(a,h)anthracene                                                                                                                                                     | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |
| Indeno(1,2,3-cd)pyrene                                                                                                                                                     | 35J           | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |
| Pyrene                                                                                                                                                                     | 110J          | 1560     | 1600     | 100          |      | 1500      | 95            |      | 35-142          | 6   |      | 50         |
| Biphenyl                                                                                                                                                                   | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 37-127          | 0   |      | 50         |
| 4-Chloroaniline                                                                                                                                                            | ND            | 1560     | 1200     | 77           |      | 1400      | 89            |      | 40-140          | 15  |      | 50         |
| 2-Nitroaniline                                                                                                                                                             | ND            | 1560     | 1800     | 120          |      | 1900      | 120           |      | 47-134          | 5   |      | 50         |
| 3-Nitroaniline                                                                                                                                                             | ND            | 1560     | 1500     | 96           |      | 1600      | 100           |      | 26-129          | 6   |      | 50         |
| 4-Nitroaniline                                                                                                                                                             | ND            | 1560     | 1600     | 100          |      | 1700      | 110           |      | 41-125          | 6   |      | 50         |
| Dibenzofuran                                                                                                                                                               | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |
| 2-Methylnaphthalene                                                                                                                                                        | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 40-140          | 0   |      | 50         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961284

**Report Date:** 12/30/19

| Parameter                                                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1323715-4 WG1323715-5 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |          |          |              |      |           |               |      |                 |     |      |            |
| 1,2,4,5-Tetrachlorobenzene                                                                                                                                                 | ND            | 1560     | 1600     | 100          |      | 1700      | 110           |      | 40-117          | 6   |      | 50         |
| Acetophenone                                                                                                                                                               | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 14-144          | 0   |      | 50         |
| 2,4,6-Trichlorophenol                                                                                                                                                      | ND            | 1560     | 1700     | 110          |      | 1800      | 110           |      | 30-130          | 6   |      | 50         |
| p-Chloro-m-cresol                                                                                                                                                          | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 26-103          | 0   |      | 50         |
| 2-Chlorophenol                                                                                                                                                             | ND            | 1560     | 1700     | 110          | Q    | 1700      | 110           | Q    | 25-102          | 0   |      | 50         |
| 2,4-Dichlorophenol                                                                                                                                                         | ND            | 1560     | 1700     | 110          |      | 1800      | 110           |      | 30-130          | 6   |      | 50         |
| 2,4-Dimethylphenol                                                                                                                                                         | ND            | 1560     | 1400     | 90           |      | 1400      | 89            |      | 30-130          | 0   |      | 50         |
| 2-Nitrophenol                                                                                                                                                              | ND            | 1560     | 1500     | 96           |      | 1400      | 89            |      | 30-130          | 7   |      | 50         |
| 4-Nitrophenol                                                                                                                                                              | ND            | 1560     | 1500     | 96           |      | 1500      | 95            |      | 11-114          | 0   |      | 50         |
| 2,4-Dinitrophenol                                                                                                                                                          | ND            | 1560     | 160J     | 10           |      | 140J      | 9             |      | 4-130           | 13  |      | 50         |
| 4,6-Dinitro-o-cresol                                                                                                                                                       | ND            | 1560     | 260J     | 17           |      | 190J      | 12            |      | 10-130          | 31  |      | 50         |
| Pentachlorophenol                                                                                                                                                          | ND            | 1560     | 1900     | 120          | Q    | 1700      | 110           | Q    | 17-109          | 11  |      | 50         |
| Phenol                                                                                                                                                                     | ND            | 1560     | 1500     | 96           | Q    | 1500      | 95            | Q    | 26-90           | 0   |      | 50         |
| 2-Methylphenol                                                                                                                                                             | ND            | 1560     | 1600     | 100          |      | 1600      | 100           |      | 30-130.         | 0   |      | 50         |
| 3-Methylphenol/4-Methylphenol                                                                                                                                              | ND            | 1560     | 1700     | 110          |      | 1700      | 110           |      | 30-130          | 0   |      | 50         |
| 2,4,5-Trichlorophenol                                                                                                                                                      | ND            | 1560     | 1800     | 120          |      | 1900      | 120           |      | 30-130          | 5   |      | 50         |
| Carbazole                                                                                                                                                                  | ND            | 1560     | 1600     | 100          |      | 1500      | 95            |      | 54-128          | 6   |      | 50         |
| Atrazine                                                                                                                                                                   | ND            | 1560     | 1500     | 96           |      | 1500      | 95            |      | 40-140          | 0   |      | 50         |
| Benzaldehyde                                                                                                                                                               | ND            | 1560     | 1700     | 110          |      | 1600      | 100           |      | 40-140          | 6   |      | 50         |
| Caprolactam                                                                                                                                                                | ND            | 1560     | 1500     | 96           |      | 1600      | 100           |      | 15-130          | 6   |      | 50         |
| 2,3,4,6-Tetrachlorophenol                                                                                                                                                  | ND            | 1560     | 1800     | 120          |      | 1800      | 110           |      | 40-140          | 0   |      | 50         |

**Matrix Spike Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19

| <b>Parameter</b> | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> |
|------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
|------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1323715-4 WG1323715-5 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8')

| <b>Surrogate</b>     | <b>MS % Recovery</b> | <b>Qualifier</b> | <b>MSD % Recovery</b> | <b>Qualifier</b> | <b>Acceptance Criteria</b> |
|----------------------|----------------------|------------------|-----------------------|------------------|----------------------------|
| 2,4,6-Tribromophenol | 125                  |                  | 122                   |                  | 10-136                     |
| 2-Fluorobiphenyl     | 89                   |                  | 89                    |                  | 30-120                     |
| 2-Fluorophenol       | 105                  |                  | 96                    |                  | 25-120                     |
| 4-Terphenyl-d14      | 100                  |                  | 94                    |                  | 18-120                     |
| Nitrobenzene-d5      | 93                   |                  | 89                    |                  | 23-120                     |
| Phenol-d6            | 104                  |                  | 99                    |                  | 10-120                     |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1961284**Report Date:** 12/30/19**SAMPLE RESULTS****Lab ID:** L1961284-01**Client ID:** TANK-EAST-122019 (10')**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Date Collected:** 12/20/19 10:10**Date Received:** 12/20/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 88.9   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:32   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-02  
**Client ID:** TANK-BOT-122019 (11')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 81.4   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:32   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-03  
**Client ID:** TANK-WEST-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 10:40  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 82.9   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:32   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-04  
**Client ID:** TANK-SOUTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:15  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 87.0   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:32   | 121,2540G            | RI      |





**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-05  
**Client ID:** TANK-NORTH-122019 (8')  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 11:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.3   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:32   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**SAMPLE RESULTS**

**Lab ID:** L1961284-06  
**Client ID:** DUP-01-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 00:00  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 88.1   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:32   | 121,2540G            | RI      |



**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1961284**Report Date:** 12/30/19

| Parameter                                                                                                                                         | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1323593-1 QC Sample: L1961284-05 Client ID: TANK-NORTH-122019 (8') |               |                  |       |     |      |            |
| Solids, Total                                                                                                                                     | 83.3          | 82.3             | %     | 1   |      | 20         |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

A                                  Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>          | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b>   |
|---------------------|--------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|----------------------|
| L1961284-01A        | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |
| L1961284-01B        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-01C        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-01D        | Plastic 2oz unpreserved for TS | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | TS(7)                |
| L1961284-01E        | Glass 120ml/4oz unpreserved    | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8270(14)       |
| L1961284-02A        | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |
| L1961284-02B        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-02C        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-02D        | Plastic 2oz unpreserved for TS | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | TS(7)                |
| L1961284-02E        | Glass 120ml/4oz unpreserved    | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8270(14)       |
| L1961284-03A        | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |
| L1961284-03B        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-03C        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-03D        | Plastic 2oz unpreserved for TS | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | TS(7)                |
| L1961284-03E        | Glass 120ml/4oz unpreserved    | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8270(14)       |
| L1961284-04A        | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |
| L1961284-04B        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-04C        | Vial water preserved           | A             | NA                    |                     | 4.5                   | Y           | Absent      | 21-DEC-19 03:53             | NYTCL-8260HLW-R2(14) |
| L1961284-04D        | Plastic 2oz unpreserved for TS | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | TS(7)                |
| L1961284-04E        | Glass 120ml/4oz unpreserved    | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8270(14)       |
| L1961284-05A        | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |
| L1961284-05A1       | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |
| L1961284-05A2       | Vial MeOH preserved            | A             | NA                    |                     | 4.5                   | Y           | Absent      |                             | NYTCL-8260HLW-R2(14) |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961284**Project Number:** 2182207**Report Date:** 12/30/19**Container Information**

| <b>Container ID</b> | <b>Container Type</b>          | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>   |
|---------------------|--------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------|
| L1961284-05B        | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-05B1       | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-05B2       | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-05C        | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-05C1       | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-05C2       | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-05D        | Plastic 2oz unpreserved for TS | A             | NA                |                 | 4.5               | Y           | Absent      |                         | TS(7)                |
| L1961284-05D1       | Plastic 2oz unpreserved for TS | A             | NA                |                 | 4.5               | Y           | Absent      |                         | TS(7)                |
| L1961284-05D2       | Plastic 2oz unpreserved for TS | A             | NA                |                 | 4.5               | Y           | Absent      |                         | TS(7)                |
| L1961284-05E        | Glass 120ml/4oz unpreserved    | A             | NA                |                 | 4.5               | Y           | Absent      |                         | NYTCL-8270(14)       |
| L1961284-05E1       | Glass 120ml/4oz unpreserved    | A             | NA                |                 | 4.5               | Y           | Absent      |                         | NYTCL-8270(14)       |
| L1961284-05E2       | Glass 120ml/4oz unpreserved    | A             | NA                |                 | 4.5               | Y           | Absent      |                         | NYTCL-8270(14)       |
| L1961284-06A        | Vial MeOH preserved            | A             | NA                |                 | 4.5               | Y           | Absent      |                         | NYTCL-8260HLW-R2(14) |
| L1961284-06B        | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-06C        | Vial water preserved           | A             | NA                |                 | 4.5               | Y           | Absent      | 21-DEC-19 03:53         | NYTCL-8260HLW-R2(14) |
| L1961284-06D        | Plastic 2oz unpreserved for TS | A             | NA                |                 | 4.5               | Y           | Absent      |                         | TS(7)                |
| L1961284-06E        | Glass 120ml/4oz unpreserved    | A             | NA                |                 | 4.5               | Y           | Absent      |                         | NYTCL-8270(14)       |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

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

## Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

## Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Data Qualifiers**

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 15

Department: **Quality Assurance**

Published Date: 8/15/2019 9:53:42 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B, SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

|                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                             |  |                |    |  |   |  |   |  |   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|----|--|---|--|---|--|---|--|
|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193<br>Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288 |  | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                                                                                                                                                                                                 |  | Page<br><div style="border: 1px solid black; padding: 2px; display: inline-block;">1 of 1</div>                                                                                                                                       |  | Date Rec'd<br>in Lab <u>12/21/19</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | ALPHA Job #<br><u>L1961284</u>                                                                                                                                                                              |  |                |    |  |   |  |   |  |   |  |
|                                                                                                                                                                                                                                                                                           |  | <b>Project Information</b><br>Project Name: <u>FORMER WOLLANSACK OPTICAL</u><br>Project Location: <u>872 HUDSON AVE, ROCHESTER, NY</u><br>Project # <u>2182207</u><br>(Use Project name as Project #) <input type="checkbox"/><br>Project Manager: <u>JAN GELAN</u><br>ALPHAQuote #: _____<br>Turn-Around Time<br>Standard <input checked="" type="checkbox"/> Due Date: _____<br>Rush (only if pre approved) <input type="checkbox"/> # of Days: _____ |  | <b>Deliverables</b><br><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B<br><input type="checkbox"/> EQulS (1 File) <input checked="" type="checkbox"/> EQulS (4 File)<br><input type="checkbox"/> Other _____ |  | <b>Billing Information</b><br><input checked="" type="checkbox"/> Same as Client Info<br>PO # _____                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                             |  |                |    |  |   |  |   |  |   |  |
| <b>Client Information</b><br>Client: <u>LABAULT ASSOCIATES</u><br>Address: <u>300 STATE ST</u><br><u>ROCHESTER NY 14614</u><br>Phone: <u>585-454-6110</u><br>Fax: <u>slogan@labelapc.com</u><br>Email: <u>igillene@labelapc.com</u>                                                       |  | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other _____<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge                                                                                   |  | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other: _____       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                             |  |                |    |  |   |  |   |  |   |  |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments: _____<br>Please specify Metals or TAL. _____                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                       |  | <b>ANALYSIS</b><br><div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL VOL + TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEL SVOC + TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CP-51 VOC + TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CP-51 SVOC + TIC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">MS/MSD</div> </div> |  | <b>Sample Filtration</b><br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br>Preservation<br><input type="checkbox"/> Lab to do<br>(Please Specify below)<br>Sample Specific Comments |  | Total Bottles  |    |  |   |  |   |  |   |  |
| ALPHA Lab ID (Lab Use Only)                                                                                                                                                                                                                                                               |  | Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Collection                                                                                                                                                                                                                            |  | Sample Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Sampler's Initials                                                                                                                                                                                          |  |                |    |  |   |  |   |  |   |  |
|                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Date                                                                                                                                                                                                                                  |  | Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                             |  |                |    |  |   |  |   |  |   |  |
| 61284-01                                                                                                                                                                                                                                                                                  |  | TANK-EAST-122019 (10')                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 12/20/19                                                                                                                                                                                                                              |  | 10:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | SOIL                                                                                                                                                                                                        |  |                | SL |  | X |  | X |  | X |  |
| -02                                                                                                                                                                                                                                                                                       |  | TANK-BOT-122019 (11')                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | ↓                                                                                                                                                                                                                                     |  | 10:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | ↓                                                                                                                                                                                                           |  |                | ↓  |  | X |  | X |  | X |  |
| -03                                                                                                                                                                                                                                                                                       |  | TANK-WEST-122019 (8')                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | ↓                                                                                                                                                                                                                                     |  | 10:40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | ↓                                                                                                                                                                                                           |  |                | ↓  |  | X |  | X |  | X |  |
| -04                                                                                                                                                                                                                                                                                       |  | TANK-SOUTH-122019 (8')                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | ↓                                                                                                                                                                                                                                     |  | 11:15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | ↓                                                                                                                                                                                                           |  |                | ↓  |  | X |  | X |  | X |  |
| -05                                                                                                                                                                                                                                                                                       |  | TANK-NORTH-122019 (8')                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | ↓                                                                                                                                                                                                                                     |  | 11:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | ↓                                                                                                                                                                                                           |  |                | ↓  |  | X |  | X |  | X |  |
| -06                                                                                                                                                                                                                                                                                       |  | DUP-B1-122019                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 12/20/19                                                                                                                                                                                                                              |  | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | ↓                                                                                                                                                                                                           |  |                | ↓  |  | X |  | X |  | X |  |
|                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                             |  |                |    |  |   |  |   |  |   |  |
| Preservative Code:                                                                                                                                                                                                                                                                        |  | Container Code                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Westboro: Certification No: MA935                                                                                                                                                                                                     |  | Mansfield: Certification No: MA015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | Container Type                                                                                                                                                                                              |  |                |    |  |   |  |   |  |   |  |
| A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other                                                                 |  | P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Preservative                                                                                                                                                                                                |  |                |    |  |   |  |   |  |   |  |
| Form No: 01-25 HC (rev. 30-Sept-2013)                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Relinquished By:                                                                                                                                                                                                                      |  | Date/Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Received By:                                                                                                                                                                                                |  | Date/Time      |    |  |   |  |   |  |   |  |
|                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <u>Jan Gelan</u>                                                                                                                                                                                                                      |  | 12/20/19 16:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <u>Andrew Z. Lely</u>                                                                                                                                                                                       |  | 12/20/19 16:30 |    |  |   |  |   |  |   |  |
|                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <u>Andrew Z. Lely AAL</u>                                                                                                                                                                                                             |  | 12/20/19 16:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <u>[Signature]</u>                                                                                                                                                                                          |  | 12/21/19 01:15 |    |  |   |  |   |  |   |  |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

April 28, 2020

Charlotte Theobald  
NYS Department of Environmental Conservation  
6274 East Avon-Lima Road  
Avon, New York 14414

**Re: January to March 2020 Monthly Progress Report**  
Former Wollensack Optical Site – C828209  
872 & 886 Hudson Avenue, Rochester, New York  
LaBella Project #2182207

Dear Ms. Theobald,

LaBella Associates, D.P.C. (“LaBella”) is pleased to submit this Monthly Progress Report (MPR) associated with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site (BCP ID No. C828209) located at 872 & 886 Hudson Avenue, Rochester, New York, hereinafter referred to as the “Site.” Below is a summary of activities completed in the previous months (January to March 2020) and planned for this month (April 2020).

### **Activities in Prior Months (January, February, and March 2020)**

#### Installation of SSDS and Sub-Grade Plumbing

The majority of the SSDS subgrade piping and subgrade plumbing was installed. The remaining portion of the SSDS into the western stairwell adjacent to Hudson Avenue will be installed sometime in April 2020. In addition, the above grade SSDS piping and fans have not been fully installed. The CAMP was implemented during the work in accordance with the ISMP. A CCR or FER will include a summary of the work and as-built drawings of the SSDS.

#### Radiological Remediation

Austin Masters Services (AMS) performed remediation of a small (3’ x3”) contaminated area of floorboards on the third floor of the building and the sump located on the first floor of the building. A summary of this work is included AMS remediation report dated January 28, 2020 (attached). A CCR will include a summary of the work.

#### Box-Out of Parking Lot

LaBella was on-site during January to monitor the box-out of the new parking lot. Monitoring of the soil and the implementation of the CAMP was completed during this work. The work included the removal of surface soil for off-site disposal and importation of material for the parking lot subbase. A CCR will include a summary of this work.

#### Installation of Sanitary Sewer Lateral

A sanitary sewer lateral was installed from the northwest corner of the site building into the Hudson Avenue right-of-way. Monitoring of the soil and the implementation of the CAMP was completed during this work. The excavation was backfilled with #2 crusher run stone. All excavated soil was placed on and covered with poly sheeting on-site pending waste characterization, contained-in approval, and disposal. A CCR will include a summary of this work.



### Treatment Well Installation

The installation and monitoring of the treatment wells as part of the NYSDEC approved Interim Remedial Measure (IRM) Work Plan was conducted during January and February 2020. This involved the installation of seventeen (17) overburden and seven (7) bedrock treatment wells. The CAMP was implemented during this work. There were some CAMP exceedances for dust detected during the installation of the treatment wells that were attributed to the ongoing construction work (i.e. masonry, floor cleaning, etc.). These exceedances were documented on the CAMP logs with an explanation.

Periodic static water levels (SWLs) were collected from each treatment well to monitor whether the seal remained competent between the bedrock and overburden treatment wells. Based on the SWLs measurements overtime, the well seals appear to remain competent.

Each treatment well was purged of a minimum of three wells volumes (or until dry). Purge water was stored in 55-gallon drums on-site. During the well purging, DNAPL was observed within bedrock treatment well IW-D-08. A black oily film was observed to smear the bailer during purging. The presence of DNAPL was checked and not observed in any other overburden or bedrock treatment wells. A CCR will include a summary of this work.

### Decommission and Installation of Interior Monitoring Wells

Three of the wells that were proposed be used as performance sampling for the chemical application (see below) are located within the residential apartments. These wells were decommissioned in accordance with CP-43 and a nested overburden/bedrock well in a non-residential area was installed as a replacement. This is discussed in the Approved Activity Modifications section below. A CCR will include a summary of the well closure and installation logs.

### Application of the In-Situ Chemical Oxidation (ISCO) Chemical

The ISCO chemical permanganate was injected and/or gravity fed into the 17 overburden treatment wells from March 3 through March 20, 2020. Permanganate was applied at either a 10% or 20% solution depending how well each treatment well/location accepted the chemical and to reduce the potential of daylighting. The permanganate was distributed to each treatment well in general accordance with the work plan; with the exception of a couple locations that received less chemical due to concern of daylighting in the basement. Any chemical that was observed to be daylighting was immediately neutralized. A CCR or FER will include a summary of the application of permanganate and a summary of the application is provided below.

| Well ID | Date(s) of Application  | Concentration of Permanganate | Gallons Applied               |
|---------|-------------------------|-------------------------------|-------------------------------|
| IW-S-01 | 3/18/2020               | 10% and 20%                   | 75 gal of 10% ; 28 gal of 20% |
| IW-S-02 | 3/18/2020               | 10% and 20%                   | 15 gal of 10% ; 58 gal of 20% |
| IW-S-03 | 3/16/2020               | 10%                           | 145                           |
| IW-S-04 | 3/17/2020               | 10%                           | 145                           |
| IW-S-05 | 3/20/2020               | 20%                           | 30                            |
| IW-S-06 | 3/19/2020 and 3/20/2020 | 20%                           | 40                            |
| IW-S-07 | 3/16/2020               | 10%                           | 145                           |
| IW-S-08 | 3/13/2020               | 10%                           | 145                           |
| IW-S-09 | 3/10/2020               | 10%                           | 145                           |
| IW-S-10 | 3/10/2020               | 10%                           | 145                           |



|         |                         |             |                               |
|---------|-------------------------|-------------|-------------------------------|
| IW-S-11 | 3/9/2020                | 10%         | 145                           |
| IW-S-12 | 3/10/2020               | 10%         | 145                           |
| IW-S-13 | 3/11/2020 and 3/19/2020 | 10% and 20% | 75 gal of 10% ; 28 gal of 20% |
| IW-S-14 | 3/13/2020               | 10%         | 145                           |
| IW-S-15 | 3/13/2020               | 10%         | 145                           |
| IW-S-16 | 3/13/2020               | 10%         | 145                           |
| IW-S-17 | 3/3/2020 and 3/19/2020  | 10% and 20% | 25 gal of 10%; 40 gal of 20%  |

#### Contained In Use Requests

The following requests for contained-in determinations were approved by the Department from January to March 2020:

| Request Type               | Material - Source           | NYSDEC Approval Date |
|----------------------------|-----------------------------|----------------------|
| Contained-In Determination | Sewer Line Excavation       | 21-February-2020     |
| Contained-In Determination | Treatment Well Installation | 27-March-2020        |

A CCR will include a summary of the disposal and applicable documentation listed above.

#### **Approved Activity Modifications**

- The location of the pressure field extension (PFE) monitoring points were reviewed based on the layout of the 1<sup>st</sup> floor residential space. Two of the PFE locations were located within a residential apartment. One of the points was proposed to be relocated to an adjacent office area, and the other is located at the northwest area of the building. The location at the northwest area of the building was requested to be made temporary since it is located within a future residential living space. A PFE reading will be collected from this location when the SSDS is fully operational to confirm a minimum reading of -0.004 inches of water, then permanently seal the location.
- Reviewing the existing wells with the layout of the building, 3 of the wells that are proposed be used as performance sampling for the chemical application are located within the residential apartments. These wells are to be decommission and a nested overburden/bedrock well in a non-residential area will be installed as a replacement. Two additional bedrock treatment wells will be installed in the area of treatment well (IW-D-08) that detected DNAPL. The locations were approved by the NYSDEC.

A copy of each correspondence for the above approved modifications is attached.





### Activities Planned for this Month (April)

- Begin trenching and the installation of horizontal piping beneath the floor slab that will be used for subsequent ISCO application events.

### Sampling/Testing Results

The following sampling/testing results were received during this reporting period:

- SPLP PFAS at RI surface soil location (SS-COMP-01 0-2 inches) per new PFAS guidance (lab report L2002747).
- Groundwater samples results for samples BW-01, BW-02, MW-03, SB-MW-10, RIMW-A-1, RIMW-A-2, RIMW-A-3, and RIMW-A-4 (lab report L2002906).
- Trench soil for the plumbing and SSDS installation that were collected in December 2019 (lab report L1960377).
- Groundwater data for the wells BW-03-1 and BW-03-2 (lab report L2000143).
- Waste characterization testing during this reporting period will be included in the CCR.

### Unresolved Delays Encountered or Anticipated

Unresolved delays have not been encountered nor are they anticipated at this time.

### Percentage of Completion

To date, the following key items have been completed as part of the BCP project:

- RIWP Approval
- Interim Site Management Plan submitted to NYSDEC/NYSDOH (pending approval)
- SSDS Work Plan Approval
- RI Report Approval
- IRM Work Plan Approval
- IRM RAOC #1 Design Document
- IRM RAOC #1 Implementation – 50%
- SSDS Installation – 75%



## Citizen Participation Plan Activities

No Citizen Participation Plan Activities were undertaken during this reporting report.

We appreciate the opportunity to serve your professional environmental engineering needs. If you have any questions please do not hesitate to contact me at 585-295-6253.

Respectfully submitted,

**LaBella Associates**

Michael F. Pelychaty, PG  
Sr. Environmental Geologist

### Attachments

cc: Carolyn Vitale – Jefferson Wollensack LLC  
Amy Reichhart – Nixon Peabody LLP  
Chris Roland – Edgemere Development  
Arunesh Ghosh – NYSDOH  
Justin Deming – NYSDOH  
Joseph Biondolillo – City of Rochester DEQ  
John Frazer – MCHD  
Wade Silkworth – MCHD

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January to March 2020.docx





# RADIOLOGICAL REMEDIATION REPORT



**Austin Master Services**

801 N 1<sup>st</sup> St  
Martins Ferry, OH  
740-609-3806 Main Number

1/28/2020

Ms. Carolyn Vitale  
Jeffeson Wollensack LLC  
312 State Street  
Rochester, NY 14614

Re: Former Wollensack Suite Optical January 2020 Radiological Remediation Project

Dear Ms. Vitale

Austin Master Services, LLC (AMS) was contracted to remediate two radiologically contaminated areas at the former Wollensack Optical facility located at 872-886 Hudson Avenue in Rochester New York. The Site is in the New York State Department of Environmental Conservation's (NYSDEC's) Brownfield Cleanup Program as facility #C828209. The radiologically contaminated areas were 1) a small (3' x3") contaminated area of floorboards on the third floor of the building and the sump located on the first floor of the building. The July 2019 report from AMS to your office provides the survey details for both those areas. The following summarizes the results of the remediation activities and AMS recommendations for future actions:

- The 3<sup>rd</sup> floor area has been successfully removed and no residual contamination remains in the area.
- The interior of sump, after several pressure washings exhibits surface count rates greater than background for the building but do not contribute or increase the building background dose rates above the sump.
- AMS believes those elevated count rates are due to naturally occurring radioactive material contained within the glazed terra cotta material of which the sump is comprised.
- Because 1) the dose rates in the occupied area above the sump are at background levels for the building, 2) the elevated count rates are primarily from the terra cotta material, and 3) the plan is to fill the sump with concrete and install a 30" raised floor above the sump, the radiological risk to any future occupant is zero; consequently AMS recommends no further effort be made to either clean or remove the sump.

The remediation approach, as described in the Radiation Protection Plan (RPP) consisted of the following steps.

1. Cut through the "non-contaminated area surrounding the contaminated 3'x3' section of the floor and remove the 3' x 3' section plus a small uncontaminated border section.
2. Place the removed section into a waste container for disposal out-of state at a suitably permitted facility.
3. Upon completion of the 3<sup>rd</sup> floor section removal, perform a post remediation/removal survey that includes a wipe and direct measurement of the surfaces adjacent to the removed area.
4. In addition, survey the area, with wipes and direct measurements in the area on the second floor directly below the removed section. This second survey was performed to ensure no loose contaminants fell to the floor below.
5. For the sump, remove the materials in the sump and place in a waste container for disposal out-of state at a suitably permitted facility.
6. After removal of the sump debris, use a pressure washer to clean the interior. Decontamination debris and water were removed and placed in suitable containers for disposal at a suitably permitted out of state facility.
7. After each pressure washing survey the interior of the sump and compare contamination levels to the release criteria recommended by NYSDEC.

8. Note that the release criteria denoting no contamination present was established at the 95% confidence level for the average of the background counts for removable and total surface alpha and beta emissions.

Table 1 below lists the post remediation survey results for the third and second floor areas. The survey detail sheets are contained in Attachment 2 to this letter report. The average post remediation survey count rates were then compared with the background 95% confidence levels for the wood floor in the building; see Attachment 1 for background survey measurements. Post remediation surveys showed the removable contamination and total surface contamination were all less than the 95% CL action level.

*Table 1 - 3rd & 2nd Floor Post Remediation Survey Data and Comparison to 95% CL Action Limits*

|                              | 3rd Floor |      |        |             | 2nd Floor (beneath 3 <sup>rd</sup> floor removal area) |      |        |       |
|------------------------------|-----------|------|--------|-------------|--------------------------------------------------------|------|--------|-------|
|                              | Wipes     |      | Direct |             | Wipes                                                  |      | Direct |       |
|                              | Counts    |      |        |             | Counts                                                 |      |        |       |
|                              | alpha     | Beta | alpha  | Beta        | alpha                                                  | Beta | alpha  | Beta  |
|                              | 1         | 72   | 7      | 214         | 0                                                      | 50   | 3      | 225   |
|                              | 0         | 70   | 5      | 201         | 0                                                      | 53   | 4      | 214   |
|                              | 0         | 77   | 6      | 199         | 1                                                      | 50   | 7      | 228   |
|                              | 0         | 68   | 3      | 227         | 1                                                      | 56   | 4      | 206   |
|                              | 0         | 83   | 4      | 236         | 0                                                      | 48   | 2      | 223   |
|                              | 0         | 60   | 4      | 219         | 0                                                      | 47   | 1      | 202   |
| 1                            | 55        | 5    | 210    | Not Sampled |                                                        |      |        |       |
| 0                            | 53        | 4    | 239    |             |                                                        |      |        |       |
| 0                            | 58        | 6    | 236    |             |                                                        |      |        |       |
| 0                            | 49        | 4    | 201    |             |                                                        |      |        |       |
| 2                            | 52        | 4    | 213    |             |                                                        |      |        |       |
| 1                            | 44        | 5    | 228    |             |                                                        |      |        |       |
| Mean                         | 0.2       | 71.7 | 4.8    | 216.0       | 0.3                                                    | 50.7 | 3.5    | 216.3 |
| 95% CL<br>(for wood surface) | 3.5       | 85.3 | 7.8    | 239.0       | 3.5                                                    | 85.3 | 7.8    | 239.0 |

As shown in Table 2, the post remediation direct surface counts for the sump did not meet the RPP 95% confidence levels being used for the release criteria. This was likely a result of the composition of the sump and not the contamination from former facility operations. Survey data sheets are contained in Attachment 3 to this letter report.

The sump is made from a terra cotta material with glazing similar to that found in floor tile on the **first** floor during the July 2019 scoping survey. It is suspected that the glazing contains some elevated concentrations (i.e. above normal background for the Rochester area) of naturally occurring radionuclides, which is resulting in the alpha and beta surface emissions above the 95% CL. Because this building material itself is naturally slightly radioactive, further surface decontamination will be ineffective in reducing levels below the 95% CL. See Table 2 below for a results summary.

*Table 2- Sump Post Remediation Survey Data and Comparison to 95% CL Action Limits*

|                         | Wipes (counts) |         | Direct (counts) |         |
|-------------------------|----------------|---------|-----------------|---------|
|                         | $\alpha$       | $\beta$ | $\alpha$        | $\beta$ |
|                         | 1              | 43      | 95              | 874     |
|                         | 9              | 62      | 93              | 1032    |
|                         | 1              | 52      | 34              | 673     |
|                         | 8              | 76      | 98              | 1470    |
|                         | 5              | 39      | 52              | 850     |
|                         | 2              | 60      | 28              | 859     |
|                         | 3              | 68      | 16              | 631     |
|                         | 4              | 57      | 91              | 1064    |
|                         | 2              | 45      | 22              | 663     |
| Mean                    | 3.9            | 55.8    | 58.8            | 901.8   |
| 95% CL Bk <sub>ad</sub> | 3.5            | 85.3    | 10.1            | 366.9   |

Dose rate measurements were made one foot above the sump and then throughout the first floor. The values were 8 urem/h and were consistent with background levels found throughout the building. Given that the dose rate is indistinguishable from background and the building renovation plan is to fill in the sump and then raise the existing first floor elevation over the sump area by approximately 30 inches, there will be no radiological risk to future occupants. Consequently, AMS recommends no further remediation effort be applied to this area.

Finally, approximately 50 ft<sup>3</sup> of contaminated debris and water has been collected to date; there will be additional waste generated from tear down of the sump containment. Drums are currently located in a posted radioactive materials storage area awaiting disposal by AMS. The contaminated debris removal will take place within the next 30 days.

Feel free to call (518-859-1944) or email ([pcollopy@austinmasterservices.com](mailto:pcollopy@austinmasterservices.com)) with any questions or comments.

Respectfully,

A handwritten signature in black ink that reads "Peter Collopy". The signature is written in a cursive, flowing style.

Peter Collopy, CHP, CIH, CSP  
AMS Radiation Safety Officer

Attachments:

Attachment 1 –Background Measurements

Attachment 2 - Post Second and Third Floor Remediation Survey Data Sheets

Attachment 3 - Post Sump Remediation Survey Data Sheets

cc: Jack Bement

**Attachment 1**  
**Instrument Background Values and 95% CLs**

# Background Count Rates and 95% Confidence Level Values

| Ludlum 2929 Ser. No: 111575 |       |      |  | Ludlum 2360 Ser. No. 311203 |       |       |  | Ludlum 2360 Ser. No. 311203 |       |       |
|-----------------------------|-------|------|--|-----------------------------|-------|-------|--|-----------------------------|-------|-------|
| Removable                   |       |      |  | Direct - Concrete           |       |       |  | Direct - Wood               |       |       |
| Count                       | alpha | beta |  | Count                       | alpha | beta  |  | Count                       | alpha | beta  |
| 1                           | 1     | 43   |  | 1                           | 7     | 308   |  | 1                           | 4     | 237   |
| 2                           | 1     | 61   |  | 2                           | 7     | 331   |  | 2                           | 1     | 214   |
| 3                           | 1     | 53   |  | 3                           | 5     | 361   |  | 3                           | 2     | 206   |
| 4                           | 2     | 68   |  | 4                           | 4     | 330   |  | 4                           | 3     | 189   |
| 5                           | 4     | 70   |  | 5                           | 8     | 302   |  | 5                           | 1     | 200   |
| 6                           | 0     | 74   |  | 6                           | 2     | 314   |  | 6                           | 2     | 198   |
| 7                           | 0     | 68   |  | 7                           | 9     | 312   |  | 7                           | 6     | 204   |
| 8                           | 0     | 77   |  | 8                           | 4     | 294   |  | 8                           | 2     | 221   |
| 9                           | 1     | 58   |  | 9                           | 5     | 331   |  | 9                           | 6     | 203   |
| 10                          | 0     | 71   |  | 10                          | 7     | 264   |  | 10                          | 7     | 174   |
| average                     | 1     | 64.3 |  | average                     | 5.8   | 314.7 |  | average                     | 3.4   | 204.6 |
| SD                          | 1.2   | 10.5 |  | SD                          | 2.1   | 26.1  |  | SD                          | 2.2   | 17.2  |
| 95% CL                      | 3.5   | 85.3 |  | 95% CL                      | 10.1  | 366.9 |  | 95% CL                      | 7.8   | 239.0 |

**Attachment 2**  
**Post Remediation Survey Data- 2nd and 3rd Floors**



# RADIOLOGICAL SURVEY REPORT

**AREA / LOCATION:** Wollensack- Third Floor

**TYPE:****SURVEY#:** W-2020-002

## Contamination Survey Instrument Data

| ID | Type        | Serial # | Cal. Due   | probe area<br>(cm <sup>2</sup> ) | α Eff. |         | β Eff. |         | Bkg<br>α<br>(total counts)<br>Rb | Bkg<br>β<br>(total counts)<br>Rb | Sample<br>count time<br>(minutes)<br>Ts | Bkg count<br>time<br>(minutes)<br>Tb | DL<br>(dpm) α | DL<br>(dpm) β | Units   |
|----|-------------|----------|------------|----------------------------------|--------|---------|--------|---------|----------------------------------|----------------------------------|-----------------------------------------|--------------------------------------|---------------|---------------|---------|
|    |             |          |            |                                  | Instr. | Surface | Inst   | Surface |                                  |                                  |                                         |                                      |               |               |         |
| 1  | Ludlum 2929 | 111575   | 11/21/2020 | 100                              | 0.3312 | 0.9     | 0.2454 | 1       | 35                               | 853                              | 1                                       | 10                                   | 10.9          | 65.1          | /100cm2 |
| 2  | Ludlum 2360 | 278541   | 5/6/2020   | 100                              | 0.2047 | 0.25    | 0.1545 | 0.54    | 78                               | 2390                             | 1                                       | 10                                   | 94.4          | 320.7         | /100cm2 |
|    |             |          |            |                                  |        |         |        |         |                                  |                                  |                                         |                                      |               |               |         |
|    |             |          |            |                                  |        |         |        |         |                                  |                                  |                                         |                                      |               |               |         |

## Exposure Rate Survey Instrument Data

## Unrestricted Release Criteria

| Type | Serial # | Cal. Due | Removable<br>(dpm/100 cm <sup>2</sup> ) | Total<br>(dpm/100 cm <sup>2</sup> ) |
|------|----------|----------|-----------------------------------------|-------------------------------------|
|      |          |          | α                                       | β                                   |
|      |          |          |                                         |                                     |
|      |          |          |                                         |                                     |

Avg. &lt; 95% Bkgd CL

$$DL = \frac{1.65 * \sqrt{R_b * T_s * \left(1 + \frac{T_s}{T_b}\right)}}{E_{inst} * T_s}$$

| Survey No. | Type (D, S) | Inst. ID | Location or Item Description                 | Gross count rate<br>α (cpm) | Net count rate<br>α (cpm) | Gross count rate<br>β (cpm) | Net count rate<br>β (cpm) | DPM α | DPM β | Units   |
|------------|-------------|----------|----------------------------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-------|-------|---------|
| 1          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 1                           | -2.5                      | 72                          | -13.3                     | <DL   | <DL   | /100cm2 |
| 2          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 70                          | -15.3                     | <DL   | <DL   | /100cm2 |
| 3          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 77                          | -8.3                      | <DL   | <DL   | /100cm2 |
| 4          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 68                          | -17.3                     | <DL   | <DL   | /100cm2 |
| 5          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 83                          | -2.3                      | <DL   | <DL   | /100cm2 |
| 6          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 60                          | -25.3                     | <DL   | <DL   | /100cm2 |
| 7          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 1                           | -2.5                      | 55                          | -30.3                     | <DL   | <DL   | /100cm2 |
| 8          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 53                          | -32.3                     | <DL   | <DL   | /100cm2 |
| 9          | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 58                          | -27.3                     | <DL   | <DL   | /100cm2 |
| 10         | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 0                           | -3.5                      | 49                          | -36.3                     | <DL   | <DL   | /100cm2 |
| 11         | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 2                           | -1.5                      | 52                          | -33.3                     | <DL   | <DL   | /100cm2 |
| 12         | S           | 1        | Wollensack 3rd Floor Contaminated wood floor | 1                           | -2.5                      | 44                          | -41.3                     | <DL   | <DL   | /100cm2 |

## Survey Types

D = Direct Scan

S = Swipe

## NOTES

1. "Probe Area (cm<sup>2</sup>)/100 cm<sup>2</sup>" not used in MDA equation for Scalers.
2. A map is not required if sufficient detail can be included on this page.
3. Activity for direct (D) measurements corrected for probe area to 100 cm<sup>2</sup>.
4. Swipes obtained over 100 cm<sup>2</sup> when the accessible surface area item exceeds 100cm<sup>2</sup>.
5. Notify RSO/SRSO when contamination levels exceed Unrestricted Release Criteria Noted Above.

Survey Performed By:

Print name: Kyle Klein  
 Signature: KJK  
 Date: 1/16/2020

Survey Reviewed By:

Print name: Peter Collopy  
 Signature: PC  
 Date: 1/19/2020



2 of 2



# RADIOLOGICAL SURVEY REPORT

AREA / LOCATION: **Wollensak- Second Floor**

TYPE:

SURVEY#: **W-2020-002**

## Contamination Survey Instrument Data

| ID | Type        | Serial # | Cal. Due   | probe area<br>(cm <sup>2</sup> ) | α Eff. |         | β Eff. |         | Bkg<br>α<br>(total counts)<br>Rb | Bkg<br>β<br>(total counts)<br>Rb | Sample<br>count time<br>(minutes)<br>Ts | Bkg count<br>time<br>(minutes)<br>Tb | DL<br>(dpm) α | DL<br>(dpm) β | Units   |
|----|-------------|----------|------------|----------------------------------|--------|---------|--------|---------|----------------------------------|----------------------------------|-----------------------------------------|--------------------------------------|---------------|---------------|---------|
|    |             |          |            |                                  | Instr. | Surface | Inst   | Surface |                                  |                                  |                                         |                                      |               |               |         |
| 1  | Ludlum 2929 | 111575   | 11/21/2020 | 100                              | 0.3312 | 0.9     | 0.2454 | 1       | 35                               | 853                              | 1                                       | 10                                   | 10.9          | 65.1          | /100cm2 |
| 2  | Ludlum 2360 | 278541   | 5/6/2020   | 100                              | 0.2047 | 0.25    | 0.1545 | 0.54    | 78                               | 2390                             | 1                                       | 10                                   | 94.4          | 320.7         | /100cm2 |
|    |             |          |            |                                  |        |         |        |         |                                  |                                  |                                         |                                      |               |               |         |
|    |             |          |            |                                  |        |         |        |         |                                  |                                  |                                         |                                      |               |               |         |

## Exposure Rate Survey Instrument Data

## Unrestricted Release Criteria

| Type | Serial # | Cal. Due | Removable<br>(dpm/100 cm <sup>2</sup> ) | Total<br>(dpm/100 cm <sup>2</sup> ) |
|------|----------|----------|-----------------------------------------|-------------------------------------|
|      |          |          | α                                       | β                                   |
|      |          |          | α                                       | β                                   |
|      |          |          | Avg. < 95% Bkgd CL                      |                                     |

$$DL = \frac{1.65 * \sqrt{R_b * T_s * \left(1 + \frac{T_s}{T_b}\right)}}{E_{inst} * T_s}$$

| Survey No. | Type (D, S) | Inst. ID | Location or Item Description                   | Gross count rate<br>α (cpm) | Net count rate<br>α (cpm) | Gross count rate<br>β (cpm) | Net count rate<br>β (cpm) | DPM α | DPM β | Units   |
|------------|-------------|----------|------------------------------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-------|-------|---------|
| 1          | S           | 1        | Wollensak 2nd floor from 3rd Floor fall debris | 0                           | -3.5                      | 50                          | -35.3                     | <DL   | <DL   | /100cm2 |
| 2          | S           | 1        | Wollensak 2nd floor from 3rd Floor fall debris | 0                           | -3.5                      | 53                          | -32.3                     | <DL   | <DL   | /100cm2 |
| 3          | S           | 1        | Wollensak 2nd floor from 3rd Floor fall debris | 1                           | -2.5                      | 50                          | -35.3                     | <DL   | <DL   | /100cm2 |
| 4          | S           | 1        | Wollensak 2nd floor from 3rd Floor fall debris | 1                           | -2.5                      | 56                          | -29.3                     | <DL   | <DL   | /100cm2 |
| 5          | S           | 1        | Wollensak 2nd floor from 3rd Floor fall debris | 0                           | -3.5                      | 48                          | -37.3                     | <DL   | <DL   | /100cm2 |
| 6          | S           | 1        | Wollensak 2nd floor from 3rd Floor fall debris | 0                           | -3.5                      | 47                          | -38.3                     | <DL   | <DL   | /100cm2 |
| 1          | D           | 2        | Wollensak 2nd floor from 3rd Floor fall debris | 3                           | -4.8                      | 225                         | -14                       | <DL   | <DL   | /100cm2 |
| 2          | D           | 2        | Wollensak 2nd floor from 3rd Floor fall debris | 4                           | -3.8                      | 214                         | -25                       | <DL   | <DL   | /100cm2 |
| 3          | D           | 2        | Wollensak 2nd floor from 3rd Floor fall debris | 7                           | -0.8                      | 228                         | -11                       | <DL   | <DL   | /100cm2 |
| 4          | D           | 2        | Wollensak 2nd floor from 3rd Floor fall debris | 4                           | -3.8                      | 206                         | -33                       | <DL   | <DL   | /100cm2 |
| 5          | D           | 2        | Wollensak 2nd floor from 3rd Floor fall debris | 2                           | -5.8                      | 223                         | -16                       | <DL   | <DL   | /100cm2 |
| 6          | D           | 2        | Wollensak 2nd floor from 3rd Floor fall debris | 1                           | -6.8                      | 202                         | -37                       | <DL   | <DL   | /100cm2 |

## Survey Types

D = Direct Scan

S = Swipe

## NOTES

1. "Probe Area (cm<sup>2</sup>)/100 cm<sup>2</sup>" not used in MDA equation for Scalers.
2. A map is not required if sufficient detail can be included on this page.
3. Activity for direct (D) measurements corrected for probe area to 100 cm<sup>2</sup>.
4. Swipes obtained over 100 cm<sup>2</sup> when the accessible surface area item exceeds 100cm<sup>2</sup>.
5. **Notify RSO/SRSO when contamination levels exceed Unrestricted Release Criteria Noted Above.**

Survey Performed By:

Print name: Kyle Klein  
 Signature: KJK  
 Date: 1/16/2020

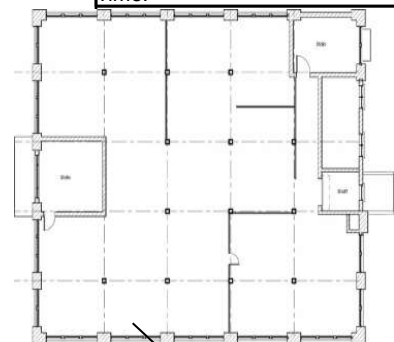
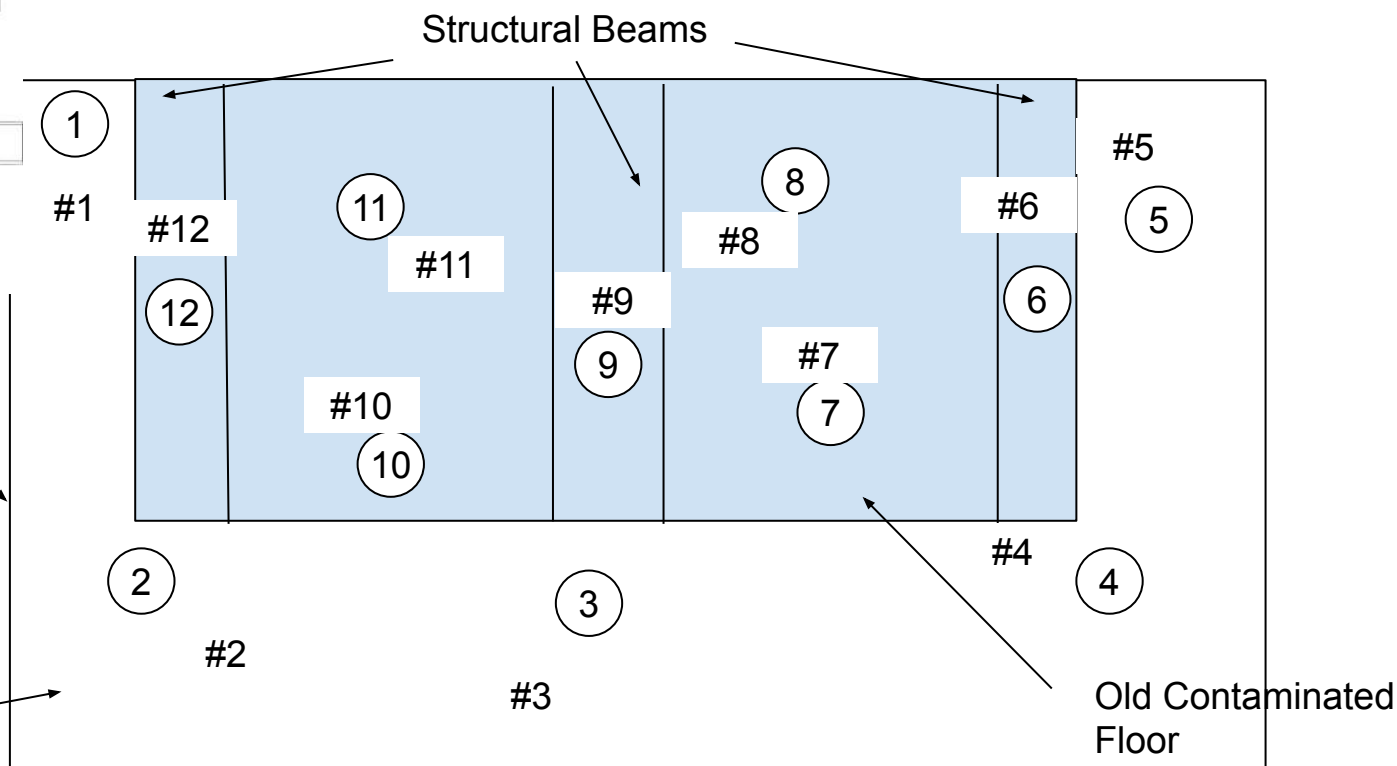
Survey Reviewed By:

Print name: Peter Collopy  
 Signature: PC  
 Date: 1/19/2020



## RADIOLOGICAL SURVEY REPORT

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| Survey #: W-2020-01    | <input type="checkbox"/> Routine                                                      |
| BLDG: Wollensack       | <input type="checkbox"/> Non-Routine (Specify)                                        |
| Area/Room: Third Floor | <input type="checkbox"/> Follow Up                                                    |
| RWP#:                  | Surveyed By: Kyle Klein                                                               |
| Date: 1-16-2020        | Comments: Instrument used: 2360 w/ 43-93 probe 1 minute static counts 10cm from floor |
| Time:                  | 2929 for contamination swipes                                                         |
|                        | <input checked="" type="checkbox"/>                                                   |

New  
Flooring

## NOTES

|                                                             |                                                      |
|-------------------------------------------------------------|------------------------------------------------------|
| Dose Rates in $\mu\text{R}/\text{h}$ unless otherwise noted | Radiological barriers indicated by ----x---x---x---- |
| <b>Annotation Conventions</b>                               |                                                      |
| Direct Scan annotated by: #                                 | On contact radiation survey annotated by: *          |
| Swipe annotated by: O                                       | Distance from source annotated by: @ Y cm            |
| Large Area Wipes annotated by: ◇                            | General area dose rates annotated as a number only   |
| Air sample annotated by Δ                                   |                                                      |

**Attachment 3**  
**Sump Survey Data Post Pressure Wash and Decon**



TYPE:

# RADIOLOGICAL SURVEY REPORT

AREA / LOCATION:

Wollensack- Sump

SURVEY#: W-2020-002

## Contamination Survey Instrument Data

| ID                                   | Type           |          | Serial #                     | Cal. Due                   | probe area<br>(cm²) | α Eff.                        |         | β Eff. |                                | Bkg<br>α<br>(total counts)<br>Rb | Bkg<br>β<br>(total counts)<br>Rb | Sample<br>count time<br>(minutes)<br>Ts | Bkg count<br>time<br>(minutes)<br>Tb                                                     | DL<br>(dpm) α | DL<br>(dpm) β | Units   |
|--------------------------------------|----------------|----------|------------------------------|----------------------------|---------------------|-------------------------------|---------|--------|--------------------------------|----------------------------------|----------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|---------------|---------------|---------|
|                                      |                |          |                              |                            |                     | Instr.                        | Surface | Inst   | Surface                        |                                  |                                  |                                         |                                                                                          |               |               |         |
| 1                                    | Ludlum 2929    |          | 111575                       | 11/21/2020                 | 100                 | 0.3312                        | 0.9     | 0.2454 | 1                              | 35                               | 853                              | 1                                       | 10                                                                                       | 10.9          | 65.1          | /100cm2 |
| 2                                    | Ludlum 2360    |          | 278541                       | 5/6/2020                   | 100                 | 0.2047                        | 0.25    | 0.1545 | 0.54                           | 78                               | 2390                             | 1                                       | 10                                                                                       | 94.4          | 320.7         | /100cm2 |
|                                      |                |          |                              |                            |                     |                               |         |        |                                |                                  |                                  |                                         |                                                                                          |               |               |         |
|                                      |                |          |                              |                            |                     |                               |         |        |                                |                                  |                                  |                                         |                                                                                          |               |               |         |
| Exposure Rate Survey Instrument Data |                |          |                              |                            |                     | Unrestricted Release Criteria |         |        |                                |                                  |                                  |                                         | $DL = \frac{1.65 * \sqrt{R_b * T_s * \left(1 + \frac{T_s}{T_B}\right)}}{E_{inst} * T_s}$ |               |               |         |
| Type                                 |                | Serial # | Cal. Due                     | Removable<br>(dpm/100 cm²) |                     | Total<br>(dpm/100 cm2)        |         |        |                                |                                  |                                  |                                         |                                                                                          |               |               |         |
|                                      |                |          |                              | α                          |                     | β                             | α       | β      |                                |                                  |                                  |                                         |                                                                                          |               |               |         |
|                                      |                |          |                              | Avg. < 95% Bkgd CL         |                     |                               |         |        |                                |                                  |                                  |                                         |                                                                                          |               |               |         |
|                                      |                |          |                              |                            |                     |                               |         |        |                                |                                  |                                  |                                         |                                                                                          |               |               |         |
| Survey<br>No.                        | Type<br>(D, S) | Inst. ID | Location or Item Description |                            |                     |                               |         |        | Gross<br>count rate<br>α (cpm) | Net<br>count rate<br>α (cpm)     | Gross count<br>rate β (cpm)      | Net count<br>rate β (cpm)               | DPM α                                                                                    | DPM β         | Units         |         |
| 1                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 6                              | 2.5                              | 58                               | -27.3                                   | <DL                                                                                      | <DL           | /100cm2       |         |
| 2                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 0                              | -3.5                             | 46                               | -39.3                                   | <DL                                                                                      | <DL           | /100cm2       |         |
| 3                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 0                              | -3.5                             | 61                               | -24.3                                   | <DL                                                                                      | <DL           | /100cm2       |         |
| 4                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 12                             | 8.5                              | 60                               | -25.3                                   | 29                                                                                       | <DL           | /100cm2       |         |
| 5                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 7                              | 3.5                              | 80                               | -5.3                                    | 12                                                                                       | <DL           | /100cm2       |         |
| 6                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 7                              | 3.5                              | 80                               | -5.3                                    | 12                                                                                       | <DL           | /100cm2       |         |
| 7                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 8                              | 4.5                              | 62                               | -23.3                                   | 15                                                                                       | <DL           | /100cm2       |         |
| 8                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 20                             | 16.5                             | 84                               | -1.3                                    | 55                                                                                       | <DL           | /100cm2       |         |
| 9                                    | S              | 1        | Sump Wipes After First Decon |                            |                     |                               |         |        | 1                              | -2.5                             | 51                               | -34.3                                   | <DL                                                                                      | <DL           | /100cm2       |         |

## Survey Types

D = Direct Scan

S = Swipe

## NOTES

1. "Probe Area (cm<sup>2</sup>)/100 cm<sup>2</sup>" not used in MDA equation for Scalers.
2. A map is not required if sufficient detail can be included on this page.
3. Activity for direct (D) measurements corrected for probe area to 100 cm<sup>2</sup>.
4. Swipes obtained over 100 cm<sup>2</sup> when the accessible surface area item exceeds 100cm<sup>2</sup>.
5. Notify RSO/SRSO when contamination levels exceed Unrestricted Release Criteria Noted Above.

Survey Performed By:

Print name: Kyle Klein  
 Signature: KJK  
 Date: 1/16/2020

Survey Reviewed By:

Print name: Peter Collopy *PC*  
 Signature:   
 Date: 1/19/2020



**Austin Master Services**

**Area/Location:** Wollensack- Sump

**Survey#:** W-2020-002

## RADIOLOGICAL SURVEY REPORT CONTINUATION SHEET

[illegible]

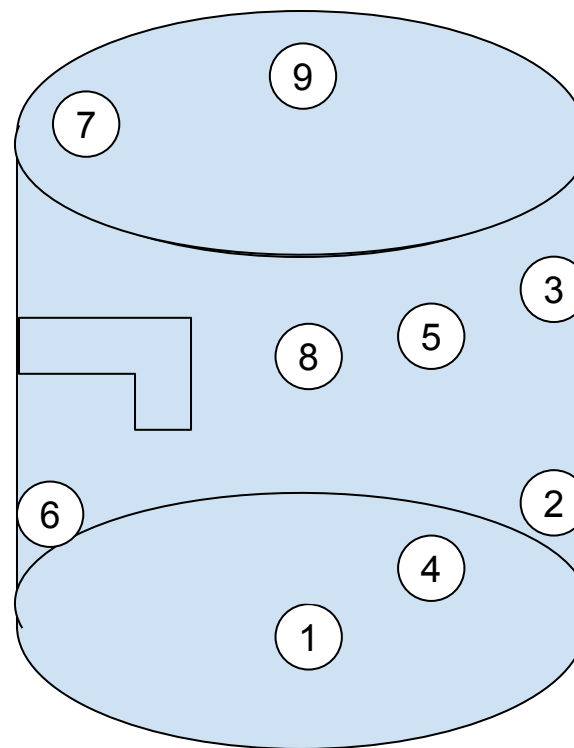


## RADIOLOGICAL SURVEY REPORT

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| Survey #: W-2020-03 | <input type="checkbox"/> Routine                                                                                       |
| BLDG: Wollensack    | <input type="checkbox"/> Non-Routine (Specify)                                                                         |
| Area/Room:          | <input type="checkbox"/> Follow Up                                                                                     |
| RWP#:               | Surveyed By: Kyle Klein                                                                                                |
| Date: 1-17-2020     | Comments: Instrument used: 2360 w/ 43-93 probe 1 minute static counts 10cm from floor<br>2929 for contamination swipes |
| Time:               | <input checked="" type="checkbox"/>                                                                                    |



Sump



#3

## NOTES

Dose Rates in  $\mu\text{R}/\text{h}$  unless otherwise noted

Radiological barriers indicated by ----X----X----X----

## Annotation Conventions

Direct Scan annotated by: #

On contact radiation survey annotated by: \*

Swipe annotated by: O

Distance from source annotated by: @ Y cm

Large Area Wipes annotated by:  $\diamond$ 

General area dose rates annotated as a number only

Air sample annotated by  $\Delta$



# APPROVED MODIFICATION REQUESTS



## Pelychaty, Mike

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Wednesday, February 19, 2020 3:23 PM  
**To:** Pelychaty, Mike  
**Cc:** Caffoe, Todd (DEC); Gillen, Jennifer  
**Subject:** RE: C828208, Jefferson-Wollensack - Groundwater Monitoring Well Closure, Installation, and DNAPL

Mike:

The Department is well aware of the developer's need to meet HCR's schedule. It would be advantageous to have the monitoring wells in the source area remain for rebound monitoring but the Department understands that it is not convenient to have groundwater monitoring wells located in someone's apartment. With that said, the proposed work below can proceed forward. If after the completion of the IRM activities and submittal of the CCR, any data gaps can be addressed in remedy selection and in the Site's RAWP when that is submitted to the Department for review and approval.

Best Regards,  
Charlotte

---

**From:** Pelychaty, Mike <mpelychaty@LaBellaPC.com>  
**Sent:** Wednesday, February 19, 2020 12:19 PM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Cc:** Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>; Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Subject:** RE: C828208, Jefferson-Wollensack - Groundwater Monitoring Well Closure, Installation, and DNAPL

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

Charlotte,

The main concern is keeping the driller going on the additional wells, as it may be a while before they can return to the site if they have to demob. If they have to remob to the site at a much later date, it could delay occupancy of the building, as the contractor would have to delay working in the drilling area. With HCR and funding, the project is has to meet certain deadlines, and there are significant cost implications to the client if they cannot. Also, we want the wells installed to we can have them to monitor the performance of the chemical injection.

-Mike

Michael Pelychaty, PG  
LaBella Associates | Sr. Environmental Geologist

585-295-6253    direct  
585-454-6110    office

---

**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Wednesday, February 19, 2020 10:07 AM  
**To:** Pelychaty, Mike <[mpelychaty@LaBellaPC.com](mailto:mpelychaty@LaBellaPC.com)>  
**Cc:** Caffoe, Todd (DEC) <[todd.caffoe@dec.ny.gov](mailto:todd.caffoe@dec.ny.gov)>; Gillen, Jennifer <[jgillen@LaBellaPC.com](mailto:jgillen@LaBellaPC.com)>  
**Subject:** RE: C828208, Jefferson-Wollensack - Groundwater Monitoring Well Closure, Installation, and DNAPL

Mike:

I am looking over the proposed work. Question – why do you need an answer by Friday?

Charlotte

---

**From:** Pelychaty, Mike <[mpelychaty@LaBellaPC.com](mailto:mpelychaty@LaBellaPC.com)>

**Sent:** Tuesday, February 18, 2020 5:00 PM

**To:** Theobald, Charlotte B (DEC) <[charlotte.theobald@dec.ny.gov](mailto:charlotte.theobald@dec.ny.gov)>

**Cc:** Caffoe, Todd (DEC) <[todd.caffoe@dec.ny.gov](mailto:todd.caffoe@dec.ny.gov)>; Gillen, Jennifer <[jgillen@LaBellaPC.com](mailto:jgillen@LaBellaPC.com)>

**Subject:** C828208, Jefferson-Wollensack - Groundwater Monitoring Well Closure, Installation, and DNAPL

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

Charlotte,

#### DNAPL Layer

We have detected what appears to be a slight DNAPL layer at one of the injection wells shown on the attached figure. We have attempted to measure the thickness of the DNAPL with an oil/water interface probe, but it appears the DNAPL layer is not thick enough to allow an actual measurement. So far we have not detected DNAPL in the other wells. As a contingency, we are proposing to add 2 additional bedrock treatment wells shown on the attached figure.

#### Well Installation and Decommissioning

Reviewing the existing wells with the layout of the building, 3 of the wells that are proposed be used as performance sampling for the chemical injection are located within the residential apartments as shown on the attached figure. We are proposing to decommission these wells and add a nested overburden/bedrock well in a non-residential area shown on the attached figure.

The installation of the injection wells are progressing on schedule at this point and we anticipate to be completed by sometime next week. Please let me know by Friday 2/21/2020 if you have any objection to the proposed plan discussed above or have any questions. We would like to keep Nothnagle on-site to continue with the work discussed above.

Regards,

Mike Pelychaty

Michael Pelychaty, PG

LaBella Associates | Sr. Environmental Geologist



585-295-6253    **direct**  
585-454-6110    **office**  
300 State Street, Suite 201  
Rochester, NY 14614  
[labellapc.com](http://labellapc.com)

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way, if an item bearing the seal of an architect, engineer, or land surveyor is altered: the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.



0 10 Feet  
1 inch = 10 feet  
INTENDED TO PRINT AS: 11" X 17"

PROJECT:  
INTERIM REMEDIAL MEASURES  
WORK PLAN  
DESIGN DOCUMENT

FORMER WOLLENSACK OPTICAL  
NYSDEC BCP C828209  
872 & 886 HUDSON AVENUE  
ROCHESTER, NEW YORK

**DRAFT**

DRAWING NAME:

TREATMENT AND  
MONITORING WELLS

PROJECT #/DRAWING #/ DATE

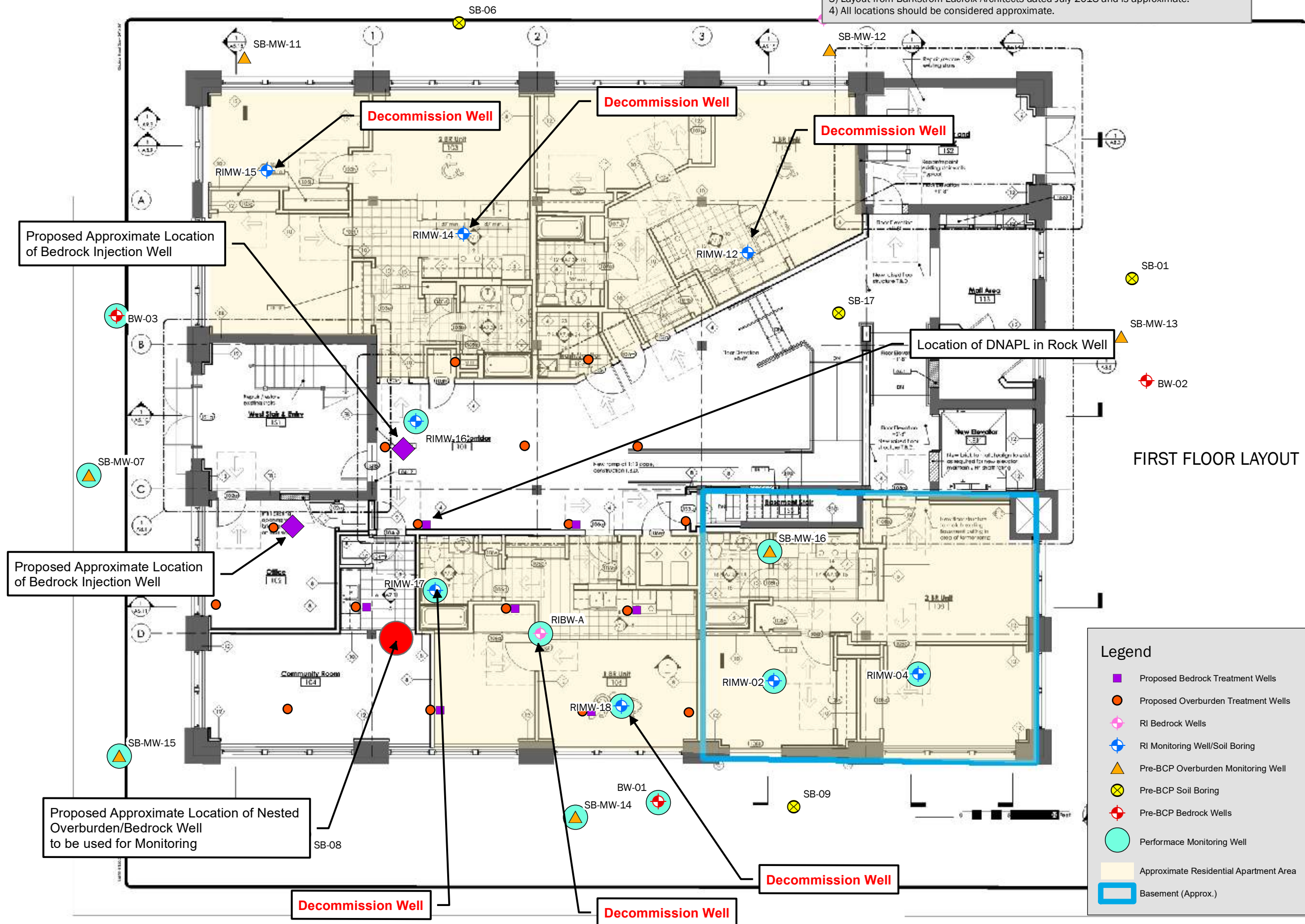
2182207

FIGURE 1

2/18/2020

NOTES:

- 1) Property boundaries obtained from Monroe County GIS and are considered approximate.
- 2) Treatment well locations are approximate and subject to change based on site conditions.
- 3) Layout from Barkstrom Lacroix Architects dated July 2018 and is approximate.
- 4) All locations should be considered approximate.



## Pelychaty, Mike

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Thursday, February 20, 2020 2:48 PM  
**To:** Pelychaty, Mike  
**Subject:** RE: C828209, Jefferson-Wollensack - PFE Monitoring Points

Mike:

The State is agreeable with the locations.

Charlotte

---

**From:** Pelychaty, Mike <mpelychaty@LaBellaPC.com>  
**Sent:** Monday, February 17, 2020 4:34 PM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Cc:** Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>  
**Subject:** C828209, Jefferson-Wollensack - PFE Monitoring Points

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

Charlotte,

I reviewed the location of the pressure field extension (PFE) monitoring points and two of the locations were located within a residential apartment as shown on the attached figure. One of the points I propose to move to an adjacent office area, and the other is located at the northwest area of the building. The location at the northwest area of the building is requested to be made temporary; meaning we will collection PFE readings when the SSDS is fully operational to confirm a minimum reading of -0.004 inches of water, then permanently seal the location.

Please let me know if you accept the proposed change or would like to discuss further.

Regards,

Mike Pelychaty

Michael Pelychaty, PG

LaBella Associates | Sr. Environmental Geologist



585-295-6253 direct  
585-454-6110 office  
300 State Street, Suite 201  
Rochester, NY 14614  
[labellapc.com](http://labellapc.com)



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0 10  
Feet  
1 inch = 10 feet  
INTENDED TO PRINT AS: 11" X 17"

PROJECT:  
**SUB-SLAB DEPRESSURIZATION  
WORK PLAN  
DESIGN DOCUMENT**

FORMER WOLLENSACK OPTICAL  
NYSDEC BCP C828209  
872 & 886 HUDSON AVENUE  
ROCHESTER, NEW YORK

**DRAFT**

DRAWING NAME:  
**PRESSURE FIELD EXTENSION  
MONITORING POINT LOCATIONS**

PROJECT #/DRAWING #/ DATE

2182207

FIGURE 1

2/17/2020

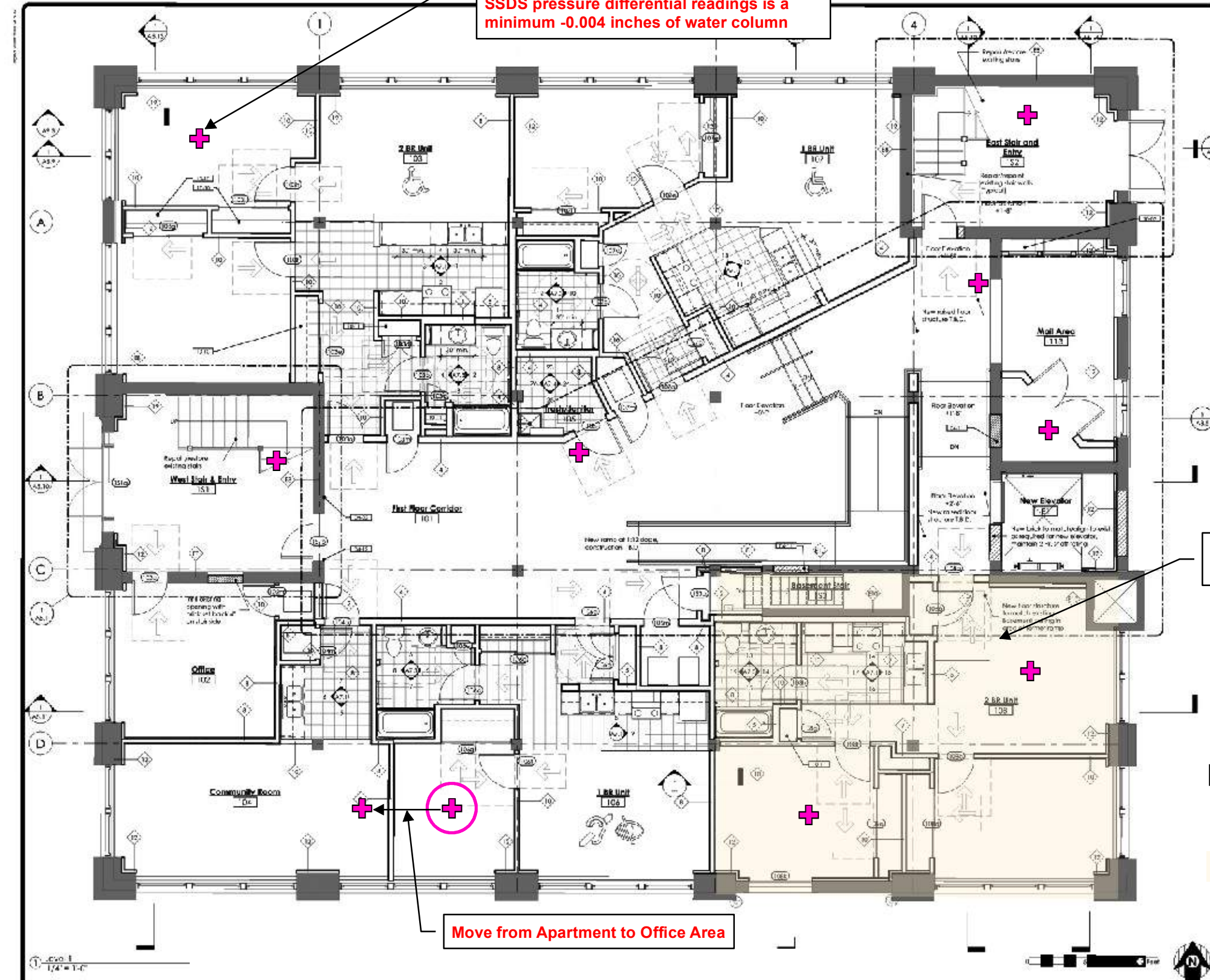
Make a Temporary PFE Point  
(Location inside Apartment)  
-PFE Point would be sealed once confirmed  
SSDS pressure differential readings is a  
minimum -0.004 inches of water column

Shaded Area is the general  
location of the basement

**Legend**

- + PFE Point
- Basement (Approx.)

Move from Apartment to Office Area





# SAMPLING/TESTING RESULTS



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L2000143                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Ann Aquilina                                                                     |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 01/06/20                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b>    | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|-------------------------------|---------------------------------|---------------------|
| L2000143-01                | BW-03-1          | WATER         | 872 HUDSON AVE, ROCHESTER, NY | 01/02/20 13:15                  | 01/02/20            |
| L2000143-02                | BW-03-2          | WATER         | 872 HUDSON AVE, ROCHESTER, NY | 01/02/20 13:30                  | 01/02/20            |
| L2000143-03                | TRIP BLANK       | WATER         | 872 HUDSON AVE, ROCHESTER, NY | 01/02/20 00:00                  | 01/02/20            |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

### Case Narrative (continued)

#### Report Submission

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

#### Sample Receipt

L2000143-03: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. The sample was not analyzed.

#### Volatile Organics

The WG1327138-7 MSD recovery, performed on L2000143-01, is outside the acceptance criteria for trichloroethene (0%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

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

Authorized Signature:

*Tiffani Morrissey* - Tiffani Morrissey

Title: Technical Director/Representative

Date: 01/06/20

# ORGANICS

# VOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L2000143**Project Number:** 2182207**Report Date:** 01/06/20**SAMPLE RESULTS**

Lab ID: L2000143-01 D  
 Client ID: BW-03-1  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 01/02/20 13:15  
 Date Received: 01/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 01/04/20 19:16  
 Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 25  | 7.0  | 10              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Chloroform                                   | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 10  | 1.4  | 10              |
| Dibromochloromethane                         | ND     |           | ug/l  | 5.0 | 1.5  | 10              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 15  | 5.0  | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 25  | 7.0  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Bromodichloromethane                         | ND     |           | ug/l  | 5.0 | 1.9  | 10              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 5.0 | 1.4  | 10              |
| Bromoform                                    | ND     |           | ug/l  | 20  | 6.5  | 10              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 5.0 | 1.7  | 10              |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| Toluene                                      | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Ethylbenzene                                 | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Chloromethane                                | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Bromomethane                                 | ND     |           | ug/l  | 25  | 7.0  | 10              |
| Vinyl chloride                               | 56     |           | ug/l  | 10  | 0.71 | 10              |
| Chloroethane                                 | ND     |           | ug/l  | 25  | 7.0  | 10              |
| 1,1-Dichloroethene                           | 28     |           | ug/l  | 5.0 | 1.7  | 10              |
| trans-1,2-Dichloroethene                     | 36     |           | ug/l  | 25  | 7.0  | 10              |
| Trichloroethene                              | 1800   |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 7.0  | 10              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L2000143**Project Number:** 2182207**Report Date:** 01/06/20**SAMPLE RESULTS**

Lab ID: L2000143-01 D  
 Client ID: BW-03-1  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 01/02/20 13:15  
 Date Received: 01/02/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 7.0 | 10              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 7.0 | 10              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 25  | 7.0 | 10              |
| p/m-Xylene                                   | ND     |           | ug/l  | 25  | 7.0 | 10              |
| o-Xylene                                     | ND     |           | ug/l  | 25  | 7.0 | 10              |
| cis-1,2-Dichloroethene                       | 1800   |           | ug/l  | 25  | 7.0 | 10              |
| Styrene                                      | ND     |           | ug/l  | 25  | 7.0 | 10              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 50  | 10. | 10              |
| Acetone                                      | 15     | J         | ug/l  | 50  | 15. | 10              |
| Carbon disulfide                             | ND     |           | ug/l  | 50  | 10. | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19. | 10              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 50  | 10. | 10              |
| 2-Hexanone                                   | ND     |           | ug/l  | 50  | 10. | 10              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 20  | 6.5 | 10              |
| n-Butylbenzene                               | ND     |           | ug/l  | 25  | 7.0 | 10              |
| sec-Butylbenzene                             | ND     |           | ug/l  | 25  | 7.0 | 10              |
| tert-Butylbenzene                            | ND     |           | ug/l  | 25  | 7.0 | 10              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 25  | 7.0 | 10              |
| Isopropylbenzene                             | ND     |           | ug/l  | 25  | 7.0 | 10              |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 25  | 7.0 | 10              |
| Naphthalene                                  | ND     |           | ug/l  | 25  | 7.0 | 10              |
| n-Propylbenzene                              | ND     |           | ug/l  | 25  | 7.0 | 10              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 25  | 7.0 | 10              |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 25  | 7.0 | 10              |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 25  | 7.0 | 10              |
| Methyl Acetate                               | ND     |           | ug/l  | 20  | 2.3 | 10              |
| Cyclohexane                                  | ND     |           | ug/l  | 100 | 2.7 | 10              |
| Freon-113                                    | ND     |           | ug/l  | 25  | 7.0 | 10              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 100 | 4.0 | 10              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 10 |
|-------------------------------------|----|------|----|

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**SAMPLE RESULTS**

**Lab ID:** L2000143-01      D  
**Client ID:** BW-03-1  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 01/02/20 13:15  
**Date Received:** 01/02/20  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 97         |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 99         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**SAMPLE RESULTS**

**Lab ID:** L2000143-02      D2  
**Client ID:** BW-03-2  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 01/02/20 13:30  
**Date Received:** 01/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 01/05/20 14:36  
**Analyst:** PD

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

## Volatile Organics by GC/MS - Westborough Lab

|                        |      |  |      |     |     |     |
|------------------------|------|--|------|-----|-----|-----|
| cis-1,2-Dichloroethene | 4600 |  | ug/l | 250 | 70. | 100 |
|------------------------|------|--|------|-----|-----|-----|

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 97         |           | 70-130              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**SAMPLE RESULTS**

**Lab ID:** L2000143-02      **D**  
**Client ID:** BW-03-2  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 01/02/20 13:30  
**Date Received:** 01/02/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Water  
**Analytical Method:** 1,8260C  
**Analytical Date:** 01/04/20 19:39  
**Analyst:** AD

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 50 | 14. | 20              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 50 | 14. | 20              |
| Chloroform                                   | ND     |           | ug/l  | 50 | 14. | 20              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 10 | 2.7 | 20              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 20 | 2.7 | 20              |
| Dibromochloromethane                         | ND     |           | ug/l  | 10 | 3.0 | 20              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 30 | 10. | 20              |
| Tetrachloroethene                            | ND     |           | ug/l  | 10 | 3.6 | 20              |
| Chlorobenzene                                | ND     |           | ug/l  | 50 | 14. | 20              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 50 | 14. | 20              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 10 | 2.6 | 20              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 50 | 14. | 20              |
| Bromodichloromethane                         | ND     |           | ug/l  | 10 | 3.8 | 20              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 10 | 3.3 | 20              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 10 | 2.9 | 20              |
| Bromoform                                    | ND     |           | ug/l  | 40 | 13. | 20              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 10 | 3.3 | 20              |
| Benzene                                      | ND     |           | ug/l  | 10 | 3.2 | 20              |
| Toluene                                      | ND     |           | ug/l  | 50 | 14. | 20              |
| Ethylbenzene                                 | ND     |           | ug/l  | 50 | 14. | 20              |
| Chloromethane                                | ND     |           | ug/l  | 50 | 14. | 20              |
| Bromomethane                                 | ND     |           | ug/l  | 50 | 14. | 20              |
| Vinyl chloride                               | 80     |           | ug/l  | 20 | 1.4 | 20              |
| Chloroethane                                 | ND     |           | ug/l  | 50 | 14. | 20              |
| 1,1-Dichloroethene                           | 53     |           | ug/l  | 10 | 3.4 | 20              |
| trans-1,2-Dichloroethene                     | 65     |           | ug/l  | 50 | 14. | 20              |
| Trichloroethene                              | 1100   |           | ug/l  | 10 | 3.5 | 20              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 50 | 14. | 20              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L2000143**Project Number:** 2182207**Report Date:** 01/06/20**SAMPLE RESULTS**

Lab ID: L2000143-02 D  
 Client ID: BW-03-2  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 01/02/20 13:30  
 Date Received: 01/02/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 50  | 14. | 20              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 50  | 14. | 20              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 50  | 14. | 20              |
| p/m-Xylene                                   | ND     |           | ug/l  | 50  | 14. | 20              |
| o-Xylene                                     | ND     |           | ug/l  | 50  | 14. | 20              |
| cis-1,2-Dichloroethene                       | 4300   | E         | ug/l  | 50  | 14. | 20              |
| Styrene                                      | ND     |           | ug/l  | 50  | 14. | 20              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 100 | 20. | 20              |
| Acetone                                      | ND     |           | ug/l  | 100 | 29. | 20              |
| Carbon disulfide                             | ND     |           | ug/l  | 100 | 20. | 20              |
| 2-Butanone                                   | ND     |           | ug/l  | 100 | 39. | 20              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 100 | 20. | 20              |
| 2-Hexanone                                   | ND     |           | ug/l  | 100 | 20. | 20              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 40  | 13. | 20              |
| n-Butylbenzene                               | ND     |           | ug/l  | 50  | 14. | 20              |
| sec-Butylbenzene                             | ND     |           | ug/l  | 50  | 14. | 20              |
| tert-Butylbenzene                            | ND     |           | ug/l  | 50  | 14. | 20              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 50  | 14. | 20              |
| Isopropylbenzene                             | ND     |           | ug/l  | 50  | 14. | 20              |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 50  | 14. | 20              |
| Naphthalene                                  | ND     |           | ug/l  | 50  | 14. | 20              |
| n-Propylbenzene                              | ND     |           | ug/l  | 50  | 14. | 20              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 50  | 14. | 20              |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 50  | 14. | 20              |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 50  | 14. | 20              |
| Methyl Acetate                               | ND     |           | ug/l  | 40  | 4.7 | 20              |
| Cyclohexane                                  | ND     |           | ug/l  | 200 | 5.4 | 20              |
| Freon-113                                    | ND     |           | ug/l  | 50  | 14. | 20              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 200 | 7.9 | 20              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 20 |
|-------------------------------------|----|------|----|

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L2000143**Project Number:** 2182207**Report Date:** 01/06/20**SAMPLE RESULTS**

Lab ID: L2000143-02 D

Date Collected: 01/02/20 13:30

Client ID: BW-03-2

Date Received: 01/02/20

Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 98         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 01/05/20 13:26  
 Analyst: KJD

| Parameter                                                                          | Result | Qualifier | Units | RL   | MDL  |
|------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1327138-12 |        |           |       |      |      |
| Methylene chloride                                                                 | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                 | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                               | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                               | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                              | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                  | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                               | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                          | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                          | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,1,2-Tetrachloroethane                                                          | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                            | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                       | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                       | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                     | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                       | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                 | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                | ND     |           | ug/l  | 2.5  | 0.70 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 01/05/20 13:26  
 Analyst: KJD

| Parameter                                                                          | Result | Qualifier | Units | RL  | MDL  |
|------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1327138-12 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                            | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                            | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                   | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                         | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                               | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                         | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2-Dibromoethane                                                                  | ND     |           | ug/l  | 2.0 | 0.65 |
| n-Butylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                        | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                 | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                        | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                     | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                        | ND     |           | ug/l  | 10  | 0.27 |
| Freon-113                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                 | ND     |           | ug/l  | 10  | 0.40 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 01/05/20 13:26  
Analyst: KJD

| Parameter                                                                          | Result | Qualifier | Units | RL | MDL |
|------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1327138-12 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 94        |           | 70-130                 |
| Toluene-d8            | 98        |           | 70-130                 |
| 4-Bromofluorobenzene  | 99        |           | 70-130                 |
| Dibromofluoromethane  | 95        |           | 70-130                 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 01/04/20 11:55  
 Analyst: MKS

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1327138-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                            | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,1,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                      | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 01/04/20 11:55  
 Analyst: MKS

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1327138-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                              | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/l  | 2.0 | 0.65 |
| n-Butylbenzene                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                       | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                          | ND     |           | ug/l  | 10  | 0.27 |
| Freon-113                                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                   | ND     |           | ug/l  | 10  | 0.40 |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 01/04/20 11:55  
 Analyst: MKS

| Parameter                                                                            | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1327138-5 |        |           |       |    |     |

Tentatively Identified Compounds

No Tentatively Identified Compounds      ND      ug/l

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99        |           | 70-130              |
| Toluene-d8            | 98        |           | 70-130              |
| 4-Bromofluorobenzene  | 99        |           | 70-130              |
| Dibromofluoromethane  | 94        |           | 70-130              |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L2000143

**Report Date:** 01/06/20

| Parameter                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1327138-10 WG1327138-11 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                     | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloroethane                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Chloroform                                                                                             | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Carbon tetrachloride                                                                                   | 95               |      | 94                |      | 63-132              | 1   |      | 20            |
| 1,2-Dichloropropane                                                                                    | 100              |      | 99                |      | 70-130              | 1   |      | 20            |
| Dibromochloromethane                                                                                   | 86               |      | 86                |      | 63-130              | 0   |      | 20            |
| 1,1,2-Trichloroethane                                                                                  | 97               |      | 98                |      | 70-130              | 1   |      | 20            |
| Tetrachloroethene                                                                                      | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| Chlorobenzene                                                                                          | 98               |      | 99                |      | 75-130              | 1   |      | 20            |
| Trichlorofluoromethane                                                                                 | 100              |      | 100               |      | 62-150              | 0   |      | 20            |
| 1,2-Dichloroethane                                                                                     | 97               |      | 96                |      | 70-130              | 1   |      | 20            |
| 1,1,1-Trichloroethane                                                                                  | 100              |      | 100               |      | 67-130              | 0   |      | 20            |
| Bromodichloromethane                                                                                   | 86               |      | 87                |      | 67-130              | 1   |      | 20            |
| trans-1,3-Dichloropropene                                                                              | 84               |      | 83                |      | 70-130              | 1   |      | 20            |
| cis-1,3-Dichloropropene                                                                                | 89               |      | 90                |      | 70-130              | 1   |      | 20            |
| Bromoform                                                                                              | 85               |      | 86                |      | 54-136              | 1   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                              | 96               |      | 98                |      | 67-130              | 2   |      | 20            |
| Benzene                                                                                                | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Toluene                                                                                                | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| Ethylbenzene                                                                                           | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Chloromethane                                                                                          | 91               |      | 92                |      | 64-130              | 1   |      | 20            |
| Bromomethane                                                                                           | 87               |      | 89                |      | 39-139              | 2   |      | 20            |
| Vinyl chloride                                                                                         | 99               |      | 99                |      | 55-140              | 0   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L2000143

**Report Date:** 01/06/20

| Parameter                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1327138-10 WG1327138-11 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                           | 97               |      | 98                |      | 55-138              | 1   |      | 20            |
| 1,1-Dichloroethene                                                                                     | 100              |      | 100               |      | 61-145              | 0   |      | 20            |
| trans-1,2-Dichloroethene                                                                               | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Trichloroethene                                                                                        | 96               |      | 96                |      | 70-130              | 0   |      | 20            |
| 1,2-Dichlorobenzene                                                                                    | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| 1,3-Dichlorobenzene                                                                                    | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| 1,4-Dichlorobenzene                                                                                    | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| Methyl tert butyl ether                                                                                | 96               |      | 96                |      | 63-130              | 0   |      | 20            |
| p/m-Xylene                                                                                             | 105              |      | 105               |      | 70-130              | 0   |      | 20            |
| o-Xylene                                                                                               | 100              |      | 105               |      | 70-130              | 5   |      | 20            |
| cis-1,2-Dichloroethene                                                                                 | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Styrene                                                                                                | 105              |      | 105               |      | 70-130              | 0   |      | 20            |
| Dichlorodifluoromethane                                                                                | 93               |      | 95                |      | 36-147              | 2   |      | 20            |
| Acetone                                                                                                | 89               |      | 88                |      | 58-148              | 1   |      | 20            |
| Carbon disulfide                                                                                       | 91               |      | 90                |      | 51-130              | 1   |      | 20            |
| 2-Butanone                                                                                             | 88               |      | 92                |      | 63-138              | 4   |      | 20            |
| 4-Methyl-2-pentanone                                                                                   | 81               |      | 85                |      | 59-130              | 5   |      | 20            |
| 2-Hexanone                                                                                             | 80               |      | 80                |      | 57-130              | 0   |      | 20            |
| 1,2-Dibromoethane                                                                                      | 97               |      | 97                |      | 70-130              | 0   |      | 20            |
| n-Butylbenzene                                                                                         | 100              |      | 100               |      | 53-136              | 0   |      | 20            |
| sec-Butylbenzene                                                                                       | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| tert-Butylbenzene                                                                                      | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                            | 78               |      | 80                |      | 41-144              | 3   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

| Parameter                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1327138-10 WG1327138-11 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                       | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| p-Isopropyltoluene                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Naphthalene                                                                                            | 95               |      | 98                |      | 70-130              | 3   |      | 20            |
| n-Propylbenzene                                                                                        | 100              |      | 100               |      | 69-130              | 0   |      | 20            |
| 1,2,4-Trichlorobenzene                                                                                 | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| 1,3,5-Trimethylbenzene                                                                                 | 100              |      | 100               |      | 64-130              | 0   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                                 | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Methyl Acetate                                                                                         | 91               |      | 94                |      | 70-130              | 3   |      | 20            |
| Cyclohexane                                                                                            | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Freon-113                                                                                              | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Methyl cyclohexane                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 99               |      | 100               |      | 70-130                 |
| Toluene-d8            | 100              |      | 100               |      | 70-130                 |
| 4-Bromofluorobenzene  | 99               |      | 99                |      | 70-130                 |
| Dibromofluoromethane  | 102              |      | 102               |      | 70-130                 |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L2000143

**Report Date:** 01/06/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1327138-3 WG1327138-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 99               |      | 97                |      | 70-130              | 2   |      | 20            |
| 1,1-Dichloroethane                                                                                      | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Chloroform                                                                                              | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Carbon tetrachloride                                                                                    | 100              |      | 99                |      | 63-132              | 1   |      | 20            |
| 1,2-Dichloropropane                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Dibromochloromethane                                                                                    | 93               |      | 90                |      | 63-130              | 3   |      | 20            |
| 1,1,2-Trichloroethane                                                                                   | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| Tetrachloroethene                                                                                       | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Chlorobenzene                                                                                           | 100              |      | 100               |      | 75-130              | 0   |      | 20            |
| Trichlorofluoromethane                                                                                  | 100              |      | 110               |      | 62-150              | 10  |      | 20            |
| 1,2-Dichloroethane                                                                                      | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,1,1-Trichloroethane                                                                                   | 110              |      | 110               |      | 67-130              | 0   |      | 20            |
| Bromodichloromethane                                                                                    | 91               |      | 92                |      | 67-130              | 1   |      | 20            |
| trans-1,3-Dichloropropene                                                                               | 91               |      | 88                |      | 70-130              | 3   |      | 20            |
| cis-1,3-Dichloropropene                                                                                 | 96               |      | 92                |      | 70-130              | 4   |      | 20            |
| Bromoform                                                                                               | 88               |      | 92                |      | 54-136              | 4   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                               | 95               |      | 100               |      | 67-130              | 5   |      | 20            |
| Benzene                                                                                                 | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Toluene                                                                                                 | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Ethylbenzene                                                                                            | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Chloromethane                                                                                           | 100              |      | 100               |      | 64-130              | 0   |      | 20            |
| Bromomethane                                                                                            | 130              |      | 100               |      | 39-139              | 26  | Q    | 20            |
| Vinyl chloride                                                                                          | 110              |      | 110               |      | 55-140              | 0   |      | 20            |

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## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L2000143

**Report Date:** 01/06/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1327138-3 WG1327138-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                            | 110              |      | 110               |      | 55-138              | 0   |      | 20            |
| 1,1-Dichloroethene                                                                                      | 100              |      | 100               |      | 61-145              | 0   |      | 20            |
| trans-1,2-Dichloroethene                                                                                | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Trichloroethene                                                                                         | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,2-Dichlorobenzene                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,3-Dichlorobenzene                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,4-Dichlorobenzene                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Methyl tert butyl ether                                                                                 | 98               |      | 100               |      | 63-130              | 2   |      | 20            |
| p/m-Xylene                                                                                              | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| o-Xylene                                                                                                | 105              |      | 105               |      | 70-130              | 0   |      | 20            |
| cis-1,2-Dichloroethene                                                                                  | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Styrene                                                                                                 | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Dichlorodifluoromethane                                                                                 | 100              |      | 100               |      | 36-147              | 0   |      | 20            |
| Acetone                                                                                                 | 130              |      | 83                |      | 58-148              | 44  | Q    | 20            |
| Carbon disulfide                                                                                        | 100              |      | 94                |      | 51-130              | 6   |      | 20            |
| 2-Butanone                                                                                              | 98               |      | 92                |      | 63-138              | 6   |      | 20            |
| 4-Methyl-2-pentanone                                                                                    | 88               |      | 94                |      | 59-130              | 7   |      | 20            |
| 2-Hexanone                                                                                              | 86               |      | 92                |      | 57-130              | 7   |      | 20            |
| 1,2-Dibromoethane                                                                                       | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| n-Butylbenzene                                                                                          | 110              |      | 110               |      | 53-136              | 0   |      | 20            |
| sec-Butylbenzene                                                                                        | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| tert-Butylbenzene                                                                                       | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                             | 91               |      | 87                |      | 41-144              | 4   |      | 20            |

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**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1327138-3 WG1327138-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                        | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| p-Isopropyltoluene                                                                                      | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Naphthalene                                                                                             | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| n-Propylbenzene                                                                                         | 110              |      | 110               |      | 69-130              | 0   |      | 20            |
| 1,2,4-Trichlorobenzene                                                                                  | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| 1,3,5-Trimethylbenzene                                                                                  | 110              |      | 110               |      | 64-130              | 0   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                                  | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| Methyl Acetate                                                                                          | 94               |      | 96                |      | 70-130              | 2   |      | 20            |
| Cyclohexane                                                                                             | 100              |      | 110               |      | 70-130              | 10  |      | 20            |
| Freon-113                                                                                               | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Methyl cyclohexane                                                                                      | 110              |      | 110               |      | 70-130              | 0   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 102              |      | 103               |      | 70-130                 |
| Toluene-d8            | 99               |      | 101               |      | 70-130                 |
| 4-Bromofluorobenzene  | 99               |      | 100               |      | 70-130                 |
| Dibromofluoromethane  | 102              |      | 101               |      | 70-130                 |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

| Parameter                                                                                                                                               | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1327138-6 WG1327138-7 QC Sample: L2000143-01 Client ID: BW-03-1 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Methylene chloride                                                                                                                                      | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| 1,1-Dichloroethane                                                                                                                                      | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| Chloroform                                                                                                                                              | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| Carbon tetrachloride                                                                                                                                    | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 63-132          | 0   |      | 20         |
| 1,2-Dichloropropane                                                                                                                                     | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| Dibromochloromethane                                                                                                                                    | ND            | 100      | 92       | 92           |      | 94        | 94            |      | 63-130          | 2   |      | 20         |
| 1,1,2-Trichloroethane                                                                                                                                   | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| Tetrachloroethene                                                                                                                                       | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| Chlorobenzene                                                                                                                                           | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 75-130          | 0   |      | 20         |
| Trichlorofluoromethane                                                                                                                                  | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 62-150          | 0   |      | 20         |
| 1,2-Dichloroethane                                                                                                                                      | ND            | 100      | 100      | 100          |      | 100       | 100           |      | 70-130          | 0   |      | 20         |
| 1,1,1-Trichloroethane                                                                                                                                   | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 67-130          | 0   |      | 20         |
| Bromodichloromethane                                                                                                                                    | ND            | 100      | 98       | 98           |      | 99        | 99            |      | 67-130          | 1   |      | 20         |
| trans-1,3-Dichloropropene                                                                                                                               | ND            | 100      | 86       | 86           |      | 90        | 90            |      | 70-130          | 5   |      | 20         |
| cis-1,3-Dichloropropene                                                                                                                                 | ND            | 100      | 92       | 92           |      | 94        | 94            |      | 70-130          | 2   |      | 20         |
| Bromoform                                                                                                                                               | ND            | 100      | 87       | 87           |      | 91        | 91            |      | 54-136          | 4   |      | 20         |
| 1,1,1,2-Tetrachloroethane                                                                                                                               | ND            | 100      | 100      | 100          |      | 110       | 110           |      | 67-130          | 10  |      | 20         |
| Benzene                                                                                                                                                 | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| Toluene                                                                                                                                                 | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| Ethylbenzene                                                                                                                                            | ND            | 100      | 110      | 110          |      | 120       | 120           |      | 70-130          | 9   |      | 20         |
| Chloromethane                                                                                                                                           | ND            | 100      | 100      | 100          |      | 110       | 110           |      | 64-130          | 10  |      | 20         |
| Bromomethane                                                                                                                                            | ND            | 100      | 66       | 66           |      | 78        | 78            |      | 39-139          | 17  |      | 20         |
| Vinyl chloride                                                                                                                                          | 56            | 100      | 170      | 114          |      | 170       | 114           |      | 55-140          | 0   |      | 20         |



# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

| Parameter                                                                                                                                               | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1327138-6 WG1327138-7 QC Sample: L2000143-01 Client ID: BW-03-1 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Chloroethane                                                                                                                                            | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 55-138          | 0   |      | 20         |
| 1,1-Dichloroethene                                                                                                                                      | 28            | 100      | 150      | 122          |      | 150       | 122           |      | 61-145          | 0   |      | 20         |
| trans-1,2-Dichloroethene                                                                                                                                | 36            | 100      | 150      | 114          |      | 150       | 114           |      | 70-130          | 0   |      | 20         |
| Trichloroethene                                                                                                                                         | 1800          | 100      | 1900     | 100          |      | 1800      | 0             | Q    | 70-130          | 5   |      | 20         |
| 1,2-Dichlorobenzene                                                                                                                                     | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| 1,3-Dichlorobenzene                                                                                                                                     | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| 1,4-Dichlorobenzene                                                                                                                                     | ND            | 100      | 110      | 110          |      | 110       | 110           |      | 70-130          | 0   |      | 20         |
| Methyl tert butyl ether                                                                                                                                 | ND            | 100      | 100      | 100          |      | 100       | 100           |      | 63-130          | 0   |      | 20         |
| p/m-Xylene                                                                                                                                              | ND            | 200      | 240      | 120          |      | 240       | 120           |      | 70-130          | 0   |      | 20         |
| o-Xylene                                                                                                                                                | ND            | 200      | 230      | 115          |      | 240       | 120           |      | 70-130          | 4   |      | 20         |
| cis-1,2-Dichloroethene                                                                                                                                  | 1800          | 100      | 1900     | 100          |      | 1900      | 100           |      | 70-130          | 0   |      | 20         |
| Styrene                                                                                                                                                 | ND            | 200      | 230      | 115          |      | 240       | 120           |      | 70-130          | 4   |      | 20         |
| Dichlorodifluoromethane                                                                                                                                 | ND            | 100      | 120      | 120          |      | 110       | 110           |      | 36-147          | 9   |      | 20         |
| Acetone                                                                                                                                                 | 15J           | 100      | 99       | 99           |      | 100       | 100           |      | 58-148          | 1   |      | 20         |
| Carbon disulfide                                                                                                                                        | ND            | 100      | 100      | 100          |      | 100       | 100           |      | 51-130          | 0   |      | 20         |
| 2-Butanone                                                                                                                                              | ND            | 100      | 96       | 96           |      | 95        | 95            |      | 63-138          | 1   |      | 20         |
| 4-Methyl-2-pentanone                                                                                                                                    | ND            | 100      | 89       | 89           |      | 92        | 92            |      | 59-130          | 3   |      | 20         |
| 2-Hexanone                                                                                                                                              | ND            | 100      | 81       | 81           |      | 87        | 87            |      | 57-130          | 7   |      | 20         |
| 1,2-Dibromoethane                                                                                                                                       | ND            | 100      | 100      | 100          |      | 110       | 110           |      | 70-130          | 10  |      | 20         |
| n-Butylbenzene                                                                                                                                          | ND            | 100      | 110      | 110          |      | 120       | 120           |      | 53-136          | 9   |      | 20         |
| sec-Butylbenzene                                                                                                                                        | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| tert-Butylbenzene                                                                                                                                       | ND            | 100      | 110      | 110          |      | 120       | 120           |      | 70-130          | 9   |      | 20         |
| 1,2-Dibromo-3-chloropropane                                                                                                                             | ND            | 100      | 81       | 81           |      | 86        | 86            |      | 41-144          | 6   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

| Parameter                                                                                                                                               | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1327138-6 WG1327138-7 QC Sample: L2000143-01 Client ID: BW-03-1 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Isopropylbenzene                                                                                                                                        | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| p-Isopropyltoluene                                                                                                                                      | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| Naphthalene                                                                                                                                             | ND            | 100      | 93       | 93           |      | 100       | 100           |      | 70-130          | 7   |      | 20         |
| n-Propylbenzene                                                                                                                                         | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 69-130          | 0   |      | 20         |
| 1,2,4-Trichlorobenzene                                                                                                                                  | ND            | 100      | 100      | 100          |      | 110       | 110           |      | 70-130          | 10  |      | 20         |
| 1,3,5-Trimethylbenzene                                                                                                                                  | ND            | 100      | 110      | 110          |      | 120       | 120           |      | 64-130          | 9   |      | 20         |
| 1,2,4-Trimethylbenzene                                                                                                                                  | ND            | 100      | 110      | 110          |      | 120       | 120           |      | 70-130          | 9   |      | 20         |
| Methyl Acetate                                                                                                                                          | ND            | 100      | 97       | 97           |      | 99        | 99            |      | 70-130          | 2   |      | 20         |
| Cyclohexane                                                                                                                                             | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| Freon-113                                                                                                                                               | ND            | 100      | 120      | 120          |      | 120       | 120           |      | 70-130          | 0   |      | 20         |
| Methyl cyclohexane                                                                                                                                      | ND            | 100      | 130      | 130          |      | 130       | 130           |      | 70-130          | 0   |      | 20         |

| Surrogate             | MS         |           | MSD        |           | Acceptance Criteria |
|-----------------------|------------|-----------|------------|-----------|---------------------|
|                       | % Recovery | Qualifier | % Recovery | Qualifier |                     |
| 1,2-Dichloroethane-d4 | 100        |           | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 99         |           | 70-130              |
| Dibromofluoromethane  | 101        |           | 101        |           | 70-130              |
| Toluene-d8            | 98         |           | 99         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L2000143**Project Number:** 2182207**Report Date:** 01/06/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

A                                  Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b> | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|-----------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2000143-01A        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-01A1       | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-01A2       | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-01B        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-01B1       | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-01B2       | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-02A        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-02B        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-02C        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | NYTCL-8260-R2(14)  |
| L2000143-03A        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | ARCHIVE()          |
| L2000143-03B        | Vial HCl preserved    | A             | NA                    |                     | 3.6                   | Y           | Absent      |                             | ARCHIVE()          |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
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**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2000143  
**Report Date:** 01/06/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 15

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



|                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                           |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
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| <br><b>ALPHA</b><br><small>LABORATORY</small>                                                                                                                                                                                                   |  | <b>NEW YORK</b><br><b>CHAIN OF</b><br><b>CUSTODY</b>                                                                                                                                           |  | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                                                                                                  |  | Page<br>1 of 1                                                                                                                                                                                                            |  | Date Rec'd<br>in Lab 1/3/20                                                                                                                                              |  | ALPHA Job #<br>L2000143                                                                                                                                                                                                                                                      |  |
|                                                                                                                                                                                                                                                 |  | Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193                                                                                                                |  | Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                           |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
| <b>Client Information</b>                                                                                                                                                                                                                       |  | Client: <u>LaBella Associates</u><br>Address: <u>300 STATE ST</u><br><u>ROCHESTER NY 14614</u><br>Phone: <u>585-454-6110</u><br><u>laaguilina@labellape.com</u><br><u>slogan@labellape.com</u> |  | Project Name: <u>FORMER WOLFEBACK OPTICAL</u><br>Project Location: <u>872 HUDSON AVE, ROCHESTER, NY</u><br>Project # <u>2182207</u><br>(Use Project name as Project #) <input type="checkbox"/>                                                                                                                                                          |  | Deliverables:<br><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B<br><input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File)<br><input type="checkbox"/> Other |  | Billing Information<br><input checked="" type="checkbox"/> Same as Client Info<br>PO #                                                                                   |  |                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                 |  | Project Manager: <u>ANN AQUILINA</u><br>ALPHAQuote #:                                                                                                                                          |  | Regulatory Requirement<br><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge |  | Disposal Site Information<br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other:        |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                 |  | Turn-Around Time<br>Standard <input checked="" type="checkbox"/> Due Date:<br>Rush (only if pre approved) <input type="checkbox"/> # of Days:                                                  |  |                                                                                                                                                                                                                                                                                                                                                          |  | ANALYSIS<br>TEL VOCs + TICs<br>CPSI VOCs + TICs<br>MS/MSD                                                                                                                                                                 |  | Sample Filtration<br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br>Preservation<br><input type="checkbox"/> Lab to do<br>(Please Specify below) |  | Total Bottles                                                                                                                                                                                                                                                                |  |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments:                                                                                                                  |  |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                           |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
| Please specify Metals or TAL.                                                                                                                                                                                                                   |  |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                           |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
| ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                  |  | Sample ID                                                                                                                                                                                      |  | Collection<br>Date Time                                                                                                                                                                                                                                                                                                                                  |  | Sample Matrix                                                                                                                                                                                                             |  | Sampler's Initials                                                                                                                                                       |  |                                                                                                                                                                                                                                                                              |  |
| 200143 -01                                                                                                                                                                                                                                      |  | BW-03-1                                                                                                                                                                                        |  | 1/2/20 1315                                                                                                                                                                                                                                                                                                                                              |  | GW                                                                                                                                                                                                                        |  | SL                                                                                                                                                                       |  | X X X                                                                                                                                                                                                                                                                        |  |
| -02                                                                                                                                                                                                                                             |  | BW-03-2                                                                                                                                                                                        |  | 1/2/20 1330                                                                                                                                                                                                                                                                                                                                              |  | GW                                                                                                                                                                                                                        |  | SL                                                                                                                                                                       |  | X X                                                                                                                                                                                                                                                                          |  |
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| Preservative Code:<br>A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other |  | Container Code<br>P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle                                         |  | Westboro: Certification No: MA935<br>Mansfield: Certification No: MA015                                                                                                                                                                                                                                                                                  |  | Container Type                                                                                                                                                                                                            |  | Preservative                                                                                                                                                             |  | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) |  |
| Relinquished By:                                                                                                                                                                                                                                |  | Date/Time                                                                                                                                                                                      |  | Received By:                                                                                                                                                                                                                                                                                                                                             |  | Date/Time                                                                                                                                                                                                                 |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
| <u>GARRET LORAIN</u>                                                                                                                                                                                                                            |  | <u>1/2/20 1430</u>                                                                                                                                                                             |  | <u>ANDREW ZILLEY #11</u>                                                                                                                                                                                                                                                                                                                                 |  | <u>1/2/20 16:30</u>                                                                                                                                                                                                       |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
| <u>ANDREW ZILLEY #11</u>                                                                                                                                                                                                                        |  | <u>1/2/20 16:30</u>                                                                                                                                                                            |  | <u>WENDY MORROW</u>                                                                                                                                                                                                                                                                                                                                      |  | <u>1/3/20 12:40</u>                                                                                                                                                                                                       |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                           |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                           |  |                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                              |  |



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L2002747                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 02/10/20                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2002747-01                | 20200117-PFAAS   | SOIL          | ROCHESTER, NY              | 01/17/20 12:00                  | 01/20/20            |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

### Case Narrative (continued)

#### Report Submission

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

#### SPLP Perfluorinated Alkyl Acids by Isotope Dilution

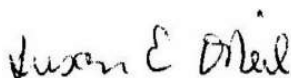
L2002747-01: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

WG1334679-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

WG1334679-5: This blank represents the SPLP tumbling blank associated with L2002747-01.

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

Authorized Signature:



Susan O'Neil

Title: Technical Director/Representative

Date: 02/10/20

# ORGANICS

# SEMIVOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

**SAMPLE RESULTS**

**Lab ID:** L2002747-01  
**Client ID:** 20200117-PFAAS  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 01/17/20 12:00  
**Date Received:** 01/20/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 02/07/20 06:45  
**Analyst:** JW

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/28/20 17:00

**TCLP/SPLP Ext. Date:** 01/21/20 16:03

| Parameter                                                                                 | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| <b>SPLP Perfluorinated Alkyl Acids by Isotope Dilution &amp; EPA 1312 - Mansfield Lab</b> |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                                             | 1.17   | J         | ng/l  | 1.71 | 0.348 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                                           | 0.754  | J         | ng/l  | 1.71 | 0.338 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                                                       | ND     |           | ng/l  | 1.71 | 0.203 | 1               |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                         | ND     |           | ng/l  | 1.71 | 0.386 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                                            | 0.628  | J         | ng/l  | 1.71 | 0.280 | 1               |
| Perfluoropentanesulfonic Acid (PFPeS)                                                     | ND     |           | ng/l  | 1.71 | 0.209 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                                           | 0.444  | J         | ng/l  | 1.71 | 0.192 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                                                      | ND     |           | ng/l  | 1.71 | 0.321 | 1               |
| Perfluorooctanoic Acid (PFOA)                                                             | 2.20   |           | ng/l  | 1.71 | 0.201 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                         | ND     |           | ng/l  | 1.71 | 1.14  | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                     | ND     |           | ng/l  | 1.71 | 0.587 | 1               |
| Perfluorononanoic Acid (PFNA)                                                             | 0.522  | J         | ng/l  | 1.71 | 0.266 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                                                       | 15.1   |           | ng/l  | 1.71 | 0.430 | 1               |
| Perfluorodecanoic Acid (PFDA)                                                             | ND     |           | ng/l  | 1.71 | 0.259 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                         | ND     |           | ng/l  | 1.71 | 1.03  | 1               |
| Perfluorononanesulfonic Acid (PFNS)                                                       | ND     |           | ng/l  | 1.71 | 0.956 | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                 | ND     |           | ng/l  | 1.71 | 0.553 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                                                          | ND     |           | ng/l  | 1.71 | 0.222 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                                                       | ND     |           | ng/l  | 1.71 | 0.836 | 1               |
| Perfluorooctanesulfonamide (FOSA)                                                         | 0.519  | J         | ng/l  | 1.71 | 0.495 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                  | ND     |           | ng/l  | 1.71 | 0.686 | 1               |
| Perfluorododecanoic Acid (PFDoA)                                                          | ND     |           | ng/l  | 1.71 | 0.317 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                                                        | ND     |           | ng/l  | 1.71 | 0.279 | 1               |
| Perfluorotetradecanoic Acid (PFTa)                                                        | ND     |           | ng/l  | 1.71 | 0.212 | 1               |
| PFOA/PFOS, Total                                                                          | 17.3   |           | ng/l  | 1.71 | 0.201 | 1               |
| PFAS, Total (5)                                                                           | 18.3   | J         | ng/l  | 1.71 | 0.192 | 1               |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

**SAMPLE RESULTS**

**Lab ID:** L2002747-01  
**Client ID:** 20200117-PFAAS  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 01/17/20 12:00  
**Date Received:** 01/20/20  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 98         |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 113        |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 111        |           | 31-159              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 171        |           | 1-313               |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 84         |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 90         |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 112        |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 97         |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 220        |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 107        |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 112        |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 102        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 266        | Q         | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 103        |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 109        |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 20         |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 113        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 92         |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 74         |           | 33-143              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

### Method Blank Analysis Batch Quality Control

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 02/06/20 23:02  
**Analyst:** JW  
**TCLP/SPLP Extraction Date:**

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/28/20 17:00

| Parameter                                                                                                           | Result | Qualifier | Units | RL   | MDL   |
|---------------------------------------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01 Batch: WG1334679-1 |        |           |       |      |       |
| Perfluorobutanoic Acid (PFBA)                                                                                       | ND     |           | ng/l  | 2.00 | 0.408 |
| Perfluoropentanoic Acid (PFPeA)                                                                                     | 0.508  | J         | ng/l  | 2.00 | 0.396 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                 | ND     |           | ng/l  | 2.00 | 0.238 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                                                   | ND     |           | ng/l  | 2.00 | 0.452 |
| Perfluorohexanoic Acid (PFHxA)                                                                                      | ND     |           | ng/l  | 2.00 | 0.328 |
| Perfluoropentanesulfonic Acid (PFPeS)                                                                               | ND     |           | ng/l  | 2.00 | 0.245 |
| Perfluoroheptanoic Acid (PFHpA)                                                                                     | ND     |           | ng/l  | 2.00 | 0.225 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                | ND     |           | ng/l  | 2.00 | 0.376 |
| Perfluorooctanoic Acid (PFOA)                                                                                       | ND     |           | ng/l  | 2.00 | 0.236 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                   | ND     |           | ng/l  | 2.00 | 1.33  |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                               | ND     |           | ng/l  | 2.00 | 0.688 |
| Perfluorononanoic Acid (PFNA)                                                                                       | ND     |           | ng/l  | 2.00 | 0.312 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                 | ND     |           | ng/l  | 2.00 | 0.504 |
| Perfluorodecanoic Acid (PFDA)                                                                                       | ND     |           | ng/l  | 2.00 | 0.304 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                   | ND     |           | ng/l  | 2.00 | 1.21  |
| Perfluorononanesulfonic Acid (PFNS)                                                                                 | ND     |           | ng/l  | 2.00 | 1.12  |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                           | ND     |           | ng/l  | 2.00 | 0.648 |
| Perfluoroundecanoic Acid (PFUnA)                                                                                    | ND     |           | ng/l  | 2.00 | 0.260 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                 | ND     |           | ng/l  | 2.00 | 0.980 |
| Perfluorooctanesulfonamide (FOSA)                                                                                   | ND     |           | ng/l  | 2.00 | 0.580 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                            | ND     |           | ng/l  | 2.00 | 0.804 |
| Perfluorododecanoic Acid (PFDoA)                                                                                    | ND     |           | ng/l  | 2.00 | 0.372 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                  | ND     |           | ng/l  | 2.00 | 0.327 |
| Perfluorotetradecanoic Acid (PFTA)                                                                                  | ND     |           | ng/l  | 2.00 | 0.248 |
| PFOA/PFOS, Total                                                                                                    | ND     |           | ng/l  | 2.00 | 0.236 |
| PFAS, Total (5)                                                                                                     | ND     |           | ng/l  | 2.00 | 0.225 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 02/06/20 23:02  
 Analyst: JW  
 TCLP/SPLP Extraction Date:

Extraction Method: ALPHA 23528  
 Extraction Date: 01/28/20 17:00

| Parameter                                                                                                           | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01 Batch: WG1334679-1 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 95        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 111       |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 90        |           | 31-159              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 91        |           | 1-313               |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 89        |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 93        |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 94        |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 95        |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 93        |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 100       |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 98        |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 96        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 105       |           | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 88        |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 106       |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 38        |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 79        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 100       |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 87        |           | 33-143              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 02/06/20 23:18  
**Analyst:** JW  
**TCLP/SPLP Extraction Date:** 01/21/20 16:03

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 01/28/20 17:00

| Parameter                                                                                                           | Result | Qualifier | Units | RL   | MDL   |
|---------------------------------------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01 Batch: WG1334679-5 |        |           |       |      |       |
| Perfluorobutanoic Acid (PFBA)                                                                                       | ND     |           | ng/l  | 1.77 | 0.362 |
| Perfluoropentanoic Acid (PFPeA)                                                                                     | 0.404  | J         | ng/l  | 1.77 | 0.351 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                 | ND     |           | ng/l  | 1.77 | 0.211 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                                                   | ND     |           | ng/l  | 1.77 | 0.401 |
| Perfluorohexanoic Acid (PFHxA)                                                                                      | 0.340  | J         | ng/l  | 1.77 | 0.291 |
| Perfluoropentanesulfonic Acid (PFPeS)                                                                               | ND     |           | ng/l  | 1.77 | 0.217 |
| Perfluoroheptanoic Acid (PFHpA)                                                                                     | ND     |           | ng/l  | 1.77 | 0.200 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                | ND     |           | ng/l  | 1.77 | 0.333 |
| Perfluorooctanoic Acid (PFOA)                                                                                       | ND     |           | ng/l  | 1.77 | 0.209 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                   | ND     |           | ng/l  | 1.77 | 1.18  |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                               | ND     |           | ng/l  | 1.77 | 0.610 |
| Perfluorononanoic Acid (PFNA)                                                                                       | ND     |           | ng/l  | 1.77 | 0.276 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                 | ND     |           | ng/l  | 1.77 | 0.447 |
| Perfluorodecanoic Acid (PFDA)                                                                                       | ND     |           | ng/l  | 1.77 | 0.270 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                   | ND     |           | ng/l  | 1.77 | 1.07  |
| Perfluorononanesulfonic Acid (PFNS)                                                                                 | ND     |           | ng/l  | 1.77 | 0.993 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                           | ND     |           | ng/l  | 1.77 | 0.574 |
| Perfluoroundecanoic Acid (PFUnA)                                                                                    | ND     |           | ng/l  | 1.77 | 0.230 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                 | ND     |           | ng/l  | 1.77 | 0.869 |
| Perfluorooctanesulfonamide (FOSA)                                                                                   | ND     |           | ng/l  | 1.77 | 0.514 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                            | ND     |           | ng/l  | 1.77 | 0.713 |
| Perfluorododecanoic Acid (PFDoA)                                                                                    | ND     |           | ng/l  | 1.77 | 0.330 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                  | ND     |           | ng/l  | 1.77 | 0.290 |
| Perfluorotetradecanoic Acid (PFTA)                                                                                  | ND     |           | ng/l  | 1.77 | 0.220 |
| PFOA/PFOS, Total                                                                                                    | ND     |           | ng/l  | 1.77 | 0.209 |
| PFAS, Total (5)                                                                                                     | ND     |           | ng/l  | 1.77 | 0.200 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 02/06/20 23:18  
 Analyst: JW  
 TCLP/SPLP Extraction Date: 01/21/20 16:03

Extraction Method: ALPHA 23528  
 Extraction Date: 01/28/20 17:00

| Parameter                                                                                                           | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab for sample(s): 01 Batch: WG1334679-5 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 71        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 87        |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 95        |           | 31-159              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 141       |           | 1-313               |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 69        |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 74        |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 106       |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 80        |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 101       |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 83        |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 105       |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 85        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 110       |           | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 66        |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 94        |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 24        |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 62        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 85        |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 85        |           | 33-143              |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L2002747

**Project Number:** 2182207

**Report Date:** 02/10/20

| Parameter                                                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01 Batch: WG1334679-2 WG1334679-3 |                  |      |                   |      |                     |     |      |               |
| Perfluorobutanoic Acid (PFBA)                                                                                                          | 102              |      | 110               |      | 67-148              | 8   |      | 30            |
| Perfluoropentanoic Acid (PFPeA)                                                                                                        | 107              |      | 117               |      | 63-161              | 9   |      | 30            |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                    | 100              |      | 110               |      | 65-157              | 10  |      | 30            |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                                                                      | 108              |      | 120               |      | 37-219              | 11  |      | 30            |
| Perfluorohexanoic Acid (PFHxA)                                                                                                         | 103              |      | 111               |      | 69-168              | 7   |      | 30            |
| Perfluoropentanesulfonic Acid (PFPeS)                                                                                                  | 98               |      | 106               |      | 52-156              | 8   |      | 30            |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                        | 104              |      | 107               |      | 58-159              | 3   |      | 30            |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                   | 105              |      | 108               |      | 69-177              | 3   |      | 30            |
| Perfluorooctanoic Acid (PFOA)                                                                                                          | 107              |      | 117               |      | 63-159              | 9   |      | 30            |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                      | 117              |      | 134               |      | 49-187              | 14  |      | 30            |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                  | 113              |      | 119               |      | 61-179              | 5   |      | 30            |
| Perfluorononanoic Acid (PFNA)                                                                                                          | 102              |      | 117               |      | 68-171              | 14  |      | 30            |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                    | 99               |      | 114               |      | 52-151              | 14  |      | 30            |
| Perfluorodecanoic Acid (PFDA)                                                                                                          | 102              |      | 111               |      | 63-171              | 8   |      | 30            |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                      | 118              |      | 145               |      | 56-173              | 21  |      | 30            |
| Perfluorononanesulfonic Acid (PFNS)                                                                                                    | 104              |      | 115               |      | 48-150              | 10  |      | 30            |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                              | 117              |      | 132               |      | 60-166              | 12  |      | 30            |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                       | 106              |      | 109               |      | 60-153              | 3   |      | 30            |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                    | 117              |      | 118               |      | 38-156              | 1   |      | 30            |
| Perfluorooctanesulfonamide (FOSA)                                                                                                      | 110              |      | 106               |      | 46-170              | 4   |      | 30            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                               | 108              |      | 114               |      | 45-170              | 5   |      | 30            |
| Perfluorododecanoic Acid (PFDoA)                                                                                                       | 106              |      | 124               |      | 67-153              | 16  |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L2002747

**Project Number:** 2182207

**Report Date:** 02/10/20

| Parameter                                                                                                                              | LCS<br>%Recovery | Qual | LCS<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|------|---------------------|-----|------|---------------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01 Batch: WG1334679-2 WG1334679-3 |                  |      |                  |      |                     |     |      |               |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                     | 117              |      | 129              |      | 48-158              | 10  |      | 30            |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                     | 109              |      | 116              |      | 59-182              | 6   |      | 30            |

| Surrogate (Extracted Internal Standard)                                | LCS<br>%Recovery | Qual | LCS<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------------------------------------------------------|------------------|------|------------------|------|------------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 96               |      | 89               |      | 2-156                  |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 110              |      | 102              |      | 16-173                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 94               |      | 89               |      | 31-159                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 111              |      | 97               |      | 1-313                  |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 91               |      | 86               |      | 21-145                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 95               |      | 90               |      | 30-139                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 98               |      | 94               |      | 47-153                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 96               |      | 88               |      | 36-149                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 117              |      | 109              |      | 1-244                  |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 104              |      | 92               |      | 34-146                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 96               |      | 89               |      | 42-146                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 97               |      | 89               |      | 38-144                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 130              |      | 107              |      | 7-170                  |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 85               |      | 79               |      | 1-181                  |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 102              |      | 95               |      | 40-144                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 45               |      | 42               |      | 1-87                   |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 82               |      | 73               |      | 23-146                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 93               |      | 84               |      | 24-161                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 83               |      | 78               |      | 33-143                 |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L2002747

**Report Date:** 02/10/20

| Parameter                                                                                                                                                                         | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1334679-4 QC Sample: L2002747-01 Client ID: 20200117-PFAAS |               |                  |       |     |      |            |
| Perfluorobutanoic Acid (PFBA)                                                                                                                                                     | 1.17J         | 1.50J            | ng/l  | NC  |      | 30         |
| Perfluoropentanoic Acid (PFPeA)                                                                                                                                                   | 0.754J        | 0.753J           | ng/l  | NC  |      | 30         |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                                                               | ND            | ND               | ng/l  | NC  |      | 30         |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)                                                                                                                                 | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorohexanoic Acid (PFHxA)                                                                                                                                                    | 0.628J        | 0.833J           | ng/l  | NC  |      | 30         |
| Perfluoropentanesulfonic Acid (PFPeS)                                                                                                                                             | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                                                                   | 0.444J        | 0.425J           | ng/l  | NC  |      | 30         |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                                                              | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorooctanoic Acid (PFOA)                                                                                                                                                     | 2.20          | 2.37             | ng/l  | 7   |      | 30         |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                                                                 | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                                                             | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorononanoic Acid (PFNA)                                                                                                                                                     | 0.522J        | 0.519J           | ng/l  | NC  |      | 30         |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                                                               | 15.1          | 14.3             | ng/l  | 5   |      | 30         |
| Perfluorodecanoic Acid (PFDA)                                                                                                                                                     | ND            | ND               | ng/l  | NC  |      | 30         |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                                                                 | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorononanesulfonic Acid (PFNS)                                                                                                                                               | ND            | ND               | ng/l  | NC  |      | 30         |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                                                                         | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                                                                  | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                                                               | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorooctanesulfonamide (FOSA)                                                                                                                                                 | 0.519J        | 0.770J           | ng/l  | NC  |      | 30         |



# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

| Parameter                                                                                                                                                                         | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1334679-4 QC Sample: L2002747-01 Client ID: 20200117-PFAAS |               |                  |       |     |      |            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                                                                          | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorododecanoic Acid (PFDoA)                                                                                                                                                  | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                                                                | ND            | ND               | ng/l  | NC  |      | 30         |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                                                                | ND            | ND               | ng/l  | NC  |      | 30         |
| PFOA/PFOS, Total                                                                                                                                                                  | 17.3          | 16.7             | ng/l  | 4   |      | 30         |
| PFAS, Total (5)                                                                                                                                                                   | 18.3J         | 17.6J            | ng/l  | NC  |      | 30         |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 98        |           | 91        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 113       |           | 105       |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 111       |           | 99        |           | 31-159              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)         | 171       |           | 155       |           | 1-313               |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 84        |           | 83        |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 90        |           | 89        |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 112       |           | 109       |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 97        |           | 94        |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 220       |           | 184       |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 107       |           | 101       |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 112       |           | 106       |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 102       |           | 94        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 266       | Q         | 173       | Q         | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 103       |           | 84        |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 109       |           | 107       |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 20        |           | 29        |           | 1-87                |

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L2002747

**Report Date:** 02/10/20

| Parameter                                                                                                                                                                         | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1334679-4 QC Sample: L2002747-01 Client ID: 20200117-PFAAS |               |                  |       |     |      |            |

| Surrogate (Extracted Internal Standard)                               | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------------------------------------------------------|-----------|-----------|-----------|-----------|---------------------|
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) | 113       |           | 84        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                           | 92        |           | 85        |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                      | 74        |           | 70        |           | 33-143              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L2002747**Project Number:** 2182207**Report Date:** 02/10/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information****Cooler**                      **Custody Seal**

A                                  Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>              | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b>      |
|---------------------|------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|-------------------------|
| L2002747-01A        | Plastic 8oz unpreserved            | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | -                       |
| L2002747-01B        | Plastic 2oz unpreserved for TS     | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | -                       |
| L2002747-01X        | Plastic 250ml unpreserved Extracts | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | A2-SPLP-537-ISOTOPE(28) |
| L2002747-01X9       | Tumble Vessel                      | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | -                       |
| L2002747-01Y        | Plastic 250ml unpreserved Extracts | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | A2-SPLP-537-ISOTOPE(28) |
| L2002747-01Z        | Plastic 250ml unpreserved Extracts | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | A2-SPLP-537-ISOTOPE(28) |
| L2002747-01Z1       | Plastic 250ml unpreserved Extracts | A             | NA                    |                     | 2.2                   | Y           | Absent      |                             | A2-SPLP-537-ISOTOPE(28) |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:02102013:52  
**Lab Number:** L2002747  
**Report Date:** 02/10/20

### PFAS PARAMETER SUMMARY

| Parameter                                                               | Acronym      | CAS Number  |
|-------------------------------------------------------------------------|--------------|-------------|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)                                 |              |             |
| Perfluorooctadecanoic Acid                                              | PFODA        | 16517-11-6  |
| Perfluorohexadecanoic Acid                                              | PFHxDA       | 67905-19-5  |
| Perfluorotetradecanoic Acid                                             | PFTA         | 376-06-7    |
| Perfluorotridecanoic Acid                                               | PFTrDA       | 72629-94-8  |
| Perfluorododecanoic Acid                                                | PFDoA        | 307-55-1    |
| Perfluoroundecanoic Acid                                                | PFUnA        | 2058-94-8   |
| Perfluorodecanoic Acid                                                  | PFDA         | 335-76-2    |
| Perfluorononanoic Acid                                                  | PFNA         | 375-95-1    |
| Perfluorooctanoic Acid                                                  | PFOA         | 335-67-1    |
| Perfluoroheptanoic Acid                                                 | PFHpA        | 375-85-9    |
| Perfluorohexanoic Acid                                                  | PFHxA        | 307-24-4    |
| Perfluoropentanoic Acid                                                 | PFPeA        | 2706-90-3   |
| Perfluorobutanoic Acid                                                  | PFBA         | 375-22-4    |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs)                                   |              |             |
| Perfluorododecanesulfonic Acid                                          | PFDoDS       | 79780-39-5  |
| Perfluorodecanesulfonic Acid                                            | PFDS         | 335-77-3    |
| Perfluorononanesulfonic Acid                                            | PFNS         | 68259-12-1  |
| Perfluorooctanesulfonic Acid                                            | PFOS         | 1763-23-1   |
| Perfluoroheptanesulfonic Acid                                           | PFHpS        | 375-92-8    |
| Perfluorohexanesulfonic Acid                                            | PFHxS        | 355-46-4    |
| Perfluoropentanesulfonic Acid                                           | PFPeS        | 2706-91-4   |
| Perfluorobutanesulfonic Acid                                            | PFBS         | 375-73-5    |
| FLUOROTELOMERS                                                          |              |             |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid                              | 10:2FTS      | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid                                | 8:2FTS       | 39108-34-4  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid                                | 6:2FTS       | 27619-97-2  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid                                | 4:2FTS       | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs)                                    |              |             |
| Perfluorooctanesulfonamide                                              | FOSA         | 754-91-6    |
| N-Ethyl Perfluorooctane Sulfonamide                                     | NEtFOSA      | 4151-50-2   |
| N-Methyl Perfluorooctane Sulfonamide                                    | NMeFOSA      | 31506-32-8  |
| PERFLUOROALKANE SULFONYL SUBSTANCES                                     |              |             |
| N-Ethyl Perfluorooctanesulfonamido Ethanol                              | NEtFOSE      | 1691-99-2   |
| N-Methyl Perfluorooctanesulfonamido Ethanol                             | NMeFOSE      | 24448-09-7  |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid                           | NEtFOSAA     | 2991-50-6   |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid                          | NMeFOSAA     | 2355-31-9   |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS                         |              |             |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA      | 13252-13-6  |
| 4,8-Dioxa-3h-Perfluorononanoic Acid                                     | ADONA        | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS                                    |              |             |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid                     | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid                        | 9Cl-PF3ONS   | 756426-58-1 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

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

## Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

## Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L2002747  
**Report Date:** 02/10/20

## REFERENCES

- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 15

Department: **Quality Assurance**

Published Date: 8/15/2019 9:53:42 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B, SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

[illegible]



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L2002906                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | Not Specified                                                                    |
| Project Number: | Not Specified                                                                    |
| Report Date:    | 02/11/20                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

| Alpha<br>Sample ID | Client ID         | Matrix | Sample<br>Location | Collection<br>Date/Time | Receive Date |
|--------------------|-------------------|--------|--------------------|-------------------------|--------------|
| L2002906-01        | BW-01-01202020    | WATER  | Not Specified      | 01/20/20 11:40          | 01/21/20     |
| L2002906-02        | BW-02-01212020    | WATER  | Not Specified      | 01/21/20 12:40          | 01/21/20     |
| L2002906-03        | BW-03-01212020    | WATER  | Not Specified      | 01/21/20 09:30          | 01/21/20     |
| L2002906-04        | DUP-01            | WATER  | Not Specified      | 01/21/20 00:00          | 01/21/20     |
| L2002906-05        | SB-MW-10-01212020 | WATER  | Not Specified      | 01/21/20 14:50          | 01/21/20     |
| L2002906-06        | RIMW-A-1-01202020 | WATER  | Not Specified      | 01/20/20 08:40          | 01/21/20     |
| L2002906-07        | RIMW-A-2-01202020 | WATER  | Not Specified      | 01/20/20 08:45          | 01/21/20     |
| L2002906-08        | RIMW-A-3-01202020 | WATER  | Not Specified      | 01/20/20 08:50          | 01/21/20     |
| L2002906-09        | RIMW-A-4-01202020 | WATER  | Not Specified      | 01/20/20 08:55          | 01/21/20     |
| L2002906-10        | FIELD BLANK       | WATER  | Not Specified      | 01/20/20 00:00          | 01/21/20     |
| L2002906-11        | TRIP BLANK        | WATER  | Not Specified      | 01/20/20 00:00          | 01/21/20     |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** Not Specified  
**Project Number:** Not Specified

**Lab Number:** L2002906  
**Report Date:** 02/11/20

### Case Narrative (continued)

#### Report Submission

February 11, 2020: This final report includes the results of all requested analyses.

January 29, 2020: This is a preliminary report.

January 28, 2020: This is a preliminary report.

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

#### Sample Receipt

L2002906-10: A sample identified as "FIELD BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

L2002906-11: A sample identified as "TRIP BLANK" was received, but not listed on the Chain of Custody. At the client's request, this sample was not analyzed.

#### Volatile Organics

L2002906-09D2: The analysis was performed utilizing a compromised vial.

#### Perfluorinated Alkyl Acids by Isotope Dilution

L2002906-01, -03, -04, and WG1332696-4/-5: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

#### Total Metals

The WG1332689-3/-4 MS/MSD recoveries for calcium (200%/190%), potassium (MS 129%), and sodium (0%/0%), performed on L2002906-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 02/11/20

# ORGANICS

# VOLATILES



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01 D

Date Collected: 01/20/20 11:40

Client ID: BW-01-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 15:20

Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 100 | 28. | 40              |
| Chloroform                                   | ND     |           | ug/l  | 100 | 28. | 40              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 20  | 5.4 | 40              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 40  | 5.5 | 40              |
| Dibromochloromethane                         | ND     |           | ug/l  | 20  | 6.0 | 40              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 60  | 20. | 40              |
| Tetrachloroethene                            | 19     | J         | ug/l  | 20  | 7.2 | 40              |
| Chlorobenzene                                | ND     |           | ug/l  | 100 | 28. | 40              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 20  | 5.3 | 40              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 100 | 28. | 40              |
| Bromodichloromethane                         | ND     |           | ug/l  | 20  | 7.7 | 40              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 20  | 6.6 | 40              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 20  | 5.8 | 40              |
| Bromoform                                    | ND     |           | ug/l  | 80  | 26. | 40              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 20  | 6.7 | 40              |
| Benzene                                      | ND     |           | ug/l  | 20  | 6.4 | 40              |
| Toluene                                      | ND     |           | ug/l  | 100 | 28. | 40              |
| Ethylbenzene                                 | ND     |           | ug/l  | 100 | 28. | 40              |
| Chloromethane                                | ND     |           | ug/l  | 100 | 28. | 40              |
| Bromomethane                                 | ND     |           | ug/l  | 100 | 28. | 40              |
| Vinyl chloride                               | ND     |           | ug/l  | 40  | 2.8 | 40              |
| Chloroethane                                 | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 20  | 6.8 | 40              |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 100 | 28. | 40              |
| Trichloroethene                              | 4200   |           | ug/l  | 20  | 7.0 | 40              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 100 | 28. | 40              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01 D

Date Collected: 01/20/20 11:40

Client ID: BW-01-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL    | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |       |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 100   | 28.  | 40              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 100   | 28.  | 40              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 100   | 28.  | 40              |
| p/m-Xylene                                   | ND     |           | ug/l  | 100   | 28.  | 40              |
| o-Xylene                                     | ND     |           | ug/l  | 100   | 28.  | 40              |
| cis-1,2-Dichloroethene                       | 140    |           | ug/l  | 100   | 28.  | 40              |
| Styrene                                      | ND     |           | ug/l  | 100   | 28.  | 40              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 200   | 40.  | 40              |
| Acetone                                      | ND     |           | ug/l  | 200   | 58.  | 40              |
| Carbon disulfide                             | ND     |           | ug/l  | 200   | 40.  | 40              |
| 2-Butanone                                   | ND     |           | ug/l  | 200   | 78.  | 40              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 200   | 40.  | 40              |
| 2-Hexanone                                   | ND     |           | ug/l  | 200   | 40.  | 40              |
| Bromochloromethane                           | ND     |           | ug/l  | 100   | 28.  | 40              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 80    | 26.  | 40              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 100   | 28.  | 40              |
| Isopropylbenzene                             | ND     |           | ug/l  | 100   | 28.  | 40              |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 100   | 28.  | 40              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 100   | 28.  | 40              |
| Methyl Acetate                               | ND     |           | ug/l  | 80    | 9.4  | 40              |
| Cyclohexane                                  | ND     |           | ug/l  | 400   | 11.  | 40              |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 10000 | 2400 | 40              |
| Freon-113                                    | ND     |           | ug/l  | 100   | 28.  | 40              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 400   | 16.  | 40              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 40 |
|-------------------------------------|----|------|----|

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106        |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 89         |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 14:56  
 Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | 5.0    |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 0.80   |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | 9.9    |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | 4.0    | J         | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | 1.3    | J         | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

## Tentatively Identified Compounds

|                     |      |   |      |   |
|---------------------|------|---|------|---|
| Total TIC Compounds | 2.41 | J | ug/l | 1 |
| Unknown             | 2.41 | J | ug/l | 1 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105        |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 90         |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03 D

Date Collected: 01/21/20 09:30

Client ID: BW-03-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 15:43

Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 50 | 14. | 20              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 50 | 14. | 20              |
| Chloroform                                   | ND     |           | ug/l  | 50 | 14. | 20              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 10 | 2.7 | 20              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 20 | 2.7 | 20              |
| Dibromochloromethane                         | ND     |           | ug/l  | 10 | 3.0 | 20              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 30 | 10. | 20              |
| Tetrachloroethene                            | ND     |           | ug/l  | 10 | 3.6 | 20              |
| Chlorobenzene                                | ND     |           | ug/l  | 50 | 14. | 20              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 50 | 14. | 20              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 10 | 2.6 | 20              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 50 | 14. | 20              |
| Bromodichloromethane                         | ND     |           | ug/l  | 10 | 3.8 | 20              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 10 | 3.3 | 20              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 10 | 2.9 | 20              |
| Bromoform                                    | ND     |           | ug/l  | 40 | 13. | 20              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 10 | 3.3 | 20              |
| Benzene                                      | ND     |           | ug/l  | 10 | 3.2 | 20              |
| Toluene                                      | ND     |           | ug/l  | 50 | 14. | 20              |
| Ethylbenzene                                 | ND     |           | ug/l  | 50 | 14. | 20              |
| Chloromethane                                | ND     |           | ug/l  | 50 | 14. | 20              |
| Bromomethane                                 | ND     |           | ug/l  | 50 | 14. | 20              |
| Vinyl chloride                               | 31     |           | ug/l  | 20 | 1.4 | 20              |
| Chloroethane                                 | ND     |           | ug/l  | 50 | 14. | 20              |
| 1,1-Dichloroethene                           | 17     |           | ug/l  | 10 | 3.4 | 20              |
| trans-1,2-Dichloroethene                     | 18     | J         | ug/l  | 50 | 14. | 20              |
| Trichloroethene                              | 180    |           | ug/l  | 10 | 3.5 | 20              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 50 | 14. | 20              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03 D

Date Collected: 01/21/20 09:30

Client ID: BW-03-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 50   | 14.  | 20              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 50   | 14.  | 20              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 50   | 14.  | 20              |
| p/m-Xylene                                   | ND     |           | ug/l  | 50   | 14.  | 20              |
| o-Xylene                                     | ND     |           | ug/l  | 50   | 14.  | 20              |
| cis-1,2-Dichloroethene                       | 1600   |           | ug/l  | 50   | 14.  | 20              |
| Styrene                                      | ND     |           | ug/l  | 50   | 14.  | 20              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 100  | 20.  | 20              |
| Acetone                                      | ND     |           | ug/l  | 100  | 29.  | 20              |
| Carbon disulfide                             | ND     |           | ug/l  | 100  | 20.  | 20              |
| 2-Butanone                                   | ND     |           | ug/l  | 100  | 39.  | 20              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 100  | 20.  | 20              |
| 2-Hexanone                                   | ND     |           | ug/l  | 100  | 20.  | 20              |
| Bromochloromethane                           | ND     |           | ug/l  | 50   | 14.  | 20              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 40   | 13.  | 20              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 50   | 14.  | 20              |
| Isopropylbenzene                             | ND     |           | ug/l  | 50   | 14.  | 20              |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 50   | 14.  | 20              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 50   | 14.  | 20              |
| Methyl Acetate                               | ND     |           | ug/l  | 40   | 4.7  | 20              |
| Cyclohexane                                  | ND     |           | ug/l  | 200  | 5.4  | 20              |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 5000 | 1200 | 20              |
| Freon-113                                    | ND     |           | ug/l  | 50   | 14.  | 20              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 200  | 7.9  | 20              |

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 20

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 89         |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04 D

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 16:06

Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 62 | 18. | 25              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 62 | 18. | 25              |
| Chloroform                                   | ND     |           | ug/l  | 62 | 18. | 25              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 12 | 3.4 | 25              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 25 | 3.4 | 25              |
| Dibromochloromethane                         | ND     |           | ug/l  | 12 | 3.7 | 25              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 38 | 12. | 25              |
| Tetrachloroethene                            | 21     |           | ug/l  | 12 | 4.5 | 25              |
| Chlorobenzene                                | ND     |           | ug/l  | 62 | 18. | 25              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 62 | 18. | 25              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 12 | 3.3 | 25              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 62 | 18. | 25              |
| Bromodichloromethane                         | ND     |           | ug/l  | 12 | 4.8 | 25              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 12 | 4.1 | 25              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 12 | 3.6 | 25              |
| Bromoform                                    | ND     |           | ug/l  | 50 | 16. | 25              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 12 | 4.2 | 25              |
| Benzene                                      | ND     |           | ug/l  | 12 | 4.0 | 25              |
| Toluene                                      | ND     |           | ug/l  | 62 | 18. | 25              |
| Ethylbenzene                                 | ND     |           | ug/l  | 62 | 18. | 25              |
| Chloromethane                                | ND     |           | ug/l  | 62 | 18. | 25              |
| Bromomethane                                 | ND     |           | ug/l  | 62 | 18. | 25              |
| Vinyl chloride                               | ND     |           | ug/l  | 25 | 1.8 | 25              |
| Chloroethane                                 | ND     |           | ug/l  | 62 | 18. | 25              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 12 | 4.2 | 25              |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 62 | 18. | 25              |
| Trichloroethene                              | 4000   |           | ug/l  | 12 | 4.4 | 25              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 62 | 18. | 25              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04 D

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 62   | 18.  | 25              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 62   | 18.  | 25              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 62   | 18.  | 25              |
| p/m-Xylene                                   | ND     |           | ug/l  | 62   | 18.  | 25              |
| o-Xylene                                     | ND     |           | ug/l  | 62   | 18.  | 25              |
| cis-1,2-Dichloroethene                       | 140    |           | ug/l  | 62   | 18.  | 25              |
| Styrene                                      | ND     |           | ug/l  | 62   | 18.  | 25              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 120  | 25.  | 25              |
| Acetone                                      | ND     |           | ug/l  | 120  | 36.  | 25              |
| Carbon disulfide                             | ND     |           | ug/l  | 120  | 25.  | 25              |
| 2-Butanone                                   | ND     |           | ug/l  | 120  | 48.  | 25              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 120  | 25.  | 25              |
| 2-Hexanone                                   | ND     |           | ug/l  | 120  | 25.  | 25              |
| Bromochloromethane                           | ND     |           | ug/l  | 62   | 18.  | 25              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 50   | 16.  | 25              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 62   | 18.  | 25              |
| Isopropylbenzene                             | ND     |           | ug/l  | 62   | 18.  | 25              |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 62   | 18.  | 25              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 62   | 18.  | 25              |
| Methyl Acetate                               | ND     |           | ug/l  | 50   | 5.8  | 25              |
| Cyclohexane                                  | ND     |           | ug/l  | 250  | 6.8  | 25              |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 6200 | 1500 | 25              |
| Freon-113                                    | ND     |           | ug/l  | 62   | 18.  | 25              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 250  | 9.9  | 25              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 25 |
|-------------------------------------|----|------|----|

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 105        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 90         |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-05  
 Client ID: SB-MW-10-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 14:50  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 12:21

Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | 8.2    |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 2.8    |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-05  
 Client ID: SB-MW-10-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 14:50  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | 1.6    | J         | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| n-Butylbenzene                               | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| sec-Butylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| tert-Butylbenzene                            | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Naphthalene                                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| n-Propylbenzene                              | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

## Tentatively Identified Compounds

|                                     |    |      |   |
|-------------------------------------|----|------|---|
| No Tentatively Identified Compounds | ND | ug/l | 1 |
|-------------------------------------|----|------|---|

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-05

Date Collected: 01/21/20 14:50

Client ID: SB-MW-10-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 91         |           | 70-130              |
| Toluene-d8            | 96         |           | 70-130              |
| 4-Bromofluorobenzene  | 83         |           | 70-130              |
| Dibromofluoromethane  | 95         |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-06 D

Date Collected: 01/20/20 08:40

Client ID: RIMW-A-1-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 19:35

Analyst: NLK

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 100 | 28. | 40              |
| Chloroform                                   | ND     |           | ug/l  | 100 | 28. | 40              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 20  | 5.4 | 40              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 40  | 5.5 | 40              |
| Dibromochloromethane                         | ND     |           | ug/l  | 20  | 6.0 | 40              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 60  | 20. | 40              |
| Tetrachloroethene                            | 39     |           | ug/l  | 20  | 7.2 | 40              |
| Chlorobenzene                                | ND     |           | ug/l  | 100 | 28. | 40              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 20  | 5.3 | 40              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 100 | 28. | 40              |
| Bromodichloromethane                         | ND     |           | ug/l  | 20  | 7.7 | 40              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 20  | 6.6 | 40              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 20  | 5.8 | 40              |
| Bromoform                                    | ND     |           | ug/l  | 80  | 26. | 40              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 20  | 6.7 | 40              |
| Benzene                                      | ND     |           | ug/l  | 20  | 6.4 | 40              |
| Toluene                                      | ND     |           | ug/l  | 100 | 28. | 40              |
| Ethylbenzene                                 | ND     |           | ug/l  | 100 | 28. | 40              |
| Chloromethane                                | ND     |           | ug/l  | 100 | 28. | 40              |
| Bromomethane                                 | ND     |           | ug/l  | 100 | 28. | 40              |
| Vinyl chloride                               | 11     | J         | ug/l  | 40  | 2.8 | 40              |
| Chloroethane                                 | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,1-Dichloroethene                           | 6.8    | J         | ug/l  | 20  | 6.8 | 40              |
| trans-1,2-Dichloroethene                     | 110    |           | ug/l  | 100 | 28. | 40              |
| Trichloroethene                              | 6600   |           | ug/l  | 20  | 7.0 | 40              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 100 | 28. | 40              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-06 D

Date Collected: 01/20/20 08:40

Client ID: RIMW-A-1-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 100 | 28. | 40              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 100 | 28. | 40              |
| p/m-Xylene                                   | ND     |           | ug/l  | 100 | 28. | 40              |
| o-Xylene                                     | ND     |           | ug/l  | 100 | 28. | 40              |
| cis-1,2-Dichloroethene                       | 160    |           | ug/l  | 100 | 28. | 40              |
| Styrene                                      | ND     |           | ug/l  | 100 | 28. | 40              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 200 | 40. | 40              |
| Acetone                                      | ND     |           | ug/l  | 200 | 58. | 40              |
| Carbon disulfide                             | ND     |           | ug/l  | 200 | 40. | 40              |
| 2-Butanone                                   | ND     |           | ug/l  | 200 | 78. | 40              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 200 | 40. | 40              |
| 2-Hexanone                                   | ND     |           | ug/l  | 200 | 40. | 40              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 80  | 26. | 40              |
| n-Butylbenzene                               | ND     |           | ug/l  | 100 | 28. | 40              |
| sec-Butylbenzene                             | ND     |           | ug/l  | 100 | 28. | 40              |
| tert-Butylbenzene                            | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 100 | 28. | 40              |
| Isopropylbenzene                             | ND     |           | ug/l  | 100 | 28. | 40              |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 100 | 28. | 40              |
| Naphthalene                                  | ND     |           | ug/l  | 100 | 28. | 40              |
| n-Propylbenzene                              | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 100 | 28. | 40              |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 100 | 28. | 40              |
| Methyl Acetate                               | ND     |           | ug/l  | 80  | 9.4 | 40              |
| Cyclohexane                                  | ND     |           | ug/l  | 400 | 11. | 40              |
| Freon-113                                    | ND     |           | ug/l  | 100 | 28. | 40              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 400 | 16. | 40              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 40 |
|-------------------------------------|----|------|----|

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-06 D

Date Collected: 01/20/20 08:40

Client ID: RIMW-A-1-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 89         |           | 70-130              |
| Toluene-d8            | 123        |           | 70-130              |
| 4-Bromofluorobenzene  | 73         |           | 70-130              |
| Dibromofluoromethane  | 76         |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-07 D

Date Collected: 01/20/20 08:45

Client ID: RIMW-A-2-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 20:00

Analyst: NLK

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 120 | 35. | 50              |
| Chloroform                                   | ND     |           | ug/l  | 120 | 35. | 50              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 25  | 6.7 | 50              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 50  | 6.8 | 50              |
| Dibromochloromethane                         | ND     |           | ug/l  | 25  | 7.4 | 50              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 75  | 25. | 50              |
| Tetrachloroethene                            | 31     |           | ug/l  | 25  | 9.0 | 50              |
| Chlorobenzene                                | ND     |           | ug/l  | 120 | 35. | 50              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 25  | 6.6 | 50              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 120 | 35. | 50              |
| Bromodichloromethane                         | ND     |           | ug/l  | 25  | 9.6 | 50              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 25  | 8.2 | 50              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 25  | 7.2 | 50              |
| Bromoform                                    | ND     |           | ug/l  | 100 | 32. | 50              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 25  | 8.4 | 50              |
| Benzene                                      | ND     |           | ug/l  | 25  | 8.0 | 50              |
| Toluene                                      | ND     |           | ug/l  | 120 | 35. | 50              |
| Ethylbenzene                                 | ND     |           | ug/l  | 120 | 35. | 50              |
| Chloromethane                                | ND     |           | ug/l  | 120 | 35. | 50              |
| Bromomethane                                 | ND     |           | ug/l  | 120 | 35. | 50              |
| Vinyl chloride                               | 12     | J         | ug/l  | 50  | 3.6 | 50              |
| Chloroethane                                 | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 25  | 8.4 | 50              |
| trans-1,2-Dichloroethene                     | 120    |           | ug/l  | 120 | 35. | 50              |
| Trichloroethene                              | 5900   |           | ug/l  | 25  | 8.8 | 50              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 120 | 35. | 50              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-07 D

Date Collected: 01/20/20 08:45

Client ID: RIMW-A-2-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 120 | 35. | 50              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 120 | 35. | 50              |
| p/m-Xylene                                   | ND     |           | ug/l  | 120 | 35. | 50              |
| o-Xylene                                     | ND     |           | ug/l  | 120 | 35. | 50              |
| cis-1,2-Dichloroethene                       | 200    |           | ug/l  | 120 | 35. | 50              |
| Styrene                                      | ND     |           | ug/l  | 120 | 35. | 50              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 250 | 50. | 50              |
| Acetone                                      | ND     |           | ug/l  | 250 | 73. | 50              |
| Carbon disulfide                             | ND     |           | ug/l  | 250 | 50. | 50              |
| 2-Butanone                                   | ND     |           | ug/l  | 250 | 97. | 50              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 250 | 50. | 50              |
| 2-Hexanone                                   | ND     |           | ug/l  | 250 | 50. | 50              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 100 | 32. | 50              |
| n-Butylbenzene                               | ND     |           | ug/l  | 120 | 35. | 50              |
| sec-Butylbenzene                             | ND     |           | ug/l  | 120 | 35. | 50              |
| tert-Butylbenzene                            | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 120 | 35. | 50              |
| Isopropylbenzene                             | ND     |           | ug/l  | 120 | 35. | 50              |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 120 | 35. | 50              |
| Naphthalene                                  | ND     |           | ug/l  | 120 | 35. | 50              |
| n-Propylbenzene                              | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 120 | 35. | 50              |
| Methyl Acetate                               | ND     |           | ug/l  | 100 | 12. | 50              |
| Cyclohexane                                  | ND     |           | ug/l  | 500 | 14. | 50              |
| Freon-113                                    | ND     |           | ug/l  | 120 | 35. | 50              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 500 | 20. | 50              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 50 |
|-------------------------------------|----|------|----|



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-07 D

Date Collected: 01/20/20 08:45

Client ID: RIMW-A-2-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 114        |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 124        |           | 70-130              |
| Dibromofluoromethane  | 93         |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-08 D

Date Collected: 01/20/20 08:50

Client ID: RIMW-A-3-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 20:25

Analyst: NLK

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                           | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 120 | 35. | 50              |
| Chloroform                                   | ND     |           | ug/l  | 120 | 35. | 50              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 25  | 6.7 | 50              |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 50  | 6.8 | 50              |
| Dibromochloromethane                         | ND     |           | ug/l  | 25  | 7.4 | 50              |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 75  | 25. | 50              |
| Tetrachloroethene                            | 52     |           | ug/l  | 25  | 9.0 | 50              |
| Chlorobenzene                                | ND     |           | ug/l  | 120 | 35. | 50              |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 25  | 6.6 | 50              |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 120 | 35. | 50              |
| Bromodichloromethane                         | ND     |           | ug/l  | 25  | 9.6 | 50              |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 25  | 8.2 | 50              |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 25  | 7.2 | 50              |
| Bromoform                                    | ND     |           | ug/l  | 100 | 32. | 50              |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 25  | 8.4 | 50              |
| Benzene                                      | ND     |           | ug/l  | 25  | 8.0 | 50              |
| Toluene                                      | ND     |           | ug/l  | 120 | 35. | 50              |
| Ethylbenzene                                 | ND     |           | ug/l  | 120 | 35. | 50              |
| Chloromethane                                | ND     |           | ug/l  | 120 | 35. | 50              |
| Bromomethane                                 | ND     |           | ug/l  | 120 | 35. | 50              |
| Vinyl chloride                               | 18     | J         | ug/l  | 50  | 3.6 | 50              |
| Chloroethane                                 | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,1-Dichloroethene                           | 9.5    | J         | ug/l  | 25  | 8.4 | 50              |
| trans-1,2-Dichloroethene                     | 160    |           | ug/l  | 120 | 35. | 50              |
| Trichloroethene                              | 8700   |           | ug/l  | 25  | 8.8 | 50              |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 120 | 35. | 50              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-08 D

Date Collected: 01/20/20 08:50

Client ID: RIMW-A-3-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 120 | 35. | 50              |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 120 | 35. | 50              |
| p/m-Xylene                                   | ND     |           | ug/l  | 120 | 35. | 50              |
| o-Xylene                                     | ND     |           | ug/l  | 120 | 35. | 50              |
| cis-1,2-Dichloroethene                       | 210    |           | ug/l  | 120 | 35. | 50              |
| Styrene                                      | ND     |           | ug/l  | 120 | 35. | 50              |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 250 | 50. | 50              |
| Acetone                                      | ND     |           | ug/l  | 250 | 73. | 50              |
| Carbon disulfide                             | ND     |           | ug/l  | 250 | 50. | 50              |
| 2-Butanone                                   | ND     |           | ug/l  | 250 | 97. | 50              |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 250 | 50. | 50              |
| 2-Hexanone                                   | ND     |           | ug/l  | 250 | 50. | 50              |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 100 | 32. | 50              |
| n-Butylbenzene                               | ND     |           | ug/l  | 120 | 35. | 50              |
| sec-Butylbenzene                             | ND     |           | ug/l  | 120 | 35. | 50              |
| tert-Butylbenzene                            | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 120 | 35. | 50              |
| Isopropylbenzene                             | ND     |           | ug/l  | 120 | 35. | 50              |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 120 | 35. | 50              |
| Naphthalene                                  | ND     |           | ug/l  | 120 | 35. | 50              |
| n-Propylbenzene                              | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 120 | 35. | 50              |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 120 | 35. | 50              |
| Methyl Acetate                               | ND     |           | ug/l  | 100 | 12. | 50              |
| Cyclohexane                                  | ND     |           | ug/l  | 500 | 14. | 50              |
| Freon-113                                    | ND     |           | ug/l  | 120 | 35. | 50              |
| Methyl cyclohexane                           | ND     |           | ug/l  | 500 | 20. | 50              |

## Tentatively Identified Compounds

|                                     |    |      |    |
|-------------------------------------|----|------|----|
| No Tentatively Identified Compounds | ND | ug/l | 50 |
|-------------------------------------|----|------|----|

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**SAMPLE RESULTS**

Lab ID: L2002906-08 D

Date Collected: 01/20/20 08:50

Client ID: RIMW-A-3-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 109        |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 96         |           | 70-130              |
| Dibromofluoromethane  | 94         |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-09  
 Client ID: RIMW-A-4-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 08:55  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 12:46  
 Analyst: AD

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | 60     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | 0.16   | J         | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | 2.4    | J         | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | 18     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | 6.6    |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | 120    |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 3700   | E         | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-09  
 Client ID: RIMW-A-4-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 08:55  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | 1.0    | J         | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | 200    | E         | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| n-Butylbenzene                               | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| sec-Butylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| tert-Butylbenzene                            | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p-Isopropyltoluene                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Naphthalene                                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| n-Propylbenzene                              | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,3,5-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trimethylbenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | 0.45   | J         | ug/l  | 10  | 0.27 | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

## Tentatively Identified Compounds

|                     |      |    |      |   |
|---------------------|------|----|------|---|
| Total TIC Compounds | 2.36 | J  | ug/l | 1 |
| Butane, 2-Methyl-   | 2.36 | NJ | ug/l | 1 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-09

Date Collected: 01/20/20 08:55

Client ID: RIMW-A-4-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 90         |           | 70-130              |
| Toluene-d8            | 96         |           | 70-130              |
| 4-Bromofluorobenzene  | 86         |           | 70-130              |
| Dibromofluoromethane  | 97         |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-09 D2

Date Collected: 01/20/20 08:55

Client ID: RIMW-A-4-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/25/20 02:30

Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

## Volatile Organics by GC/MS - Westborough Lab

|                        |     |  |      |     |     |    |
|------------------------|-----|--|------|-----|-----|----|
| cis-1,2-Dichloroethene | 150 |  | ug/l | 100 | 28. | 40 |
|------------------------|-----|--|------|-----|-----|----|

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 94         |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 93         |           | 70-130              |
| Dibromofluoromethane  | 93         |           | 70-130              |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-09 D

Date Collected: 01/20/20 08:55

Client ID: RIMW-A-4-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 01/23/20 20:49

Analyst: NLK

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

## Volatile Organics by GC/MS - Westborough Lab

|                 |      |  |      |     |     |     |
|-----------------|------|--|------|-----|-----|-----|
| Trichloroethene | 8100 |  | ug/l | 200 | 70. | 400 |
|-----------------|------|--|------|-----|-----|-----|

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 119        |           | 70-130              |
| Toluene-d8            | 102        |           | 70-130              |
| 4-Bromofluorobenzene  | 79         |           | 70-130              |
| Dibromofluoromethane  | 82         |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 08:23  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1333212-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                            | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                      | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 08:23  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1333212-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                              | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| Bromochloromethane                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/l  | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                       | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                          | ND     |           | ug/l  | 10  | 0.27 |
| 1,4-Dioxane                                                                          | ND     |           | ug/l  | 250 | 61.  |
| Freon-113                                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                   | ND     |           | ug/l  | 10  | 0.40 |

#### Tentatively Identified Compounds

No Tentatively Identified Compounds

ND

ug/l

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 08:23  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1333212-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 94        |           | 70-130                 |
| Toluene-d8            | 100       |           | 70-130                 |
| 4-Bromofluorobenzene  | 94        |           | 70-130                 |
| Dibromofluoromethane  | 95        |           | 70-130                 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 10:13  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,09 Batch: WG1333238-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                            | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                      | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 10:13  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,09 Batch: WG1333238-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                              | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/l  | 2.0 | 0.65 |
| n-Butylbenzene                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                       | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                          | ND     |           | ug/l  | 10  | 0.27 |
| Freon-113                                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                   | ND     |           | ug/l  | 10  | 0.40 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 10:13  
 Analyst: PD

| Parameter                                                                            | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 05,09 Batch: WG1333238-5 |        |           |       |    |     |

#### Tentatively Identified Compounds

|                                     |    |      |
|-------------------------------------|----|------|
| No Tentatively Identified Compounds | ND | ug/l |
|-------------------------------------|----|------|

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 88        |           | 70-130              |
| Toluene-d8            | 95        |           | 70-130              |
| 4-Bromofluorobenzene  | 84        |           | 70-130              |
| Dibromofluoromethane  | 93        |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 19:10  
 Analyst: MKS

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1333538-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                            | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                      | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 19:10  
 Analyst: MKS

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1333538-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                              | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/l  | 2.0 | 0.65 |
| n-Butylbenzene                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                      | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                       | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                          | ND     |           | ug/l  | 10  | 0.27 |
| Freon-113                                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                   | ND     |           | ug/l  | 10  | 0.40 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/23/20 19:10  
 Analyst: MKS

| Parameter                                                                            | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 06-09 Batch: WG1333538-5 |        |           |       |    |     |

#### Tentatively Identified Compounds

|                                     |    |      |
|-------------------------------------|----|------|
| No Tentatively Identified Compounds | ND | ug/l |
|-------------------------------------|----|------|

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 112       |           | 70-130              |
| Toluene-d8            | 100       |           | 70-130              |
| 4-Bromofluorobenzene  | 116       |           | 70-130              |
| Dibromofluoromethane  | 94        |           | 70-130              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/24/20 18:48  
 Analyst: MKS

| Parameter                                                                         | Result | Qualifier | Units | RL   | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1333825-5 |        |           |       |      |      |
| Methylene chloride                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                              | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                               | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                              | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                             | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                 | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                            | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                              | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                         | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                           | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                         | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,1,2-Tetrachloroethane                                                         | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                           | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                    | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                          | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5  | 0.70 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/24/20 18:48  
 Analyst: MKS

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1333825-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                        | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                           | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                  | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                        | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                        | ND     |           | ug/l  | 5.0 | 1.0  |
| 1,2-Dibromoethane                                                                 | ND     |           | ug/l  | 2.0 | 0.65 |
| n-Butylbenzene                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| sec-Butylbenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| tert-Butylbenzene                                                                 | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromo-3-chloropropane                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| p-Isopropyltoluene                                                                | ND     |           | ug/l  | 2.5 | 0.70 |
| Naphthalene                                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| n-Propylbenzene                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,3,5-Trimethylbenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trimethylbenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                    | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                       | ND     |           | ug/l  | 10  | 0.27 |
| Freon-113                                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                | ND     |           | ug/l  | 10  | 0.40 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 01/24/20 18:48  
 Analyst: MKS

| Parameter                                                                         | Result | Qualifier | Units | RL | MDL |
|-----------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG1333825-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 97        |           | 70-130                 |
| Toluene-d8            | 98        |           | 70-130                 |
| 4-Bromofluorobenzene  | 93        |           | 70-130                 |
| Dibromofluoromethane  | 98        |           | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1333212-3 WG1333212-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 89               |      | 87                |      | 70-130              | 2   |      | 20            |
| 1,1-Dichloroethane                                                                                      | 87               |      | 86                |      | 70-130              | 1   |      | 20            |
| Chloroform                                                                                              | 86               |      | 83                |      | 70-130              | 4   |      | 20            |
| Carbon tetrachloride                                                                                    | 86               |      | 84                |      | 63-132              | 2   |      | 20            |
| 1,2-Dichloropropane                                                                                     | 81               |      | 82                |      | 70-130              | 1   |      | 20            |
| Dibromochloromethane                                                                                    | 80               |      | 77                |      | 63-130              | 4   |      | 20            |
| 1,1,2-Trichloroethane                                                                                   | 88               |      | 85                |      | 70-130              | 3   |      | 20            |
| Tetrachloroethene                                                                                       | 90               |      | 89                |      | 70-130              | 1   |      | 20            |
| Chlorobenzene                                                                                           | 88               |      | 87                |      | 75-130              | 1   |      | 20            |
| Trichlorofluoromethane                                                                                  | 110              |      | 110               |      | 62-150              | 0   |      | 20            |
| 1,2-Dichloroethane                                                                                      | 81               |      | 80                |      | 70-130              | 1   |      | 20            |
| 1,1,1-Trichloroethane                                                                                   | 89               |      | 87                |      | 67-130              | 2   |      | 20            |
| Bromodichloromethane                                                                                    | 75               |      | 72                |      | 67-130              | 4   |      | 20            |
| trans-1,3-Dichloropropene                                                                               | 74               |      | 74                |      | 70-130              | 0   |      | 20            |
| cis-1,3-Dichloropropene                                                                                 | 78               |      | 77                |      | 70-130              | 1   |      | 20            |
| Bromoform                                                                                               | 78               |      | 76                |      | 54-136              | 3   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                               | 88               |      | 87                |      | 67-130              | 1   |      | 20            |
| Benzene                                                                                                 | 88               |      | 88                |      | 70-130              | 0   |      | 20            |
| Toluene                                                                                                 | 86               |      | 85                |      | 70-130              | 1   |      | 20            |
| Ethylbenzene                                                                                            | 88               |      | 86                |      | 70-130              | 2   |      | 20            |
| Chloromethane                                                                                           | 120              |      | 110               |      | 64-130              | 9   |      | 20            |
| Bromomethane                                                                                            | 110              |      | 100               |      | 39-139              | 10  |      | 20            |
| Vinyl chloride                                                                                          | 100              |      | 100               |      | 55-140              | 0   |      | 20            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1333212-3 WG1333212-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                            | 95               |      | 94                |      | 55-138              | 1   |      | 20            |
| 1,1-Dichloroethene                                                                                      | 97               |      | 95                |      | 61-145              | 2   |      | 20            |
| trans-1,2-Dichloroethene                                                                                | 90               |      | 89                |      | 70-130              | 1   |      | 20            |
| Trichloroethene                                                                                         | 85               |      | 81                |      | 70-130              | 5   |      | 20            |
| 1,2-Dichlorobenzene                                                                                     | 88               |      | 87                |      | 70-130              | 1   |      | 20            |
| 1,3-Dichlorobenzene                                                                                     | 87               |      | 87                |      | 70-130              | 0   |      | 20            |
| 1,4-Dichlorobenzene                                                                                     | 86               |      | 86                |      | 70-130              | 0   |      | 20            |
| Methyl tert butyl ether                                                                                 | 84               |      | 84                |      | 63-130              | 0   |      | 20            |
| p/m-Xylene                                                                                              | 90               |      | 90                |      | 70-130              | 0   |      | 20            |
| o-Xylene                                                                                                | 90               |      | 90                |      | 70-130              | 0   |      | 20            |
| cis-1,2-Dichloroethene                                                                                  | 86               |      | 88                |      | 70-130              | 2   |      | 20            |
| Styrene                                                                                                 | 90               |      | 90                |      | 70-130              | 0   |      | 20            |
| Dichlorodifluoromethane                                                                                 | 130              |      | 130               |      | 36-147              | 0   |      | 20            |
| Acetone                                                                                                 | 80               |      | 77                |      | 58-148              | 4   |      | 20            |
| Carbon disulfide                                                                                        | 90               |      | 89                |      | 51-130              | 1   |      | 20            |
| 2-Butanone                                                                                              | 93               |      | 90                |      | 63-138              | 3   |      | 20            |
| 4-Methyl-2-pentanone                                                                                    | 68               |      | 68                |      | 59-130              | 0   |      | 20            |
| 2-Hexanone                                                                                              | 65               |      | 63                |      | 57-130              | 3   |      | 20            |
| Bromochloromethane                                                                                      | 96               |      | 93                |      | 70-130              | 3   |      | 20            |
| 1,2-Dibromoethane                                                                                       | 86               |      | 85                |      | 70-130              | 1   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                             | 78               |      | 76                |      | 41-144              | 3   |      | 20            |
| Isopropylbenzene                                                                                        | 88               |      | 87                |      | 70-130              | 1   |      | 20            |
| 1,2,3-Trichlorobenzene                                                                                  | 90               |      | 89                |      | 70-130              | 1   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1333212-3 WG1333212-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                  | 87               |      | 86                |      | 70-130              | 1   |      | 20            |
| Methyl Acetate                                                                                          | 84               |      | 84                |      | 70-130              | 0   |      | 20            |
| Cyclohexane                                                                                             | 89               |      | 88                |      | 70-130              | 1   |      | 20            |
| 1,4-Dioxane                                                                                             | 98               |      | 92                |      | 56-162              | 6   |      | 20            |
| Freon-113                                                                                               | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Methyl cyclohexane                                                                                      | 90               |      | 91                |      | 70-130              | 1   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 99               |      | 97                |      | 70-130                 |
| Toluene-d8            | 101              |      | 101               |      | 70-130                 |
| 4-Bromofluorobenzene  | 95               |      | 94                |      | 70-130                 |
| Dibromofluoromethane  | 101              |      | 101               |      | 70-130                 |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09 Batch: WG1333238-3 WG1333238-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 92               |      | 91                |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloroethane                                                                                      | 94               |      | 91                |      | 70-130              | 3   |      | 20            |
| Chloroform                                                                                              | 100              |      | 94                |      | 70-130              | 6   |      | 20            |
| Carbon tetrachloride                                                                                    | 94               |      | 92                |      | 63-132              | 2   |      | 20            |
| 1,2-Dichloropropane                                                                                     | 91               |      | 90                |      | 70-130              | 1   |      | 20            |
| Dibromochloromethane                                                                                    | 95               |      | 97                |      | 63-130              | 2   |      | 20            |
| 1,1,2-Trichloroethane                                                                                   | 92               |      | 93                |      | 70-130              | 1   |      | 20            |
| Tetrachloroethene                                                                                       | 100              |      | 99                |      | 70-130              | 1   |      | 20            |
| Chlorobenzene                                                                                           | 96               |      | 96                |      | 75-130              | 0   |      | 20            |
| Trichlorofluoromethane                                                                                  | 100              |      | 97                |      | 62-150              | 3   |      | 20            |
| 1,2-Dichloroethane                                                                                      | 90               |      | 90                |      | 70-130              | 0   |      | 20            |
| 1,1,1-Trichloroethane                                                                                   | 96               |      | 92                |      | 67-130              | 4   |      | 20            |
| Bromodichloromethane                                                                                    | 94               |      | 94                |      | 67-130              | 0   |      | 20            |
| trans-1,3-Dichloropropene                                                                               | 83               |      | 84                |      | 70-130              | 1   |      | 20            |
| cis-1,3-Dichloropropene                                                                                 | 90               |      | 89                |      | 70-130              | 1   |      | 20            |
| Bromoform                                                                                               | 96               |      | 97                |      | 54-136              | 1   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                               | 84               |      | 89                |      | 67-130              | 6   |      | 20            |
| Benzene                                                                                                 | 98               |      | 97                |      | 70-130              | 1   |      | 20            |
| Toluene                                                                                                 | 93               |      | 93                |      | 70-130              | 0   |      | 20            |
| Ethylbenzene                                                                                            | 93               |      | 92                |      | 70-130              | 1   |      | 20            |
| Chloromethane                                                                                           | 90               |      | 87                |      | 64-130              | 3   |      | 20            |
| Bromomethane                                                                                            | 140              | Q    | 140               | Q    | 39-139              | 0   |      | 20            |
| Vinyl chloride                                                                                          | 120              |      | 120               |      | 55-140              | 0   |      | 20            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09 Batch: WG1333238-3 WG1333238-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                            | 110              |      | 100               |      | 55-138              | 10  |      | 20            |
| 1,1-Dichloroethene                                                                                      | 94               |      | 91                |      | 61-145              | 3   |      | 20            |
| trans-1,2-Dichloroethene                                                                                | 95               |      | 93                |      | 70-130              | 2   |      | 20            |
| Trichloroethene                                                                                         | 91               |      | 89                |      | 70-130              | 2   |      | 20            |
| 1,2-Dichlorobenzene                                                                                     | 95               |      | 97                |      | 70-130              | 2   |      | 20            |
| 1,3-Dichlorobenzene                                                                                     | 96               |      | 95                |      | 70-130              | 1   |      | 20            |
| 1,4-Dichlorobenzene                                                                                     | 96               |      | 98                |      | 70-130              | 2   |      | 20            |
| Methyl tert butyl ether                                                                                 | 96               |      | 95                |      | 63-130              | 1   |      | 20            |
| p/m-Xylene                                                                                              | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| o-Xylene                                                                                                | 95               |      | 95                |      | 70-130              | 0   |      | 20            |
| cis-1,2-Dichloroethene                                                                                  | 95               |      | 94                |      | 70-130              | 1   |      | 20            |
| Styrene                                                                                                 | 95               |      | 90                |      | 70-130              | 5   |      | 20            |
| Dichlorodifluoromethane                                                                                 | 130              |      | 130               |      | 36-147              | 0   |      | 20            |
| Acetone                                                                                                 | 76               |      | 87                |      | 58-148              | 13  |      | 20            |
| Carbon disulfide                                                                                        | 93               |      | 90                |      | 51-130              | 3   |      | 20            |
| 2-Butanone                                                                                              | 78               |      | 85                |      | 63-138              | 9   |      | 20            |
| 4-Methyl-2-pentanone                                                                                    | 86               |      | 93                |      | 59-130              | 8   |      | 20            |
| 2-Hexanone                                                                                              | 74               |      | 79                |      | 57-130              | 7   |      | 20            |
| 1,2-Dibromoethane                                                                                       | 90               |      | 92                |      | 70-130              | 2   |      | 20            |
| n-Butylbenzene                                                                                          | 87               |      | 85                |      | 53-136              | 2   |      | 20            |
| sec-Butylbenzene                                                                                        | 87               |      | 87                |      | 70-130              | 0   |      | 20            |
| tert-Butylbenzene                                                                                       | 88               |      | 90                |      | 70-130              | 2   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                             | 81               |      | 94                |      | 41-144              | 15  |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09 Batch: WG1333238-3 WG1333238-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                        | 87               |      | 87                |      | 70-130              | 0   |      | 20            |
| p-Isopropyltoluene                                                                                      | 88               |      | 89                |      | 70-130              | 1   |      | 20            |
| Naphthalene                                                                                             | 85               |      | 90                |      | 70-130              | 6   |      | 20            |
| n-Propylbenzene                                                                                         | 86               |      | 86                |      | 69-130              | 0   |      | 20            |
| 1,2,4-Trichlorobenzene                                                                                  | 88               |      | 90                |      | 70-130              | 2   |      | 20            |
| 1,3,5-Trimethylbenzene                                                                                  | 88               |      | 88                |      | 64-130              | 0   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                                  | 87               |      | 87                |      | 70-130              | 0   |      | 20            |
| Methyl Acetate                                                                                          | 79               |      | 83                |      | 70-130              | 5   |      | 20            |
| Cyclohexane                                                                                             | 84               |      | 81                |      | 70-130              | 4   |      | 20            |
| Freon-113                                                                                               | 96               |      | 94                |      | 70-130              | 2   |      | 20            |
| Methyl cyclohexane                                                                                      | 87               |      | 85                |      | 70-130              | 2   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 89               |      | 90                |      | 70-130                 |
| Toluene-d8            | 91               |      | 92                |      | 70-130                 |
| 4-Bromofluorobenzene  | 82               |      | 82                |      | 70-130                 |
| Dibromofluoromethane  | 98               |      | 95                |      | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1333538-3 WG1333538-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 96               |      | 83                |      | 70-130              | 15  |      | 20            |
| 1,1-Dichloroethane                                                                                      | 120              |      | 100               |      | 70-130              | 18  |      | 20            |
| Chloroform                                                                                              | 96               |      | 87                |      | 70-130              | 10  |      | 20            |
| Carbon tetrachloride                                                                                    | 96               |      | 88                |      | 63-132              | 9   |      | 20            |
| 1,2-Dichloropropane                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Dibromochloromethane                                                                                    | 84               |      | 65                |      | 63-130              | 26  | Q    | 20            |
| 1,1,2-Trichloroethane                                                                                   | 92               |      | 81                |      | 70-130              | 13  |      | 20            |
| Tetrachloroethene                                                                                       | 80               |      | 70                |      | 70-130              | 13  |      | 20            |
| Chlorobenzene                                                                                           | 88               |      | 87                |      | 75-130              | 1   |      | 20            |
| Trichlorofluoromethane                                                                                  | 80               |      | 83                |      | 62-150              | 4   |      | 20            |
| 1,2-Dichloroethane                                                                                      | 84               |      | 82                |      | 70-130              | 2   |      | 20            |
| 1,1,1-Trichloroethane                                                                                   | 95               |      | 88                |      | 67-130              | 8   |      | 20            |
| Bromodichloromethane                                                                                    | 90               |      | 92                |      | 67-130              | 2   |      | 20            |
| trans-1,3-Dichloropropene                                                                               | 94               |      | 77                |      | 70-130              | 20  |      | 20            |
| cis-1,3-Dichloropropene                                                                                 | 89               |      | 98                |      | 70-130              | 10  |      | 20            |
| Bromoform                                                                                               | 74               |      | 87                |      | 54-136              | 16  |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                               | 94               |      | 100               |      | 67-130              | 6   |      | 20            |
| Benzene                                                                                                 | 97               |      | 88                |      | 70-130              | 10  |      | 20            |
| Toluene                                                                                                 | 87               |      | 79                |      | 70-130              | 10  |      | 20            |
| Ethylbenzene                                                                                            | 91               |      | 91                |      | 70-130              | 0   |      | 20            |
| Chloromethane                                                                                           | 110              |      | 99                |      | 64-130              | 11  |      | 20            |
| Bromomethane                                                                                            | 37               | Q    | 41                |      | 39-139              | 10  |      | 20            |
| Vinyl chloride                                                                                          | 90               |      | 98                |      | 55-140              | 9   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1333538-3 WG1333538-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                            | 82               |      | 85                |      | 55-138              | 4   |      | 20            |
| 1,1-Dichloroethene                                                                                      | 99               |      | 81                |      | 61-145              | 20  |      | 20            |
| trans-1,2-Dichloroethene                                                                                | 95               |      | 82                |      | 70-130              | 15  |      | 20            |
| Trichloroethene                                                                                         | 90               |      | 87                |      | 70-130              | 3   |      | 20            |
| 1,2-Dichlorobenzene                                                                                     | 83               |      | 80                |      | 70-130              | 4   |      | 20            |
| 1,3-Dichlorobenzene                                                                                     | 88               |      | 86                |      | 70-130              | 2   |      | 20            |
| 1,4-Dichlorobenzene                                                                                     | 88               |      | 87                |      | 70-130              | 1   |      | 20            |
| Methyl tert butyl ether                                                                                 | 100              |      | 95                |      | 63-130              | 5   |      | 20            |
| p/m-Xylene                                                                                              | 90               |      | 85                |      | 70-130              | 6   |      | 20            |
| o-Xylene                                                                                                | 80               |      | 85                |      | 70-130              | 6   |      | 20            |
| cis-1,2-Dichloroethene                                                                                  | 97               |      | 84                |      | 70-130              | 14  |      | 20            |
| Styrene                                                                                                 | 75               |      | 85                |      | 70-130              | 13  |      | 20            |
| Dichlorodifluoromethane                                                                                 | 110              |      | 91                |      | 36-147              | 19  |      | 20            |
| Acetone                                                                                                 | 120              |      | 83                |      | 58-148              | 36  | Q    | 20            |
| Carbon disulfide                                                                                        | 100              |      | 85                |      | 51-130              | 16  |      | 20            |
| 2-Butanone                                                                                              | 130              |      | 100               |      | 63-138              | 26  | Q    | 20            |
| 4-Methyl-2-pentanone                                                                                    | 110              |      | 94                |      | 59-130              | 16  |      | 20            |
| 2-Hexanone                                                                                              | 120              |      | 110               |      | 57-130              | 9   |      | 20            |
| 1,2-Dibromoethane                                                                                       | 84               |      | 72                |      | 70-130              | 15  |      | 20            |
| n-Butylbenzene                                                                                          | 97               |      | 100               |      | 53-136              | 3   |      | 20            |
| sec-Butylbenzene                                                                                        | 84               |      | 89                |      | 70-130              | 6   |      | 20            |
| tert-Butylbenzene                                                                                       | 89               |      | 100               |      | 70-130              | 12  |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                             | 81               |      | 74                |      | 41-144              | 9   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-09 Batch: WG1333538-3 WG1333538-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                        | 82               |      | 100               |      | 70-130              | 20  |      | 20            |
| p-Isopropyltoluene                                                                                      | 80               |      | 86                |      | 70-130              | 7   |      | 20            |
| Naphthalene                                                                                             | 89               |      | 95                |      | 70-130              | 7   |      | 20            |
| n-Propylbenzene                                                                                         | 95               |      | 100               |      | 69-130              | 5   |      | 20            |
| 1,2,4-Trichlorobenzene                                                                                  | 88               |      | 94                |      | 70-130              | 7   |      | 20            |
| 1,3,5-Trimethylbenzene                                                                                  | 91               |      | 100               |      | 64-130              | 9   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                                  | 78               |      | 96                |      | 70-130              | 21  | Q    | 20            |
| Methyl Acetate                                                                                          | 150              | Q    | 130               |      | 70-130              | 14  |      | 20            |
| Cyclohexane                                                                                             | 120              |      | 100               |      | 70-130              | 18  |      | 20            |
| Freon-113                                                                                               | 100              |      | 85                |      | 70-130              | 16  |      | 20            |
| Methyl cyclohexane                                                                                      | 91               |      | 87                |      | 70-130              | 4   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 102              |      | 93                |      | 70-130                 |
| Toluene-d8            | 92               |      | 87                |      | 70-130                 |
| 4-Bromofluorobenzene  | 104              |      | 112               |      | 70-130                 |
| Dibromofluoromethane  | 100              |      | 92                |      | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1333825-3 WG1333825-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                   | 95               |      | 86                |      | 70-130              | 10  |      | 20            |
| 1,1-Dichloroethane                                                                                   | 98               |      | 86                |      | 70-130              | 13  |      | 20            |
| Chloroform                                                                                           | 99               |      | 90                |      | 70-130              | 10  |      | 20            |
| Carbon tetrachloride                                                                                 | 100              |      | 85                |      | 63-132              | 16  |      | 20            |
| 1,2-Dichloropropane                                                                                  | 92               |      | 83                |      | 70-130              | 10  |      | 20            |
| Dibromochloromethane                                                                                 | 91               |      | 80                |      | 63-130              | 13  |      | 20            |
| 1,1,2-Trichloroethane                                                                                | 100              |      | 92                |      | 70-130              | 8   |      | 20            |
| Tetrachloroethene                                                                                    | 100              |      | 89                |      | 70-130              | 12  |      | 20            |
| Chlorobenzene                                                                                        | 100              |      | 88                |      | 75-130              | 13  |      | 20            |
| Trichlorofluoromethane                                                                               | 120              |      | 100               |      | 62-150              | 18  |      | 20            |
| 1,2-Dichloroethane                                                                                   | 94               |      | 85                |      | 70-130              | 10  |      | 20            |
| 1,1,1-Trichloroethane                                                                                | 100              |      | 90                |      | 67-130              | 11  |      | 20            |
| Bromodichloromethane                                                                                 | 89               |      | 79                |      | 67-130              | 12  |      | 20            |
| trans-1,3-Dichloropropene                                                                            | 83               |      | 76                |      | 70-130              | 9   |      | 20            |
| cis-1,3-Dichloropropene                                                                              | 87               |      | 78                |      | 70-130              | 11  |      | 20            |
| Bromoform                                                                                            | 90               |      | 79                |      | 54-136              | 13  |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                            | 100              |      | 90                |      | 67-130              | 11  |      | 20            |
| Benzene                                                                                              | 99               |      | 87                |      | 70-130              | 13  |      | 20            |
| Toluene                                                                                              | 98               |      | 87                |      | 70-130              | 12  |      | 20            |
| Ethylbenzene                                                                                         | 100              |      | 89                |      | 70-130              | 12  |      | 20            |
| Chloromethane                                                                                        | 100              |      | 91                |      | 64-130              | 9   |      | 20            |
| Bromomethane                                                                                         | 90               |      | 84                |      | 39-139              | 7   |      | 20            |
| Vinyl chloride                                                                                       | 94               |      | 81                |      | 55-140              | 15  |      | 20            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1333825-3 WG1333825-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                         | 98               |      | 82                |      | 55-138              | 18  |      | 20            |
| 1,1-Dichloroethene                                                                                   | 99               |      | 85                |      | 61-145              | 15  |      | 20            |
| trans-1,2-Dichloroethene                                                                             | 98               |      | 84                |      | 70-130              | 15  |      | 20            |
| Trichloroethene                                                                                      | 97               |      | 84                |      | 70-130              | 14  |      | 20            |
| 1,2-Dichlorobenzene                                                                                  | 100              |      | 93                |      | 70-130              | 7   |      | 20            |
| 1,3-Dichlorobenzene                                                                                  | 100              |      | 91                |      | 70-130              | 9   |      | 20            |
| 1,4-Dichlorobenzene                                                                                  | 100              |      | 91                |      | 70-130              | 9   |      | 20            |
| Methyl tert butyl ether                                                                              | 97               |      | 88                |      | 63-130              | 10  |      | 20            |
| p/m-Xylene                                                                                           | 105              |      | 90                |      | 70-130              | 15  |      | 20            |
| o-Xylene                                                                                             | 105              |      | 90                |      | 70-130              | 15  |      | 20            |
| cis-1,2-Dichloroethene                                                                               | 99               |      | 85                |      | 70-130              | 15  |      | 20            |
| Styrene                                                                                              | 105              |      | 90                |      | 70-130              | 15  |      | 20            |
| Dichlorodifluoromethane                                                                              | 140              |      | 120               |      | 36-147              | 15  |      | 20            |
| Acetone                                                                                              | 76               |      | 76                |      | 58-148              | 0   |      | 20            |
| Carbon disulfide                                                                                     | 84               |      | 72                |      | 51-130              | 15  |      | 20            |
| 2-Butanone                                                                                           | 80               |      | 74                |      | 63-138              | 8   |      | 20            |
| 4-Methyl-2-pentanone                                                                                 | 78               |      | 73                |      | 59-130              | 7   |      | 20            |
| 2-Hexanone                                                                                           | 70               |      | 63                |      | 57-130              | 11  |      | 20            |
| 1,2-Dibromoethane                                                                                    | 95               |      | 86                |      | 70-130              | 10  |      | 20            |
| n-Butylbenzene                                                                                       | 100              |      | 91                |      | 53-136              | 9   |      | 20            |
| sec-Butylbenzene                                                                                     | 100              |      | 90                |      | 70-130              | 11  |      | 20            |
| tert-Butylbenzene                                                                                    | 100              |      | 90                |      | 70-130              | 11  |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                          | 87               |      | 80                |      | 41-144              | 8   |      | 20            |



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG1333825-3 WG1333825-4 |                  |      |                   |      |                     |     |      |               |
| Isopropylbenzene                                                                                     | 100              |      | 90                |      | 70-130              | 11  |      | 20            |
| p-Isopropyltoluene                                                                                   | 100              |      | 92                |      | 70-130              | 8   |      | 20            |
| Naphthalene                                                                                          | 100              |      | 95                |      | 70-130              | 5   |      | 20            |
| n-Propylbenzene                                                                                      | 100              |      | 90                |      | 69-130              | 11  |      | 20            |
| 1,2,4-Trichlorobenzene                                                                               | 100              |      | 93                |      | 70-130              | 7   |      | 20            |
| 1,3,5-Trimethylbenzene                                                                               | 100              |      | 91                |      | 64-130              | 9   |      | 20            |
| 1,2,4-Trimethylbenzene                                                                               | 100              |      | 92                |      | 70-130              | 8   |      | 20            |
| Methyl Acetate                                                                                       | 86               |      | 80                |      | 70-130              | 7   |      | 20            |
| Cyclohexane                                                                                          | 95               |      | 81                |      | 70-130              | 16  |      | 20            |
| Freon-113                                                                                            | 110              |      | 93                |      | 70-130              | 17  |      | 20            |
| Methyl cyclohexane                                                                                   | 99               |      | 86                |      | 70-130              | 14  |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 103              |      | 101               |      | 70-130                 |
| Toluene-d8            | 99               |      | 99                |      | 70-130                 |
| 4-Bromofluorobenzene  | 94               |      | 93                |      | 70-130                 |
| Dibromofluoromethane  | 103              |      | 102               |      | 70-130                 |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                      | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1333212-6 WG1333212-7 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Methylene chloride                                                                                                                                             | ND            | 400      | 380      | 95           |      | 400       | 100           |      | 70-130          | 5   |      | 20         |
| 1,1-Dichloroethane                                                                                                                                             | ND            | 400      | 380      | 95           |      | 400       | 100           |      | 70-130          | 5   |      | 20         |
| Chloroform                                                                                                                                                     | ND            | 400      | 390      | 98           |      | 400       | 100           |      | 70-130          | 3   |      | 20         |
| Carbon tetrachloride                                                                                                                                           | ND            | 400      | 400      | 100          |      | 420       | 105           |      | 63-132          | 5   |      | 20         |
| 1,2-Dichloropropane                                                                                                                                            | ND            | 400      | 330      | 82           |      | 350       | 88            |      | 70-130          | 6   |      | 20         |
| Dibromochloromethane                                                                                                                                           | ND            | 400      | 330      | 82           |      | 350       | 88            |      | 63-130          | 6   |      | 20         |
| 1,1,2-Trichloroethane                                                                                                                                          | ND            | 400      | 360      | 90           |      | 390       | 98            |      | 70-130          | 8   |      | 20         |
| Tetrachloroethene                                                                                                                                              | 19J           | 400      | 400      | 100          |      | 430       | 108           |      | 70-130          | 7   |      | 20         |
| Chlorobenzene                                                                                                                                                  | ND            | 400      | 370      | 92           |      | 390       | 98            |      | 75-130          | 5   |      | 20         |
| Trichlorofluoromethane                                                                                                                                         | ND            | 400      | 560      | 140          |      | 590       | 148           |      | 62-150          | 5   |      | 20         |
| 1,2-Dichloroethane                                                                                                                                             | ND            | 400      | 380      | 95           |      | 380       | 95            |      | 70-130          | 0   |      | 20         |
| 1,1,1-Trichloroethane                                                                                                                                          | ND            | 400      | 410      | 103          |      | 440       | 110           |      | 67-130          | 7   |      | 20         |
| Bromodichloromethane                                                                                                                                           | ND            | 400      | 340      | 85           |      | 350       | 88            |      | 67-130          | 3   |      | 20         |
| trans-1,3-Dichloropropene                                                                                                                                      | ND            | 400      | 290      | 72           |      | 310       | 78            |      | 70-130          | 7   |      | 20         |
| cis-1,3-Dichloropropene                                                                                                                                        | ND            | 400      | 310      | 78           |      | 320       | 80            |      | 70-130          | 3   |      | 20         |
| Bromoform                                                                                                                                                      | ND            | 400      | 310      | 78           |      | 320       | 80            |      | 54-136          | 3   |      | 20         |
| 1,1,2,2-Tetrachloroethane                                                                                                                                      | ND            | 400      | 340      | 85           |      | 380       | 95            |      | 67-130          | 11  |      | 20         |
| Benzene                                                                                                                                                        | ND            | 400      | 380      | 95           |      | 390       | 98            |      | 70-130          | 3   |      | 20         |
| Toluene                                                                                                                                                        | ND            | 400      | 370      | 92           |      | 390       | 98            |      | 70-130          | 5   |      | 20         |
| Ethylbenzene                                                                                                                                                   | ND            | 400      | 380      | 95           |      | 400       | 100           |      | 70-130          | 5   |      | 20         |
| Chloromethane                                                                                                                                                  | ND            | 400      | 440      | 110          |      | 500       | 125           |      | 64-130          | 13  |      | 20         |
| Bromomethane                                                                                                                                                   | ND            | 400      | 320      | 80           |      | 350       | 88            |      | 39-139          | 9   |      | 20         |
| Vinyl chloride                                                                                                                                                 | ND            | 400      | 420      | 105          |      | 480       | 120           |      | 55-140          | 13  |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                      | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1333212-6 WG1333212-7 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Chloroethane                                                                                                                                                   | ND            | 400      | 460      | 115          |      | 490       | 123           |      | 55-138          | 6   |      | 20         |
| 1,1-Dichloroethene                                                                                                                                             | ND            | 400      | 430      | 108          |      | 450       | 113           |      | 61-145          | 5   |      | 20         |
| trans-1,2-Dichloroethene                                                                                                                                       | ND            | 400      | 390      | 98           |      | 420       | 105           |      | 70-130          | 7   |      | 20         |
| Trichloroethene                                                                                                                                                | 4200          | 400      | 4300     | 25           | Q    | 4300      | 25            | Q    | 70-130          | 0   |      | 20         |
| 1,2-Dichlorobenzene                                                                                                                                            | ND            | 400      | 360      | 90           |      | 380       | 95            |      | 70-130          | 5   |      | 20         |
| 1,3-Dichlorobenzene                                                                                                                                            | ND            | 400      | 350      | 88           |      | 380       | 95            |      | 70-130          | 8   |      | 20         |
| 1,4-Dichlorobenzene                                                                                                                                            | ND            | 400      | 350      | 88           |      | 380       | 95            |      | 70-130          | 8   |      | 20         |
| Methyl tert butyl ether                                                                                                                                        | ND            | 400      | 340      | 85           |      | 360       | 90            |      | 63-130          | 6   |      | 20         |
| p/m-Xylene                                                                                                                                                     | ND            | 800      | 770      | 96           |      | 820       | 103           |      | 70-130          | 6   |      | 20         |
| o-Xylene                                                                                                                                                       | ND            | 800      | 760      | 95           |      | 800       | 100           |      | 70-130          | 5   |      | 20         |
| cis-1,2-Dichloroethene                                                                                                                                         | 140           | 400      | 540      | 100          |      | 560       | 105           |      | 70-130          | 4   |      | 20         |
| Styrene                                                                                                                                                        | ND            | 800      | 740      | 92           |      | 760       | 95            |      | 70-130          | 3   |      | 20         |
| Dichlorodifluoromethane                                                                                                                                        | ND            | 400      | 600      | 150          | Q    | 650       | 163           | Q    | 36-147          | 8   |      | 20         |
| Acetone                                                                                                                                                        | ND            | 400      | 300      | 75           |      | 340       | 85            |      | 58-148          | 13  |      | 20         |
| Carbon disulfide                                                                                                                                               | ND            | 400      | 400      | 100          |      | 420       | 105           |      | 51-130          | 5   |      | 20         |
| 2-Butanone                                                                                                                                                     | ND            | 400      | 290      | 72           |      | 300       | 75            |      | 63-138          | 3   |      | 20         |
| 4-Methyl-2-pentanone                                                                                                                                           | ND            | 400      | 240      | 60           |      | 280       | 70            |      | 59-130          | 15  |      | 20         |
| 2-Hexanone                                                                                                                                                     | ND            | 400      | 220      | 55           | Q    | 240       | 60            |      | 57-130          | 9   |      | 20         |
| Bromochloromethane                                                                                                                                             | ND            | 400      | 420      | 105          |      | 420       | 105           |      | 70-130          | 0   |      | 20         |
| 1,2-Dibromoethane                                                                                                                                              | ND            | 400      | 350      | 88           |      | 370       | 92            |      | 70-130          | 6   |      | 20         |
| 1,2-Dibromo-3-chloropropane                                                                                                                                    | ND            | 400      | 280      | 70           |      | 320       | 80            |      | 41-144          | 13  |      | 20         |
| Isopropylbenzene                                                                                                                                               | ND            | 400      | 350      | 88           |      | 380       | 95            |      | 70-130          | 8   |      | 20         |
| 1,2,3-Trichlorobenzene                                                                                                                                         | ND            | 400      | 330      | 82           |      | 370       | 92            |      | 70-130          | 11  |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                      | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1333212-6 WG1333212-7 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| 1,2,4-Trichlorobenzene                                                                                                                                         | ND            | 400      | 330      | 82           |      | 360       | 90            |      | 70-130          | 9   |      | 20         |
| Methyl Acetate                                                                                                                                                 | ND            | 400      | 300      | 75           |      | 340       | 85            |      | 70-130          | 13  |      | 20         |
| Cyclohexane                                                                                                                                                    | ND            | 400      | 370J     | 92           |      | 400       | 100           |      | 70-130          | 8   |      | 20         |
| 1,4-Dioxane                                                                                                                                                    | ND            | 20000    | 18000    | 90           |      | 18000     | 90            |      | 56-162          | 0   |      | 20         |
| Freon-113                                                                                                                                                      | ND            | 400      | 470      | 118          |      | 490       | 123           |      | 70-130          | 4   |      | 20         |
| Methyl cyclohexane                                                                                                                                             | ND            | 400      | 410      | 103          |      | 430       | 108           |      | 70-130          | 5   |      | 20         |

| Surrogate             | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|-----------------------|---------------|--------------|----------------|---------------|---------------------|
| 1,2-Dichloroethane-d4 | 109           |              | 108            |               | 70-130              |
| 4-Bromofluorobenzene  | 88            |              | 91             |               | 70-130              |
| Dibromofluoromethane  | 107           |              | 106            |               | 70-130              |
| Toluene-d8            | 99            |              | 101            |               | 70-130              |

# SEMIVOLATILES

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 01/23/20 16:14  
 Analyst: DW

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/l  | 5.0 | 1.6  | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 0.93 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/l  | 2.0 | 0.38 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/l  | 2.0 | 0.53 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/l  | 20  | 0.69 | 1               |
| Isophorone                                       | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 2.0 | 0.77 | 1               |
| NDPA/DPA                                         | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/l  | 5.0 | 0.64 | 1               |
| Bis(2-ethylhexyl)phthalate                       | 1.8    | J         | ug/l  | 3.0 | 1.5  | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/l  | 5.0 | 0.39 | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/l  | 5.0 | 1.3  | 1               |
| Diethyl phthalate                                | ND     |           | ug/l  | 5.0 | 0.38 | 1               |
| Dimethyl phthalate                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| Biphenyl                                         | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/l  | 5.0 | 1.1  | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.81 | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.80 | 1               |
| Dibenzofuran                                     | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 10  | 0.44 | 1               |
| Acetophenone                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.61 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| p-Chloro-m-cresol                                | ND     |           | ug/l  | 2.0 | 0.35 | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/l  | 2.0 | 0.48 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/l  | 5.0 | 0.41 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.85 | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.67 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/l  | 20  | 6.6  | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/l  | 10  | 1.8  | 1               |
| Phenol                                           | ND     |           | ug/l  | 5.0 | 0.57 | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 5.0 | 0.49 | 1               |
| 3-Methylphenol/4-Methylphenol                    | 1.6    | J         | ug/l  | 5.0 | 0.48 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.77 | 1               |
| Carbazole                                        | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| Atrazine                                         | ND     |           | ug/l  | 10  | 0.76 | 1               |
| Benzaldehyde                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| Caprolactam                                      | ND     |           | ug/l  | 10  | 3.3  | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/l  | 5.0 | 0.84 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

## Tentatively Identified Compounds

|                          |      |    |      |  |  |   |
|--------------------------|------|----|------|--|--|---|
| Total TIC Compounds      | 200  | J  | ug/l |  |  | 1 |
| Tetrachloroethene        | 7.24 | NJ | ug/l |  |  | 1 |
| Cyclic Octaatomic Sulfur | 9.71 | NJ | ug/l |  |  | 1 |
| Aldol Condensates (A)    | 3.02 | J  | ug/l |  |  | 1 |
| Toluene                  | 2.84 | NJ | ug/l |  |  | 1 |
| Unknown                  | 2.80 | J  | ug/l |  |  | 1 |
| Unknown                  | 3.42 | J  | ug/l |  |  | 1 |
| Unknown Organic Acid     | 18.9 | J  | ug/l |  |  | 1 |
| Unknown Phenol           | 1.67 | J  | ug/l |  |  | 1 |
| Unknown                  | 3.49 | J  | ug/l |  |  | 1 |
| Unknown Organic Acid     | 1.74 | J  | ug/l |  |  | 1 |
| Aldol Condensates (A)    | 123  | J  | ug/l |  |  | 1 |
| Unknown Organic Acid     | 1.74 | J  | ug/l |  |  | 1 |
| Unknown                  | 14.5 | J  | ug/l |  |  | 1 |
| Unknown                  | 2.73 | J  | ug/l |  |  | 1 |
| Unknown                  | 3.09 | J  | ug/l |  |  | 1 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 67         |           | 21-120              |
| Phenol-d6            | 54         |           | 10-120              |
| Nitrobenzene-d5      | 67         |           | 23-120              |
| 2-Fluorobiphenyl     | 63         |           | 15-120              |
| 2,4,6-Tribromophenol | 102        |           | 10-120              |
| 4-Terphenyl-d14      | 73         |           | 41-149              |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/23/20 12:40  
 Analyst: CB

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                            | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |      |      |                 |
| Acenaphthene                                         | 0.10   | J         | ug/l  | 0.10 | 0.01 | 1               |
| 2-Chloronaphthalene                                  | ND     |           | ug/l  | 0.20 | 0.02 | 1               |
| Fluoranthene                                         | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Hexachlorobutadiene                                  | ND     |           | ug/l  | 0.50 | 0.05 | 1               |
| Naphthalene                                          | 0.25   |           | ug/l  | 0.10 | 0.05 | 1               |
| Benzo(a)anthracene                                   | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(a)pyrene                                       | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(b)fluoranthene                                 | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(k)fluoranthene                                 | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Chrysene                                             | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Acenaphthylene                                       | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Anthracene                                           | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(ghi)perylene                                   | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Fluorene                                             | 0.13   |           | ug/l  | 0.10 | 0.01 | 1               |
| Phenanthrene                                         | 0.08   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Dibenzo(a,h)anthracene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Indeno(1,2,3-cd)pyrene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Pyrene                                               | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| 2-Methylnaphthalene                                  | 0.20   |           | ug/l  | 0.10 | 0.02 | 1               |
| Pentachlorophenol                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachlorobenzene                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachloroethane                                     | ND     |           | ug/l  | 0.80 | 0.06 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01

Date Collected: 01/20/20 11:40

Client ID: BW-01-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |    |     |                 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 73         |           | 21-120              |
| Phenol-d6            | 60         |           | 10-120              |
| Nitrobenzene-d5      | 87         |           | 23-120              |
| 2-Fluorobiphenyl     | 86         |           | 15-120              |
| 2,4,6-Tribromophenol | 107        |           | 10-120              |
| 4-Terphenyl-d14      | 106        |           | 41-149              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/24/20 18:51  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 08:40

| Parameter                                | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab |            |           |           |                     |      |                 |
| 1,4-Dioxane                              | 529.       |           | ng/l      | 139                 | 31.4 | 1               |
| Surrogate                                | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| 1,4-Dioxane-d8                           | 48         |           |           | 15-110              |      |                 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 02/07/20 00:58  
 Analyst: JW

Extraction Method: ALPHA 23528  
 Extraction Date: 01/22/20 14:15

| Parameter                                                      | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 19.4   |           | ng/l  | 1.78 | 0.363 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | 3.63   |           | ng/l  | 1.78 | 0.352 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | 1.47   | J         | ng/l  | 1.78 | 0.212 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | 3.65   |           | ng/l  | 1.78 | 0.292 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | 3.58   |           | ng/l  | 1.78 | 0.200 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ng/l  | 1.78 | 0.334 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 9.47   |           | ng/l  | 1.78 | 0.210 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ng/l  | 1.78 | 1.18  | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ng/l  | 1.78 | 0.612 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | 0.334  | J         | ng/l  | 1.78 | 0.278 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | 1.41   | J         | ng/l  | 1.78 | 0.448 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ng/l  | 1.78 | 0.270 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ng/l  | 1.78 | 1.08  | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ng/l  | 1.78 | 0.576 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ng/l  | 1.78 | 0.231 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ng/l  | 1.78 | 0.872 | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ng/l  | 1.78 | 0.516 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | ND     |           | ng/l  | 1.78 | 0.715 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ng/l  | 1.78 | 0.331 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ng/l  | 1.78 | 0.291 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ng/l  | 1.78 | 0.221 | 1               |
| PFOA/PFOS, Total                                               | 10.9   | J         | ng/l  | 1.78 | 0.210 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 137        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 141        |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 111        |           | 31-159              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 94         |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 111        |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 119        |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 124        |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 288        | Q         | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 134        |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 110        |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 115        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 264        | Q         | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 109        |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 117        |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 42         |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 106        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 98         |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 86         |           | 33-143              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 01/23/20 10:34  
 Analyst: SZ

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/l  | 5.0 | 1.6  | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 0.93 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/l  | 2.0 | 0.38 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/l  | 2.0 | 0.53 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/l  | 20  | 0.69 | 1               |
| Isophorone                                       | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 2.0 | 0.77 | 1               |
| NDPA/DPA                                         | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/l  | 5.0 | 0.64 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/l  | 3.0 | 1.5  | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/l  | 5.0 | 0.39 | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/l  | 5.0 | 1.3  | 1               |
| Diethyl phthalate                                | ND     |           | ug/l  | 5.0 | 0.38 | 1               |
| Dimethyl phthalate                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| Biphenyl                                         | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/l  | 5.0 | 1.1  | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.81 | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.80 | 1               |
| Dibenzofuran                                     | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 10  | 0.44 | 1               |
| Acetophenone                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.61 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| p-Chloro-m-cresol                                | ND     |           | ug/l  | 2.0 | 0.35 | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/l  | 2.0 | 0.48 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/l  | 5.0 | 0.41 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.85 | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.67 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/l  | 20  | 6.6  | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/l  | 10  | 1.8  | 1               |
| Phenol                                           | ND     |           | ug/l  | 5.0 | 0.57 | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 5.0 | 0.49 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 5.0 | 0.48 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.77 | 1               |
| Carbazole                                        | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| Atrazine                                         | ND     |           | ug/l  | 10  | 0.76 | 1               |
| Benzaldehyde                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| Caprolactam                                      | ND     |           | ug/l  | 10  | 3.3  | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/l  | 5.0 | 0.84 | 1               |

## Tentatively Identified Compounds

|                          |      |    |      |   |
|--------------------------|------|----|------|---|
| Total TIC Compounds      | 209  | J  | ug/l | 1 |
| Unknown                  | 1.67 | J  | ug/l | 1 |
| Unknown                  | 2.04 | J  | ug/l | 1 |
| Unknown                  | 2.36 | J  | ug/l | 1 |
| Aldol Condensates (A)    | 24.3 | J  | ug/l | 1 |
| Sulfur                   | 2.73 | NJ | ug/l | 1 |
| Unknown                  | 2.62 | J  | ug/l | 1 |
| Unknown                  | 2.94 | J  | ug/l | 1 |
| Unknown                  | 3.38 | J  | ug/l | 1 |
| Unknown Organic Acid     | 4.76 | J  | ug/l | 1 |
| Unknown                  | 3.96 | J  | ug/l | 1 |
| Cyclic Octaatomic Sulfur | 157  | NJ | ug/l | 1 |
| Unknown                  | 1.64 | J  | ug/l | 1 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02

Date Collected: 01/21/20 12:40

Client ID: BW-02-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 62         |           | 21-120              |
| Phenol-d6            | 52         |           | 10-120              |
| Nitrobenzene-d5      | 62         |           | 23-120              |
| 2-Fluorobiphenyl     | 63         |           | 15-120              |
| 2,4,6-Tribromophenol | 83         |           | 10-120              |
| 4-Terphenyl-d14      | 79         |           | 41-149              |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/24/20 11:44  
 Analyst: CB

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                            | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |      |      |                 |
| Acenaphthene                                         | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| 2-Chloronaphthalene                                  | ND     |           | ug/l  | 0.20 | 0.02 | 1               |
| Fluoranthene                                         | 0.03   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Hexachlorobutadiene                                  | ND     |           | ug/l  | 0.50 | 0.05 | 1               |
| Naphthalene                                          | ND     |           | ug/l  | 0.10 | 0.05 | 1               |
| Benzo(a)anthracene                                   | 0.03   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(a)pyrene                                       | 0.02   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(b)fluoranthene                                 | 0.03   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(k)fluoranthene                                 | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Chrysene                                             | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Acenaphthylene                                       | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Anthracene                                           | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(ghi)perylene                                   | 0.03   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Fluorene                                             | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Phenanthrene                                         | 0.03   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Dibenzo(a,h)anthracene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Indeno(1,2,3-cd)pyrene                               | 0.03   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Pyrene                                               | 0.02   | J         | ug/l  | 0.10 | 0.02 | 1               |
| 2-Methylnaphthalene                                  | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Pentachlorophenol                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachlorobenzene                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachloroethane                                     | ND     |           | ug/l  | 0.80 | 0.06 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02

Date Collected: 01/21/20 12:40

Client ID: BW-02-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |    |     |                 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 66         |           | 21-120              |
| Phenol-d6            | 56         |           | 10-120              |
| Nitrobenzene-d5      | 76         |           | 23-120              |
| 2-Fluorobiphenyl     | 79         |           | 15-120              |
| 2,4,6-Tribromophenol | 104        |           | 10-120              |
| 4-Terphenyl-d14      | 110        |           | 41-149              |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**SAMPLE RESULTS**

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/24/20 14:18  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 08:40

| Parameter                                | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab |            |           |           |                     |      |                 |
| 1,4-Dioxane                              | ND         |           | ng/l      | 139                 | 31.4 | 1               |
| Surrogate                                | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| 1,4-Dioxane-d8                           | 45         |           |           | 15-110              |      |                 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 02/06/20 20:33  
 Analyst: JW

Extraction Method: ALPHA 23528  
 Extraction Date: 01/22/20 14:15

| Parameter                                                      | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 14.2   |           | ng/l  | 2.10 | 0.428 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | 3.02   |           | ng/l  | 2.10 | 0.416 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | 0.307  | J         | ng/l  | 2.10 | 0.250 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | 2.08   | J         | ng/l  | 2.10 | 0.344 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | 0.470  | J         | ng/l  | 2.10 | 0.236 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ng/l  | 2.10 | 0.395 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 0.727  | J         | ng/l  | 2.10 | 0.248 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ng/l  | 2.10 | 1.40  | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ng/l  | 2.10 | 0.723 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | ND     |           | ng/l  | 2.10 | 0.328 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | ND     |           | ng/l  | 2.10 | 0.529 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ng/l  | 2.10 | 0.319 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ng/l  | 2.10 | 1.27  | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ng/l  | 2.10 | 0.681 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ng/l  | 2.10 | 0.273 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ng/l  | 2.10 | 1.03  | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ng/l  | 2.10 | 0.609 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | ND     |           | ng/l  | 2.10 | 0.844 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ng/l  | 2.10 | 0.391 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ng/l  | 2.10 | 0.344 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ng/l  | 2.10 | 0.260 | 1               |
| PFOA/PFOS, Total                                               | 0.727  | J         | ng/l  | 2.10 | 0.248 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 118        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 137        |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 96         |           | 31-159              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 98         |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 101        |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 104        |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 107        |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 139        |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 107        |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 100        |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 95         |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 125        |           | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 87         |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 102        |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 33         |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 88         |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 91         |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 80         |           | 33-143              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D  
 Analytical Date: 01/23/20 10:58  
 Analyst: SZ

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/l  | 5.0 | 1.6  | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 0.93 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/l  | 2.0 | 0.38 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/l  | 2.0 | 0.53 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/l  | 20  | 0.69 | 1               |
| Isophorone                                       | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 2.0 | 0.77 | 1               |
| NDPA/DPA                                         | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/l  | 5.0 | 0.64 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/l  | 3.0 | 1.5  | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/l  | 5.0 | 0.39 | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/l  | 5.0 | 1.3  | 1               |
| Diethyl phthalate                                | ND     |           | ug/l  | 5.0 | 0.38 | 1               |
| Dimethyl phthalate                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| Biphenyl                                         | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/l  | 5.0 | 1.1  | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.81 | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.80 | 1               |
| Dibenzofuran                                     | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 10  | 0.44 | 1               |
| Acetophenone                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.61 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| p-Chloro-m-cresol                                | ND     |           | ug/l  | 2.0 | 0.35 | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/l  | 2.0 | 0.48 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/l  | 5.0 | 0.41 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.85 | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.67 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/l  | 20  | 6.6  | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/l  | 10  | 1.8  | 1               |
| Phenol                                           | ND     |           | ug/l  | 5.0 | 0.57 | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 5.0 | 0.49 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 5.0 | 0.48 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.77 | 1               |
| Carbazole                                        | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| Atrazine                                         | ND     |           | ug/l  | 10  | 0.76 | 1               |
| Benzaldehyde                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| Caprolactam                                      | ND     |           | ug/l  | 10  | 3.3  | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/l  | 5.0 | 0.84 | 1               |

## Tentatively Identified Compounds

|                          |      |    |      |   |
|--------------------------|------|----|------|---|
| Total TIC Compounds      | 28.7 | J  | ug/l | 1 |
| Unknown                  | 1.60 | J  | ug/l | 1 |
| Unknown Organic Acid     | 4.51 | J  | ug/l | 1 |
| Unknown                  | 1.89 | J  | ug/l | 1 |
| Aldol Condensates (A)    | 12.8 | J  | ug/l | 1 |
| Cyclic Octaatomic Sulfur | 3.09 | NJ | ug/l | 1 |
| Unknown                  | 3.31 | J  | ug/l | 1 |
| Unknown                  | 1.45 | J  | ug/l | 1 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03

Date Collected: 01/21/20 09:30

Client ID: BW-03-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |    |     |                 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 56         |           | 21-120              |
| Phenol-d6            | 45         |           | 10-120              |
| Nitrobenzene-d5      | 57         |           | 23-120              |
| 2-Fluorobiphenyl     | 58         |           | 15-120              |
| 2,4,6-Tribromophenol | 84         |           | 10-120              |
| 4-Terphenyl-d14      | 76         |           | 41-149              |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/24/20 11:59  
 Analyst: CB

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                            | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |      |      |                 |
| Acenaphthene                                         | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| 2-Chloronaphthalene                                  | ND     |           | ug/l  | 0.20 | 0.02 | 1               |
| Fluoranthene                                         | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Hexachlorobutadiene                                  | ND     |           | ug/l  | 0.50 | 0.05 | 1               |
| Naphthalene                                          | 0.06   | J         | ug/l  | 0.10 | 0.05 | 1               |
| Benzo(a)anthracene                                   | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(a)pyrene                                       | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(b)fluoranthene                                 | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(k)fluoranthene                                 | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Chrysene                                             | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Acenaphthylene                                       | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Anthracene                                           | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(ghi)perylene                                   | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Fluorene                                             | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Phenanthrene                                         | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Dibenzo(a,h)anthracene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Indeno(1,2,3-cd)pyrene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Pyrene                                               | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| 2-Methylnaphthalene                                  | 0.04   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Pentachlorophenol                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachlorobenzene                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachloroethane                                     | ND     |           | ug/l  | 0.80 | 0.06 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03

Date Collected: 01/21/20 09:30

Client ID: BW-03-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |    |     |                 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 59         |           | 21-120              |
| Phenol-d6            | 50         |           | 10-120              |
| Nitrobenzene-d5      | 73         |           | 23-120              |
| 2-Fluorobiphenyl     | 77         |           | 15-120              |
| 2,4,6-Tribromophenol | 107        |           | 10-120              |
| 4-Terphenyl-d14      | 107        |           | 41-149              |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**SAMPLE RESULTS**

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/24/20 14:49  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 08:40

| Parameter                                | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab |            |           |           |                     |      |                 |
| 1,4-Dioxane                              | 287.       |           | ng/l      | 139                 | 31.4 | 1               |
| Surrogate                                | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| 1,4-Dioxane-d8                           | 50         |           |           | 15-110              |      |                 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 134,LCMSMS-ID  
 Analytical Date: 02/06/20 20:49  
 Analyst: JW

Extraction Method: ALPHA 23528  
 Extraction Date: 01/22/20 14:15

| Parameter                                                      | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 14.5   |           | ng/l  | 2.14 | 0.438 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | 2.31   |           | ng/l  | 2.14 | 0.425 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | ND     |           | ng/l  | 2.14 | 0.255 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | 1.15   | J         | ng/l  | 2.14 | 0.352 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | ND     |           | ng/l  | 2.14 | 0.242 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ng/l  | 2.14 | 0.403 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 0.657  | J         | ng/l  | 2.14 | 0.253 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ng/l  | 2.14 | 1.43  | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ng/l  | 2.14 | 0.738 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | ND     |           | ng/l  | 2.14 | 0.335 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | ND     |           | ng/l  | 2.14 | 0.541 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ng/l  | 2.14 | 0.326 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ng/l  | 2.14 | 1.30  | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ng/l  | 2.14 | 0.695 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ng/l  | 2.14 | 0.279 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ng/l  | 2.14 | 1.05  | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ng/l  | 2.14 | 0.622 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | ND     |           | ng/l  | 2.14 | 0.863 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ng/l  | 2.14 | 0.399 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ng/l  | 2.14 | 0.351 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ng/l  | 2.14 | 0.266 | 1               |
| PFOA/PFOS, Total                                               | 0.657  | J         | ng/l  | 2.14 | 0.253 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 111        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 125        |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 110        |           | 31-159              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 97         |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 105        |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 117        |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 114        |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 227        |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 117        |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 118        |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 111        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 214        | Q         | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 104        |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 113        |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 39         |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 102        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 102        |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 88         |           | 33-143              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270D

Extraction Date: 01/22/20 15:24

Analytical Date: 01/23/20 11:22

Analyst: SZ

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/l  | 5.0 | 1.6  | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/l  | 5.0 | 0.93 | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/l  | 2.0 | 0.38 | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/l  | 2.0 | 0.53 | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/l  | 20  | 0.69 | 1               |
| Isophorone                                       | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 2.0 | 0.77 | 1               |
| NDPA/DPA                                         | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/l  | 5.0 | 0.64 | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/l  | 3.0 | 1.5  | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/l  | 5.0 | 1.2  | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/l  | 5.0 | 0.39 | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/l  | 5.0 | 1.3  | 1               |
| Diethyl phthalate                                | ND     |           | ug/l  | 5.0 | 0.38 | 1               |
| Dimethyl phthalate                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| Biphenyl                                         | ND     |           | ug/l  | 2.0 | 0.46 | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/l  | 5.0 | 1.1  | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.50 | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.81 | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/l  | 5.0 | 0.80 | 1               |
| Dibenzofuran                                     | ND     |           | ug/l  | 2.0 | 0.50 | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/l  | 10  | 0.44 | 1               |
| Acetophenone                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.61 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| p-Chloro-m-cresol                                | ND     |           | ug/l  | 2.0 | 0.35 | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/l  | 2.0 | 0.48 | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/l  | 5.0 | 0.41 | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/l  | 5.0 | 1.8  | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.85 | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/l  | 10  | 0.67 | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/l  | 20  | 6.6  | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/l  | 10  | 1.8  | 1               |
| Phenol                                           | 0.57   | J         | ug/l  | 5.0 | 0.57 | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 5.0 | 0.49 | 1               |
| 3-Methylphenol/4-Methylphenol                    | 1.4    | J         | ug/l  | 5.0 | 0.48 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 5.0 | 0.77 | 1               |
| Carbazole                                        | ND     |           | ug/l  | 2.0 | 0.49 | 1               |
| Atrazine                                         | ND     |           | ug/l  | 10  | 0.76 | 1               |
| Benzaldehyde                                     | ND     |           | ug/l  | 5.0 | 0.53 | 1               |
| Caprolactam                                      | ND     |           | ug/l  | 10  | 3.3  | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/l  | 5.0 | 0.84 | 1               |

## Tentatively Identified Compounds

|                          |      |    |      |   |
|--------------------------|------|----|------|---|
| Total TIC Compounds      | 72.4 | J  | ug/l | 1 |
| Unknown                  | 3.67 | J  | ug/l | 1 |
| Unknown Organic Acid     | 1.82 | J  | ug/l | 1 |
| Unknown                  | 3.64 | J  | ug/l | 1 |
| Unknown Organic Acid     | 1.78 | J  | ug/l | 1 |
| Cyclic Octaatomic Sulfur | 29.9 | NJ | ug/l | 1 |
| Tetrachloroethene        | 6.00 | NJ | ug/l | 1 |
| Aldol Condensates (A)    | 16.1 | J  | ug/l | 1 |
| Toluene                  | 2.25 | NJ | ug/l | 1 |
| Unknown Organic Acid     | 4.33 | J  | ug/l | 1 |
| Unknown                  | 2.87 | J  | ug/l | 1 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

Semivolatile Organics by GC/MS - Westborough Lab

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 63         |           | 21-120              |
| Phenol-d6            | 51         |           | 10-120              |
| Nitrobenzene-d5      | 65         |           | 23-120              |
| 2-Fluorobiphenyl     | 62         |           | 15-120              |
| 2,4,6-Tribromophenol | 88         |           | 10-120              |
| 4-Terphenyl-d14      | 79         |           | 41-149              |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270D-SIM

Extraction Date: 01/22/20 15:24

Analytical Date: 01/24/20 12:31

Analyst: CB

| Parameter                                            | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab |        |           |       |      |      |                 |
| Acenaphthene                                         | 0.10   | J         | ug/l  | 0.10 | 0.01 | 1               |
| 2-Chloronaphthalene                                  | ND     |           | ug/l  | 0.20 | 0.02 | 1               |
| Fluoranthene                                         | 0.02   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Hexachlorobutadiene                                  | ND     |           | ug/l  | 0.50 | 0.05 | 1               |
| Naphthalene                                          | 0.23   |           | ug/l  | 0.10 | 0.05 | 1               |
| Benzo(a)anthracene                                   | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(a)pyrene                                       | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| Benzo(b)fluoranthene                                 | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(k)fluoranthene                                 | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Chrysene                                             | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Acenaphthylene                                       | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Anthracene                                           | 0.02   | J         | ug/l  | 0.10 | 0.01 | 1               |
| Benzo(ghi)perylene                                   | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Fluorene                                             | 0.12   |           | ug/l  | 0.10 | 0.01 | 1               |
| Phenanthrene                                         | 0.07   | J         | ug/l  | 0.10 | 0.02 | 1               |
| Dibenzo(a,h)anthracene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Indeno(1,2,3-cd)pyrene                               | ND     |           | ug/l  | 0.10 | 0.01 | 1               |
| Pyrene                                               | ND     |           | ug/l  | 0.10 | 0.02 | 1               |
| 2-Methylnaphthalene                                  | 0.18   |           | ug/l  | 0.10 | 0.02 | 1               |
| Pentachlorophenol                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachlorobenzene                                    | ND     |           | ug/l  | 0.80 | 0.01 | 1               |
| Hexachloroethane                                     | ND     |           | ug/l  | 0.80 | 0.06 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

Semivolatile Organics by GC/MS-SIM - Westborough Lab

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 63         |           | 21-120              |
| Phenol-d6            | 54         |           | 10-120              |
| Nitrobenzene-d5      | 79         |           | 23-120              |
| 2-Fluorobiphenyl     | 79         |           | 15-120              |
| 2,4,6-Tribromophenol | 107        |           | 10-120              |
| 4-Terphenyl-d14      | 106        |           | 41-149              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8270D-SIM

Extraction Date: 01/23/20 08:40

Analytical Date: 01/24/20 15:21

Analyst: PS

| Parameter                                | Result     | Qualifier | Units     | RL                  | MDL  | Dilution Factor |
|------------------------------------------|------------|-----------|-----------|---------------------|------|-----------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab |            |           |           |                     |      |                 |
| 1,4-Dioxane                              | 560.       |           | ng/l      | 139                 | 31.4 | 1               |
| Surrogate                                | % Recovery |           | Qualifier | Acceptance Criteria |      |                 |
| 1,4-Dioxane-d8                           | 52         |           |           | 15-110              |      |                 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: ALPHA 23528

Analytical Method: 134,LCMSMS-ID

Extraction Date: 01/22/20 14:15

Analytical Date: 02/06/20 21:06

Analyst: JW

| Parameter                                                      | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 26.5   |           | ng/l  | 1.80 | 0.367 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | 4.49   |           | ng/l  | 1.80 | 0.356 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | 1.37   | J         | ng/l  | 1.80 | 0.214 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | 3.88   |           | ng/l  | 1.80 | 0.295 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | 3.77   |           | ng/l  | 1.80 | 0.202 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ng/l  | 1.80 | 0.338 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 10.9   |           | ng/l  | 1.80 | 0.212 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ng/l  | 1.80 | 1.20  | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ng/l  | 1.80 | 0.619 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | 0.313  | J         | ng/l  | 1.80 | 0.280 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | ND     |           | ng/l  | 1.80 | 0.453 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ng/l  | 1.80 | 0.273 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ng/l  | 1.80 | 1.09  | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ng/l  | 1.80 | 0.583 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ng/l  | 1.80 | 0.234 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ng/l  | 1.80 | 0.881 | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ng/l  | 1.80 | 0.522 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | ND     |           | ng/l  | 1.80 | 0.723 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ng/l  | 1.80 | 0.334 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ng/l  | 1.80 | 0.294 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ng/l  | 1.80 | 0.223 | 1               |
| PFOA/PFOS, Total                                               | 10.9   |           | ng/l  | 1.80 | 0.212 | 1               |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                                      | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |    |     |                 |

| Surrogate (Extracted Internal Standard)                                | % Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 103        |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 102        |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 90         |           | 31-159              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 72         |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 84         |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 101        |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 93         |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 242        |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 108        |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 100        |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 90         |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 218        | Q         | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 85         |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 95         |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 30         |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 89         |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 83         |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 72         |           | 33-143              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID

Extraction Method: ALPHA 23528

Analytical Date: 02/06/20 14:44

Extraction Date: 01/22/20 14:15

Analyst: JW

| Parameter                                                                                              | Result | Qualifier | Units | RL   | MDL   |
|--------------------------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1332696-1 |        |           |       |      |       |
| Perfluorobutanoic Acid (PFBA)                                                                          | ND     |           | ng/l  | 2.00 | 0.408 |
| Perfluoropentanoic Acid (PFPeA)                                                                        | ND     |           | ng/l  | 2.00 | 0.396 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                    | ND     |           | ng/l  | 2.00 | 0.238 |
| Perfluorohexanoic Acid (PFHxA)                                                                         | 0.416  | J         | ng/l  | 2.00 | 0.328 |
| Perfluoroheptanoic Acid (PFHpA)                                                                        | ND     |           | ng/l  | 2.00 | 0.225 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                   | ND     |           | ng/l  | 2.00 | 0.376 |
| Perfluorooctanoic Acid (PFOA)                                                                          | ND     |           | ng/l  | 2.00 | 0.236 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                      | 1.59   | J         | ng/l  | 2.00 | 1.33  |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                  | ND     |           | ng/l  | 2.00 | 0.688 |
| Perfluorononanoic Acid (PFNA)                                                                          | ND     |           | ng/l  | 2.00 | 0.312 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                    | ND     |           | ng/l  | 2.00 | 0.504 |
| Perfluorodecanoic Acid (PFDA)                                                                          | ND     |           | ng/l  | 2.00 | 0.304 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                      | ND     |           | ng/l  | 2.00 | 1.21  |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                              | 1.02   | J         | ng/l  | 2.00 | 0.648 |
| Perfluoroundecanoic Acid (PFUnA)                                                                       | ND     |           | ng/l  | 2.00 | 0.260 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                    | ND     |           | ng/l  | 2.00 | 0.980 |
| Perfluorooctanesulfonamide (FOSA)                                                                      | ND     |           | ng/l  | 2.00 | 0.580 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                               | 1.28   | J         | ng/l  | 2.00 | 0.804 |
| Perfluorododecanoic Acid (PFDoA)                                                                       | ND     |           | ng/l  | 2.00 | 0.372 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                     | ND     |           | ng/l  | 2.00 | 0.327 |
| Perfluorotetradecanoic Acid (PFTA)                                                                     | ND     |           | ng/l  | 2.00 | 0.248 |
| PFOA/PFOS, Total                                                                                       | ND     |           | ng/l  | 2.00 | 0.236 |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 134,LCMSMS-ID

Analytical Date: 02/06/20 14:44

Analyst: JW

Extraction Method: ALPHA 23528

Extraction Date: 01/22/20 14:15

| Parameter                                                                                              | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-04 Batch: WG1332696-1 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 112       |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 134       |           | 16-173              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 112       |           | 31-159              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 108       |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 102       |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 111       |           | 47-153              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 106       |           | 36-149              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 123       |           | 1-244               |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 104       |           | 34-146              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 110       |           | 42-146              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 96        |           | 38-144              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 149       |           | 7-170               |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 116       |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 101       |           | 40-144              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 54        |           | 1-87                |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 90        |           | 23-146              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 89        |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 81        |           | 33-143              |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 01/23/20 00:14  
 Analyst: SZ

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1332773-1 |        |           |       |     |      |
| Bis(2-chloroethyl)ether                                                                  | ND     |           | ug/l  | 2.0 | 0.50 |
| 3,3'-Dichlorobenzidine                                                                   | ND     |           | ug/l  | 5.0 | 1.6  |
| 2,4-Dinitrotoluene                                                                       | ND     |           | ug/l  | 5.0 | 1.2  |
| 2,6-Dinitrotoluene                                                                       | ND     |           | ug/l  | 5.0 | 0.93 |
| 4-Chlorophenyl phenyl ether                                                              | ND     |           | ug/l  | 2.0 | 0.49 |
| 4-Bromophenyl phenyl ether                                                               | ND     |           | ug/l  | 2.0 | 0.38 |
| Bis(2-chloroisopropyl)ether                                                              | ND     |           | ug/l  | 2.0 | 0.53 |
| Bis(2-chloroethoxy)methane                                                               | ND     |           | ug/l  | 5.0 | 0.50 |
| Hexachlorocyclopentadiene                                                                | ND     |           | ug/l  | 20  | 0.69 |
| Isophorone                                                                               | ND     |           | ug/l  | 5.0 | 1.2  |
| Nitrobenzene                                                                             | ND     |           | ug/l  | 2.0 | 0.77 |
| NDPA/DPA                                                                                 | ND     |           | ug/l  | 2.0 | 0.42 |
| n-Nitrosodi-n-propylamine                                                                | ND     |           | ug/l  | 5.0 | 0.64 |
| Bis(2-ethylhexyl)phthalate                                                               | ND     |           | ug/l  | 3.0 | 1.5  |
| Butyl benzyl phthalate                                                                   | ND     |           | ug/l  | 5.0 | 1.2  |
| Di-n-butylphthalate                                                                      | ND     |           | ug/l  | 5.0 | 0.39 |
| Di-n-octylphthalate                                                                      | ND     |           | ug/l  | 5.0 | 1.3  |
| Diethyl phthalate                                                                        | ND     |           | ug/l  | 5.0 | 0.38 |
| Dimethyl phthalate                                                                       | ND     |           | ug/l  | 5.0 | 1.8  |
| Biphenyl                                                                                 | ND     |           | ug/l  | 2.0 | 0.46 |
| 4-Chloroaniline                                                                          | ND     |           | ug/l  | 5.0 | 1.1  |
| 2-Nitroaniline                                                                           | ND     |           | ug/l  | 5.0 | 0.50 |
| 3-Nitroaniline                                                                           | ND     |           | ug/l  | 5.0 | 0.81 |
| 4-Nitroaniline                                                                           | ND     |           | ug/l  | 5.0 | 0.80 |
| Dibenzofuran                                                                             | ND     |           | ug/l  | 2.0 | 0.50 |
| 1,2,4,5-Tetrachlorobenzene                                                               | ND     |           | ug/l  | 10  | 0.44 |
| Acetophenone                                                                             | ND     |           | ug/l  | 5.0 | 0.53 |
| 2,4,6-Trichlorophenol                                                                    | ND     |           | ug/l  | 5.0 | 0.61 |
| p-Chloro-m-cresol                                                                        | ND     |           | ug/l  | 2.0 | 0.35 |



Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 01/23/20 00:14  
 Analyst: SZ

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1332773-1 |        |           |       |     |      |
| 2-Chlorophenol                                                                           | ND     |           | ug/l  | 2.0 | 0.48 |
| 2,4-Dichlorophenol                                                                       | ND     |           | ug/l  | 5.0 | 0.41 |
| 2,4-Dimethylphenol                                                                       | ND     |           | ug/l  | 5.0 | 1.8  |
| 2-Nitrophenol                                                                            | ND     |           | ug/l  | 10  | 0.85 |
| 4-Nitrophenol                                                                            | ND     |           | ug/l  | 10  | 0.67 |
| 2,4-Dinitrophenol                                                                        | ND     |           | ug/l  | 20  | 6.6  |
| 4,6-Dinitro-o-cresol                                                                     | ND     |           | ug/l  | 10  | 1.8  |
| Phenol                                                                                   | ND     |           | ug/l  | 5.0 | 0.57 |
| 2-Methylphenol                                                                           | ND     |           | ug/l  | 5.0 | 0.49 |
| 3-Methylphenol/4-Methylphenol                                                            | ND     |           | ug/l  | 5.0 | 0.48 |
| 2,4,5-Trichlorophenol                                                                    | ND     |           | ug/l  | 5.0 | 0.77 |
| Carbazole                                                                                | ND     |           | ug/l  | 2.0 | 0.49 |
| Atrazine                                                                                 | ND     |           | ug/l  | 10  | 0.76 |
| Benzaldehyde                                                                             | ND     |           | ug/l  | 5.0 | 0.53 |
| Caprolactam                                                                              | ND     |           | ug/l  | 10  | 3.3  |
| 2,3,4,6-Tetrachlorophenol                                                                | ND     |           | ug/l  | 5.0 | 0.84 |

#### Tentatively Identified Compounds

|                       |      |   |      |
|-----------------------|------|---|------|
| Total TIC Compounds   | 70.3 | J | ug/l |
| Aldol Condensates (A) | 65.8 | J | ug/l |
| Unknown               | 2.58 | J | ug/l |
| Unknown               | 1.96 | J | ug/l |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 01/23/20 00:14  
 Analyst: SZ

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                                                                | Result | Qualifier | Units | RL | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1332773-1 |        |           |       |    |     |

| Surrogate            | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------------|-----------|-----------|------------------------|
| 2-Fluorophenol       | 62        |           | 21-120                 |
| Phenol-d6            | 49        |           | 10-120                 |
| Nitrobenzene-d5      | 46        |           | 23-120                 |
| 2-Fluorobiphenyl     | 54        |           | 15-120                 |
| 2,4,6-Tribromophenol | 55        |           | 10-120                 |
| 4-Terphenyl-d14      | 60        |           | 41-149                 |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/23/20 11:21  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                                                                    | Result | Qualifier | Units | RL   | MDL  |
|----------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG1332774-1 |        |           |       |      |      |
| Acenaphthene                                                                                 | ND     |           | ug/l  | 0.10 | 0.01 |
| 2-Chloronaphthalene                                                                          | ND     |           | ug/l  | 0.20 | 0.02 |
| Fluoranthene                                                                                 | ND     |           | ug/l  | 0.10 | 0.02 |
| Hexachlorobutadiene                                                                          | ND     |           | ug/l  | 0.50 | 0.05 |
| Naphthalene                                                                                  | ND     |           | ug/l  | 0.10 | 0.05 |
| Benzo(a)anthracene                                                                           | ND     |           | ug/l  | 0.10 | 0.02 |
| Benzo(a)pyrene                                                                               | ND     |           | ug/l  | 0.10 | 0.02 |
| Benzo(b)fluoranthene                                                                         | ND     |           | ug/l  | 0.10 | 0.01 |
| Benzo(k)fluoranthene                                                                         | ND     |           | ug/l  | 0.10 | 0.01 |
| Chrysene                                                                                     | ND     |           | ug/l  | 0.10 | 0.01 |
| Acenaphthylene                                                                               | ND     |           | ug/l  | 0.10 | 0.01 |
| Anthracene                                                                                   | ND     |           | ug/l  | 0.10 | 0.01 |
| Benzo(ghi)perylene                                                                           | ND     |           | ug/l  | 0.10 | 0.01 |
| Fluorene                                                                                     | ND     |           | ug/l  | 0.10 | 0.01 |
| Phenanthrene                                                                                 | ND     |           | ug/l  | 0.10 | 0.02 |
| Dibenzo(a,h)anthracene                                                                       | ND     |           | ug/l  | 0.10 | 0.01 |
| Indeno(1,2,3-cd)pyrene                                                                       | ND     |           | ug/l  | 0.10 | 0.01 |
| Pyrene                                                                                       | ND     |           | ug/l  | 0.10 | 0.02 |
| 2-Methylnaphthalene                                                                          | ND     |           | ug/l  | 0.10 | 0.02 |
| Pentachlorophenol                                                                            | ND     |           | ug/l  | 0.80 | 0.01 |
| Hexachlorobenzene                                                                            | ND     |           | ug/l  | 0.80 | 0.01 |
| Hexachloroethane                                                                             | ND     |           | ug/l  | 0.80 | 0.06 |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/23/20 11:21  
 Analyst: DV

Extraction Method: EPA 3510C  
 Extraction Date: 01/22/20 15:24

| Parameter                                                                                    | Result | Qualifier | Units | RL | MDL |
|----------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-04 Batch: WG1332774-1 |        |           |       |    |     |

| Surrogate            | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------------|-----------|-----------|------------------------|
| 2-Fluorophenol       | 54        |           | 21-120                 |
| Phenol-d6            | 46        |           | 10-120                 |
| Nitrobenzene-d5      | 72        |           | 23-120                 |
| 2-Fluorobiphenyl     | 71        |           | 15-120                 |
| 2,4,6-Tribromophenol | 55        |           | 10-120                 |
| 4-Terphenyl-d14      | 87        |           | 41-149                 |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM  
 Analytical Date: 01/24/20 11:16  
 Analyst: PS

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 08:40

| Parameter                                                                        | Result | Qualifier | Units | RL  | MDL  |
|----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-04 Batch: WG1332995-1 |        |           |       |     |      |
| 1,4-Dioxane                                                                      | ND     |           | ng/l  | 150 | 33.9 |

| Surrogate      | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 49        |           | 15-110                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1332696-2 WG1332696-3 |                  |      |                   |      |                     |     |      |               |
| Perfluorobutanoic Acid (PFBA)                                                                                             | 99               |      | 100               |      | 67-148              | 1   |      | 30            |
| Perfluoropentanoic Acid (PFPeA)                                                                                           | 103              |      | 104               |      | 63-161              | 1   |      | 30            |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                       | 92               |      | 91                |      | 65-157              | 1   |      | 30            |
| Perfluorohexanoic Acid (PFHxA)                                                                                            | 100              |      | 100               |      | 69-168              | 0   |      | 30            |
| Perfluoroheptanoic Acid (PFHpA)                                                                                           | 100              |      | 99                |      | 58-159              | 1   |      | 30            |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                      | 92               |      | 98                |      | 69-177              | 6   |      | 30            |
| Perfluorooctanoic Acid (PFOA)                                                                                             | 103              |      | 102               |      | 63-159              | 1   |      | 30            |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                         | 107              |      | 114               |      | 49-187              | 6   |      | 30            |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                     | 96               |      | 104               |      | 61-179              | 8   |      | 30            |
| Perfluorononanoic Acid (PFNA)                                                                                             | 101              |      | 102               |      | 68-171              | 1   |      | 30            |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                       | 94               |      | 102               |      | 52-151              | 8   |      | 30            |
| Perfluorodecanoic Acid (PFDA)                                                                                             | 100              |      | 100               |      | 63-171              | 0   |      | 30            |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                         | 114              |      | 106               |      | 56-173              | 7   |      | 30            |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                 | 103              |      | 107               |      | 60-166              | 4   |      | 30            |
| Perfluoroundecanoic Acid (PFUnA)                                                                                          | 99               |      | 105               |      | 60-153              | 6   |      | 30            |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                       | 100              |      | 93                |      | 38-156              | 7   |      | 30            |
| Perfluorooctanesulfonamide (FOSA)                                                                                         | 101              |      | 94                |      | 46-170              | 7   |      | 30            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                  | 105              |      | 95                |      | 45-170              | 10  |      | 30            |
| Perfluorododecanoic Acid (PFDoA)                                                                                          | 103              |      | 100               |      | 67-153              | 3   |      | 30            |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                        | 105              |      | 108               |      | 48-158              | 3   |      | 30            |
| Perfluorotetradecanoic Acid (PFTA)                                                                                        | 111              |      | 109               |      | 59-182              | 2   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

| Parameter                                                                                                                 | LCS<br>%Recovery | Qual | LCS<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 Batch: WG1332696-2 WG1332696-3 |                  |      |                  |      |                     |     |      |               |

| Surrogate (Extracted Internal Standard)                                | LCS<br>%Recovery | Qual | LCS<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------------------------------------------------------|------------------|------|------------------|------|------------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 108              |      | 110              |      | 2-156                  |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 124              |      | 126              |      | 16-173                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 104              |      | 101              |      | 31-159                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 103              |      | 102              |      | 21-145                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 106              |      | 103              |      | 30-139                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 114              |      | 106              |      | 47-153                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 107              |      | 105              |      | 36-149                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 118              |      | 116              |      | 1-244                  |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 109              |      | 106              |      | 34-146                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 105              |      | 98               |      | 42-146                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 99               |      | 101              |      | 38-144                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 118              |      | 127              |      | 7-170                  |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 97               |      | 98               |      | 1-181                  |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 106              |      | 107              |      | 40-144                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 54               |      | 57               |      | 1-87                   |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 86               |      | 91               |      | 23-146                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 100              |      | 102              |      | 24-161                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 88               |      | 90               |      | 33-143                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1332773-2 WG1332773-3 |                  |      |                   |      |                     |     |      |               |
| Bis(2-chloroethyl)ether                                                                                     | 72               |      | 84                |      | 40-140              | 15  |      | 30            |
| 3,3'-Dichlorobenzidine                                                                                      | 40               |      | 50                |      | 40-140              | 22  |      | 30            |
| 2,4-Dinitrotoluene                                                                                          | 62               |      | 68                |      | 48-143              | 9   |      | 30            |
| 2,6-Dinitrotoluene                                                                                          | 57               |      | 70                |      | 40-140              | 20  |      | 30            |
| 4-Chlorophenyl phenyl ether                                                                                 | 66               |      | 73                |      | 40-140              | 10  |      | 30            |
| 4-Bromophenyl phenyl ether                                                                                  | 65               |      | 73                |      | 40-140              | 12  |      | 30            |
| Bis(2-chloroisopropyl)ether                                                                                 | 70               |      | 79                |      | 40-140              | 12  |      | 30            |
| Bis(2-chloroethoxy)methane                                                                                  | 66               |      | 78                |      | 40-140              | 17  |      | 30            |
| Hexachlorocyclopentadiene                                                                                   | 52               |      | 62                |      | 40-140              | 18  |      | 30            |
| Isophorone                                                                                                  | 63               |      | 72                |      | 40-140              | 13  |      | 30            |
| Nitrobenzene                                                                                                | 62               |      | 75                |      | 40-140              | 19  |      | 30            |
| NDPA/DPA                                                                                                    | 65               |      | 72                |      | 40-140              | 10  |      | 30            |
| n-Nitrosodi-n-propylamine                                                                                   | 66               |      | 76                |      | 29-132              | 14  |      | 30            |
| Bis(2-ethylhexyl)phthalate                                                                                  | 56               |      | 65                |      | 40-140              | 15  |      | 30            |
| Butyl benzyl phthalate                                                                                      | 57               |      | 62                |      | 40-140              | 8   |      | 30            |
| Di-n-butylphthalate                                                                                         | 56               |      | 62                |      | 40-140              | 10  |      | 30            |
| Di-n-octylphthalate                                                                                         | 60               |      | 65                |      | 40-140              | 8   |      | 30            |
| Diethyl phthalate                                                                                           | 59               |      | 65                |      | 40-140              | 10  |      | 30            |
| Dimethyl phthalate                                                                                          | 58               |      | 66                |      | 40-140              | 13  |      | 30            |
| Biphenyl                                                                                                    | 65               |      | 75                |      | 40-140              | 14  |      | 30            |
| 4-Chloroaniline                                                                                             | 29               | Q    | 40                |      | 40-140              | 32  | Q    | 30            |
| 2-Nitroaniline                                                                                              | 54               |      | 65                |      | 52-143              | 18  |      | 30            |
| 3-Nitroaniline                                                                                              | 45               |      | 60                |      | 25-145              | 29  |      | 30            |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1332773-2 WG1332773-3 |                  |      |                   |      |                     |     |      |               |
| 4-Nitroaniline                                                                                              | 46               | Q    | 53                |      | 51-143              | 14  |      | 30            |
| Dibenzofuran                                                                                                | 67               |      | 76                |      | 40-140              | 13  |      | 30            |
| 1,2,4,5-Tetrachlorobenzene                                                                                  | 63               |      | 73                |      | 2-134               | 15  |      | 30            |
| Acetophenone                                                                                                | 65               |      | 76                |      | 39-129              | 16  |      | 30            |
| 2,4,6-Trichlorophenol                                                                                       | 61               |      | 70                |      | 30-130              | 14  |      | 30            |
| p-Chloro-m-cresol                                                                                           | 63               |      | 74                |      | 23-97               | 16  |      | 30            |
| 2-Chlorophenol                                                                                              | 72               |      | 82                |      | 27-123              | 13  |      | 30            |
| 2,4-Dichlorophenol                                                                                          | 70               |      | 82                |      | 30-130              | 16  |      | 30            |
| 2,4-Dimethylphenol                                                                                          | 43               |      | 54                |      | 30-130              | 23  |      | 30            |
| 2-Nitrophenol                                                                                               | 67               |      | 78                |      | 30-130              | 15  |      | 30            |
| 4-Nitrophenol                                                                                               | 59               |      | 64                |      | 10-80               | 8   |      | 30            |
| 2,4-Dinitrophenol                                                                                           | 65               |      | 79                |      | 20-130              | 19  |      | 30            |
| 4,6-Dinitro-o-cresol                                                                                        | 66               |      | 73                |      | 20-164              | 10  |      | 30            |
| Phenol                                                                                                      | 52               |      | 63                |      | 12-110              | 19  |      | 30            |
| 2-Methylphenol                                                                                              | 63               |      | 78                |      | 30-130              | 21  |      | 30            |
| 3-Methylphenol/4-Methylphenol                                                                               | 67               |      | 80                |      | 30-130              | 18  |      | 30            |
| 2,4,5-Trichlorophenol                                                                                       | 62               |      | 74                |      | 30-130              | 18  |      | 30            |
| Carbazole                                                                                                   | 67               |      | 74                |      | 55-144              | 10  |      | 30            |
| Atrazine                                                                                                    | 64               |      | 72                |      | 40-140              | 12  |      | 30            |
| Benzaldehyde                                                                                                | 66               |      | 78                |      | 40-140              | 17  |      | 30            |
| Caprolactam                                                                                                 | 32               |      | 37                |      | 10-130              | 14  |      | 30            |
| 2,3,4,6-Tetrachlorophenol                                                                                   | 66               |      | 75                |      | 40-140              | 13  |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| <b>Parameter</b>                                                                                            | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|-------------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1332773-2 WG1332773-3 |                          |             |                           |             |                             |            |             |                       |

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 64                       |             | 73                        |             | 21-120                         |
| Phenol-d6            | 50                       |             | 60                        |             | 10-120                         |
| Nitrobenzene-d5      | 48                       |             | 57                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 49                       |             | 56                        |             | 15-120                         |
| 2,4,6-Tribromophenol | 66                       |             | 72                        |             | 10-120                         |
| 4-Terphenyl-d14      | 55                       |             | 63                        |             | 41-149                         |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1332774-2 WG1332774-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                                    | 91               |      | 82                |      | 40-140              | 10  |      | 40            |
| 2-Chloronaphthalene                                                                                             | 86               |      | 79                |      | 40-140              | 8   |      | 40            |
| Fluoranthene                                                                                                    | 93               |      | 82                |      | 40-140              | 13  |      | 40            |
| Hexachlorobutadiene                                                                                             | 84               |      | 80                |      | 40-140              | 5   |      | 40            |
| Naphthalene                                                                                                     | 85               |      | 80                |      | 40-140              | 6   |      | 40            |
| Benzo(a)anthracene                                                                                              | 90               |      | 83                |      | 40-140              | 8   |      | 40            |
| Benzo(a)pyrene                                                                                                  | 102              |      | 91                |      | 40-140              | 11  |      | 40            |
| Benzo(b)fluoranthene                                                                                            | 100              |      | 91                |      | 40-140              | 9   |      | 40            |
| Benzo(k)fluoranthene                                                                                            | 105              |      | 90                |      | 40-140              | 15  |      | 40            |
| Chrysene                                                                                                        | 91               |      | 78                |      | 40-140              | 15  |      | 40            |
| Acenaphthylene                                                                                                  | 87               |      | 78                |      | 40-140              | 11  |      | 40            |
| Anthracene                                                                                                      | 98               |      | 86                |      | 40-140              | 13  |      | 40            |
| Benzo(ghi)perylene                                                                                              | 105              |      | 93                |      | 40-140              | 12  |      | 40            |
| Fluorene                                                                                                        | 93               |      | 82                |      | 40-140              | 13  |      | 40            |
| Phenanthrene                                                                                                    | 91               |      | 80                |      | 40-140              | 13  |      | 40            |
| Dibenzo(a,h)anthracene                                                                                          | 107              |      | 95                |      | 40-140              | 12  |      | 40            |
| Indeno(1,2,3-cd)pyrene                                                                                          | 104              |      | 93                |      | 40-140              | 11  |      | 40            |
| Pyrene                                                                                                          | 92               |      | 82                |      | 40-140              | 11  |      | 40            |
| 2-Methylnaphthalene                                                                                             | 87               |      | 80                |      | 40-140              | 8   |      | 40            |
| Pentachlorophenol                                                                                               | 84               |      | 78                |      | 40-140              | 7   |      | 40            |
| Hexachlorobenzene                                                                                               | 87               |      | 77                |      | 40-140              | 12  |      | 40            |
| Hexachloroethane                                                                                                | 77               |      | 73                |      | 40-140              | 5   |      | 40            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| <b>Parameter</b>                                                                                                | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|-----------------------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 Batch: WG1332774-2 WG1332774-3 |                          |             |                           |             |                             |            |             |                       |

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 71                       |             | 65                        |             | 21-120                         |
| Phenol-d6            | 60                       |             | 54                        |             | 10-120                         |
| Nitrobenzene-d5      | 84                       |             | 78                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 85                       |             | 77                        |             | 15-120                         |
| 2,4,6-Tribromophenol | 92                       |             | 77                        |             | 10-120                         |
| 4-Terphenyl-d14      | 101                      |             | 90                        |             | 41-149                         |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| <b>Parameter</b>                                                                                    | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|-----------------------------------------------------------------------------------------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-04 Batch: WG1332995-2 WG1332995-3 |                          |             |                           |             |                             |            |             |                       |
| 1,4-Dioxane                                                                                         | 103                      |             | 107                       |             | 40-140                      | 4          |             | 30                    |

| <b>Surrogate</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,4-Dioxane-d8   | 50                       |             | 52                        |             | 15-110                         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                                        | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1332696-4 WG1332696-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Perfluorobutanoic Acid (PFBA)                                                                                                                                                    | 19.4          | 35       | 65.4     | 132          |      | 63.6      | 125           |      | 67-148          | 3   |      | 30         |
| Perfluoropentanoic Acid (PFPeA)                                                                                                                                                  | 3.63          | 35       | 43.9     | 115          |      | 42.3      | 109           |      | 63-161          | 4   |      | 30         |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                                                                              | 1.47J         | 31       | 31.4     | 101          |      | 30.9      | 98            |      | 65-157          | 2   |      | 30         |
| Perfluorohexanoic Acid (PFHxA)                                                                                                                                                   | 3.65          | 35       | 42.5     | 111          |      | 40.5      | 104           |      | 69-168          | 5   |      | 30         |
| Perfluoroheptanoic Acid (PFHpA)                                                                                                                                                  | 3.58          | 35       | 43.2     | 113          |      | 42.3      | 109           |      | 58-159          | 2   |      | 30         |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                                                                             | ND            | 31.9     | 39.3     | 123          |      | 37.2      | 115           |      | 69-177          | 5   |      | 30         |
| Perfluorooctanoic Acid (PFOA)                                                                                                                                                    | 9.47          | 35       | 49.3     | 114          |      | 49.2      | 112           |      | 63-159          | 0   |      | 30         |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                                                                                | ND            | 33.2     | 45.1     | 136          |      | 40.5      | 120           |      | 49-187          | 11  |      | 30         |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                                                                            | ND            | 33.2     | 37.0     | 111          |      | 36.6      | 109           |      | 61-179          | 1   |      | 30         |
| Perfluorononanoic Acid (PFNA)                                                                                                                                                    | 0.334J        | 35       | 39.9     | 114          |      | 37.6      | 106           |      | 68-171          | 6   |      | 30         |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                                                                              | 1.41J         | 32.4     | 37.4     | 116          |      | 43.7      | 133           |      | 52-151          | 16  |      | 30         |
| Perfluorodecanoic Acid (PFDA)                                                                                                                                                    | ND            | 35       | 38.4     | 110          |      | 38.3      | 108           |      | 63-171          | 0   |      | 30         |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                                                                                | ND            | 33.6     | 38.9     | 116          |      | 43.3      | 127           |      | 56-173          | 11  |      | 30         |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                                                                                        | ND            | 35       | 41.8     | 120          |      | 38.6      | 109           |      | 60-166          | 8   |      | 30         |
| Perfluoroundecanoic Acid (PFUnA)                                                                                                                                                 | ND            | 35       | 36.6     | 105          |      | 36.5      | 103           |      | 60-153          | 0   |      | 30         |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                                                                              | ND            | 33.8     | 37.3     | 110          |      | 28.4      | 83            |      | 38-156          | 27  |      | 30         |
| Perfluorooctanesulfonamide (FOSA)                                                                                                                                                | ND            | 35       | 35.0     | 100          |      | 35.6      | 100           |      | 46-170          | 2   |      | 30         |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                                                                                         | ND            | 35       | 39.8     | 114          |      | 36.6      | 103           |      | 45-170          | 8   |      | 30         |
| Perfluorododecanoic Acid (PFDoA)                                                                                                                                                 | ND            | 35       | 40.8     | 117          |      | 36.5      | 103           |      | 67-153          | 11  |      | 30         |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                                                                               | ND            | 35       | 41.9     | 120          |      | 38.4      | 108           |      | 48-158          | 9   |      | 30         |
| Perfluorotetradecanoic Acid (PFTA)                                                                                                                                               | ND            | 35       | 41.2     | 118          |      | 38.2      | 108           |      | 59-182          | 8   |      | 30         |

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| Parameter                                                                                                                                                                        | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1332696-4 WG1332696-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |

| Surrogate (Extracted Internal Standard)                                | MS         |           | MSD        |           | Acceptance Criteria |
|------------------------------------------------------------------------|------------|-----------|------------|-----------|---------------------|
|                                                                        | % Recovery | Qualifier | % Recovery | Qualifier |                     |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 276        | Q         | 215        | Q         | 7-170               |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 241        |           | 239        |           | 1-244               |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 105        |           | 94         |           | 23-146              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 96         |           | 89         |           | 1-181               |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 111        |           | 100        |           | 40-144              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 97         |           | 93         |           | 38-144              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 75         |           | 72         |           | 21-145              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 88         |           | 83         |           | 30-139              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 110        |           | 98         |           | 47-153              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 95         |           | 87         |           | 24-161              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 85         |           | 78         |           | 33-143              |
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 98         |           | 94         |           | 2-156               |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 97         |           | 94         |           | 16-173              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 38         |           | 35         |           | 1-87                |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 112        |           | 97         |           | 42-146              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 102        |           | 96         |           | 36-149              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 113        |           | 107        |           | 34-146              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 104        |           | 89         |           | 31-159              |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                          | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332773-4 WG1332773-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Bis(2-chloroethyl)ether                                                                                                                                            | ND            | 18.2     | 15       | 83           |      | 14        | 77            |      | 40-140          | 7   |      | 30         |
| 3,3'-Dichlorobenzidine                                                                                                                                             | ND            | 18.2     | 7.2      | 40           |      | 6.4       | 35            | Q    | 40-140          | 12  |      | 30         |
| 2,4-Dinitrotoluene                                                                                                                                                 | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 48-143          | 6   |      | 30         |
| 2,6-Dinitrotoluene                                                                                                                                                 | ND            | 18.2     | 18       | 99           |      | 16        | 88            |      | 40-140          | 12  |      | 30         |
| 4-Chlorophenyl phenyl ether                                                                                                                                        | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 40-140          | 6   |      | 30         |
| 4-Bromophenyl phenyl ether                                                                                                                                         | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 30         |
| Bis(2-chloroisopropyl)ether                                                                                                                                        | ND            | 18.2     | 15       | 83           |      | 14        | 77            |      | 40-140          | 7   |      | 30         |
| Bis(2-chloroethoxy)methane                                                                                                                                         | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 40-140          | 6   |      | 30         |
| Hexachlorocyclopentadiene                                                                                                                                          | ND            | 18.2     | 16.J     | 88           |      | 15.J      | 83            |      | 40-140          | 6   |      | 30         |
| Isophorone                                                                                                                                                         | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 40-140          | 0   |      | 30         |
| Nitrobenzene                                                                                                                                                       | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 40-140          | 6   |      | 30         |
| NDPA/DPA                                                                                                                                                           | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 30         |
| n-Nitrosodi-n-propylamine                                                                                                                                          | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 29-132          | 6   |      | 30         |
| Bis(2-ethylhexyl)phthalate                                                                                                                                         | 1.8J          | 18.2     | 18       | 99           |      | 18        | 99            |      | 40-140          | 0   |      | 30         |
| Butyl benzyl phthalate                                                                                                                                             | ND            | 18.2     | 19       | 100          |      | 18        | 99            |      | 40-140          | 5   |      | 30         |
| Di-n-butylphthalate                                                                                                                                                | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 40-140          | 6   |      | 30         |
| Di-n-octylphthalate                                                                                                                                                | ND            | 18.2     | 20       | 110          |      | 18        | 99            |      | 40-140          | 11  |      | 30         |
| Diethyl phthalate                                                                                                                                                  | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 40-140          | 6   |      | 30         |
| Dimethyl phthalate                                                                                                                                                 | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 30         |
| Biphenyl                                                                                                                                                           | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 40-140          | 0   |      | 30         |
| 4-Chloroaniline                                                                                                                                                    | ND            | 18.2     | 13       | 72           |      | 15        | 83            |      | 40-140          | 14  |      | 30         |
| 2-Nitroaniline                                                                                                                                                     | ND            | 18.2     | 18       | 99           |      | 18        | 99            |      | 52-143          | 0   |      | 30         |
| 3-Nitroaniline                                                                                                                                                     | ND            | 18.2     | 12       | 66           |      | 11        | 61            |      | 25-145          | 9   |      | 30         |



# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                          | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332773-4 WG1332773-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| 4-Nitroaniline                                                                                                                                                     | ND            | 18.2     | 15       | 83           |      | 14        | 77            |      | 51-143          | 7   |      | 30         |
| Dibenzofuran                                                                                                                                                       | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 40-140          | 6   |      | 30         |
| 1,2,4,5-Tetrachlorobenzene                                                                                                                                         | ND            | 18.2     | 15       | 83           |      | 15        | 83            |      | 2-134           | 0   |      | 30         |
| Acetophenone                                                                                                                                                       | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 39-129          | 6   |      | 30         |
| 2,4,6-Trichlorophenol                                                                                                                                              | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 30-130          | 6   |      | 30         |
| p-Chloro-m-cresol                                                                                                                                                  | ND            | 18.2     | 19       | 100          | Q    | 18        | 99            | Q    | 23-97           | 5   |      | 30         |
| 2-Chlorophenol                                                                                                                                                     | ND            | 18.2     | 15       | 83           |      | 15        | 83            |      | 27-123          | 0   |      | 30         |
| 2,4-Dichlorophenol                                                                                                                                                 | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 30-130          | 6   |      | 30         |
| 2,4-Dimethylphenol                                                                                                                                                 | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 30-130          | 6   |      | 30         |
| 2-Nitrophenol                                                                                                                                                      | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 30-130          | 0   |      | 30         |
| 4-Nitrophenol                                                                                                                                                      | ND            | 18.2     | 16       | 88           | Q    | 16        | 88            | Q    | 10-80           | 0   |      | 30         |
| 2,4-Dinitrophenol                                                                                                                                                  | ND            | 18.2     | 23       | 130          |      | 23        | 130           |      | 20-130          | 0   |      | 30         |
| 4,6-Dinitro-o-cresol                                                                                                                                               | ND            | 18.2     | 21       | 120          |      | 20        | 110           |      | 20-164          | 5   |      | 30         |
| Phenol                                                                                                                                                             | ND            | 18.2     | 12       | 66           |      | 11        | 61            |      | 12-110          | 9   |      | 30         |
| 2-Methylphenol                                                                                                                                                     | ND            | 18.2     | 15       | 83           |      | 15        | 83            |      | 30-130          | 0   |      | 30         |
| 3-Methylphenol/4-Methylphenol                                                                                                                                      | 1.6J          | 18.2     | 18       | 99           |      | 17        | 94            |      | 30-130          | 6   |      | 30         |
| 2,4,5-Trichlorophenol                                                                                                                                              | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 30-130          | 0   |      | 30         |
| Carbazole                                                                                                                                                          | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 55-144          | 6   |      | 30         |
| Atrazine                                                                                                                                                           | ND            | 18.2     | 20       | 110          |      | 19        | 100           |      | 40-140          | 5   |      | 30         |
| Benzaldehyde                                                                                                                                                       | ND            | 18.2     | 16       | 88           |      | 15        | 83            |      | 40-140          | 6   |      | 30         |
| Caprolactam                                                                                                                                                        | ND            | 18.2     | 9.7J     | 53           |      | 10        | 55            |      | 10-130          | 3   |      | 30         |
| 2,3,4,6-Tetrachlorophenol                                                                                                                                          | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 40-140          | 6   |      | 30         |

**Matrix Spike Analysis****Batch Quality Control****Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20

| <b>Parameter</b> | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> |
|------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
|------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332773-4 WG1332773-5 QC Sample: L2002906-01 Client ID: BW-01-01202020

| <b>Surrogate</b>     | <b>MS % Recovery</b> | <b>Qualifier</b> | <b>MSD % Recovery</b> | <b>Qualifier</b> | <b>Acceptance Criteria</b> |
|----------------------|----------------------|------------------|-----------------------|------------------|----------------------------|
| 2,4,6-Tribromophenol | 110                  |                  | 108                   |                  | 10-120                     |
| 2-Fluorobiphenyl     | 68                   |                  | 65                    |                  | 15-120                     |
| 2-Fluorophenol       | 68                   |                  | 69                    |                  | 21-120                     |
| 4-Terphenyl-d14      | 77                   |                  | 73                    |                  | 41-149                     |
| Nitrobenzene-d5      | 72                   |                  | 69                    |                  | 23-120                     |
| Phenol-d6            | 59                   |                  | 58                    |                  | 10-120                     |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                              | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332774-4 WG1332774-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Acenaphthene                                                                                                                                                           | 0.10J         | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 40         |
| 2-Chloronaphthalene                                                                                                                                                    | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 40-140          | 0   |      | 40         |
| Fluoranthene                                                                                                                                                           | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 40-140          | 6   |      | 40         |
| Hexachlorobutadiene                                                                                                                                                    | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 40-140          | 0   |      | 40         |
| Naphthalene                                                                                                                                                            | 0.25          | 18.2     | 16       | 87           |      | 16        | 87            |      | 40-140          | 0   |      | 40         |
| Benzo(a)anthracene                                                                                                                                                     | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 40         |
| Benzo(a)pyrene                                                                                                                                                         | ND            | 18.2     | 20       | 110          |      | 19        | 100           |      | 40-140          | 5   |      | 40         |
| Benzo(b)fluoranthene                                                                                                                                                   | ND            | 18.2     | 20       | 110          |      | 19        | 100           |      | 40-140          | 5   |      | 40         |
| Benzo(k)fluoranthene                                                                                                                                                   | ND            | 18.2     | 19       | 100          |      | 19        | 100           |      | 40-140          | 0   |      | 40         |
| Chrysene                                                                                                                                                               | ND            | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 40         |
| Acenaphthylene                                                                                                                                                         | 0.02J         | 18.2     | 16       | 88           |      | 15        | 83            |      | 40-140          | 6   |      | 40         |
| Anthracene                                                                                                                                                             | 0.02J         | 18.2     | 18       | 99           |      | 18        | 99            |      | 40-140          | 0   |      | 40         |
| Benzo(ghi)perylene                                                                                                                                                     | ND            | 18.2     | 20       | 110          |      | 20        | 110           |      | 40-140          | 0   |      | 40         |
| Fluorene                                                                                                                                                               | 0.13          | 18.2     | 18       | 98           |      | 17        | 93            |      | 40-140          | 6   |      | 40         |
| Phenanthrene                                                                                                                                                           | 0.08J         | 18.2     | 17       | 94           |      | 16        | 88            |      | 40-140          | 6   |      | 40         |
| Dibenzo(a,h)anthracene                                                                                                                                                 | ND            | 18.2     | 21       | 120          |      | 21        | 120           |      | 40-140          | 0   |      | 40         |
| Indeno(1,2,3-cd)pyrene                                                                                                                                                 | ND            | 18.2     | 21       | 120          |      | 21        | 120           |      | 40-140          | 0   |      | 40         |
| Pyrene                                                                                                                                                                 | ND            | 18.2     | 18       | 99           |      | 17        | 94            |      | 40-140          | 6   |      | 40         |
| 2-Methylnaphthalene                                                                                                                                                    | 0.20          | 18.2     | 16       | 87           |      | 16        | 87            |      | 40-140          | 0   |      | 40         |
| Pentachlorophenol                                                                                                                                                      | ND            | 18.2     | 22       | 120          |      | 22        | 120           |      | 40-140          | 0   |      | 40         |
| Hexachlorobenzene                                                                                                                                                      | ND            | 18.2     | 16       | 88           |      | 16        | 88            |      | 40-140          | 0   |      | 40         |
| Hexachloroethane                                                                                                                                                       | ND            | 18.2     | 14       | 77           |      | 14        | 77            |      | 40-140          | 0   |      | 40         |

**Matrix Spike Analysis****Batch Quality Control****Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20

| <b>Parameter</b>                                                                                                                                                       | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332774-4 WG1332774-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |                      |                 |                 |                     |             |                  |                      |             |                        |            |             |                   |

| <b>Surrogate</b>     | <b>MS % Recovery</b> |  | <b>Qualifier</b> | <b>MSD % Recovery</b> |  | <b>Qualifier</b> | <b>Acceptance Criteria</b> |
|----------------------|----------------------|--|------------------|-----------------------|--|------------------|----------------------------|
| 2,4,6-Tribromophenol | 106                  |  |                  | 104                   |  |                  | 10-120                     |
| 2-Fluorobiphenyl     | 83                   |  |                  | 82                    |  |                  | 15-120                     |
| 2-Fluorophenol       | 73                   |  |                  | 74                    |  |                  | 21-120                     |
| 4-Terphenyl-d14      | 101                  |  |                  | 98                    |  |                  | 41-149                     |
| Nitrobenzene-d5      | 84                   |  |                  | 84                    |  |                  | 23-120                     |
| Phenol-d6            | 63                   |  |                  | 63                    |  |                  | 10-120                     |

| <b>Parameter</b>                                                                                                                                           | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1332995-4 WG1332995-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |                      |                 |                 |                     |             |                  |                      |             |                        |            |             |                   |
| 1,4-Dioxane                                                                                                                                                | 529                  | 4630            | 5460            | 107                 |             | 5710             | 112                  |             | 40-140                 | 4          |             | 30                |

| <b>Surrogate</b> | <b>MS % Recovery</b> |  | <b>Qualifier</b> | <b>MSD % Recovery</b> |  | <b>Qualifier</b> | <b>Acceptance Criteria</b> |
|------------------|----------------------|--|------------------|-----------------------|--|------------------|----------------------------|
| 1,4-Dioxane-d8   | 48                   |  |                  | 42                    |  |                  | 15-110                     |

# PCBS

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**SAMPLE RESULTS**

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 01/24/20 23:04  
 Analyst: CW

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/23/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/23/20

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Aroclor 1016                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/l  | 0.083 | 0.067 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/l  | 0.083 | 0.046 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/l  | 0.083 | 0.049 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/l  | 0.083 | 0.035 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 106        |           | 30-150              | A      |
| Decachlorobiphenyl           | 78         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 108        |           | 30-150              | B      |
| Decachlorobiphenyl           | 112        |           | 30-150              | B      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 01/24/20 23:45  
 Analyst: CW

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/23/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/23/20

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Aroclor 1016                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/l  | 0.083 | 0.067 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/l  | 0.083 | 0.046 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/l  | 0.083 | 0.049 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/l  | 0.083 | 0.035 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 82         |           | 30-150              | A      |
| Decachlorobiphenyl           | 74         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 83         |           | 30-150              | B      |
| Decachlorobiphenyl           | 84         |           | 30-150              | B      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8082A  
 Analytical Date: 01/24/20 23:58  
 Analyst: CW

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/23/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/23/20

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Aroclor 1016                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/l  | 0.083 | 0.067 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/l  | 0.083 | 0.046 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/l  | 0.083 | 0.049 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/l  | 0.083 | 0.035 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 88         |           | 30-150              | A      |
| Decachlorobiphenyl           | 81         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 91         |           | 30-150              | B      |
| Decachlorobiphenyl           | 91         |           | 30-150              | B      |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8082A

Extraction Date: 01/23/20 02:28

Analytical Date: 01/25/20 00:12

Cleanup Method: EPA 3665A

Analyst: CW

Cleanup Date: 01/23/20

Cleanup Method: EPA 3660B

Cleanup Date: 01/23/20

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Aroclor 1016                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/l  | 0.083 | 0.067 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/l  | 0.083 | 0.046 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/l  | 0.083 | 0.049 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/l  | 0.083 | 0.039 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/l  | 0.083 | 0.035 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/l  | 0.083 | 0.034 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/l  | 0.083 | 0.032 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 96         |           | 30-150              | A      |
| Decachlorobiphenyl           | 88         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 97         |           | 30-150              | B      |
| Decachlorobiphenyl           | 108        |           | 30-150              | B      |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A  
 Analytical Date: 01/25/20 00:39  
 Analyst: AWS

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:28  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 01/23/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 01/23/20

| Parameter                                                                                 | Result | Qualifier | Units | RL    | MDL   | Column |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-04 Batch: WG1332908-1 |        |           |       |       |       |        |
| Aroclor 1016                                                                              | ND     |           | ug/l  | 0.083 | 0.034 | A      |
| Aroclor 1221                                                                              | ND     |           | ug/l  | 0.083 | 0.067 | A      |
| Aroclor 1232                                                                              | ND     |           | ug/l  | 0.083 | 0.046 | A      |
| Aroclor 1242                                                                              | ND     |           | ug/l  | 0.083 | 0.039 | A      |
| Aroclor 1248                                                                              | ND     |           | ug/l  | 0.083 | 0.049 | A      |
| Aroclor 1254                                                                              | ND     |           | ug/l  | 0.083 | 0.039 | A      |
| Aroclor 1260                                                                              | ND     |           | ug/l  | 0.083 | 0.032 | A      |
| Aroclor 1262                                                                              | ND     |           | ug/l  | 0.083 | 0.035 | A      |
| Aroclor 1268                                                                              | ND     |           | ug/l  | 0.083 | 0.034 | A      |
| PCBs, Total                                                                               | ND     |           | ug/l  | 0.083 | 0.032 | A      |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 98        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 96        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 99        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 107       |           | 30-150                 | B      |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1332908-2 WG1332908-3 |                  |      |                   |      |                     |     |      |               |        |
| Aroclor 1016                                                                                                 | 105              |      | 105               |      | 40-140              | 0   |      | 50            | A      |
| Aroclor 1260                                                                                                 | 95               |      | 96                |      | 40-140              | 2   |      | 50            | A      |

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 102              |      | 102               |      | 30-150                 | A      |
| Decachlorobiphenyl           | 93               |      | 92                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 99               |      | 99                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 105              |      | 105               |      | 30-150                 | B      |

**Matrix Spike Analysis****Batch Quality Control****Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20

| <b>Parameter</b>                                                                                                                                                    | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> | <b>Column</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|---------------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332908-4 WG1332908-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |                      |                 |                 |                     |             |                  |                      |             |                        |            |             |                   |               |
| Aroclor 1016                                                                                                                                                        | ND                   | 1.78            | 1.75            | 98                  |             | 1.94             | 109                  |             | 40-140                 | 10         |             | 50                | A             |
| Aroclor 1260                                                                                                                                                        | ND                   | 1.78            | 1.59            | 89                  |             | 1.75             | 98                   |             | 40-140                 | 10         |             | 50                | A             |

| <b>Surrogate</b>             | <b>MS % Recovery</b> | <b>Qualifier</b> | <b>MSD % Recovery</b> | <b>Qualifier</b> | <b>Acceptance Criteria</b> | <b>Column</b> |
|------------------------------|----------------------|------------------|-----------------------|------------------|----------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 93                   |                  | 103                   |                  | 30-150                     | A             |
| Decachlorobiphenyl           | 88                   |                  | 102                   |                  | 30-150                     | A             |
| 2,4,5,6-Tetrachloro-m-xylene | 91                   |                  | 100                   |                  | 30-150                     | B             |
| Decachlorobiphenyl           | 98                   |                  | 111                   |                  | 30-150                     | B             |

# PESTICIDES

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01  
 Client ID: BW-01-01202020  
 Sample Location: Not Specified

Date Collected: 01/20/20 11:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 01/27/20 13:30  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:37

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Lindane                                           | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Aldrin                                            | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Endrin                                            | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/l  | 0.029 | 0.006 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/l  | 0.029 | 0.004 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/l  | 0.143 | 0.005 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/l  | 0.143 | 0.045 | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/l  | 0.014 | 0.005 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Chlordane                                         | ND     |           | ug/l  | 0.143 | 0.033 | 1               | A      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01

Date Collected: 01/20/20 11:40

Client ID: BW-01-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 79         |           | 30-150              | A      |
| Decachlorobiphenyl           | 75         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 81         |           | 30-150              | B      |
| Decachlorobiphenyl           | 74         |           | 30-150              | B      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02  
 Client ID: BW-02-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 12:40  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 01/24/20 04:56  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:37

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Lindane                                           | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Aldrin                                            | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Endrin                                            | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/l  | 0.029 | 0.006 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/l  | 0.029 | 0.004 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/l  | 0.143 | 0.005 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/l  | 0.143 | 0.045 | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/l  | 0.014 | 0.005 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Chlordane                                         | ND     |           | ug/l  | 0.143 | 0.033 | 1               | A      |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02

Date Collected: 01/21/20 12:40

Client ID: BW-02-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52         |           | 30-150              | A      |
| Decachlorobiphenyl           | 49         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 50         |           | 30-150              | B      |
| Decachlorobiphenyl           | 39         |           | 30-150              | B      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03  
 Client ID: BW-03-01212020  
 Sample Location: Not Specified

Date Collected: 01/21/20 09:30  
 Date Received: 01/21/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8081B  
 Analytical Date: 01/24/20 05:09  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:37

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Lindane                                           | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Aldrin                                            | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Endrin                                            | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/l  | 0.029 | 0.006 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/l  | 0.029 | 0.004 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/l  | 0.143 | 0.005 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/l  | 0.143 | 0.045 | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/l  | 0.014 | 0.005 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Chlordane                                         | ND     |           | ug/l  | 0.143 | 0.033 | 1               | A      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03

Date Collected: 01/21/20 09:30

Client ID: BW-03-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 58         |           | 30-150              | A      |
| Decachlorobiphenyl           | 52         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 53         |           | 30-150              | B      |
| Decachlorobiphenyl           | 43         |           | 30-150              | B      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Extraction Method: EPA 3510C

Analytical Method: 1,8081B

Extraction Date: 01/23/20 02:37

Analytical Date: 01/24/20 18:21

Analyst: BM

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Lindane                                           | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Aldrin                                            | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/l  | 0.014 | 0.003 | 1               | A      |
| Endrin                                            | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/l  | 0.029 | 0.006 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDE                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDD                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/l  | 0.014 | 0.002 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/l  | 0.029 | 0.004 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/l  | 0.029 | 0.003 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/l  | 0.143 | 0.005 | 1               | A      |
| Toxaphene                                         | ND     |           | ug/l  | 0.143 | 0.045 | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/l  | 0.014 | 0.005 | 1               | A      |
| trans-Chlordane                                   | ND     |           | ug/l  | 0.014 | 0.004 | 1               | A      |
| Chlordane                                         | ND     |           | ug/l  | 0.143 | 0.033 | 1               | A      |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|-----------|--------|-----------|-------|----|-----|-----------------|--------|
|-----------|--------|-----------|-------|----|-----|-----------------|--------|

## Organochlorine Pesticides by GC - Westborough Lab

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 49         |           | 30-150              | A      |
| Decachlorobiphenyl           | 45         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 49         |           | 30-150              | B      |
| Decachlorobiphenyl           | 42         |           | 30-150              | B      |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 01/24/20 04:43  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:37

| Parameter                                                                                 | Result | Qualifier | Units | RL    | MDL   | Column |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1332913-1 |        |           |       |       |       |        |
| Delta-BHC                                                                                 | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Lindane                                                                                   | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Alpha-BHC                                                                                 | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Beta-BHC                                                                                  | ND     |           | ug/l  | 0.014 | 0.004 | A      |
| Heptachlor                                                                                | ND     |           | ug/l  | 0.014 | 0.002 | A      |
| Aldrin                                                                                    | ND     |           | ug/l  | 0.014 | 0.002 | A      |
| Heptachlor epoxide                                                                        | ND     |           | ug/l  | 0.014 | 0.003 | A      |
| Endrin                                                                                    | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Endrin aldehyde                                                                           | ND     |           | ug/l  | 0.029 | 0.006 | A      |
| Endrin ketone                                                                             | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Dieldrin                                                                                  | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| 4,4'-DDE                                                                                  | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| 4,4'-DDD                                                                                  | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| 4,4'-DDT                                                                                  | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Endosulfan I                                                                              | ND     |           | ug/l  | 0.014 | 0.002 | A      |
| Endosulfan II                                                                             | ND     |           | ug/l  | 0.029 | 0.004 | A      |
| Endosulfan sulfate                                                                        | ND     |           | ug/l  | 0.029 | 0.003 | A      |
| Methoxychlor                                                                              | ND     |           | ug/l  | 0.143 | 0.005 | A      |
| Toxaphene                                                                                 | ND     |           | ug/l  | 0.143 | 0.045 | A      |
| cis-Chlordane                                                                             | ND     |           | ug/l  | 0.014 | 0.005 | A      |
| trans-Chlordane                                                                           | ND     |           | ug/l  | 0.014 | 0.004 | A      |
| Chlordane                                                                                 | ND     |           | ug/l  | 0.143 | 0.033 | A      |

Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B  
 Analytical Date: 01/24/20 04:43  
 Analyst: BM

Extraction Method: EPA 3510C  
 Extraction Date: 01/23/20 02:37

| Parameter                                                                                 | Result | Qualifier | Units | RL | MDL | Column |
|-------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1332913-1 |        |           |       |    |     |        |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 52        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 47        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 46        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 37        |           | 30-150                 | B      |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| Parameter                                                                                                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|--------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1332913-2 WG1332913-3 |                  |      |                   |      |                     |     |      |               |        |
| Delta-BHC                                                                                                    | 59               |      | 52                |      | 30-150              | 13  |      | 20            | A      |
| Lindane                                                                                                      | 55               |      | 49                |      | 30-150              | 12  |      | 20            | A      |
| Alpha-BHC                                                                                                    | 59               |      | 55                |      | 30-150              | 7   |      | 20            | A      |
| Beta-BHC                                                                                                     | 54               |      | 50                |      | 30-150              | 8   |      | 20            | A      |
| Heptachlor                                                                                                   | 54               |      | 50                |      | 30-150              | 8   |      | 20            | A      |
| Aldrin                                                                                                       | 55               |      | 50                |      | 30-150              | 10  |      | 20            | A      |
| Heptachlor epoxide                                                                                           | 58               |      | 52                |      | 30-150              | 10  |      | 20            | A      |
| Endrin                                                                                                       | 56               |      | 52                |      | 30-150              | 7   |      | 20            | A      |
| Endrin aldehyde                                                                                              | 44               |      | 43                |      | 30-150              | 3   |      | 20            | A      |
| Endrin ketone                                                                                                | 58               |      | 52                |      | 30-150              | 11  |      | 20            | A      |
| Dieldrin                                                                                                     | 59               |      | 53                |      | 30-150              | 11  |      | 20            | A      |
| 4,4'-DDE                                                                                                     | 62               |      | 55                |      | 30-150              | 12  |      | 20            | A      |
| 4,4'-DDD                                                                                                     | 64               |      | 56                |      | 30-150              | 13  |      | 20            | A      |
| 4,4'-DDT                                                                                                     | 61               |      | 54                |      | 30-150              | 12  |      | 20            | A      |
| Endosulfan I                                                                                                 | 54               |      | 49                |      | 30-150              | 10  |      | 20            | A      |
| Endosulfan II                                                                                                | 57               |      | 52                |      | 30-150              | 10  |      | 20            | A      |
| Endosulfan sulfate                                                                                           | 56               |      | 50                |      | 30-150              | 12  |      | 20            | A      |
| Methoxychlor                                                                                                 | 56               |      | 51                |      | 30-150              | 8   |      | 20            | A      |
| cis-Chlordane                                                                                                | 54               |      | 48                |      | 30-150              | 11  |      | 20            | A      |
| trans-Chlordane                                                                                              | 56               |      | 50                |      | 30-150              | 10  |      | 20            | A      |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1332913-2 WG1332913-3

| <b>Surrogate</b>             | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> | <b>Column</b> |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 54                       |             | 50                        |             | 30-150                         | A             |
| Decachlorobiphenyl           | 54                       |             | 48                        |             | 30-150                         | A             |
| 2,4,5,6-Tetrachloro-m-xylene | 49                       |             | 45                        |             | 30-150                         | B             |
| Decachlorobiphenyl           | 44                       |             | 38                        |             | 30-150                         | B             |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                                                                                           | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits | Column |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab ID: BW-01-01202020 Associated sample(s): 01-04 QC Batch ID: WG1332913-4 WG1332913-5 QC Sample: L2002906-01 Client |               |          |          |              |      |           |               |      |                 |     |      |            |        |
| Delta-BHC                                                                                                                                                           | ND            | 0.357    | 0.198    | 55           |      | 0.230     | 64            |      | 30-150          | 15  |      | 30         | A      |
| Lindane                                                                                                                                                             | ND            | 0.357    | 0.197    | 55           |      | 0.237     | 66            |      | 30-150          | 18  |      | 30         | A      |
| Alpha-BHC                                                                                                                                                           | ND            | 0.357    | 0.212    | 59           |      | 0.257     | 72            |      | 30-150          | 19  |      | 30         | A      |
| Beta-BHC                                                                                                                                                            | ND            | 0.357    | 0.197    | 55           |      | 0.235     | 66            |      | 30-150          | 18  |      | 30         | A      |
| Heptachlor                                                                                                                                                          | ND            | 0.357    | 0.186    | 52           |      | 0.234     | 66            |      | 30-150          | 23  |      | 30         | A      |
| Aldrin                                                                                                                                                              | ND            | 0.357    | 0.211    | 59           |      | 0.260     | 73            |      | 30-150          | 21  |      | 30         | A      |
| Heptachlor epoxide                                                                                                                                                  | ND            | 0.357    | 0.208    | 58           |      | 0.255     | 71            |      | 30-150          | 20  |      | 30         | A      |
| Endrin                                                                                                                                                              | ND            | 0.357    | 0.216    | 60           |      | 0.271     | 76            |      | 30-150          | 23  |      | 30         | A      |
| Endrin aldehyde                                                                                                                                                     | ND            | 0.357    | 0.173    | 48           |      | 0.216     | 60            |      | 30-150          | 22  |      | 30         | A      |
| Endrin ketone                                                                                                                                                       | ND            | 0.357    | 0.218    | 61           |      | 0.270     | 76            |      | 30-150          | 21  |      | 30         | A      |
| Dieldrin                                                                                                                                                            | ND            | 0.357    | 0.224    | 63           |      | 0.278     | 78            |      | 30-150          | 22  |      | 30         | A      |
| 4,4'-DDE                                                                                                                                                            | ND            | 0.357    | 0.225    | 63           |      | 0.278     | 78            |      | 30-150          | 21  |      | 30         | A      |
| 4,4'-DDD                                                                                                                                                            | ND            | 0.357    | 0.209    | 58           |      | 0.247     | 69            |      | 30-150          | 17  |      | 30         | A      |
| 4,4'-DDT                                                                                                                                                            | ND            | 0.357    | 0.198    | 55           |      | 0.245     | 69            |      | 30-150          | 21  |      | 30         | A      |
| Endosulfan I                                                                                                                                                        | ND            | 0.357    | 0.090    | 25           | Q    | 0.073     | 20            | Q    | 30-150          | 21  |      | 30         | A      |
| Endosulfan II                                                                                                                                                       | ND            | 0.357    | 0.051    | 14           | Q    | 0.036     | 10            | Q    | 30-150          | 34  | Q    | 30         | A      |
| Endosulfan sulfate                                                                                                                                                  | ND            | 0.357    | 0.205    | 57           |      | 0.253     | 71            |      | 30-150          | 21  |      | 30         | A      |
| Methoxychlor                                                                                                                                                        | ND            | 0.357    | 0.216    | 60           |      | 0.278     | 78            |      | 30-150          | 25  |      | 30         | A      |
| cis-Chlordane                                                                                                                                                       | ND            | 0.357    | 0.197    | 55           |      | 0.240     | 67            |      | 30-150          | 20  |      | 30         | A      |
| trans-Chlordane                                                                                                                                                     | ND            | 0.357    | 0.202    | 57           |      | 0.249     | 70            |      | 30-150          | 21  |      | 30         | A      |

**Matrix Spike Analysis****Batch Quality Control****Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20

| <b>Parameter</b>                                                                                                                                                                   | <b>Native Sample</b> | <b>MS Added</b> | <b>MS Found</b> | <b>MS %Recovery</b> | <b>Qual</b> | <b>MSD Found</b> | <b>MSD %Recovery</b> | <b>Qual</b> | <b>Recovery Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD Limits</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Organochlorine Pesticides by GC - Westborough Lab    Associated sample(s): 01-04    QC Batch ID: WG1332913-4    WG1332913-5    QC Sample: L2002906-01    Client ID: BW-01-01202020 |                      |                 |                 |                     |             |                  |                      |             |                        |            |             |                   |

| <b>Surrogate</b>             | <b>MS</b>         |                  | <b>MSD</b>        |                  | <b>Acceptance Criteria</b> | <b>Column</b> |
|------------------------------|-------------------|------------------|-------------------|------------------|----------------------------|---------------|
|                              | <b>% Recovery</b> | <b>Qualifier</b> | <b>% Recovery</b> | <b>Qualifier</b> |                            |               |
| 2,4,5,6-Tetrachloro-m-xylene | 60                |                  | 72                |                  | 30-150                     | A             |
| Decachlorobiphenyl           | 60                |                  | 74                |                  | 30-150                     | A             |
| 2,4,5,6-Tetrachloro-m-xylene | 59                |                  | 73                |                  | 30-150                     | B             |
| Decachlorobiphenyl           | 56                |                  | 73                |                  | 30-150                     | B             |

## METALS

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01

Date Collected: 01/20/20 11:40

Client ID: BW-01-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                    | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|---------|-----------|-------|---------|---------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |         |           |       |         |         |                 |                |                |             |                   |         |
| Aluminum, Total              | 0.0105  |           | mg/l  | 0.0100  | 0.00327 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Antimony, Total              | ND      |           | mg/l  | 0.00400 | 0.00042 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Arsenic, Total               | 0.00058 |           | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Barium, Total                | 0.2525  |           | mg/l  | 0.00050 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Beryllium, Total             | ND      |           | mg/l  | 0.00050 | 0.00010 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Cadmium, Total               | ND      |           | mg/l  | 0.00020 | 0.00005 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Calcium, Total               | 465.    |           | mg/l  | 0.100   | 0.0394  | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Chromium, Total              | 0.00061 | J         | mg/l  | 0.00100 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Cobalt, Total                | 0.00017 | J         | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Copper, Total                | 0.00704 |           | mg/l  | 0.00100 | 0.00038 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Iron, Total                  | 0.738   |           | mg/l  | 0.110   | 0.0191  | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Lead, Total                  | 0.00044 | J         | mg/l  | 0.00100 | 0.00034 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Magnesium, Total             | 0.620   |           | mg/l  | 0.0700  | 0.0242  | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Manganese, Total             | 0.00737 |           | mg/l  | 0.00100 | 0.00044 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Mercury, Total               | ND      |           | mg/l  | 0.00020 | 0.00009 | 1               | 01/22/20 12:54 | 01/22/20 16:53 | EPA 7470A   | 1,7470A           | AL      |
| Nickel, Total                | 0.00235 |           | mg/l  | 0.00200 | 0.00055 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Potassium, Total             | 57.0    |           | mg/l  | 0.100   | 0.0309  | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Selenium, Total              | ND      |           | mg/l  | 0.00500 | 0.00173 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Silver, Total                | ND      |           | mg/l  | 0.00040 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Sodium, Total                | 202.    |           | mg/l  | 0.100   | 0.0293  | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Thallium, Total              | ND      |           | mg/l  | 0.00100 | 0.00014 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Vanadium, Total              | ND      |           | mg/l  | 0.00500 | 0.00157 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |
| Zinc, Total                  | ND      |           | mg/l  | 0.01000 | 0.00341 | 1               | 01/22/20 14:47 | 01/22/20 22:34 | EPA 3005A   | 1,6020B           | AM      |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02

Date Collected: 01/21/20 12:40

Client ID: BW-02-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                    | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|---------|-----------|-------|---------|---------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |         |           |       |         |         |                 |                |                |             |                   |         |
| Aluminum, Total              | 0.0995  |           | mg/l  | 0.0100  | 0.00327 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Antimony, Total              | ND      |           | mg/l  | 0.00400 | 0.00042 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Arsenic, Total               | 0.00020 | J         | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Barium, Total                | 0.02484 |           | mg/l  | 0.00050 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Beryllium, Total             | ND      |           | mg/l  | 0.00050 | 0.00010 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Cadmium, Total               | ND      |           | mg/l  | 0.00020 | 0.00005 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Calcium, Total               | 54.4    |           | mg/l  | 0.100   | 0.0394  | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Chromium, Total              | 0.00067 | J         | mg/l  | 0.00100 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Cobalt, Total                | 0.00031 | J         | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Copper, Total                | 0.00083 | J         | mg/l  | 0.00100 | 0.00038 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Iron, Total                  | 5.53    |           | mg/l  | 0.110   | 0.0191  | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Lead, Total                  | 0.00045 | J         | mg/l  | 0.00100 | 0.00034 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Magnesium, Total             | 33.3    |           | mg/l  | 0.0700  | 0.0242  | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Manganese, Total             | 0.1069  |           | mg/l  | 0.00100 | 0.00044 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Mercury, Total               | ND      |           | mg/l  | 0.00020 | 0.00009 | 1               | 01/22/20 12:54 | 01/22/20 17:04 | EPA 7470A   | 1,7470A           | AL      |
| Nickel, Total                | 0.00593 |           | mg/l  | 0.00200 | 0.00055 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Potassium, Total             | 9.29    |           | mg/l  | 0.100   | 0.0309  | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Selenium, Total              | ND      |           | mg/l  | 0.00500 | 0.00173 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Silver, Total                | ND      |           | mg/l  | 0.00040 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Sodium, Total                | 42.9    |           | mg/l  | 0.100   | 0.0293  | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Thallium, Total              | ND      |           | mg/l  | 0.00100 | 0.00014 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Vanadium, Total              | ND      |           | mg/l  | 0.00500 | 0.00157 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |
| Zinc, Total                  | 0.00374 | J         | mg/l  | 0.01000 | 0.00341 | 1               | 01/22/20 14:47 | 01/22/20 22:43 | EPA 3005A   | 1,6020B           | AM      |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03

Date Collected: 01/21/20 09:30

Client ID: BW-03-01212020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                    | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|---------|-----------|-------|---------|---------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |         |           |       |         |         |                 |                |                |             |                   |         |
| Aluminum, Total              | 0.0123  |           | mg/l  | 0.0100  | 0.00327 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Antimony, Total              | ND      |           | mg/l  | 0.00400 | 0.00042 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Arsenic, Total               | ND      |           | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Barium, Total                | 0.03774 |           | mg/l  | 0.00050 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Beryllium, Total             | ND      |           | mg/l  | 0.00050 | 0.00010 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Cadmium, Total               | ND      |           | mg/l  | 0.00020 | 0.00005 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Calcium, Total               | 72.6    |           | mg/l  | 0.100   | 0.0394  | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Chromium, Total              | 0.00093 | J         | mg/l  | 0.00100 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Cobalt, Total                | 0.00029 | J         | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Copper, Total                | 0.00175 |           | mg/l  | 0.00100 | 0.00038 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Iron, Total                  | 42.8    |           | mg/l  | 0.110   | 0.0191  | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Lead, Total                  | ND      |           | mg/l  | 0.00100 | 0.00034 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Magnesium, Total             | 32.7    |           | mg/l  | 0.0700  | 0.0242  | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Manganese, Total             | 2.314   |           | mg/l  | 0.00100 | 0.00044 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Mercury, Total               | ND      |           | mg/l  | 0.00020 | 0.00009 | 1               | 01/22/20 12:54 | 01/22/20 17:10 | EPA 7470A   | 1,7470A           | AL      |
| Nickel, Total                | 0.00192 | J         | mg/l  | 0.00200 | 0.00055 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Potassium, Total             | 19.5    |           | mg/l  | 0.100   | 0.0309  | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Selenium, Total              | ND      |           | mg/l  | 0.00500 | 0.00173 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Silver, Total                | ND      |           | mg/l  | 0.00040 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Sodium, Total                | 144.    |           | mg/l  | 0.100   | 0.0293  | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Thallium, Total              | ND      |           | mg/l  | 0.00100 | 0.00014 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Vanadium, Total              | ND      |           | mg/l  | 0.00500 | 0.00157 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |
| Zinc, Total                  | ND      |           | mg/l  | 0.01000 | 0.00341 | 1               | 01/22/20 14:47 | 01/22/20 22:47 | EPA 3005A   | 1,6020B           | AM      |



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Date Collected: 01/21/20 00:00

Client ID: DUP-01

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                    | Result  | Qualifier | Units | RL      | MDL     | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|---------|-----------|-------|---------|---------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |         |           |       |         |         |                 |                |                |             |                   |         |
| Aluminum, Total              | 0.00968 | J         | mg/l  | 0.0100  | 0.00327 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Antimony, Total              | ND      |           | mg/l  | 0.00400 | 0.00042 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Arsenic, Total               | 0.00056 |           | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Barium, Total                | 0.2359  |           | mg/l  | 0.00050 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Beryllium, Total             | ND      |           | mg/l  | 0.00050 | 0.00010 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Cadmium, Total               | ND      |           | mg/l  | 0.00020 | 0.00005 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Calcium, Total               | 451.    |           | mg/l  | 0.100   | 0.0394  | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Chromium, Total              | 0.00077 | J         | mg/l  | 0.00100 | 0.00017 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Cobalt, Total                | ND      |           | mg/l  | 0.00050 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Copper, Total                | 0.00570 |           | mg/l  | 0.00100 | 0.00038 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Iron, Total                  | 0.727   |           | mg/l  | 0.110   | 0.0191  | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Lead, Total                  | 0.00037 | J         | mg/l  | 0.00100 | 0.00034 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Magnesium, Total             | 0.751   |           | mg/l  | 0.0700  | 0.0242  | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Manganese, Total             | 0.00745 |           | mg/l  | 0.00100 | 0.00044 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Mercury, Total               | ND      |           | mg/l  | 0.00020 | 0.00009 | 1               | 01/22/20 12:54 | 01/22/20 17:12 | EPA 7470A   | 1,7470A           | AL      |
| Nickel, Total                | 0.00205 |           | mg/l  | 0.00200 | 0.00055 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Potassium, Total             | 57.9    |           | mg/l  | 0.100   | 0.0309  | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Selenium, Total              | ND      |           | mg/l  | 0.00500 | 0.00173 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Silver, Total                | ND      |           | mg/l  | 0.00040 | 0.00016 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Sodium, Total                | 211.    |           | mg/l  | 0.100   | 0.0293  | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Thallium, Total              | ND      |           | mg/l  | 0.00100 | 0.00014 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Vanadium, Total              | ND      |           | mg/l  | 0.00500 | 0.00157 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |
| Zinc, Total                  | ND      |           | mg/l  | 0.01000 | 0.00341 | 1               | 01/22/20 14:47 | 01/22/20 22:52 | EPA 3005A   | 1,6020B           | AM      |





Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## Method Blank Analysis Batch Quality Control

| Parameter                                                            | Result  | Qualifier | Units | RL      | MDL     | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------|---------|-----------|-------|---------|---------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1332689-1 |         |           |       |         |         |                    |                  |                  |                      |         |
| Aluminum, Total                                                      | ND      |           | mg/l  | 0.0100  | 0.00327 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Antimony, Total                                                      | ND      |           | mg/l  | 0.00400 | 0.00042 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Arsenic, Total                                                       | ND      |           | mg/l  | 0.00050 | 0.00016 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Barium, Total                                                        | ND      |           | mg/l  | 0.00050 | 0.00017 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Beryllium, Total                                                     | ND      |           | mg/l  | 0.00050 | 0.00010 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Cadmium, Total                                                       | ND      |           | mg/l  | 0.00020 | 0.00005 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Calcium, Total                                                       | ND      |           | mg/l  | 0.100   | 0.0394  | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Chromium, Total                                                      | 0.00076 | J         | mg/l  | 0.00100 | 0.00017 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Cobalt, Total                                                        | ND      |           | mg/l  | 0.00050 | 0.00016 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Copper, Total                                                        | ND      |           | mg/l  | 0.00100 | 0.00038 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Iron, Total                                                          | 0.106   | J         | mg/l  | 0.110   | 0.0191  | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Lead, Total                                                          | ND      |           | mg/l  | 0.00100 | 0.00034 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Magnesium, Total                                                     | ND      |           | mg/l  | 0.0700  | 0.0242  | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Manganese, Total                                                     | 0.00088 | J         | mg/l  | 0.00100 | 0.00044 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Nickel, Total                                                        | ND      |           | mg/l  | 0.00200 | 0.00055 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Potassium, Total                                                     | ND      |           | mg/l  | 0.100   | 0.0309  | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Selenium, Total                                                      | ND      |           | mg/l  | 0.00500 | 0.00173 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Silver, Total                                                        | ND      |           | mg/l  | 0.00040 | 0.00016 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Sodium, Total                                                        | ND      |           | mg/l  | 0.100   | 0.0293  | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Thallium, Total                                                      | 0.00018 | J         | mg/l  | 0.00100 | 0.00014 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Vanadium, Total                                                      | ND      |           | mg/l  | 0.00500 | 0.00157 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |
| Zinc, Total                                                          | ND      |           | mg/l  | 0.01000 | 0.00341 | 1                  | 01/22/20 14:47   | 01/22/20 20:37   | 1,6020B              | AM      |

### Prep Information

Digestion Method: EPA 3005A

| Parameter                                                            | Result | Qualifier | Units | RL      | MDL     | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|----------------------------------------------------------------------|--------|-----------|-------|---------|---------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1332718-1 |        |           |       |         |         |                    |                  |                  |                      |         |
| Mercury, Total                                                       | ND     |           | mg/l  | 0.00020 | 0.00009 | 1                  | 01/22/20 12:54   | 01/22/20 16:48   | 1,7470A              | AL      |



**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

## Method Blank Analysis Batch Quality Control

### Prep Information

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Digestion Method: EPA 7470A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1332689-2 |                  |      |                   |      |                     |     |      |            |
| Aluminum, Total                                                             | 109              |      | -                 |      | 80-120              | -   |      |            |
| Antimony, Total                                                             | 84               |      | -                 |      | 80-120              | -   |      |            |
| Arsenic, Total                                                              | 98               |      | -                 |      | 80-120              | -   |      |            |
| Barium, Total                                                               | 102              |      | -                 |      | 80-120              | -   |      |            |
| Beryllium, Total                                                            | 101              |      | -                 |      | 80-120              | -   |      |            |
| Cadmium, Total                                                              | 106              |      | -                 |      | 80-120              | -   |      |            |
| Calcium, Total                                                              | 115              |      | -                 |      | 80-120              | -   |      |            |
| Chromium, Total                                                             | 100              |      | -                 |      | 80-120              | -   |      |            |
| Cobalt, Total                                                               | 99               |      | -                 |      | 80-120              | -   |      |            |
| Copper, Total                                                               | 89               |      | -                 |      | 80-120              | -   |      |            |
| Iron, Total                                                                 | 105              |      | -                 |      | 80-120              | -   |      |            |
| Lead, Total                                                                 | 100              |      | -                 |      | 80-120              | -   |      |            |
| Magnesium, Total                                                            | 109              |      | -                 |      | 80-120              | -   |      |            |
| Manganese, Total                                                            | 104              |      | -                 |      | 80-120              | -   |      |            |
| Nickel, Total                                                               | 97               |      | -                 |      | 80-120              | -   |      |            |
| Potassium, Total                                                            | 107              |      | -                 |      | 80-120              | -   |      |            |
| Selenium, Total                                                             | 107              |      | -                 |      | 80-120              | -   |      |            |
| Silver, Total                                                               | 102              |      | -                 |      | 80-120              | -   |      |            |
| Sodium, Total                                                               | 106              |      | -                 |      | 80-120              | -   |      |            |
| Thallium, Total                                                             | 99               |      | -                 |      | 80-120              | -   |      |            |
| Vanadium, Total                                                             | 103              |      | -                 |      | 80-120              | -   |      |            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                   | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|-----------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1332689-2 |                  |                   |                     |     |            |
| Zinc, Total                                                                 | 110              | -                 | 80-120              | -   |            |
| Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1332718-2 |                  |                   |                     |     |            |
| Mercury, Total                                                              | 102              | -                 | 80-120              | -   |            |

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| Parameter                                                                                                                                       | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-04 01202020 QC Batch ID: WG1332689-3 WG1332689-4 QC Sample: L2002906-01 Client ID: BW-01- |               |          |          |              |      |           |               |      |                 |     |      |            |
| Aluminum, Total                                                                                                                                 | 0.0105        | 2        | 2.12     | 105          |      | 2.10      | 104           |      | 75-125          | 1   |      | 20         |
| Antimony, Total                                                                                                                                 | ND            | 0.5      | 0.4923   | 98           |      | 0.4870    | 97            |      | 75-125          | 1   |      | 20         |
| Arsenic, Total                                                                                                                                  | 0.00058       | 0.12     | 0.1278   | 106          |      | 0.1233    | 102           |      | 75-125          | 4   |      | 20         |
| Barium, Total                                                                                                                                   | 0.2525        | 2        | 2.237    | 99           |      | 2.210     | 98            |      | 75-125          | 1   |      | 20         |
| Beryllium, Total                                                                                                                                | ND            | 0.05     | 0.04723  | 94           |      | 0.04790   | 96            |      | 75-125          | 1   |      | 20         |
| Cadmium, Total                                                                                                                                  | ND            | 0.051    | 0.05440  | 107          |      | 0.05212   | 102           |      | 75-125          | 4   |      | 20         |
| Calcium, Total                                                                                                                                  | 465.          | 10       | 485      | 200          | Q    | 484       | 190           | Q    | 75-125          | 0   |      | 20         |
| Chromium, Total                                                                                                                                 | 0.00061J      | 0.2      | 0.1991   | 100          |      | 0.1932    | 97            |      | 75-125          | 3   |      | 20         |
| Cobalt, Total                                                                                                                                   | 0.00017J      | 0.5      | 0.4931   | 99           |      | 0.4896    | 98            |      | 75-125          | 1   |      | 20         |
| Copper, Total                                                                                                                                   | 0.00704       | 0.25     | 0.2426   | 94           |      | 0.2423    | 94            |      | 75-125          | 0   |      | 20         |
| Iron, Total                                                                                                                                     | 0.738         | 1        | 1.84     | 110          |      | 1.91      | 117           |      | 75-125          | 4   |      | 20         |
| Lead, Total                                                                                                                                     | 0.00044J      | 0.51     | 0.5120   | 100          |      | 0.5094    | 100           |      | 75-125          | 1   |      | 20         |
| Magnesium, Total                                                                                                                                | 0.620         | 10       | 11.0     | 104          |      | 10.9      | 103           |      | 75-125          | 1   |      | 20         |
| Manganese, Total                                                                                                                                | 0.00737       | 0.5      | 0.5240   | 103          |      | 0.5074    | 100           |      | 75-125          | 3   |      | 20         |
| Nickel, Total                                                                                                                                   | 0.00235       | 0.5      | 0.5002   | 100          |      | 0.4876    | 97            |      | 75-125          | 3   |      | 20         |
| Potassium, Total                                                                                                                                | 57.0          | 10       | 69.9     | 129          | Q    | 68.4      | 114           |      | 75-125          | 2   |      | 20         |
| Selenium, Total                                                                                                                                 | ND            | 0.12     | 0.122    | 102          |      | 0.127     | 106           |      | 75-125          | 4   |      | 20         |
| Silver, Total                                                                                                                                   | ND            | 0.05     | 0.05035  | 101          |      | 0.04779   | 96            |      | 75-125          | 5   |      | 20         |
| Sodium, Total                                                                                                                                   | 202.          | 10       | 184      | 0            | Q    | 185       | 0             | Q    | 75-125          | 1   |      | 20         |
| Thallium, Total                                                                                                                                 | ND            | 0.12     | 0.1162   | 97           |      | 0.1190    | 99            |      | 75-125          | 2   |      | 20         |
| Vanadium, Total                                                                                                                                 | ND            | 0.5      | 0.5121   | 102          |      | 0.5088    | 102           |      | 75-125          | 1   |      | 20         |

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** Not Specified

**Lab Number:** L2002906

**Project Number:** Not Specified

**Report Date:** 02/11/20

| Parameter                                                                                                                                       | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|-----------|---------------|-----------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 01-04 01202020 QC Batch ID: WG1332689-3 WG1332689-4 QC Sample: L2002906-01 Client ID: BW-01- |               |          |          |              |           |               |                 |     |            |
| Zinc, Total                                                                                                                                     | ND            | 0.5      | 0.5240   | 105          | 0.5290    | 106           | 75-125          | 1   | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 01-04 01202020 QC Batch ID: WG1332718-3 WG1332718-4 QC Sample: L2002906-01 Client ID: BW-01- |               |          |          |              |           |               |                 |     |            |
| Mercury, Total                                                                                                                                  | ND            | 0.005    | 0.00487  | 98           | 0.00482   | 96            | 75-125          | 1   | 20         |

# **INORGANICS & MISCELLANEOUS**

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-01

Date Collected: 01/20/20 11:40

Client ID: BW-01-01202020

Date Received: 01/21/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                           | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                      | ND     |           | mg/l  | 0.005 | 0.001 | 1                  | 01/22/20 12:35   | 01/22/20 15:08   | 1,9010C/9012B        | LH      |





Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-02

Client ID: BW-02-01212020

Sample Location: Not Specified

Date Collected: 01/21/20 12:40

Date Received: 01/21/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                           | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                      | 0.001  | J         | mg/l  | 0.005 | 0.001 | 1                  | 01/22/20 12:35   | 01/22/20 15:13   | 1,9010C/9012B        | LH      |



Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-03

Client ID: BW-03-01212020

Sample Location: Not Specified

Date Collected: 01/21/20 09:30

Date Received: 01/21/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                           | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                      | ND     |           | mg/l  | 0.005 | 0.001 | 1                  | 01/22/20 12:35   | 01/22/20 15:14   | 1,9010C/9012B        | LH      |



Project Name: Not Specified

Project Number: Not Specified

Lab Number: L2002906

Report Date: 02/11/20

## SAMPLE RESULTS

Lab ID: L2002906-04

Client ID: DUP-01

Sample Location: Not Specified

Date Collected: 01/21/20 00:00

Date Received: 01/21/20

Field Prep: Not Specified

Sample Depth:

Matrix: Water

| Parameter                           | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                      | ND     |           | mg/l  | 0.005 | 0.001 | 1                  | 01/22/20 12:35   | 01/22/20 15:15   | 1,9010C/9012B        | LH      |



Project Name:

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

**Method Blank Analysis**  
**Batch Quality Control**

| Parameter                                                                   | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1332693-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Cyanide, Total                                                              | ND     |           | mg/l  | 0.005 | 0.001 | 1                  | 01/22/20 12:35   | 01/22/20 14:38   | 1,9010C/9012B        | LH      |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** Not Specified

**Project Number:** Not Specified

**Lab Number:** L2002906

**Report Date:** 02/11/20

| Parameter                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1332693-2 WG1332693-3 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Total                                                                                 | 94               |      | 96                |      | 85-115              | 2   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

| Parameter                                                                                                                                             | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1332693-4 WG1332693-5 QC Sample: L2002906-01 Client ID: BW-01-01202020 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Cyanide, Total                                                                                                                                        | ND            | 0.2      | 0.191    | 96           |      | 0.199     | 100           |      | 80-120          | 4   |      | 20         |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

| <b>Cooler</b> | <b>Custody Seal</b> |
|---------------|---------------------|
|---------------|---------------------|

|   |        |
|---|--------|
| A | Absent |
|---|--------|

|   |        |
|---|--------|
| B | Absent |
|---|--------|

|   |        |
|---|--------|
| C | Absent |
|---|--------|

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>          | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                                                                                         |
|---------------------|--------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2002906-01A        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01A1       | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01A2       | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01B        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01B1       | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01B2       | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01C        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01C1       | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01C2       | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-01D        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-01D1       | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-01D2       | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-01E        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-01E1       | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-01E2       | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-01F        | Plastic 250ml HNO3 preserved   | B             | <2                | <2              | 5.3               | Y           | Absent      |                         | BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180) |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**Container Information**

| <b>Container ID</b> | <b>Container Type</b>        | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                                                                                         |
|---------------------|------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2002906-01F1       | Plastic 250ml HNO3 preserved | B             | <2                | <2              | 5.3               | Y           | Absent      |                         | BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180) |
| L2002906-01F2       | Plastic 250ml HNO3 preserved | B             | <2                | <2              | 5.3               | Y           | Absent      |                         | BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180) |
| L2002906-01G        | Plastic 250ml NaOH preserved | B             | >12               | >12             | 5.3               | Y           | Absent      |                         | TCN-9010(14)                                                                                                                                                                                                                                                                                                               |
| L2002906-01G1       | Plastic 250ml NaOH preserved | B             | >12               | >12             | 5.3               | Y           | Absent      |                         | TCN-9010(14)                                                                                                                                                                                                                                                                                                               |
| L2002906-01G2       | Plastic 250ml NaOH preserved | B             | >12               | >12             | 5.3               | Y           | Absent      |                         | TCN-9010(14)                                                                                                                                                                                                                                                                                                               |
| L2002906-01H        | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-01H1       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-01H2       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-01I        | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-01I1       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-01I2       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-01J        | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-01J1       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-01J2       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-01K        | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-01K1       | Amber 120ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-01L        | Amber 250ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-01L1       | Amber 250ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-01L2       | Amber 250ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-01M        | Amber 250ml unpreserved      | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |



**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**Container Information**

| <b>Container ID</b> | <b>Container Type</b>          | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                                                                                         |
|---------------------|--------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2002906-01M1       | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-01M2       | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-01N        | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-01N1       | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-01N2       | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-01O        | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-01O1       | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-01O2       | Amber 250ml unpreserved        | B             | 7                 | 7               | 5.3               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-02A        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-02B        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-02C        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-02D        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-02E        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-02F        | Plastic 250ml HNO3 preserved   | C             | <2                | <2              | 5.6               | Y           | Absent      |                         | TL-6020T(180),BA-6020T(180),SE-6020T(180),FE-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),MG-6020T(180),CO-6020T(180) |
| L2002906-02G        | Plastic 250ml NaOH preserved   | C             | >12               | >12             | 5.6               | Y           | Absent      |                         | TCN-9010(14)                                                                                                                                                                                                                                                                                                               |
| L2002906-02H        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-02I        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-02J        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-02K        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-02L        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-02M        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-02N        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-02O        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-03A        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**Container Information**

| <b>Container ID</b> | <b>Container Type</b>          | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                                                                                                                                                                                                                                                                                                         |
|---------------------|--------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2002906-03B        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-03C        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-03D        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-03E        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-03F        | Plastic 250ml HNO3 preserved   | C             | <2                | <2              | 5.6               | Y           | Absent      |                         | FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),CR-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CD-6020T(180),AL-6020T(180),CO-6020T(180) |
| L2002906-03G        | Plastic 250ml NaOH preserved   | C             | >12               | >12             | 5.6               | Y           | Absent      |                         | TCN-9010(14)                                                                                                                                                                                                                                                                                                               |
| L2002906-03H        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-03I        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                                                                                                                                                                                                                                                                                                          |
| L2002906-03J        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-03K        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8081(7)                                                                                                                                                                                                                                                                                                              |
| L2002906-03L        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-03M        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)                                                                                                                                                                                                                                                                                    |
| L2002906-03N        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-03O        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                                                                                                                                                                                                                                                                                                      |
| L2002906-04A        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-04B        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-04C        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)                                                                                                                                                                                                                                                                                                          |
| L2002906-04D        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-04E        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | A2-NY-537-ISOTOPE(14)                                                                                                                                                                                                                                                                                                      |
| L2002906-04F        | Plastic 250ml HNO3 preserved   | C             | <2                | <2              | 5.6               | Y           | Absent      |                         | FE-6020T(180),BA-6020T(180),SE-6020T(180),TL-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),ZN-6020T(180),CU-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),AL-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180),MG-6020T(180),CO-6020T(180) |

**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**Container Information**

| <b>Container ID</b> | <b>Container Type</b>          | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b>                      |
|---------------------|--------------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|-----------------------------------------|
| L2002906-04G        | Plastic 250ml NaOH preserved   | C             | >12               | >12             | 5.6               | Y           | Absent      |                         | TCN-9010(14)                            |
| L2002906-04H        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                       |
| L2002906-04I        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8082-LVI(7)                       |
| L2002906-04J        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8081(7)                           |
| L2002906-04K        | Amber 120ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8081(7)                           |
| L2002906-04L        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2002906-04M        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7) |
| L2002906-04N        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                   |
| L2002906-04O        | Amber 250ml unpreserved        | C             | 7                 | 7               | 5.6               | Y           | Absent      |                         | A2-1,4-DIOXANE-SIM(7)                   |
| L2002906-05A        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-05B        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-05C        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-06A        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-06B        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-06C        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-07A        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-07B        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-07C        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-08A        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-08B        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-08C        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-09A        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-09B        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-09C        | Vial HCl preserved             | B             | NA                |                 | 5.3               | Y           | Absent      |                         | NYTCL-8260-R2(14)                       |
| L2002906-10A        | Plastic 250ml Trizma preserved | A             | NA                |                 | 3.1               | Y           | Absent      |                         | HOLD-537(14)                            |
| L2002906-11A        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | ARCHIVE()                               |
| L2002906-11B        | Vial HCl preserved             | C             | NA                |                 | 5.6               | Y           | Absent      |                         | ARCHIVE()                               |

Project Name: Not Specified

Project Number:

 Serial\_No:02112012:00  
 Lab Number: L2002906  
 Report Date: 02/11/20

## PFAS PARAMETER SUMMARY

| Parameter                                                               | Acronym      | CAS Number  |
|-------------------------------------------------------------------------|--------------|-------------|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)                                 |              |             |
| Perfluorooctadecanoic Acid                                              | PFODA        | 16517-11-6  |
| Perfluorohexadecanoic Acid                                              | PFHxDA       | 67905-19-5  |
| Perfluorotetradecanoic Acid                                             | PFTA         | 376-06-7    |
| Perfluorotridecanoic Acid                                               | PFTrDA       | 72629-94-8  |
| Perfluorododecanoic Acid                                                | PFDoA        | 307-55-1    |
| Perfluoroundecanoic Acid                                                | PFUnA        | 2058-94-8   |
| Perfluorodecanoic Acid                                                  | PFDA         | 335-76-2    |
| Perfluorononanoic Acid                                                  | PFNA         | 375-95-1    |
| Perfluorooctanoic Acid                                                  | PFOA         | 335-67-1    |
| Perfluoroheptanoic Acid                                                 | PFHpA        | 375-85-9    |
| Perfluorohexanoic Acid                                                  | PFHxA        | 307-24-4    |
| Perfluoropentanoic Acid                                                 | PFPeA        | 2706-90-3   |
| Perfluorobutanoic Acid                                                  | PFBA         | 375-22-4    |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs)                                   |              |             |
| Perfluorododecanesulfonic Acid                                          | PFDoDS       | 79780-39-5  |
| Perfluorodecanesulfonic Acid                                            | PFDS         | 335-77-3    |
| Perfluorononanesulfonic Acid                                            | PFNS         | 68259-12-1  |
| Perfluorooctanesulfonic Acid                                            | PFOS         | 1763-23-1   |
| Perfluoroheptanesulfonic Acid                                           | PFHpS        | 375-92-8    |
| Perfluorohexanesulfonic Acid                                            | PFHxS        | 355-46-4    |
| Perfluoropentanesulfonic Acid                                           | PFPeS        | 2706-91-4   |
| Perfluorobutanesulfonic Acid                                            | PFBS         | 375-73-5    |
| FLUOROTELOMERS                                                          |              |             |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid                              | 10:2FTS      | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid                                | 8:2FTS       | 39108-34-4  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid                                | 6:2FTS       | 27619-97-2  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid                                | 4:2FTS       | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs)                                    |              |             |
| Perfluorooctanesulfonamide                                              | FOSA         | 754-91-6    |
| N-Ethyl Perfluorooctane Sulfonamide                                     | NEtFOSA      | 4151-50-2   |
| N-Methyl Perfluorooctane Sulfonamide                                    | NMeFOSA      | 31506-32-8  |
| PERFLUOROALKANE SULFONYL SUBSTANCES                                     |              |             |
| N-Ethyl Perfluorooctanesulfonamido Ethanol                              | NEtFOSE      | 1691-99-2   |
| N-Methyl Perfluorooctanesulfonamido Ethanol                             | NMeFOSE      | 24448-09-7  |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid                           | NEtFOSAA     | 2991-50-6   |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid                          | NMeFOSAA     | 2355-31-9   |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS                         |              |             |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA      | 13252-13-6  |
| 4,8-Dioxa-3h-Perfluorononanoic Acid                                     | ADONA        | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS                                    |              |             |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid                     | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid                        | 9Cl-PF3ONS   | 756426-58-1 |

Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: Not Specified

Lab Number: L2002906

Project Number: Not Specified

Report Date: 02/11/20

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

### Terms

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

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

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

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

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers



**Project Name:** Not Specified**Lab Number:** L2002906**Project Number:** Not Specified**Report Date:** 02/11/20**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**R** - Analytical results are from sample re-analysis.

**RE** - Analytical results are from sample re-extraction.

**S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** Not Specified  
**Project Number:** Not Specified

**Lab Number:** L2002906  
**Report Date:** 02/11/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 15

Department: **Quality Assurance**

Published Date: 8/15/2019 9:53:42 AM

Title: **Certificate/Approval Program Summary**

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193<br>Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                                                                                                         |           | Page<br>1 of 1                                                                                                                                                                                                                  |    | Date Rec'd in Lab<br>1/22/20                                                                  |                    | ALPHA Job #<br>L2002906 |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |  |                                                            |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   | <b>Project Information</b><br>Project Name:<br>Project Location:<br>Project #:<br>(Use Project name as Project #) <input type="checkbox"/><br>Project Manager: JEN GALEN<br>ALPHAQuote #:<br>Turn-Around Time<br>Standard <input checked="" type="checkbox"/> Due Date:<br>Rush (only if pre approved) <input type="checkbox"/> # of Days:                      |           | <b>Deliverables</b><br><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B<br><input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File)<br><input type="checkbox"/> Other |    | <b>Billing Information</b><br><input checked="" type="checkbox"/> Same as Client Info<br>PO # |                    |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |  |                                                            |  |
| <b>Client Information</b><br>Client: LABELLA ASSOCIATES<br>Address: 300 STATE ST, ROCHESTER NY<br>585-454-6110<br>Email: aagwilina@labellapc.com<br>jgillen@labellapc.com<br>Email: slosan@labellapc.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge |           | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other:       |    |                                                                                               |                    |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   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                   |  |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments:<br>TAL METALS<br>Please specify Metals or TAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   | <b>ANALYSIS</b><br>CP-51 VOC + TIC<br>TCL VOCs + TICs<br>TCL SVOCs + TIC<br>TAL METALS<br>CYANIDE<br>PCB<br>PESTICIDES<br>1,4-DIOXANE<br>PFAS<br>MS/MSD                                                                                                                                                                                                         |           | <b>Sample Filtration</b><br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br><b>Preservation</b><br><input type="checkbox"/> Lab to do<br>(Please Specify below)                                          |    |                                                                                               |                    |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID<br/>(Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">CP-51 VOC + TIC</th> <th rowspan="2">TCL VOCs + TICs</th> <th rowspan="2">TCL SVOCs + TIC</th> <th rowspan="2">TAL METALS</th> <th rowspan="2">CYANIDE</th> <th rowspan="2">PCB</th> <th rowspan="2">PESTICIDES</th> <th rowspan="2">1,4-DIOXANE</th> <th rowspan="2">PFAS</th> <th rowspan="2">MS/MSD</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>02906-01</td> <td>BW-01-01202020</td> <td>1/20/2020</td> <td>1140</td> <td>GW</td> <td>SL</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>-02</td> <td>BW-02-01212020</td> <td>1/21/2020</td> <td>0830</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-03</td> <td>BW-03-01212020</td> <td>1/21/2020</td> <td>1240</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-04</td> <td>DUP-01</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>-05</td> <td>SB-MW-10-01212020</td> <td>1/21/2020</td> <td>1450</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-06</td> <td>RIMW-A-1-01202020</td> <td>1/20/2020</td> <td>0840</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-07</td> <td>RIMW-A-2-01202020</td> <td>1/20/2020</td> <td>0845</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-08</td> <td>RIMW-A-3-01202020</td> <td>1/20/2020</td> <td>0850</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-09</td> <td>RIMW-A-4-01202020</td> <td>1/20/2020</td> <td>0855</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |                   | ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                                                                                                                                  | Sample ID | Collection                                                                                                                                                                                                                      |    | Sample Matrix                                                                                 | Sampler's Initials | CP-51 VOC + TIC         | TCL VOCs + TICs | TCL SVOCs + TIC | TAL METALS | CYANIDE | PCB | PESTICIDES | 1,4-DIOXANE | PFAS | MS/MSD | Sample Specific Comments | Date          | Time               | 02906-01        | BW-01-01202020  | 1/20/2020       | 1140       | GW      | SL  |            | X           | X    | X      | X                        | X | X | X | X | X |  | -02 | BW-02-01212020 | 1/21/2020 | 0830 |  |  |  | X | X | X | X | X | X | X | X |  |  | -03 | BW-03-01212020 | 1/21/2020 | 1240 |  |  |  | X | X | X | X | X | X | X | X |  |  | -04 | DUP-01 |  |  |  |  |  | X | X | X | X | X | X | X | X |  |  | -05 | SB-MW-10-01212020 | 1/21/2020 | 1450 |  |  | X | X |  |  |  |  |  |  |  |  |  | -06 | RIMW-A-1-01202020 | 1/20/2020 | 0840 |  |  | X | X |  |  |  |  |  |  |  |  |  | -07 | RIMW-A-2-01202020 | 1/20/2020 | 0845 |  |  | X | X |  |  |  |  |  |  |  |  |  | -08 | RIMW-A-3-01202020 | 1/20/2020 | 0850 |  |  | X | X |  |  |  |  |  |  |  |  |  | -09 | RIMW-A-4-01202020 | 1/20/2020 | 0855 |  |  | X | X |  |  |  |  |  |  |  |  |  | Preservative Code:<br>A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other<br>Container Code:<br>P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle<br>Westboro: Certification No: MA935<br>Mansfield: Certification No: MA015 |  | Container Type<br>Preservative |  | Relinquished By:<br>Date/Time<br>Received By:<br>Date/Time |  |
| ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                              |           | Collection                                                                                                                                                                                                                      |    |                                                                                               |                    |                         |                 |                 |            |         |     |            |             |      |        |                          | Sample Matrix | Sampler's Initials | CP-51 VOC + TIC | TCL VOCs + TICs | TCL SVOCs + TIC | TAL METALS | CYANIDE | PCB | PESTICIDES | 1,4-DIOXANE | PFAS | MS/MSD | Sample Specific Comments |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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                              | Time      |                                                                                                                                                                                                                                 |    |                                                                                               |                    |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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| 02906-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                              | 1140      | GW                                                                                                                                                                                                                              | SL |                                                                                               | X                  | X                       | X               | X               | X          | X       | X   | X          | X           |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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| -02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BW-02-01212020    | 1/21/2020                                                                                                                                                                                                                                                                                                                                                       | 0830      |                                                                                                                                                                                                                                 |    |                                                                                               | X                  | X                       | X               | X               | X          | X       | X   | X          |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| -03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BW-03-01212020    | 1/21/2020                                                                                                                                                                                                                                                                                                                                                       | 1240      |                                                                                                                                                                                                                                 |    |                                                                                               | X                  | X                       | X               | X               | X          | X       | X   | X          |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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| -04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DUP-01            |                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                 |    |                                                                                               | X                  | X                       | X               | X               | X          | X       | X   | X          |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| -05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SB-MW-10-01212020 | 1/21/2020                                                                                                                                                                                                                                                                                                                                                       | 1450      |                                                                                                                                                                                                                                 |    | X                                                                                             | X                  |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| -06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RIMW-A-1-01202020 | 1/20/2020                                                                                                                                                                                                                                                                                                                                                       | 0840      |                                                                                                                                                                                                                                 |    | X                                                                                             | X                  |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| -07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RIMW-A-2-01202020 | 1/20/2020                                                                                                                                                                                                                                                                                                                                                       | 0845      |                                                                                                                                                                                                                                 |    | X                                                                                             | X                  |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| -08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RIMW-A-3-01202020 | 1/20/2020                                                                                                                                                                                                                                                                                                                                                       | 0850      |                                                                                                                                                                                                                                 |    | X                                                                                             | X                  |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| -09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RIMW-A-4-01202020 | 1/20/2020                                                                                                                                                                                                                                                                                                                                                       | 0855      |                                                                                                                                                                                                                                 |    | X                                                                                             | X                  |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   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           |  |
| Form No: 01-25 HC (rev. 30-Sept-2013)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)                                                                                    |           |                                                                                                                                                                                                                                 |    |                                                                                               |                    |                         |                 |                 |            |         |     |            |             |      |        |                          |               |                    |                 |                 |                 |            |         |     |            |             |      |        |                          |   |   |   |   |   |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                |           |      |  |  |  |   |   |   |   |   |   |   |   |  |  |     |        |  |  |  |  |  |   |   |   |   |   |   |   |   |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |     |                   |           |      |  |  |   |   |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                |  |                                                            |  |



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L1960377                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 01/23/20                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b>    | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|-------------------------------|---------------------------------|---------------------|
| L1960377-01                | DIS-01-121719    | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/17/19 11:00                  | 12/17/19            |
| L1960377-02                | DIS-02-121719    | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/17/19 11:30                  | 12/17/19            |
| L1960377-03                | COMP-01-121719   | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/17/19 12:00                  | 12/17/19            |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Case Narrative (continued)

#### Report Submission

January 23, 2020: This final report includes the results of all requested analyses.

December 24, 2019: This is a preliminary report.

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

#### Total Metals

L1960377-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 01/23/20

# ORGANICS

# VOLATILES



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-01  
**Client ID:** DIS-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/23/19 10:14  
**Analyst:** JC  
**Percent Solids:** 83%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.3  | 2.4  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | 0.15   | J         | ug/kg | 1.6  | 0.15 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.0  | 0.13 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.53 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.53 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.2  | 0.73 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.53 | 0.18 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.53 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.53 | 0.17 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.2  | 0.26 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.53 | 0.17 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.53 | 0.17 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.57 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.2  | 0.98 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.1  | 0.61 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.35 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.1  | 0.48 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.25 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.14 | 1               |
| Trichloroethene                                     | 2.3    |           | ug/kg | 0.53 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1  | 0.15 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-01  
**Client ID:** DIS-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1 | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1 | 0.18 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.1 | 0.21 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.1 | 0.59 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0 | 0.31 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0 | 0.18 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0 | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10  | 0.96 | 1               |
| Acetone                                             | 35     |           | ug/kg | 10  | 5.1  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10  | 4.8  | 1               |
| 2-Butanone                                          | 4.2    | J         | ug/kg | 10  | 2.3  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10  | 1.3  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10  | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.1 | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0 | 0.29 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.2 | 1.0  | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0 | 0.11 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.1 | 0.34 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.1 | 0.29 | 1               |
| Methyl Acetate                                      | ND     |           | ug/kg | 4.2 | 1.0  | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 10  | 0.57 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 84  | 37.  | 1               |
| Freon-113                                           | ND     |           | ug/kg | 4.2 | 0.73 | 1               |
| Methyl cyclohexane                                  | ND     |           | ug/kg | 4.2 | 0.63 | 1               |

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 102        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS**

Lab ID: L1960377-02  
 Client ID: DIS-02-121719  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/17/19 11:30  
 Date Received: 12/17/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 10:39  
 Analyst: JC  
 Percent Solids: 85%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 6.0  | 2.7  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.17 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.27 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.15 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| Tetrachloroethene                                   | 0.53   | J         | ug/kg | 0.60 | 0.23 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.60 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.8  | 0.83 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.60 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.8  | 0.29 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Toluene                                             | 1.3    |           | ug/kg | 1.2  | 0.65 | 1               |
| Ethylbenzene                                        | 1.2    |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.8  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.4  | 0.69 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.40 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.4  | 0.54 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| trans-1,2-Dichloroethene                            | 0.25   | J         | ug/kg | 1.8  | 0.16 | 1               |
| Trichloroethene                                     | 140    |           | ug/kg | 0.60 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.17 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-02  
**Client ID:** DIS-02-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:30  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4 | 0.18 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4 | 0.20 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.4 | 0.24 | 1               |
| p/m-Xylene                                          | 3.9    |           | ug/kg | 2.4 | 0.67 | 1               |
| o-Xylene                                            | 2.1    |           | ug/kg | 1.2 | 0.35 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2 | 0.21 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2 | 0.23 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12  | 1.1  | 1               |
| Acetone                                             | 14     |           | ug/kg | 12  | 5.7  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12  | 5.4  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12  | 2.6  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12  | 1.5  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12  | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.4 | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2 | 0.33 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.6 | 1.2  | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2 | 0.13 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.38 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.32 | 1               |
| Methyl Acetate                                      | ND     |           | ug/kg | 4.8 | 1.1  | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 12  | 0.65 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 96  | 42.  | 1               |
| Freon-113                                           | ND     |           | ug/kg | 4.8 | 0.83 | 1               |
| Methyl cyclohexane                                  | 1.3    | J         | ug/kg | 4.8 | 0.72 | 1               |

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 103        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 104        |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 07:19  
 Analyst: MV

| Parameter                                                                                   | Result | Qualifier | Units | RL   | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1324208-5 |        |           |       |      |      |
| Methylene chloride                                                                          | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                          | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                                  | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                        | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                         | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                        | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                           | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                               | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                                      | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                          | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                       | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                        | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                                   | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                                     | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                                   | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,1,2-Tetrachloroethane                                                                   | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                                     | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                                     | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                                | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                               | ND     |           | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                                | ND     |           | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                              | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                                | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                          | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                                    | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                             | ND     |           | ug/kg | 0.50 | 0.14 |
| 1,2-Dichlorobenzene                                                                         | ND     |           | ug/kg | 2.0  | 0.14 |
| 1,3-Dichlorobenzene                                                                         | ND     |           | ug/kg | 2.0  | 0.15 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 07:19  
 Analyst: MV

| Parameter                                                                                   | Result | Qualifier | Units | RL  | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1324208-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                         | ND     |           | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether                                                                     | 0.25   | J         | ug/kg | 2.0 | 0.20 |
| p/m-Xylene                                                                                  | ND     |           | ug/kg | 2.0 | 0.56 |
| o-Xylene                                                                                    | ND     |           | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene                                                                      | ND     |           | ug/kg | 1.0 | 0.18 |
| Styrene                                                                                     | ND     |           | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane                                                                     | ND     |           | ug/kg | 10  | 0.92 |
| Acetone                                                                                     | ND     |           | ug/kg | 10  | 4.8  |
| Carbon disulfide                                                                            | ND     |           | ug/kg | 10  | 4.6  |
| 2-Butanone                                                                                  | ND     |           | ug/kg | 10  | 2.2  |
| 4-Methyl-2-pentanone                                                                        | ND     |           | ug/kg | 10  | 1.3  |
| 2-Hexanone                                                                                  | ND     |           | ug/kg | 10  | 1.2  |
| Bromochloromethane                                                                          | ND     |           | ug/kg | 2.0 | 0.20 |
| 1,2-Dibromoethane                                                                           | ND     |           | ug/kg | 1.0 | 0.28 |
| 1,2-Dibromo-3-chloropropane                                                                 | ND     |           | ug/kg | 3.0 | 1.0  |
| Isopropylbenzene                                                                            | ND     |           | ug/kg | 1.0 | 0.11 |
| 1,2,3-Trichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.32 |
| 1,2,4-Trichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.27 |
| Methyl Acetate                                                                              | ND     |           | ug/kg | 4.0 | 0.95 |
| Cyclohexane                                                                                 | ND     |           | ug/kg | 10  | 0.54 |
| 1,4-Dioxane                                                                                 | ND     |           | ug/kg | 80  | 35.  |
| Freon-113                                                                                   | ND     |           | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane                                                                          | ND     |           | ug/kg | 4.0 | 0.60 |

**Tentatively Identified Compounds**

No Tentatively Identified Compounds      ND      ug/kg



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/23/19 07:19  
Analyst: MV

| Parameter                                                                                   | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1324208-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 93        |           | 70-130                 |
| Toluene-d8            | 97        |           | 70-130                 |
| 4-Bromofluorobenzene  | 100       |           | 70-130                 |
| Dibromofluoromethane  | 93        |           | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1324208-3 WG1324208-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                             | 89               |      | 88                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloroethane                                                                                             | 96               |      | 95                |      | 70-130              | 1   |      | 30            |
| Chloroform                                                                                                     | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Carbon tetrachloride                                                                                           | 105              |      | 102               |      | 70-130              | 3   |      | 30            |
| 1,2-Dichloropropane                                                                                            | 97               |      | 95                |      | 70-130              | 2   |      | 30            |
| Dibromochloromethane                                                                                           | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,1,2-Trichloroethane                                                                                          | 91               |      | 92                |      | 70-130              | 1   |      | 30            |
| Tetrachloroethene                                                                                              | 107              |      | 106               |      | 70-130              | 1   |      | 30            |
| Chlorobenzene                                                                                                  | 97               |      | 97                |      | 70-130              | 0   |      | 30            |
| Trichlorofluoromethane                                                                                         | 102              |      | 99                |      | 70-139              | 3   |      | 30            |
| 1,2-Dichloroethane                                                                                             | 90               |      | 89                |      | 70-130              | 1   |      | 30            |
| 1,1,1-Trichloroethane                                                                                          | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| Bromodichloromethane                                                                                           | 95               |      | 94                |      | 70-130              | 1   |      | 30            |
| trans-1,3-Dichloropropene                                                                                      | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| cis-1,3-Dichloropropene                                                                                        | 104              |      | 103               |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                                      | 98               |      | 99                |      | 70-130              | 1   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                      | 89               |      | 89                |      | 70-130              | 0   |      | 30            |
| Benzene                                                                                                        | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| Toluene                                                                                                        | 99               |      | 98                |      | 70-130              | 1   |      | 30            |
| Ethylbenzene                                                                                                   | 106              |      | 103               |      | 70-130              | 3   |      | 30            |
| Chloromethane                                                                                                  | 92               |      | 91                |      | 52-130              | 1   |      | 30            |
| Bromomethane                                                                                                   | 100              |      | 95                |      | 57-147              | 5   |      | 30            |
| Vinyl chloride                                                                                                 | 96               |      | 92                |      | 67-130              | 4   |      | 30            |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1324208-3 WG1324208-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                   | 91               |      | 86                |      | 50-151              | 6   |      | 30            |
| 1,1-Dichloroethene                                                                                             | 105              |      | 103               |      | 65-135              | 2   |      | 30            |
| trans-1,2-Dichloroethene                                                                                       | 103              |      | 101               |      | 70-130              | 2   |      | 30            |
| Trichloroethene                                                                                                | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                            | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                                                                                            | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,4-Dichlorobenzene                                                                                            | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| Methyl tert butyl ether                                                                                        | 99               |      | 99                |      | 66-130              | 0   |      | 30            |
| p/m-Xylene                                                                                                     | 110              |      | 109               |      | 70-130              | 1   |      | 30            |
| o-Xylene                                                                                                       | 109              |      | 108               |      | 70-130              | 1   |      | 30            |
| cis-1,2-Dichloroethene                                                                                         | 102              |      | 100               |      | 70-130              | 2   |      | 30            |
| Styrene                                                                                                        | 110              |      | 108               |      | 70-130              | 2   |      | 30            |
| Dichlorodifluoromethane                                                                                        | 98               |      | 96                |      | 30-146              | 2   |      | 30            |
| Acetone                                                                                                        | 85               |      | 82                |      | 54-140              | 4   |      | 30            |
| Carbon disulfide                                                                                               | 92               |      | 89                |      | 59-130              | 3   |      | 30            |
| 2-Butanone                                                                                                     | 91               |      | 89                |      | 70-130              | 2   |      | 30            |
| 4-Methyl-2-pentanone                                                                                           | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| 2-Hexanone                                                                                                     | 98               |      | 96                |      | 70-130              | 2   |      | 30            |
| Bromochloromethane                                                                                             | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,2-Dibromoethane                                                                                              | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                    | 97               |      | 98                |      | 68-130              | 1   |      | 30            |
| Isopropylbenzene                                                                                               | 110              |      | 110               |      | 70-130              | 0   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                         | 103              |      | 106               |      | 70-130              | 3   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1324208-3 WG1324208-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                         | 108              |      | 110               |      | 70-130              | 2   |      | 30            |
| Methyl Acetate                                                                                                 | 89               |      | 88                |      | 51-146              | 1   |      | 30            |
| Cyclohexane                                                                                                    | 112              |      | 110               |      | 59-142              | 2   |      | 30            |
| 1,4-Dioxane                                                                                                    | 99               |      | 107               |      | 65-136              | 8   |      | 30            |
| Freon-113                                                                                                      | 106              |      | 104               |      | 50-139              | 2   |      | 30            |
| Methyl cyclohexane                                                                                             | 114              |      | 111               |      | 70-130              | 3   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 91               |      | 90                |      | 70-130                 |
| Toluene-d8            | 98               |      | 98                |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 101               |      | 70-130                 |
| Dibromofluoromethane  | 96               |      | 97                |      | 70-130                 |

# SEMIVOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/21/19 18:08  
**Analyst:** IM  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 12:24

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 48. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS****Lab ID:** L1960377-03**Date Collected:** 12/17/19 12:00**Client ID:** COMP-01-121719**Date Received:** 12/17/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 46     | J         | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | 32     | J         | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 24     | J         | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 450 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 82. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 75. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 81. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 950 | 92. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 95. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 31. | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| Atrazine                                         | ND     |           | ug/kg | 160 | 70. | 1               |
| Benzaldehyde                                     | ND     |           | ug/kg | 260 | 54. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 200 | 60. | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 200 | 40. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.1 | 1               |

## Tentatively Identified Compounds

|                     |     |   |       |   |
|---------------------|-----|---|-------|---|
| Total TIC Compounds | 162 | J | ug/kg | 1 |
| Unknown Alkane      | 162 | J | ug/kg | 1 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 96         |           | 25-120              |
| Phenol-d6            | 96         |           | 10-120              |
| Nitrobenzene-d5      | 79         |           | 23-120              |
| 2-Fluorobiphenyl     | 70         |           | 30-120              |
| 2,4,6-Tribromophenol | 96         |           | 10-136              |
| 4-Terphenyl-d14      | 67         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/22/20 23:13  
**Analyst:** JW  
**Percent Solids:** 83%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 12/27/19 11:22

| Parameter                                                      | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 0.030  | J         | ug/kg | 1.10 | 0.025 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | ND     |           | ug/kg | 1.10 | 0.051 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | ND     |           | ug/kg | 1.10 | 0.043 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | ND     |           | ug/kg | 1.10 | 0.058 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | ND     |           | ug/kg | 1.10 | 0.050 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ug/kg | 1.10 | 0.067 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 0.061  | J         | ug/kg | 1.10 | 0.046 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ug/kg | 1.10 | 0.198 | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ug/kg | 1.10 | 0.151 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | ND     |           | ug/kg | 1.10 | 0.083 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | ND     |           | ug/kg | 1.10 | 0.144 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ug/kg | 1.10 | 0.074 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ug/kg | 1.10 | 0.317 | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ug/kg | 1.10 | 0.223 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ug/kg | 1.10 | 0.052 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ug/kg | 1.10 | 0.169 | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ug/kg | 1.10 | 0.108 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | ND     |           | ug/kg | 1.10 | 0.093 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ug/kg | 1.10 | 0.077 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ug/kg | 1.10 | 0.226 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ug/kg | 1.10 | 0.060 | 1               |
| PFOA/PFOS, Total                                               | 0.061  | J         | ug/kg | 1.10 | 0.046 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                                              | Result     | Qualifier | Units | RL        | MDL                 | Dilution Factor |
|------------------------------------------------------------------------|------------|-----------|-------|-----------|---------------------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab         |            |           |       |           |                     |                 |
| Surrogate (Extracted Internal Standard)                                | % Recovery |           |       | Qualifier | Acceptance Criteria |                 |
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 94         |           |       |           | 60-153              |                 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 95         |           |       |           | 65-182              |                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 88         |           |       |           | 70-151              |                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 87         |           |       |           | 61-147              |                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 94         |           |       |           | 62-149              |                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 98         |           |       |           | 63-166              |                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 95         |           |       |           | 62-152              |                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 93         |           |       |           | 32-182              |                 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 98         |           |       |           | 61-154              |                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 93         |           |       |           | 65-151              |                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 97         |           |       |           | 65-150              |                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 101        |           |       |           | 25-186              |                 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 53         |           |       |           | 45-137              |                 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 105        |           |       |           | 64-158              |                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 15         |           |       |           | 1-125               |                 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 67         |           |       |           | 42-136              |                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 87         |           |       |           | 56-148              |                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 81         |           |       |           | 26-160              |                 |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 18:01  
**Analyst:** ALS

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/18/19 18:43

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1322459-1 |        |           |       |     |     |
| Acenaphthene                                                                          | ND     |           | ug/kg | 130 | 17. |
| Hexachlorobenzene                                                                     | ND     |           | ug/kg | 100 | 18. |
| Bis(2-chloroethyl)ether                                                               | ND     |           | ug/kg | 150 | 22. |
| 2-Chloronaphthalene                                                                   | ND     |           | ug/kg | 160 | 16. |
| 3,3'-Dichlorobenzidine                                                                | ND     |           | ug/kg | 160 | 44. |
| 2,4-Dinitrotoluene                                                                    | ND     |           | ug/kg | 160 | 33. |
| 2,6-Dinitrotoluene                                                                    | ND     |           | ug/kg | 160 | 28. |
| Fluoranthene                                                                          | ND     |           | ug/kg | 100 | 19. |
| 4-Chlorophenyl phenyl ether                                                           | ND     |           | ug/kg | 160 | 18. |
| 4-Bromophenyl phenyl ether                                                            | ND     |           | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether                                                           | ND     |           | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane                                                            | ND     |           | ug/kg | 180 | 17. |
| Hexachlorobutadiene                                                                   | ND     |           | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene                                                             | ND     |           | ug/kg | 470 | 150 |
| Hexachloroethane                                                                      | ND     |           | ug/kg | 130 | 27. |
| Isophorone                                                                            | ND     |           | ug/kg | 150 | 22. |
| Naphthalene                                                                           | ND     |           | ug/kg | 160 | 20. |
| Nitrobenzene                                                                          | ND     |           | ug/kg | 150 | 24. |
| NDPA/DPA                                                                              | ND     |           | ug/kg | 130 | 19. |
| n-Nitrosodi-n-propylamine                                                             | ND     |           | ug/kg | 160 | 26. |
| Bis(2-ethylhexyl)phthalate                                                            | ND     |           | ug/kg | 160 | 57. |
| Butyl benzyl phthalate                                                                | ND     |           | ug/kg | 160 | 42. |
| Di-n-butylphthalate                                                                   | ND     |           | ug/kg | 160 | 31. |
| Di-n-octylphthalate                                                                   | ND     |           | ug/kg | 160 | 56. |
| Diethyl phthalate                                                                     | ND     |           | ug/kg | 160 | 15. |
| Dimethyl phthalate                                                                    | ND     |           | ug/kg | 160 | 35. |
| Benzo(a)anthracene                                                                    | ND     |           | ug/kg | 100 | 19. |
| Benzo(a)pyrene                                                                        | ND     |           | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene                                                                  | ND     |           | ug/kg | 100 | 28. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 18:01  
**Analyst:** ALS

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/18/19 18:43

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1322459-1 |        |           |       |     |     |
| Benzo(k)fluoranthene                                                                  | ND     |           | ug/kg | 100 | 26. |
| Chrysene                                                                              | ND     |           | ug/kg | 100 | 17. |
| Acenaphthylene                                                                        | ND     |           | ug/kg | 130 | 26. |
| Anthracene                                                                            | ND     |           | ug/kg | 100 | 32. |
| Benzo(ghi)perylene                                                                    | ND     |           | ug/kg | 130 | 20. |
| Fluorene                                                                              | ND     |           | ug/kg | 160 | 16. |
| Phenanthrene                                                                          | ND     |           | ug/kg | 100 | 20. |
| Dibenzo(a,h)anthracene                                                                | ND     |           | ug/kg | 100 | 19. |
| Indeno(1,2,3-cd)pyrene                                                                | ND     |           | ug/kg | 130 | 23. |
| Pyrene                                                                                | ND     |           | ug/kg | 100 | 16. |
| Biphenyl                                                                              | ND     |           | ug/kg | 380 | 38. |
| 4-Chloroaniline                                                                       | ND     |           | ug/kg | 160 | 30. |
| 2-Nitroaniline                                                                        | ND     |           | ug/kg | 160 | 32. |
| 3-Nitroaniline                                                                        | ND     |           | ug/kg | 160 | 31. |
| 4-Nitroaniline                                                                        | ND     |           | ug/kg | 160 | 69. |
| Dibenzofuran                                                                          | ND     |           | ug/kg | 160 | 16. |
| 2-Methylnaphthalene                                                                   | ND     |           | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene                                                            | ND     |           | ug/kg | 160 | 17. |
| Acetophenone                                                                          | ND     |           | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol                                                                 | ND     |           | ug/kg | 100 | 31. |
| p-Chloro-m-cresol                                                                     | ND     |           | ug/kg | 160 | 25. |
| 2-Chlorophenol                                                                        | ND     |           | ug/kg | 160 | 20. |
| 2,4-Dichlorophenol                                                                    | ND     |           | ug/kg | 150 | 27. |
| 2,4-Dimethylphenol                                                                    | ND     |           | ug/kg | 160 | 55. |
| 2-Nitrophenol                                                                         | ND     |           | ug/kg | 360 | 62. |
| 4-Nitrophenol                                                                         | ND     |           | ug/kg | 230 | 68. |
| 2,4-Dinitrophenol                                                                     | ND     |           | ug/kg | 800 | 77. |
| 4,6-Dinitro-o-cresol                                                                  | ND     |           | ug/kg | 430 | 80. |
| Pentachlorophenol                                                                     | ND     |           | ug/kg | 130 | 36. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 18:01  
**Analyst:** ALS

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/18/19 18:43

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1322459-1 |        |           |       |     |     |
| Phenol                                                                                | ND     |           | ug/kg | 160 | 25. |
| 2-Methylphenol                                                                        | ND     |           | ug/kg | 160 | 26. |
| 3-Methylphenol/4-Methylphenol                                                         | ND     |           | ug/kg | 240 | 26. |
| 2,4,5-Trichlorophenol                                                                 | ND     |           | ug/kg | 160 | 32. |
| Carbazole                                                                             | ND     |           | ug/kg | 160 | 16. |
| Atrazine                                                                              | ND     |           | ug/kg | 130 | 58. |
| Benzaldehyde                                                                          | ND     |           | ug/kg | 220 | 45. |
| Caprolactam                                                                           | ND     |           | ug/kg | 160 | 50. |
| 2,3,4,6-Tetrachlorophenol                                                             | ND     |           | ug/kg | 160 | 34. |
| 1,4-Dioxane                                                                           | ND     |           | ug/kg | 25  | 7.6 |

**Tentatively Identified Compounds**

No Tentatively Identified Compounds ND ug/kg

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 79        |           | 25-120              |
| Phenol-d6            | 79        |           | 10-120              |
| Nitrobenzene-d5      | 73        |           | 23-120              |
| 2-Fluorobiphenyl     | 71        |           | 30-120              |
| 2,4,6-Tribromophenol | 89        |           | 10-136              |
| 4-Terphenyl-d14      | 74        |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/17/20 09:23  
**Analyst:** JW

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 12/27/19 11:22

| Parameter                                                                                           | Result | Qualifier | Units | RL   | MDL   |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03 Batch: WG1325203-1 |        |           |       |      |       |
| Perfluorobutanoic Acid (PFBA)                                                                       | 0.040  | J         | ug/kg | 1.00 | 0.023 |
| Perfluoropentanoic Acid (PFPeA)                                                                     | ND     |           | ug/kg | 1.00 | 0.046 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                 | ND     |           | ug/kg | 1.00 | 0.039 |
| Perfluorohexanoic Acid (PFHxA)                                                                      | ND     |           | ug/kg | 1.00 | 0.053 |
| Perfluoroheptanoic Acid (PFHpA)                                                                     | ND     |           | ug/kg | 1.00 | 0.045 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                | ND     |           | ug/kg | 1.00 | 0.061 |
| Perfluorooctanoic Acid (PFOA)                                                                       | ND     |           | ug/kg | 1.00 | 0.042 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                   | ND     |           | ug/kg | 1.00 | 0.180 |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                               | ND     |           | ug/kg | 1.00 | 0.136 |
| Perfluorononanoic Acid (PFNA)                                                                       | ND     |           | ug/kg | 1.00 | 0.075 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                 | ND     |           | ug/kg | 1.00 | 0.130 |
| Perfluorodecanoic Acid (PFDA)                                                                       | ND     |           | ug/kg | 1.00 | 0.067 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                   | ND     |           | ug/kg | 1.00 | 0.287 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                           | ND     |           | ug/kg | 1.00 | 0.202 |
| Perfluoroundecanoic Acid (PFUnA)                                                                    | ND     |           | ug/kg | 1.00 | 0.047 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                 | ND     |           | ug/kg | 1.00 | 0.153 |
| Perfluorooctanesulfonamide (FOSA)                                                                   | ND     |           | ug/kg | 1.00 | 0.098 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                            | 0.256  | J         | ug/kg | 1.00 | 0.085 |
| Perfluorododecanoic Acid (PFDoA)                                                                    | ND     |           | ug/kg | 1.00 | 0.070 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                  | ND     |           | ug/kg | 1.00 | 0.204 |
| Perfluorotetradecanoic Acid (PFTA)                                                                  | ND     |           | ug/kg | 1.00 | 0.054 |
| PFOA/PFOS, Total                                                                                    | ND     |           | ug/kg | 1.00 | 0.042 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Method Blank Analysis Batch Quality Control

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/17/20 09:23  
**Analyst:** JW

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 12/27/19 11:22

| Parameter                                                                                           | Result | Qualifier | Units | RL | MDL |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03 Batch: WG1325203-1 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 92        |           | 60-153              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 110       |           | 65-182              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 98        |           | 70-151              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 87        |           | 61-147              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 95        |           | 62-149              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 107       |           | 63-166              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 97        |           | 62-152              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 129       |           | 32-182              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 102       |           | 61-154              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 101       |           | 65-151              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 98        |           | 65-150              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 129       |           | 25-186              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 96        |           | 45-137              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 105       |           | 64-158              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 23        |           | 1-125               |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NetFOSAA)  | 100       |           | 42-136              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 94        |           | 56-148              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 78        |           | 26-160              |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                             | 85               |      | 90                |      | 31-137              | 6   |      | 50            |
| Hexachlorobenzene                                                                                        | 92               |      | 100               |      | 40-140              | 8   |      | 50            |
| Bis(2-chloroethyl)ether                                                                                  | 82               |      | 75                |      | 40-140              | 9   |      | 50            |
| 2-Chloronaphthalene                                                                                      | 85               |      | 86                |      | 40-140              | 1   |      | 50            |
| 3,3'-Dichlorobenzidine                                                                                   | 60               |      | 68                |      | 40-140              | 13  |      | 50            |
| 2,4-Dinitrotoluene                                                                                       | 99               |      | 110               |      | 40-132              | 11  |      | 50            |
| 2,6-Dinitrotoluene                                                                                       | 98               |      | 101               |      | 40-140              | 3   |      | 50            |
| Fluoranthene                                                                                             | 87               |      | 96                |      | 40-140              | 10  |      | 50            |
| 4-Chlorophenyl phenyl ether                                                                              | 84               |      | 89                |      | 40-140              | 6   |      | 50            |
| 4-Bromophenyl phenyl ether                                                                               | 89               |      | 96                |      | 40-140              | 8   |      | 50            |
| Bis(2-chloroisopropyl)ether                                                                              | 71               |      | 63                |      | 40-140              | 12  |      | 50            |
| Bis(2-chloroethoxy)methane                                                                               | 84               |      | 79                |      | 40-117              | 6   |      | 50            |
| Hexachlorobutadiene                                                                                      | 81               |      | 76                |      | 40-140              | 6   |      | 50            |
| Hexachlorocyclopentadiene                                                                                | 88               |      | 86                |      | 40-140              | 2   |      | 50            |
| Hexachloroethane                                                                                         | 81               |      | 73                |      | 40-140              | 10  |      | 50            |
| Isophorone                                                                                               | 86               |      | 83                |      | 40-140              | 4   |      | 50            |
| Naphthalene                                                                                              | 87               |      | 84                |      | 40-140              | 4   |      | 50            |
| Nitrobenzene                                                                                             | 83               |      | 77                |      | 40-140              | 8   |      | 50            |
| NDPA/DPA                                                                                                 | 89               |      | 95                |      | 36-157              | 7   |      | 50            |
| n-Nitrosodi-n-propylamine                                                                                | 83               |      | 81                |      | 32-121              | 2   |      | 50            |
| Bis(2-ethylhexyl)phthalate                                                                               | 84               |      | 88                |      | 40-140              | 5   |      | 50            |
| Butyl benzyl phthalate                                                                                   | 93               |      | 102               |      | 40-140              | 9   |      | 50            |
| Di-n-butylphthalate                                                                                      | 94               |      | 102               |      | 40-140              | 8   |      | 50            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3 |                  |      |                   |      |                     |     |      |               |
| Di-n-octylphthalate                                                                                      | 95               |      | 101               |      | 40-140              | 6   |      | 50            |
| Diethyl phthalate                                                                                        | 84               |      | 91                |      | 40-140              | 8   |      | 50            |
| Dimethyl phthalate                                                                                       | 88               |      | 93                |      | 40-140              | 6   |      | 50            |
| Benzo(a)anthracene                                                                                       | 91               |      | 95                |      | 40-140              | 4   |      | 50            |
| Benzo(a)pyrene                                                                                           | 83               |      | 91                |      | 40-140              | 9   |      | 50            |
| Benzo(b)fluoranthene                                                                                     | 93               |      | 101               |      | 40-140              | 8   |      | 50            |
| Benzo(k)fluoranthene                                                                                     | 79               |      | 87                |      | 40-140              | 10  |      | 50            |
| Chrysene                                                                                                 | 78               |      | 87                |      | 40-140              | 11  |      | 50            |
| Acenaphthylene                                                                                           | 91               |      | 90                |      | 40-140              | 1   |      | 50            |
| Anthracene                                                                                               | 87               |      | 95                |      | 40-140              | 9   |      | 50            |
| Benzo(ghi)perylene                                                                                       | 96               |      | 103               |      | 40-140              | 7   |      | 50            |
| Fluorene                                                                                                 | 90               |      | 97                |      | 40-140              | 7   |      | 50            |
| Phenanthrene                                                                                             | 84               |      | 92                |      | 40-140              | 9   |      | 50            |
| Dibenzo(a,h)anthracene                                                                                   | 100              |      | 106               |      | 40-140              | 6   |      | 50            |
| Indeno(1,2,3-cd)pyrene                                                                                   | 100              |      | 113               |      | 40-140              | 12  |      | 50            |
| Pyrene                                                                                                   | 84               |      | 92                |      | 35-142              | 9   |      | 50            |
| Biphenyl                                                                                                 | 92               |      | 93                |      | 37-127              | 1   |      | 50            |
| 4-Chloroaniline                                                                                          | 82               |      | 82                |      | 40-140              | 0   |      | 50            |
| 2-Nitroaniline                                                                                           | 104              |      | 108               |      | 47-134              | 4   |      | 50            |
| 3-Nitroaniline                                                                                           | 66               |      | 74                |      | 26-129              | 11  |      | 50            |
| 4-Nitroaniline                                                                                           | 86               |      | 92                |      | 41-125              | 7   |      | 50            |
| Dibenzofuran                                                                                             | 88               |      | 95                |      | 40-140              | 8   |      | 50            |
| 2-Methylnaphthalene                                                                                      | 86               |      | 88                |      | 40-140              | 2   |      | 50            |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3 |                  |      |                   |      |                     |     |      |               |
| 1,2,4,5-Tetrachlorobenzene                                                                               | 93               |      | 93                |      | 40-117              | 0   |      | 50            |
| Acetophenone                                                                                             | 92               |      | 86                |      | 14-144              | 7   |      | 50            |
| 2,4,6-Trichlorophenol                                                                                    | 100              |      | 104               |      | 30-130              | 4   |      | 50            |
| p-Chloro-m-cresol                                                                                        | 93               |      | 97                |      | 26-103              | 4   |      | 50            |
| 2-Chlorophenol                                                                                           | 101              |      | 92                |      | 25-102              | 9   |      | 50            |
| 2,4-Dichlorophenol                                                                                       | 100              |      | 99                |      | 30-130              | 1   |      | 50            |
| 2,4-Dimethylphenol                                                                                       | 91               |      | 87                |      | 30-130              | 4   |      | 50            |
| 2-Nitrophenol                                                                                            | 103              |      | 96                |      | 30-130              | 7   |      | 50            |
| 4-Nitrophenol                                                                                            | 93               |      | 96                |      | 11-114              | 3   |      | 50            |
| 2,4-Dinitrophenol                                                                                        | 68               |      | 68                |      | 4-130               | 0   |      | 50            |
| 4,6-Dinitro-o-cresol                                                                                     | 111              |      | 120               |      | 10-130              | 8   |      | 50            |
| Pentachlorophenol                                                                                        | 97               |      | 107               |      | 17-109              | 10  |      | 50            |
| Phenol                                                                                                   | 90               |      | 84                |      | 26-90               | 7   |      | 50            |
| 2-Methylphenol                                                                                           | 98               |      | 94                |      | 30-130              | 4   |      | 50            |
| 3-Methylphenol/4-Methylphenol                                                                            | 96               |      | 94                |      | 30-130              | 2   |      | 50            |
| 2,4,5-Trichlorophenol                                                                                    | 98               |      | 104               |      | 30-130              | 6   |      | 50            |
| Carbazole                                                                                                | 90               |      | 97                |      | 54-128              | 7   |      | 50            |
| Atrazine                                                                                                 | 89               |      | 98                |      | 40-140              | 10  |      | 50            |
| Benzaldehyde                                                                                             | 99               |      | 84                |      | 40-140              | 16  |      | 50            |
| Caprolactam                                                                                              | 96               |      | 102               |      | 15-130              | 6   |      | 50            |
| 2,3,4,6-Tetrachlorophenol                                                                                | 94               |      | 102               |      | 40-140              | 8   |      | 50            |
| 1,4-Dioxane                                                                                              | 75               |      | 67                |      | 40-140              | 11  |      | 50            |



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 95                       |             | 85                        |             | 25-120                         |
| Phenol-d6            | 97                       |             | 91                        |             | 10-120                         |
| Nitrobenzene-d5      | 82                       |             | 78                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 81                       |             | 80                        |             | 30-120                         |
| 2,4,6-Tribromophenol | 100                      |             | 109                       |             | 10-136                         |
| 4-Terphenyl-d14      | 84                       |             | 88                        |             | 18-120                         |

# Lab Control Sample Analysis

## Batch Quality Control

Project Name: FORMER WOLLENSACK OPTICAL

Project Number: 2182207

Lab Number: L1960377

Report Date: 01/23/20

| Parameter                                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 Batch: WG1325203-2 WG1325203-3 |                  |      |                   |      |                     |     |      |               |
| Perfluorobutanoic Acid (PFBA)                                                                                          | 106              |      | 103               |      | 71-135              | 3   |      | 30            |
| Perfluoropentanoic Acid (PFPeA)                                                                                        | 112              |      | 108               |      | 69-132              | 4   |      | 30            |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                    | 110              |      | 106               |      | 72-128              | 4   |      | 30            |
| Perfluorohexanoic Acid (PFHxA)                                                                                         | 110              |      | 105               |      | 70-132              | 5   |      | 30            |
| Perfluoroheptanoic Acid (PFHpA)                                                                                        | 103              |      | 102               |      | 71-131              | 1   |      | 30            |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                   | 106              |      | 100               |      | 67-130              | 6   |      | 30            |
| Perfluorooctanoic Acid (PFOA)                                                                                          | 113              |      | 109               |      | 69-133              | 4   |      | 30            |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                      | 117              |      | 126               |      | 64-140              | 7   |      | 30            |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                  | 104              |      | 113               |      | 70-132              | 8   |      | 30            |
| Perfluorononanoic Acid (PFNA)                                                                                          | 108              |      | 107               |      | 72-129              | 1   |      | 30            |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                    | 106              |      | 108               |      | 68-136              | 2   |      | 30            |
| Perfluorodecanoic Acid (PFDA)                                                                                          | 106              |      | 104               |      | 69-133              | 2   |      | 30            |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                      | 116              |      | 132               |      | 65-137              | 13  |      | 30            |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                              | 115              |      | 111               |      | 63-144              | 4   |      | 30            |
| Perfluoroundecanoic Acid (PFUnA)                                                                                       | 115              |      | 104               |      | 64-136              | 10  |      | 30            |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                    | 107              |      | 116               |      | 59-134              | 8   |      | 30            |
| Perfluorooctanesulfonamide (FOSA)                                                                                      | 106              |      | 122               |      | 67-137              | 14  |      | 30            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                               | 108              |      | 103               |      | 61-139              | 5   |      | 30            |
| Perfluorododecanoic Acid (PFDoA)                                                                                       | 109              |      | 108               |      | 69-135              | 1   |      | 30            |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                     | 118              |      | 108               |      | 66-139              | 9   |      | 30            |
| Perfluorotetradecanoic Acid (PFTA)                                                                                     | 110              |      | 107               |      | 69-133              | 3   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1960377

Project Number: 2182207

Report Date: 01/23/20

| Parameter                                                                                                              | LCS<br>%Recovery | Qual | LCS<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 Batch: WG1325203-2 WG1325203-3 |                  |      |                  |      |                     |     |      |               |

| Surrogate (Extracted Internal Standard)                                | LCS<br>%Recovery | Qual | LCS<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------------------------------------------------------|------------------|------|------------------|------|------------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 89               |      | 90               |      | 60-153                 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 102              |      | 103              |      | 65-182                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 93               |      | 93               |      | 70-151                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 79               |      | 83               |      | 61-147                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 88               |      | 90               |      | 62-149                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 101              |      | 99               |      | 63-166                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 90               |      | 94               |      | 62-152                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 117              |      | 109              |      | 32-182                 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 95               |      | 96               |      | 61-154                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 99               |      | 95               |      | 65-151                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 91               |      | 91               |      | 65-150                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 127              |      | 119              |      | 25-186                 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 93               |      | 87               |      | 45-137                 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 95               |      | 101              |      | 64-158                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 21               |      | 17               |      | 1-125                  |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 89               |      | 91               |      | 42-136                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 90               |      | 94               |      | 56-148                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 79               |      | 82               |      | 26-160                 |

# PCBS

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 12/20/19 03:32  
**Analyst:** KB  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 09:52  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 12/19/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/19

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.4 | 3.41 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.4 | 3.85 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.4 | 8.15 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.4 | 5.18 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.4 | 5.77 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.4 | 4.21 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.4 | 7.10 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.4 | 4.88 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.4 | 3.98 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.4 | 3.41 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 57         |           | 30-150              | A      |
| Decachlorobiphenyl           | 69         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 55         |           | 30-150              | B      |
| Decachlorobiphenyl           | 70         |           | 30-150              | B      |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 12/18/19 23:06  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 12/18/19 13:26  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 12/18/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 12/18/19

| Parameter                                                                              | Result | Qualifier | Units | RL   | MDL  | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|------|------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1322305-1 |        |           |       |      |      |        |
| Aroclor 1016                                                                           | ND     |           | ug/kg | 32.0 | 2.84 | A      |
| Aroclor 1221                                                                           | ND     |           | ug/kg | 32.0 | 3.20 | A      |
| Aroclor 1232                                                                           | ND     |           | ug/kg | 32.0 | 6.78 | A      |
| Aroclor 1242                                                                           | ND     |           | ug/kg | 32.0 | 4.31 | A      |
| Aroclor 1248                                                                           | ND     |           | ug/kg | 32.0 | 4.80 | A      |
| Aroclor 1254                                                                           | ND     |           | ug/kg | 32.0 | 3.50 | A      |
| Aroclor 1260                                                                           | ND     |           | ug/kg | 32.0 | 5.91 | A      |
| Aroclor 1262                                                                           | ND     |           | ug/kg | 32.0 | 4.06 | A      |
| Aroclor 1268                                                                           | ND     |           | ug/kg | 32.0 | 3.31 | A      |
| PCBs, Total                                                                            | ND     |           | ug/kg | 32.0 | 2.84 | A      |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 90        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 87        |           | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 95        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 99        |           | 30-150                 | B      |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1960377

**Project Number:** 2182207

**Report Date:** 01/23/20

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1322305-2 WG1322305-3 |                  |      |                   |      |                     |     |      |               |        |
| Aroclor 1016                                                                                              | 68               |      | 76                |      | 40-140              | 11  |      | 50            | A      |
| Aroclor 1260                                                                                              | 62               |      | 68                |      | 40-140              | 9   |      | 50            | A      |

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 81               |      | 89                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 78               |      | 87                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 85               |      | 93                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 88               |      | 98                |      | 30-150                 | B      |

# PESTICIDES



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 12/20/19 08:06  
**Analyst:** SM  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 11:17  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 12/20/19

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.87  | 0.366 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.780 | 0.349 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.780 | 0.222 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.87  | 0.710 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.936 | 0.420 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.87  | 0.659 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.51  | 1.05  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.780 | 0.320 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.34  | 0.819 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.87  | 0.482 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.17  | 0.585 | 1               | A      |
| 4,4'-DDE                                          | 1.15   | J         | ug/kg | 1.87  | 0.433 | 1               | B      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.87  | 0.668 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.51  | 1.50  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.87  | 0.442 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.87  | 0.626 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.780 | 0.371 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.51  | 1.09  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.1  | 9.83  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.34  | 0.652 | 1               | B      |
| trans-Chlordane                                   | ND     | IP        | ug/kg | 2.34  | 0.618 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.2  | 6.20  | 1               | A      |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS****Lab ID:** L1960377-03**Date Collected:** 12/17/19 12:00**Client ID:** COMP-01-121719**Date Received:** 12/17/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 88         |           | 30-150              | B      |
| Decachlorobiphenyl           | 70         |           | 30-150              | B      |
| 2,4,5,6-Tetrachloro-m-xylene | 60         |           | 30-150              | A      |
| Decachlorobiphenyl           | 52         |           | 30-150              | A      |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8081B  
**Analytical Date:** 12/20/19 07:12  
**Analyst:** SM

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 11:17  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 12/20/19

| Parameter                                                                              | Result | Qualifier | Units | RL    | MDL   | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1322764-1 |        |           |       |       |       |        |
| Delta-BHC                                                                              | ND     |           | ug/kg | 1.56  | 0.306 | A      |
| Lindane                                                                                | ND     |           | ug/kg | 0.652 | 0.291 | A      |
| Alpha-BHC                                                                              | ND     |           | ug/kg | 0.652 | 0.185 | A      |
| Beta-BHC                                                                               | ND     |           | ug/kg | 1.56  | 0.593 | A      |
| Heptachlor                                                                             | ND     |           | ug/kg | 0.782 | 0.351 | A      |
| Aldrin                                                                                 | ND     |           | ug/kg | 1.56  | 0.551 | A      |
| Heptachlor epoxide                                                                     | ND     |           | ug/kg | 2.93  | 0.880 | A      |
| Endrin                                                                                 | ND     |           | ug/kg | 0.652 | 0.267 | A      |
| Endrin aldehyde                                                                        | ND     |           | ug/kg | 1.96  | 0.684 | A      |
| Endrin ketone                                                                          | ND     |           | ug/kg | 1.56  | 0.403 | A      |
| Dieldrin                                                                               | ND     |           | ug/kg | 0.978 | 0.489 | A      |
| 4,4'-DDE                                                                               | ND     |           | ug/kg | 1.56  | 0.362 | A      |
| 4,4'-DDD                                                                               | ND     |           | ug/kg | 1.56  | 0.558 | A      |
| 4,4'-DDT                                                                               | ND     |           | ug/kg | 2.93  | 1.26  | A      |
| Endosulfan I                                                                           | ND     |           | ug/kg | 1.56  | 0.370 | A      |
| Endosulfan II                                                                          | ND     |           | ug/kg | 1.56  | 0.523 | A      |
| Endosulfan sulfate                                                                     | ND     |           | ug/kg | 0.652 | 0.310 | A      |
| Methoxychlor                                                                           | ND     |           | ug/kg | 2.93  | 0.913 | A      |
| Toxaphene                                                                              | ND     |           | ug/kg | 29.3  | 8.21  | A      |
| cis-Chlordane                                                                          | ND     |           | ug/kg | 1.96  | 0.545 | A      |
| trans-Chlordane                                                                        | ND     |           | ug/kg | 1.96  | 0.516 | A      |
| Chlordane                                                                              | ND     |           | ug/kg | 12.7  | 5.18  | A      |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 12/20/19 07:12  
 Analyst: SM

Extraction Method: EPA 3546  
 Extraction Date: 12/19/19 11:17  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 12/20/19

| Parameter                                                                              | Result | Qualifier | Units | RL | MDL | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1322764-1 |        |           |       |    |     |        |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 92        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 88        |           | 30-150                 | B      |
| 2,4,5,6-Tetrachloro-m-xylene | 88        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 85        |           | 30-150                 | A      |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1322764-2 WG1322764-3 |                  |      |                   |      |                     |     |      |               |        |
| Delta-BHC                                                                                                 | 80               |      | 92                |      | 30-150              | 14  |      | 30            | A      |
| Lindane                                                                                                   | 78               |      | 89                |      | 30-150              | 13  |      | 30            | A      |
| Alpha-BHC                                                                                                 | 79               |      | 89                |      | 30-150              | 12  |      | 30            | A      |
| Beta-BHC                                                                                                  | 74               |      | 82                |      | 30-150              | 10  |      | 30            | A      |
| Heptachlor                                                                                                | 76               |      | 90                |      | 30-150              | 17  |      | 30            | A      |
| Aldrin                                                                                                    | 79               |      | 91                |      | 30-150              | 14  |      | 30            | A      |
| Heptachlor epoxide                                                                                        | 76               |      | 88                |      | 30-150              | 15  |      | 30            | A      |
| Endrin                                                                                                    | 82               |      | 94                |      | 30-150              | 14  |      | 30            | A      |
| Endrin aldehyde                                                                                           | 58               |      | 64                |      | 30-150              | 10  |      | 30            | A      |
| Endrin ketone                                                                                             | 80               |      | 88                |      | 30-150              | 10  |      | 30            | A      |
| Dieldrin                                                                                                  | 84               |      | 98                |      | 30-150              | 15  |      | 30            | A      |
| 4,4'-DDE                                                                                                  | 79               |      | 92                |      | 30-150              | 15  |      | 30            | A      |
| 4,4'-DDD                                                                                                  | 80               |      | 92                |      | 30-150              | 14  |      | 30            | A      |
| 4,4'-DDT                                                                                                  | 82               |      | 93                |      | 30-150              | 13  |      | 30            | A      |
| Endosulfan I                                                                                              | 75               |      | 86                |      | 30-150              | 14  |      | 30            | A      |
| Endosulfan II                                                                                             | 76               |      | 86                |      | 30-150              | 12  |      | 30            | A      |
| Endosulfan sulfate                                                                                        | 58               |      | 65                |      | 30-150              | 11  |      | 30            | A      |
| Methoxychlor                                                                                              | 74               |      | 82                |      | 30-150              | 10  |      | 30            | A      |
| cis-Chlordane                                                                                             | 72               |      | 83                |      | 30-150              | 14  |      | 30            | A      |
| trans-Chlordane                                                                                           | 73               |      | 84                |      | 30-150              | 14  |      | 30            | A      |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1322764-2 WG1322764-3

| <b>Surrogate</b>             | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> | <b>Column</b> |
|------------------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 87                       |             | 97                        |             | 30-150                         | B             |
| Decachlorobiphenyl           | 88                       |             | 91                        |             | 30-150                         | B             |
| 2,4,5,6-Tetrachloro-m-xylene | 83                       |             | 93                        |             | 30-150                         | A             |
| Decachlorobiphenyl           | 81                       |             | 86                        |             | 30-150                         | A             |

## METALS

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS**

Lab ID: L1960377-03

Date Collected: 12/17/19 12:00

Client ID: COMP-01-121719

Date Received: 12/17/19

Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 3810   |           | mg/kg | 9.54  | 2.58  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Antimony, Total              | ND     |           | mg/kg | 4.77  | 0.362 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Arsenic, Total               | 4.71   |           | mg/kg | 0.954 | 0.198 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Barium, Total                | 68.2   |           | mg/kg | 0.954 | 0.166 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Beryllium, Total             | 0.191  | J         | mg/kg | 0.477 | 0.032 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Cadmium, Total               | 0.515  | J         | mg/kg | 0.954 | 0.094 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Calcium, Total               | 95300  |           | mg/kg | 95.4  | 33.4  | 20              | 12/18/19 20:26 | 12/24/19 01:19 | EPA 3050B   | 1,6010D           | LC      |
| Chromium, Total              | 6.43   |           | mg/kg | 0.954 | 0.092 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Cobalt, Total                | 4.04   |           | mg/kg | 1.91  | 0.158 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Copper, Total                | 10.9   |           | mg/kg | 0.954 | 0.246 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Iron, Total                  | 11600  |           | mg/kg | 4.77  | 0.861 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Lead, Total                  | 30.2   |           | mg/kg | 4.77  | 0.256 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Magnesium, Total             | 20600  |           | mg/kg | 9.54  | 1.47  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Manganese, Total             | 311    |           | mg/kg | 0.954 | 0.152 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Mercury, Total               | ND     |           | mg/kg | 0.088 | 0.057 | 1               | 12/18/19 22:46 | 12/19/19 15:31 | EPA 7471B   | 1,7471B           | GD      |
| Nickel, Total                | 8.58   |           | mg/kg | 2.38  | 0.231 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Potassium, Total             | 798    |           | mg/kg | 238   | 13.7  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Selenium, Total              | ND     |           | mg/kg | 1.91  | 0.246 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Silver, Total                | ND     |           | mg/kg | 0.954 | 0.270 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Sodium, Total                | 236    |           | mg/kg | 191   | 3.00  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Thallium, Total              | ND     |           | mg/kg | 1.91  | 0.300 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Vanadium, Total              | 9.21   |           | mg/kg | 0.954 | 0.194 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Zinc, Total                  | 21.6   |           | mg/kg | 4.77  | 0.279 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |





Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1960377

Project Number: 2182207

Report Date: 01/23/20

## Method Blank Analysis Batch Quality Control

| Parameter                                                         | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1322461-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Aluminum, Total                                                   | ND     |           | mg/kg | 4.00  | 1.08  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Antimony, Total                                                   | ND     |           | mg/kg | 2.00  | 0.152 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Arsenic, Total                                                    | ND     |           | mg/kg | 0.400 | 0.083 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Barium, Total                                                     | ND     |           | mg/kg | 0.400 | 0.070 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Beryllium, Total                                                  | ND     |           | mg/kg | 0.200 | 0.013 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Cadmium, Total                                                    | ND     |           | mg/kg | 0.400 | 0.039 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Calcium, Total                                                    | ND     |           | mg/kg | 4.00  | 1.40  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Chromium, Total                                                   | 0.184  | J         | mg/kg | 0.400 | 0.038 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Cobalt, Total                                                     | ND     |           | mg/kg | 0.800 | 0.066 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Copper, Total                                                     | ND     |           | mg/kg | 0.400 | 0.103 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Iron, Total                                                       | 1.29   | J         | mg/kg | 2.00  | 0.361 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Lead, Total                                                       | ND     |           | mg/kg | 2.00  | 0.107 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Magnesium, Total                                                  | ND     |           | mg/kg | 4.00  | 0.616 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Manganese, Total                                                  | ND     |           | mg/kg | 0.400 | 0.064 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Nickel, Total                                                     | ND     |           | mg/kg | 1.00  | 0.097 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Potassium, Total                                                  | ND     |           | mg/kg | 100   | 5.76  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Selenium, Total                                                   | 0.204  | J         | mg/kg | 0.800 | 0.103 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Silver, Total                                                     | ND     |           | mg/kg | 0.400 | 0.113 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Sodium, Total                                                     | ND     |           | mg/kg | 80.0  | 1.26  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Thallium, Total                                                   | ND     |           | mg/kg | 0.800 | 0.126 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Vanadium, Total                                                   | ND     |           | mg/kg | 0.400 | 0.081 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Zinc, Total                                                       | ND     |           | mg/kg | 2.00  | 0.117 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |

### Prep Information

Digestion Method: EPA 3050B

| Parameter                                                         | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1322485-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Mercury, Total                                                    | ND     |           | mg/kg | 0.083 | 0.054 | 1                  | 12/18/19 22:46   | 12/19/19 15:12   | 1,7471B              | GD      |



**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1960377

**Project Number:** 2182207

**Report Date:** 01/23/20

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 7471B

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                         | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1322461-2 SRM Lot Number: D105-540 |                  |      |                   |      |                     |     |      |            |
| Aluminum, Total                                                                                   | 77               |      | -                 |      | 51-149              | -   |      |            |
| Antimony, Total                                                                                   | 138              |      | -                 |      | 19-249              | -   |      |            |
| Arsenic, Total                                                                                    | 104              |      | -                 |      | 70-130              | -   |      |            |
| Barium, Total                                                                                     | 102              |      | -                 |      | 75-125              | -   |      |            |
| Beryllium, Total                                                                                  | 102              |      | -                 |      | 75-125              | -   |      |            |
| Cadmium, Total                                                                                    | 93               |      | -                 |      | 75-125              | -   |      |            |
| Calcium, Total                                                                                    | 98               |      | -                 |      | 73-127              | -   |      |            |
| Chromium, Total                                                                                   | 105              |      | -                 |      | 70-130              | -   |      |            |
| Cobalt, Total                                                                                     | 99               |      | -                 |      | 75-125              | -   |      |            |
| Copper, Total                                                                                     | 102              |      | -                 |      | 75-125              | -   |      |            |
| Iron, Total                                                                                       | 98               |      | -                 |      | 38-162              | -   |      |            |
| Lead, Total                                                                                       | 98               |      | -                 |      | 71-128              | -   |      |            |
| Magnesium, Total                                                                                  | 90               |      | -                 |      | 63-137              | -   |      |            |
| Manganese, Total                                                                                  | 96               |      | -                 |      | 76-124              | -   |      |            |
| Nickel, Total                                                                                     | 99               |      | -                 |      | 70-131              | -   |      |            |
| Potassium, Total                                                                                  | 90               |      | -                 |      | 60-140              | -   |      |            |
| Selenium, Total                                                                                   | 101              |      | -                 |      | 63-137              | -   |      |            |
| Silver, Total                                                                                     | 102              |      | -                 |      | 69-131              | -   |      |            |
| Sodium, Total                                                                                     | 105              |      | -                 |      | 37-162              | -   |      |            |
| Thallium, Total                                                                                   | 96               |      | -                 |      | 68-132              | -   |      |            |
| Vanadium, Total                                                                                   | 100              |      | -                 |      | 65-135              | -   |      |            |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                         | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|---------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1322461-2 SRM Lot Number: D105-540 |                  |                   |                     |     |            |
| Zinc, Total                                                                                       | 99               | -                 | 70-130              | -   |            |
| Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1322485-2 SRM Lot Number: D105-540 |                  |                   |                     |     |            |
| Mercury, Total                                                                                    | 99               | -                 | 60-141              | -   |            |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                                           | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03    QC Batch ID: WG1322461-3    QC Sample: L1960349-01    Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Aluminum, Total                                                                                                                     | 694           | 208      | 1060     | 176          | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Antimony, Total                                                                                                                     | ND            | 52       | 49.8     | 96           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Arsenic, Total                                                                                                                      | ND            | 12.5     | 13.5     | 108          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, Total                                                                                                                       | 15.9          | 208      | 234      | 105          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Beryllium, Total                                                                                                                    | ND            | 5.2      | 5.32     | 102          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, Total                                                                                                                      | 1.19          | 5.3      | 6.19     | 94           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Calcium, Total                                                                                                                      | 135           | 1040     | 1180     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, Total                                                                                                                     | 5.80          | 20.8     | 26.3     | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cobalt, Total                                                                                                                       | 0.201J        | 52       | 52.2     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Copper, Total                                                                                                                       | 119           | 26       | 144      | 96           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Iron, Total                                                                                                                         | 1030          | 104      | 1020     | 0            | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, Total                                                                                                                         | 6.81          | 53       | 61.4     | 103          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Magnesium, Total                                                                                                                    | 192           | 1040     | 1220     | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Manganese, Total                                                                                                                    | 2.93          | 52       | 53.7     | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Nickel, Total                                                                                                                       | 1.10J         | 52       | 52.7     | 101          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Potassium, Total                                                                                                                    | 69.6J         | 1040     | 1110     | 107          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, Total                                                                                                                     | 0.835J        | 12.5     | 13.8     | 111          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, Total                                                                                                                       | 64.2          | 31.2     | 187      | 394          | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Sodium, Total                                                                                                                       | 8.35J         | 1040     | 1070     | 103          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Thallium, Total                                                                                                                     | ND            | 12.5     | 12.4     | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Vanadium, Total                                                                                                                     | 1.61          | 52       | 54.8     | 102          |      | -         | -             |      | 75-125          | -   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                             | Native Sample | MS Added                 | MS Found | MS %Recovery | MSD Found              | MSD %Recovery | Recovery Limits      | RPD | RPD Limits |
|-------------------------------------------------------|---------------|--------------------------|----------|--------------|------------------------|---------------|----------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 |               | QC Batch ID: WG1322461-3 |          |              | QC Sample: L1960349-01 |               | Client ID: MS Sample |     |            |
| Zinc, Total                                           | 101           | 52                       | 140      | 75           | -                      | -             | 75-125               | -   | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 03 |               | QC Batch ID: WG1322485-3 |          |              | QC Sample: L1960536-01 |               | Client ID: MS Sample |     |            |
| Mercury, Total                                        | ND            | 0.138                    | 0.135    | 98           | -                      | -             | 80-120               | -   | 20         |

# Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER WOLLENSACK OPTICAL

Project Number: 2182207

Lab Number: L1960377

Report Date: 01/23/20

| Parameter                                                                                                                   | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1322461-4 QC Sample: L1960349-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Aluminum, Total                                                                                                             | 694           | 616              | mg/kg | 12  |      | 20         |
| Antimony, Total                                                                                                             | ND            | ND               | mg/kg | NC  |      | 20         |
| Arsenic, Total                                                                                                              | ND            | ND               | mg/kg | NC  |      | 20         |
| Barium, Total                                                                                                               | 15.9          | 10.9             | mg/kg | 37  | Q    | 20         |
| Beryllium, Total                                                                                                            | ND            | ND               | mg/kg | NC  |      | 20         |
| Cadmium, Total                                                                                                              | 1.19          | 0.538J           | mg/kg | NC  |      | 20         |
| Calcium, Total                                                                                                              | 135           | 118              | mg/kg | 13  |      | 20         |
| Chromium, Total                                                                                                             | 5.80          | 6.27             | mg/kg | 8   |      | 20         |
| Cobalt, Total                                                                                                               | 0.201J        | 0.186J           | mg/kg | NC  |      | 20         |
| Copper, Total                                                                                                               | 119           | 82.6             | mg/kg | 36  | Q    | 20         |
| Iron, Total                                                                                                                 | 1030          | 1040             | mg/kg | 1   |      | 20         |
| Lead, Total                                                                                                                 | 6.81          | 5.46             | mg/kg | 22  | Q    | 20         |
| Magnesium, Total                                                                                                            | 192           | 229              | mg/kg | 18  |      | 20         |
| Manganese, Total                                                                                                            | 2.93          | 3.29             | mg/kg | 12  |      | 20         |
| Nickel, Total                                                                                                               | 1.10J         | 1.07J            | mg/kg | NC  |      | 20         |
| Potassium, Total                                                                                                            | 69.6J         | 63.9J            | mg/kg | NC  |      | 20         |
| Selenium, Total                                                                                                             | 0.835J        | 1.05J            | mg/kg | NC  |      | 20         |
| Silver, Total                                                                                                               | 64.2          | 61.7             | mg/kg | 4   |      | 20         |
| Sodium, Total                                                                                                               | 8.35J         | 5.83J            | mg/kg | NC  |      | 20         |

# Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                                   | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1322461-4 QC Sample: L1960349-01 Client ID: DUP Sample |               |                  |       |     |            |
| Thallium, Total                                                                                                             | ND            | ND               | mg/kg | NC  | 20         |
| Vanadium, Total                                                                                                             | 1.61          | 1.62             | mg/kg | 1   | 20         |
| Zinc, Total                                                                                                                 | 101           | 76.9             | mg/kg | 27  | Q 20       |
| Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1322485-4 QC Sample: L1960536-01 Client ID: DUP Sample |               |                  |       |     |            |
| Mercury, Total                                                                                                              | ND            | ND               | mg/kg | NC  | 20         |



# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-01  
**Client ID:** DIS-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.2   |           | %     | 0.100 | NA  | 1                  | -                | 12/19/19 13:41   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-02  
**Client ID:** DIS-02-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:30  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 84.6   |           | %     | 0.100 | NA  | 1                  | -                | 12/19/19 13:41   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### SAMPLE RESULTS

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL  | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |      |                 |                |                |                   |         |
| Solids, Total                       | 83.2   |           | %     | 0.100 | NA   | 1               | -              | 12/19/19 13:41 | 121,2540G         | RI      |
| Cyanide, Total                      | ND     |           | mg/kg | 1.1   | 0.23 | 1               | 12/20/19 14:15 | 12/20/19 16:29 | 1,9010C/9012B     | LH      |



**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**Method Blank Analysis**  
**Batch Quality Control**

| Parameter                                                                | Result | Qualifier | Units | RL   | MDL  | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|--------------------------------------------------------------------------|--------|-----------|-------|------|------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1323307-1 |        |           |       |      |      |                    |                  |                  |                      |         |
| Cyanide, Total                                                           | ND     |           | mg/kg | 0.84 | 0.18 | 1                  | 12/20/19 14:15   | 12/20/19 16:20   | 1,9010C/9012B        | LH      |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1960377**Report Date:** 01/23/20

| Parameter                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1323307-2 WG1323307-3 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Total                                                                              | 103              |      | 96                |      | 80-120              | 7   |      | 35         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                                                     | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1323307-4 WG1323307-5 QC Sample: L1961011-02 Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Cyanide, Total                                                                                                                                | ND            | 11       | 9.9      | 91           |      | 9.2       | 85            |      | 75-125          | 7   |      | 35         |

**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1960377**Report Date:** 01/23/20

| Parameter                                                                                                                             | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1322811-1 QC Sample: L1960338-02 Client ID: DUP Sample |               |                  |       |     |      |            |
| Solids, Total                                                                                                                         | 72.6          | 73.1             | %     | 1   |      | 20         |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Serial\_No:** 01232019:03  
**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

#### Cooler Information

| Cooler | Custody Seal |
|--------|--------------|
| A      | Absent       |

#### Container Information

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                              |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L1960377-01A | Vial MeOH preserved                    | A      | NA         |          | 3.7        | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-01B | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-01C | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-01D | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.7        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L1960377-02A | Vial MeOH preserved                    | A      | NA         |          | 3.7        | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-02B | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-02C | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-02D | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.7        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L1960377-03A | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.7        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L1960377-03B | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 3.7        | Y    | Absent |                  | BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180) |
| L1960377-03C | Plastic 8oz unpreserved                | A      | NA         |          | 3.7        | Y    | Absent |                  | A2-NY-537-ISOTOPE(28)                                                                                                                                                                                                                                    |
| L1960377-03D | Glass 250ml/8oz unpreserved            | A      | NA         |          | 3.7        | Y    | Absent |                  | TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:01232019:03  
**Lab Number:** L1960377  
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## PFAS PARAMETER SUMMARY

| Parameter                                                               | Acronym      | CAS Number  |
|-------------------------------------------------------------------------|--------------|-------------|
| <b>PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)</b>                          |              |             |
| Perfluorooctadecanoic Acid                                              | PFODA        | 16517-11-6  |
| Perfluorohexadecanoic Acid                                              | PFHxDA       | 67905-19-5  |
| Perfluorotetradecanoic Acid                                             | PFTA         | 376-06-7    |
| Perfluorotridecanoic Acid                                               | PFTrDA       | 72629-94-8  |
| Perfluorododecanoic Acid                                                | PFDoA        | 307-55-1    |
| Perfluoroundecanoic Acid                                                | PFUnA        | 2058-94-8   |
| Perfluorodecanoic Acid                                                  | PFDA         | 335-76-2    |
| Perfluorononanoic Acid                                                  | PFNA         | 375-95-1    |
| Perfluorooctanoic Acid                                                  | PFOA         | 335-67-1    |
| Perfluoroheptanoic Acid                                                 | PFHpA        | 375-85-9    |
| Perfluorohexanoic Acid                                                  | PFHxA        | 307-24-4    |
| Perfluoropentanoic Acid                                                 | PFPeA        | 2706-90-3   |
| Perfluorobutanoic Acid                                                  | PFBA         | 375-22-4    |
| <b>PERFLUOROALKYL SULFONIC ACIDS (PFSAs)</b>                            |              |             |
| Perfluorododecanesulfonic Acid                                          | PFDoDS       | 79780-39-5  |
| Perfluorodecanesulfonic Acid                                            | PFDS         | 335-77-3    |
| Perfluorononanesulfonic Acid                                            | PFNS         | 68259-12-1  |
| Perfluorooctanesulfonic Acid                                            | PFOS         | 1763-23-1   |
| Perfluoroheptanesulfonic Acid                                           | PFHpS        | 375-92-8    |
| Perfluorohexanesulfonic Acid                                            | PFHxS        | 355-46-4    |
| Perfluoropentanesulfonic Acid                                           | PFPeS        | 2706-91-4   |
| Perfluorobutanesulfonic Acid                                            | PFBS         | 375-73-5    |
| <b>FLUOROTELOMERS</b>                                                   |              |             |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid                              | 10:2FTS      | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid                                | 8:2FTS       | 39108-34-4  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid                                | 6:2FTS       | 27619-97-2  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid                                | 4:2FTS       | 757124-72-4 |
| <b>PERFLUOROALKANE SULFONAMIDES (FASAs)</b>                             |              |             |
| Perfluorooctanesulfonamide                                              | FOSA         | 754-91-6    |
| N-Ethyl Perfluorooctane Sulfonamide                                     | NEtFOSA      | 4151-50-2   |
| N-Methyl Perfluorooctane Sulfonamide                                    | NMeFOSA      | 31506-32-8  |
| <b>PERFLUOROALKANE SULFONYL SUBSTANCES</b>                              |              |             |
| N-Ethyl Perfluorooctanesulfonamido Ethanol                              | NEtFOSE      | 1691-99-2   |
| N-Methyl Perfluorooctanesulfonamido Ethanol                             | NMeFOSE      | 24448-09-7  |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid                           | NEtFOSAA     | 2991-50-6   |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid                          | NMeFOSAA     | 2355-31-9   |
| <b>PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS</b>                  |              |             |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA      | 13252-13-6  |
| 4,8-Dioxa-3h-Perfluorononanoic Acid                                     | ADONA        | 919005-14-4 |
| <b>CHLORO-PERFLUOROALKYL SULFONIC ACIDS</b>                             |              |             |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid                     | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid                        | 9Cl-PF3ONS   | 756426-58-1 |

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## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

## Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

## Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

**Report Format:** DU Report with 'J' Qualifiers



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**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 15

Department: **Quality Assurance**

Published Date: 8/15/2019 9:53:42 AM

Title: **Certificate/Approval Program Summary**

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B, SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



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# APPENDIX E

## Photo Log



May 22, 2019 – View of AST tank vault prior to tank removal.  
View looking east.



May 22, 2019 – View of AST tank vault with top removed.  
View looking east.



May 22, 2019 – View of corroded 275-gallon ASTs being  
loaded onto trailer looking west.



May 22, 2019 – View of second load of corroded 275-gallon  
ASTs being loaded onto trailer looking west.



May 22, 2019 – View of AST removal and inerting AST using  
CO<sub>2</sub>. View looking northwest.



November 13, 2020 – T&R pumping southern UST view  
looking South.





November 13, 2020 – Test pit excavation along site southern UST.



November 25, 2019 – Boiler pit with water and petroleum residue.



December 19, 2019 – 1,000 gallon UST removal immediately east of the Site building. View looking SW.



December 19, 2019 – View of south end of 1,000 gallon UST. Several small holes identified in tank.



December 19, 2020 – Southern UST removed from excavation. Looking north northwest.



December 19, 2020 – 1,000 gallon UST removed from tank pit and loaded onto trailer. View looking west.





December 30 – Basement floor removed, water pooled in basement facing southwest.



December 30, 2019 – Basement floor removed, water in basement, facing southeast.



January 8, 2020 – View of trenches and plumbing installation looking southwest.



January 14, 2020 – Plumbing installation trenches backfilled view looking southwest.



January 14, 2020 – Plumbing installation trenches backfilled view looking west



January 14, 2020 – Backfilling plumbing trenches view looking northeast.





January 14, 2020 – Backfilled plumbing trenches view looking northwest.



February 4, 2020 – On-site excavation and staging of soil removal for installation of sewer lateral. View looking SW.



February 4, 2020 – View of sewer lateral excavation looking east.



February 4, 2020 – View of imported stone stockpiles, looking east.



February 4, 2020 – View of soil removed as part of sewer lateral excavation stage on poly sheeting and covered in poly.



February 5, 2020 – Sewer lateral excavation towards east and excavated south towards building. View looking SE



February 5, 2020 – View of sewer lateral excavation looking east with some stone backfill and bedding



February 5, 2020 – View of installed sewer piping looking east.



February 5, 2019 – View of soil staged on poly and covered with poly. Soil from sewer later excavation. View looking NW.



# APPENDIX F

## Waste Disposal Documentation

# **ASTs and UST Disposal Documentation**



Tank Disposal Documentation

Former Wollensack Optical, BCP Site C828209

876 and 886 Hudson Avenue, Rochester, NY

LaBella Project No. 2182207

| Item | Description                                                                                                                        | Date Recycled |
|------|------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1    | Dropped off Seven (7) 275-gallon metal aboveground tanks for recycling at Metalico Rochester, 1615 Scottsville Road, Rochester, NY | 5/22/2019     |
| 2    | Dropped off one (1) 1,000-gallon metal tank for recycling at Metalico Rochester, 1615 Scottsville Road, Rochester, NY              | 12/18/2019    |

David K. Engert



6/8/2020

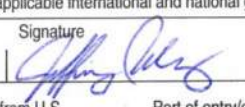
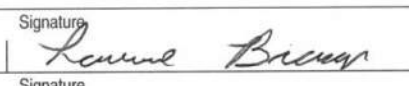
\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

# Boiler Pit Contents

TANK 3+4

|                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|--------------|--|------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|--------------------------------------------------|--|---------------------------------------------------|--|
| <b>NON-HAZARDOUS<br/>WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                  |  | 1. Generator ID Number<br><div style="text-align: center;">N/A</div> |  | 2. Page 1 of |  | 3. Emergency Response Phone<br><div style="text-align: center;">800-659-0556</div>                                                       |  | 4. Waste Tracking Number<br><div style="text-align: center;">4190</div> |  |                                                  |  |                                                   |  |
| 5. Generator's Name and Mailing Address<br><div style="text-align: center;">Jefferson Wollensack<br/>872 Hudson Ave<br/>Rochester, NY 14624</div>                                                                                                                                                                                                                        |  |                                                                      |  |              |  | Generator's Site Address (if different than mailing address)<br><div style="text-align: center;">SAME</div>                              |  |                                                                         |  |                                                  |  |                                                   |  |
| 6. Transporter 1 Company Name<br><div style="text-align: center;">FINGER LAKES ENVIROTECH, LLC</div>                                                                                                                                                                                                                                                                     |  |                                                                      |  |              |  | U.S. EPA ID Number<br><div style="text-align: center;">NYR00178632</div>                                                                 |  |                                                                         |  |                                                  |  |                                                   |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                                                                      |  |              |  | U.S. EPA ID Number                                                                                                                       |  |                                                                         |  |                                                  |  |                                                   |  |
| 8. Designated Facility Name and Site Address<br><div style="text-align: center;">Coranta Niagara<br/>716-278-8500 8335 Quarry Road<br/>Niagara Falls, NY 14304</div>                                                                                                                                                                                                     |  |                                                                      |  |              |  | U.S. EPA ID Number                                                                                                                       |  |                                                                         |  |                                                  |  |                                                   |  |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  |                                                                      |  |              |  | 10. Containers                                                                                                                           |  | 11. Total Quantity                                                      |  | 12. Unit Wt./Vol.                                |  |                                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                      |  |              |  | No. Type                                                                                                                                 |  |                                                                         |  |                                                  |  |                                                   |  |
| 1. Non RCRA, Non DOT Regulated Liquids<br>(Petroleum impacted water)                                                                                                                                                                                                                                                                                                     |  |                                                                      |  |              |  | 1 TT                                                                                                                                     |  | 722                                                                     |  | G                                                |  |                                                   |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 13. Special Handling Instructions and Additional Information                                                                                                                                                                                                                                                                                                             |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| Generator's/Offor's Printed/Typed Name<br><div style="text-align: center;">Jeffrey Folger * Agent of Jefferson Wollensack</div>                                                                                                                                                                                                                                          |  |                                                                      |  |              |  | Signature<br><div style="text-align: center;"></div> |  | Month<br><div style="text-align: center;">12</div>                      |  | Day<br><div style="text-align: center;">3</div>  |  | Year<br><div style="text-align: center;">19</div> |  |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.                                                                                                                                                                                                                                                            |  |                                                                      |  |              |  | Port of entry/exit:<br>Date leaving U.S.:                                                                                                |  |                                                                         |  |                                                  |  |                                                   |  |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| Transporter 1 Printed/Typed Name<br><div style="text-align: center;">LAVERNE BROWN</div>                                                                                                                                                                                                                                                                                 |  |                                                                      |  |              |  | Signature<br><div style="text-align: center;"></div> |  | Month<br><div style="text-align: center;">12</div>                      |  | Day<br><div style="text-align: center;">3</div>  |  | Year<br><div style="text-align: center;">19</div> |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                                                                      |  |              |  | Signature                                                                                                                                |  | Month                                                                   |  | Day                                              |  | Year                                              |  |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                               |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 17b. Alternate Facility (or Generator) U.S. EPA ID Number                                                                                                                                                                                                                                                                                                                |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 17c. Signature of Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                      |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                                                                      |  |              |  |                                                                                                                                          |  |                                                                         |  |                                                  |  |                                                   |  |
| Printed/Typed Name<br><div style="text-align: center;">TRANSFERRED TO BULK LOAD, MANIFEST # 4385, FOR FINAL DISPOSAL</div>                                                                                                                                                                                                                                               |  |                                                                      |  |              |  | Signature                                                                                                                                |  | Month<br><div style="text-align: center;">01</div>                      |  | Day<br><div style="text-align: center;">23</div> |  | Year<br><div style="text-align: center;">20</div> |  |

TANK 3

|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       |                             |                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                      |  | 1. Generator ID Number               | 2. Page 1 of 1                                                                                                                        | 3. Emergency Response Phone | 4. Waste Tracking Number<br><b>4397</b> |
| 5. Generator's Name and Mailing Address<br><b>LABELLA</b>                                                                                                                                                                                                                                                                                                                |  |                                      | Generator's Site Address (if different than mailing address)<br><b>HAMILTON STERN CONSTRUCTION<br/>HUDSON AVE.<br/>ROCHESTER N.Y.</b> |                             |                                         |
| Generator's Phone: <b>585-880-3340</b>                                                                                                                                                                                                                                                                                                                                   |  |                                      | U.S. EPA ID Number<br><b>NYR00178632</b>                                                                                              |                             |                                         |
| 6. Transporter 1 Company Name<br><b>FINGER LAKES ENVIROTECH, LLC</b>                                                                                                                                                                                                                                                                                                     |  |                                      | U.S. EPA ID Number                                                                                                                    |                             |                                         |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                                      | U.S. EPA ID Number                                                                                                                    |                             |                                         |
| 8. Designated Facility Name and Site Address                                                                                                                                                                                                                                                                                                                             |  |                                      | U.S. EPA ID Number                                                                                                                    |                             |                                         |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                                      |                                                                                                                                       |                             |                                         |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  | 10. Containers                       |                                                                                                                                       | 11. Total Quantity          | 12. Unit Wt./Vol.                       |
|                                                                                                                                                                                                                                                                                                                                                                          |  | No.                                  | Type                                                                                                                                  |                             |                                         |
| 1. <b>oily water</b>                                                                                                                                                                                                                                                                                                                                                     |  | <b>1</b>                             | <b>TT</b>                                                                                                                             | <b>500</b>                  | <b>gal</b>                              |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                                      |                                                                                                                                       |                             |                                         |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                                      |                                                                                                                                       |                             |                                         |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                                      |                                                                                                                                       |                             |                                         |
| 13. Special Handling Instructions and Additional Information                                                                                                                                                                                                                                                                                                             |  |                                      |                                                                                                                                       |                             |                                         |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                                      |                                                                                                                                       |                             |                                         |
| Generator's/Offoror's Printed/Typed Name<br><b>Josh</b>                                                                                                                                                                                                                                                                                                                  |  | Signature                            |                                                                                                                                       | Month                       | Day Year                                |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       |                             |                                         |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____                                                                                                                                                                                                                                  |  |                                      |                                                                                                                                       |                             |                                         |
| Transporter Signature (for exports only): _____ Date leaving U.S.: _____                                                                                                                                                                                                                                                                                                 |  |                                      |                                                                                                                                       |                             |                                         |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                                      |                                                                                                                                       |                             |                                         |
| Transporter 1 Printed/Typed Name<br><b>LAVERNE BROWN</b>                                                                                                                                                                                                                                                                                                                 |  | Signature<br><i>LaVerne Brown</i>    |                                                                                                                                       | Month                       | Day Year                                |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       | <b>4</b>                    | <b>7</b> <b>20</b>                      |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  | Signature                            |                                                                                                                                       | Month                       | Day Year                                |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       |                             |                                         |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       |                             |                                         |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                                      |                                                                                                                                       |                             |                                         |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                               |  |                                      |                                                                                                                                       |                             |                                         |
| 17b. Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                                   |  |                                      | U.S. EPA ID Number                                                                                                                    |                             |                                         |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                                      |                                                                                                                                       |                             |                                         |
| 17c. Signature of Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                      |  |                                      | Month Day Year                                                                                                                        |                             |                                         |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       |                             |                                         |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                                      |                                                                                                                                       |                             |                                         |
| Printed/Typed Name<br><b>Jamie L. Herbert BAF</b>                                                                                                                                                                                                                                                                                                                        |  | Signature<br><i>Jamie L. Herbert</i> |                                                                                                                                       | Month                       | Day Year                                |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                                       | <b>4</b>                    | <b>22</b> <b>2022</b>                   |

# **Parking Lot Box Out Disposal Documentation**



# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management  
625 Broadway, 9th Floor, Albany, New York 12233-7256  
P: (518) 402-8651 | F: (518) 402-9024  
[www.dec.ny.gov](http://www.dec.ny.gov)

December 30, 2019

**Sent via e-mail, no hard copy to follow**

Jennifer Gillen, PG  
Brownfield & Phase II Program Manager  
LaBella Associates  
300 State Street, Suite 201  
Rochester, NY 14614

Re: "Contained-In" Determination Request  
Former Wollensack Optical  
872 Hudson Ave, Rochester, NY  
NYSDEC Site No. C828209

Dear Ms. Gillen:

The New York State Department of Environmental Conservation (NYSDEC or the Department) have completed our review of the soil sampling data from the excavated soil (Lab Sample ID: L1960048-01 and L1960048-02) submitted on December 23, 2019, via e-mail request for a "contained-in" determination for the referenced project.

Concentrations detected for individual volatile organic compounds (VOCs) were all less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations (Lab Samples ID L1960048-01 and L1960048-02) for tetrachloroethene, trichloroethene and cis-1,2-dichloroethene were below the soil "contained-in" action level and the Land Disposal Restriction concentration. Therefore, excavated soil, approximately 650 cubic yards (CY) of material as well as removal of an approximately 30-40-CY soil pile, generated during the remedial activities at the subject property, do not have to be managed as a hazardous waste and can be transported off-site to at High Acres or Mill Seat Landfill or another permitted 360 solid waste facility able to accept this material, for disposal as non-hazardous waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at [henry.wilkie@dec.ny.gov](mailto:henry.wilkie@dec.ny.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen G. Malsan".

*Stephen G. Malsan, P.E. for*  
Henry Wilkie  
Assistant Environmental Engineer  
RCRA Permitting Section

ec: C. Theobald, NYSDEC Region 8



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L1960048                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 12/23/19                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b>   | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|--------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1960048-01                | COMP1-121219-0-2FT | SOIL          | ROCHESTER, NY              | 12/12/19 12:00                  | 12/13/19            |
| L1960048-02                | COMP2-121219-0-2FT | SOIL          | ROCHESTER, NY              | 12/12/19 16:00                  | 12/13/19            |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

### Case Narrative (continued)

#### Report Submission

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

#### Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

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

Authorized Signature:

*Melissa Sturgis* Melissa Sturgis

Title: Technical Director/Representative

Date: 12/23/19

# ORGANICS

# **VOLATILES**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-01  
**Client ID:** COMP1-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 12:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/17/19 08:05  
**Analyst:** MM  
**Percent Solids:** 90%  
**TCLP/SPLP Ext. Date:** 12/14/19 13:18

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab |        |           |       |     |      |                 |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 2.2  | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 0.71 | 10              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 1.7  | 10              |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 1.9  | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19.  | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 131        | Q         | 70-130              |
| Toluene-d8            | 103        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| dibromofluoromethane  | 120        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-01  
**Client ID:** COMP1-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 12:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/20/19 10:44  
**Analyst:** MKS  
**Percent Solids:** 90%

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/kg | 4.6  | 2.1  | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/kg | 0.92 | 0.13 | 1               |
| Chloroform                                   | ND     |           | ug/kg | 1.4  | 0.13 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/kg | 0.92 | 0.21 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/kg | 0.92 | 0.12 | 1               |
| Dibromochloromethane                         | ND     |           | ug/kg | 0.92 | 0.13 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/kg | 0.92 | 0.25 | 1               |
| Tetrachloroethene                            | ND     |           | ug/kg | 0.46 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/kg | 0.46 | 0.12 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/kg | 3.7  | 0.64 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/kg | 0.92 | 0.24 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/kg | 0.46 | 0.15 | 1               |
| Bromodichloromethane                         | ND     |           | ug/kg | 0.46 | 0.10 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/kg | 0.92 | 0.25 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/kg | 0.46 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/kg | 3.7  | 0.23 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/kg | 0.46 | 0.15 | 1               |
| Benzene                                      | ND     |           | ug/kg | 0.46 | 0.15 | 1               |
| Toluene                                      | ND     |           | ug/kg | 0.92 | 0.50 | 1               |
| Ethylbenzene                                 | ND     |           | ug/kg | 0.92 | 0.13 | 1               |
| Chloromethane                                | ND     |           | ug/kg | 3.7  | 0.86 | 1               |
| Bromomethane                                 | ND     |           | ug/kg | 1.8  | 0.54 | 1               |
| Vinyl chloride                               | ND     |           | ug/kg | 0.92 | 0.31 | 1               |
| Chloroethane                                 | ND     |           | ug/kg | 1.8  | 0.42 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/kg | 0.92 | 0.22 | 1               |
| trans-1,2-Dichloroethene                     | 0.24   | J         | ug/kg | 1.4  | 0.13 | 1               |
| Trichloroethene                              | ND     |           | ug/kg | 0.46 | 0.13 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/kg | 1.8  | 0.13 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-01  
**Client ID:** COMP1-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 12:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/kg | 1.8  | 0.14 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/kg | 1.8  | 0.16 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/kg | 1.8  | 0.18 | 1               |
| p/m-Xylene                                   | ND     |           | ug/kg | 1.8  | 0.52 | 1               |
| o-Xylene                                     | ND     |           | ug/kg | 0.92 | 0.27 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/kg | 0.92 | 0.16 | 1               |
| Styrene                                      | ND     |           | ug/kg | 0.92 | 0.18 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/kg | 9.2  | 0.84 | 1               |
| Acetone                                      | ND     |           | ug/kg | 9.2  | 4.4  | 1               |
| Carbon disulfide                             | ND     |           | ug/kg | 9.2  | 4.2  | 1               |
| 2-Butanone                                   | ND     |           | ug/kg | 9.2  | 2.0  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/kg | 9.2  | 1.2  | 1               |
| 2-Hexanone                                   | ND     |           | ug/kg | 9.2  | 1.1  | 1               |
| Bromochloromethane                           | ND     |           | ug/kg | 1.8  | 0.19 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/kg | 0.92 | 0.26 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/kg | 2.8  | 0.92 | 1               |
| Isopropylbenzene                             | ND     |           | ug/kg | 0.92 | 0.10 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/kg | 1.8  | 0.30 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/kg | 1.8  | 0.25 | 1               |
| Methyl Acetate                               | ND     |           | ug/kg | 3.7  | 0.88 | 1               |
| Cyclohexane                                  | ND     |           | ug/kg | 9.2  | 0.50 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/kg | 74   | 32.  | 1               |
| Freon-113                                    | ND     |           | ug/kg | 3.7  | 0.64 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/kg | 3.7  | 0.56 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93         |           | 70-130              |
| Toluene-d8            | 106        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 94         |           | 70-130              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-02  
**Client ID:** COMP2-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 16:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/18/19 08:07  
**Analyst:** MM  
**Percent Solids:** 89%  
**TCLP/SPLP Ext. Date:** 12/17/19 10:45

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab |        |           |       |     |      |                 |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 2.2  | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 0.71 | 10              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 1.7  | 10              |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 1.9  | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19.  | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 111        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 102        |           | 70-130              |
| dibromofluoromethane  | 115        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-02  
**Client ID:** COMP2-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 16:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/20/19 11:10  
**Analyst:** MKS  
**Percent Solids:** 89%

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/kg | 5.1  | 2.3  | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                   | ND     |           | ug/kg | 1.5  | 0.14 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/kg | 1.0  | 0.13 | 1               |
| Dibromochloromethane                         | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| Tetrachloroethene                            | ND     |           | ug/kg | 0.51 | 0.20 | 1               |
| Chlorobenzene                                | ND     |           | ug/kg | 0.51 | 0.13 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/kg | 4.1  | 0.71 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/kg | 1.0  | 0.26 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/kg | 0.51 | 0.17 | 1               |
| Bromodichloromethane                         | ND     |           | ug/kg | 0.51 | 0.11 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/kg | 0.51 | 0.16 | 1               |
| Bromoform                                    | ND     |           | ug/kg | 4.1  | 0.25 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/kg | 0.51 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/kg | 0.51 | 0.17 | 1               |
| Toluene                                      | ND     |           | ug/kg | 1.0  | 0.56 | 1               |
| Ethylbenzene                                 | ND     |           | ug/kg | 1.0  | 0.14 | 1               |
| Chloromethane                                | ND     |           | ug/kg | 4.1  | 0.95 | 1               |
| Bromomethane                                 | ND     |           | ug/kg | 2.0  | 0.59 | 1               |
| Vinyl chloride                               | ND     |           | ug/kg | 1.0  | 0.34 | 1               |
| Chloroethane                                 | ND     |           | ug/kg | 2.0  | 0.46 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| trans-1,2-Dichloroethene                     | 0.24   | J         | ug/kg | 1.5  | 0.14 | 1               |
| Trichloroethene                              | ND     |           | ug/kg | 0.51 | 0.14 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/kg | 2.0  | 0.15 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-02  
**Client ID:** COMP2-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 16:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/kg | 2.0 | 0.15 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/kg | 2.0 | 0.17 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/kg | 2.0 | 0.20 | 1               |
| p/m-Xylene                                   | ND     |           | ug/kg | 2.0 | 0.57 | 1               |
| o-Xylene                                     | ND     |           | ug/kg | 1.0 | 0.30 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/kg | 1.0 | 0.18 | 1               |
| Styrene                                      | ND     |           | ug/kg | 1.0 | 0.20 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/kg | 10  | 0.94 | 1               |
| Acetone                                      | ND     |           | ug/kg | 10  | 4.9  | 1               |
| Carbon disulfide                             | ND     |           | ug/kg | 10  | 4.6  | 1               |
| 2-Butanone                                   | ND     |           | ug/kg | 10  | 2.3  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/kg | 10  | 1.3  | 1               |
| 2-Hexanone                                   | ND     |           | ug/kg | 10  | 1.2  | 1               |
| Bromochloromethane                           | ND     |           | ug/kg | 2.0 | 0.21 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/kg | 1.0 | 0.28 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/kg | 3.1 | 1.0  | 1               |
| Isopropylbenzene                             | ND     |           | ug/kg | 1.0 | 0.11 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/kg | 2.0 | 0.33 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/kg | 2.0 | 0.28 | 1               |
| Methyl Acetate                               | ND     |           | ug/kg | 4.1 | 0.97 | 1               |
| Cyclohexane                                  | ND     |           | ug/kg | 10  | 0.56 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/kg | 82  | 36.  | 1               |
| Freon-113                                    | ND     |           | ug/kg | 4.1 | 0.71 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/kg | 4.1 | 0.62 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92         |           | 70-130              |
| Toluene-d8            | 107        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 92         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/17/19 04:00  
 Analyst: MM  
 TCLP/SPLP Extraction Date: 12/14/19 13:18

Extraction Date: 12/14/19 13:18

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1321565-5 |        |           |       |     |      |
| Chloroform                                                                        | ND     |           | ug/l  | 7.5 | 2.2  |
| Carbon tetrachloride                                                              | ND     |           | ug/l  | 5.0 | 1.3  |
| Tetrachloroethene                                                                 | ND     |           | ug/l  | 5.0 | 1.8  |
| Chlorobenzene                                                                     | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,2-Dichloroethane                                                                | ND     |           | ug/l  | 5.0 | 1.3  |
| Benzene                                                                           | ND     |           | ug/l  | 5.0 | 1.6  |
| Vinyl chloride                                                                    | ND     |           | ug/l  | 10  | 0.71 |
| 1,1-Dichloroethene                                                                | ND     |           | ug/l  | 5.0 | 1.7  |
| Trichloroethene                                                                   | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,4-Dichlorobenzene                                                               | ND     |           | ug/l  | 25  | 1.9  |
| 2-Butanone                                                                        | ND     |           | ug/l  | 50  | 19.  |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 123       |           | 70-130                 |
| Toluene-d8            | 104       |           | 70-130                 |
| 4-Bromofluorobenzene  | 97        |           | 70-130                 |
| dibromofluoromethane  | 117       |           | 70-130                 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/18/19 07:01  
Analyst: MM  
TCLP/SPLP Extraction Date: 12/17/19 10:45

Extraction Date: 12/17/19 10:45

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1322160-5 |        |           |       |     |      |
| Chloroform                                                                        | ND     |           | ug/l  | 7.5 | 2.2  |
| Carbon tetrachloride                                                              | ND     |           | ug/l  | 5.0 | 1.3  |
| Tetrachloroethene                                                                 | ND     |           | ug/l  | 5.0 | 1.8  |
| Chlorobenzene                                                                     | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,2-Dichloroethane                                                                | ND     |           | ug/l  | 5.0 | 1.3  |
| Benzene                                                                           | ND     |           | ug/l  | 5.0 | 1.6  |
| Vinyl chloride                                                                    | ND     |           | ug/l  | 10  | 0.71 |
| 1,1-Dichloroethene                                                                | ND     |           | ug/l  | 5.0 | 1.7  |
| Trichloroethene                                                                   | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,4-Dichlorobenzene                                                               | ND     |           | ug/l  | 25  | 1.9  |
| 2-Butanone                                                                        | ND     |           | ug/l  | 50  | 19.  |

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 115       |           | 70-130              |
| Toluene-d8            | 103       |           | 70-130              |
| 4-Bromofluorobenzene  | 108       |           | 70-130              |
| dibromofluoromethane  | 114       |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/20/19 08:11  
 Analyst: MV

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1323302-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                           | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                 | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                 | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                    | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                        | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                               | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                 | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                            | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,2,2-Tetrachloroethane                                                            | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                              | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                         | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                        | ND     |           | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                         | ND     |           | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                       | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                         | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                      | ND     |           | ug/kg | 0.50 | 0.14 |
| 1,2-Dichlorobenzene                                                                  | 0.17   | J         | ug/kg | 2.0  | 0.14 |
| 1,3-Dichlorobenzene                                                                  | 0.16   | J         | ug/kg | 2.0  | 0.15 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/20/19 08:11  
 Analyst: MV

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1323302-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                  | 0.23   | J         | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether                                                              | ND     |           | ug/kg | 2.0 | 0.20 |
| p/m-Xylene                                                                           | ND     |           | ug/kg | 2.0 | 0.56 |
| o-Xylene                                                                             | ND     |           | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/kg | 1.0 | 0.18 |
| Styrene                                                                              | 0.22   | J         | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/kg | 10  | 0.92 |
| Acetone                                                                              | ND     |           | ug/kg | 10  | 4.8  |
| Carbon disulfide                                                                     | ND     |           | ug/kg | 10  | 4.6  |
| 2-Butanone                                                                           | ND     |           | ug/kg | 10  | 2.2  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/kg | 10  | 1.3  |
| 2-Hexanone                                                                           | ND     |           | ug/kg | 10  | 1.2  |
| Bromochloromethane                                                                   | ND     |           | ug/kg | 2.0 | 0.20 |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/kg | 1.0 | 0.28 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/kg | 3.0 | 1.0  |
| Isopropylbenzene                                                                     | 0.11   | J         | ug/kg | 1.0 | 0.11 |
| 1,2,3-Trichlorobenzene                                                               | 0.87   | J         | ug/kg | 2.0 | 0.32 |
| 1,2,4-Trichlorobenzene                                                               | 0.63   | J         | ug/kg | 2.0 | 0.27 |
| Methyl Acetate                                                                       | ND     |           | ug/kg | 4.0 | 0.95 |
| Cyclohexane                                                                          | ND     |           | ug/kg | 10  | 0.54 |
| 1,4-Dioxane                                                                          | ND     |           | ug/kg | 80  | 35.  |
| Freon-113                                                                            | ND     |           | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane                                                                   | ND     |           | ug/kg | 4.0 | 0.60 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/20/19 08:11  
Analyst: MV

| Parameter                                                                            | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1323302-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 92        |           | 70-130                 |
| Toluene-d8            | 104       |           | 70-130                 |
| 4-Bromofluorobenzene  | 96        |           | 70-130                 |
| Dibromofluoromethane  | 92        |           | 70-130                 |



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1321565-3 WG1321565-4 |                  |      |                   |      |                     |     |      |               |
| Chloroform                                                                                           | 100              |      | 97                |      | 70-130              | 3   |      | 20            |
| Carbon tetrachloride                                                                                 | 130              |      | 120               |      | 63-132              | 8   |      | 20            |
| Tetrachloroethene                                                                                    | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Chlorobenzene                                                                                        | 97               |      | 95                |      | 75-130              | 2   |      | 25            |
| 1,2-Dichloroethane                                                                                   | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| Benzene                                                                                              | 90               |      | 86                |      | 70-130              | 5   |      | 25            |
| Vinyl chloride                                                                                       | 96               |      | 87                |      | 55-140              | 10  |      | 20            |
| 1,1-Dichloroethene                                                                                   | 100              |      | 87                |      | 61-145              | 14  |      | 25            |
| Trichloroethene                                                                                      | 100              |      | 98                |      | 70-130              | 2   |      | 25            |
| 1,4-Dichlorobenzene                                                                                  | 95               |      | 92                |      | 70-130              | 3   |      | 20            |
| 2-Butanone                                                                                           | 52               | Q    | 52                | Q    | 63-138              | 0   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 121              |      | 123               |      | 70-130                 |
| Toluene-d8            | 102              |      | 101               |      | 70-130                 |
| 4-Bromofluorobenzene  | 90               |      | 89                |      | 70-130                 |
| dibromofluoromethane  | 114              |      | 117               |      | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960048

**Report Date:** 12/23/19

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1322160-3 WG1322160-4 |                  |      |                   |      |                     |     |      |               |
| Chloroform                                                                                           | 100              |      | 110               |      | 70-130              | 10  |      | 20            |
| Carbon tetrachloride                                                                                 | 100              |      | 110               |      | 63-132              | 10  |      | 20            |
| Tetrachloroethene                                                                                    | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Chlorobenzene                                                                                        | 110              |      | 120               |      | 75-130              | 9   |      | 25            |
| 1,2-Dichloroethane                                                                                   | 110              |      | 120               |      | 70-130              | 9   |      | 20            |
| Benzene                                                                                              | 97               |      | 100               |      | 70-130              | 3   |      | 25            |
| Vinyl chloride                                                                                       | 99               |      | 100               |      | 55-140              | 1   |      | 20            |
| 1,1-Dichloroethene                                                                                   | 110              |      | 110               |      | 61-145              | 0   |      | 25            |
| Trichloroethene                                                                                      | 100              |      | 110               |      | 70-130              | 10  |      | 25            |
| 1,4-Dichlorobenzene                                                                                  | 110              |      | 120               |      | 70-130              | 9   |      | 20            |
| 2-Butanone                                                                                           | 140              | Q    | 140               | Q    | 63-138              | 0   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 108              |      | 107               |      | 70-130                 |
| Toluene-d8            | 103              |      | 103               |      | 70-130                 |
| 4-Bromofluorobenzene  | 102              |      | 104               |      | 70-130                 |
| dibromofluoromethane  | 105              |      | 113               |      | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960048

**Report Date:** 12/23/19

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1323302-3 WG1323302-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,1-Dichloroethane                                                                                      | 97               |      | 97                |      | 70-130              | 0   |      | 30            |
| Chloroform                                                                                              | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| Carbon tetrachloride                                                                                    | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| 1,2-Dichloropropane                                                                                     | 100              |      | 100               |      | 70-130              | 0   |      | 30            |
| Dibromochloromethane                                                                                    | 114              |      | 114               |      | 70-130              | 0   |      | 30            |
| 1,1,2-Trichloroethane                                                                                   | 114              |      | 115               |      | 70-130              | 1   |      | 30            |
| Tetrachloroethene                                                                                       | 119              |      | 116               |      | 70-130              | 3   |      | 30            |
| Chlorobenzene                                                                                           | 107              |      | 107               |      | 70-130              | 0   |      | 30            |
| Trichlorofluoromethane                                                                                  | 95               |      | 94                |      | 70-139              | 1   |      | 30            |
| 1,2-Dichloroethane                                                                                      | 89               |      | 91                |      | 70-130              | 2   |      | 30            |
| 1,1,1-Trichloroethane                                                                                   | 96               |      | 96                |      | 70-130              | 0   |      | 30            |
| Bromodichloromethane                                                                                    | 97               |      | 97                |      | 70-130              | 0   |      | 30            |
| trans-1,3-Dichloropropene                                                                               | 124              |      | 123               |      | 70-130              | 1   |      | 30            |
| cis-1,3-Dichloropropene                                                                                 | 108              |      | 109               |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                               | 129              |      | 129               |      | 70-130              | 0   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                               | 111              |      | 112               |      | 70-130              | 1   |      | 30            |
| Benzene                                                                                                 | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| Toluene                                                                                                 | 111              |      | 109               |      | 70-130              | 2   |      | 30            |
| Ethylbenzene                                                                                            | 110              |      | 108               |      | 70-130              | 2   |      | 30            |
| Chloromethane                                                                                           | 114              |      | 112               |      | 52-130              | 2   |      | 30            |
| Bromomethane                                                                                            | 93               |      | 90                |      | 57-147              | 3   |      | 30            |
| Vinyl chloride                                                                                          | 106              |      | 104               |      | 67-130              | 2   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960048

**Report Date:** 12/23/19

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1323302-3 WG1323302-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                            | 92               |      | 92                |      | 50-151              | 0   |      | 30            |
| 1,1-Dichloroethene                                                                                      | 107              |      | 106               |      | 65-135              | 1   |      | 30            |
| trans-1,2-Dichloroethene                                                                                | 101              |      | 100               |      | 70-130              | 1   |      | 30            |
| Trichloroethene                                                                                         | 101              |      | 99                |      | 70-130              | 2   |      | 30            |
| 1,2-Dichlorobenzene                                                                                     | 117              |      | 118               |      | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                                                                                     | 118              |      | 117               |      | 70-130              | 1   |      | 30            |
| 1,4-Dichlorobenzene                                                                                     | 116              |      | 116               |      | 70-130              | 0   |      | 30            |
| Methyl tert butyl ether                                                                                 | 100              |      | 101               |      | 66-130              | 1   |      | 30            |
| p/m-Xylene                                                                                              | 111              |      | 110               |      | 70-130              | 1   |      | 30            |
| o-Xylene                                                                                                | 108              |      | 108               |      | 70-130              | 0   |      | 30            |
| cis-1,2-Dichloroethene                                                                                  | 110              |      | 110               |      | 70-130              | 0   |      | 30            |
| Styrene                                                                                                 | 115              |      | 114               |      | 70-130              | 1   |      | 30            |
| Dichlorodifluoromethane                                                                                 | 168              | Q    | 165               | Q    | 30-146              | 2   |      | 30            |
| Acetone                                                                                                 | 105              |      | 95                |      | 54-140              | 10  |      | 30            |
| Carbon disulfide                                                                                        | 100              |      | 100               |      | 59-130              | 0   |      | 30            |
| 2-Butanone                                                                                              | 94               |      | 92                |      | 70-130              | 2   |      | 30            |
| 4-Methyl-2-pentanone                                                                                    | 112              |      | 113               |      | 70-130              | 1   |      | 30            |
| 2-Hexanone                                                                                              | 98               |      | 99                |      | 70-130              | 1   |      | 30            |
| Bromochloromethane                                                                                      | 109              |      | 108               |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromoethane                                                                                       | 120              |      | 120               |      | 70-130              | 0   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                             | 118              |      | 119               |      | 68-130              | 1   |      | 30            |
| Isopropylbenzene                                                                                        | 116              |      | 114               |      | 70-130              | 2   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                  | 133              | Q    | 131               | Q    | 70-130              | 2   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1323302-3 WG1323302-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                  | 136              | Q    | 133               | Q    | 70-130              | 2   |      | 30            |
| Methyl Acetate                                                                                          | 92               |      | 95                |      | 51-146              | 3   |      | 30            |
| Cyclohexane                                                                                             | 97               |      | 97                |      | 59-142              | 0   |      | 30            |
| 1,4-Dioxane                                                                                             | 102              |      | 105               |      | 65-136              | 3   |      | 30            |
| Freon-113                                                                                               | 105              |      | 103               |      | 50-139              | 2   |      | 30            |
| Methyl cyclohexane                                                                                      | 102              |      | 101               |      | 70-130              | 1   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 88               |      | 90                |      | 70-130                 |
| Toluene-d8            | 107              |      | 107               |      | 70-130                 |
| 4-Bromofluorobenzene  | 101              |      | 100               |      | 70-130                 |
| Dibromofluoromethane  | 97               |      | 99                |      | 70-130                 |

# SEMIVOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-01  
**Client ID:** COMP1-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 12:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 06:15  
**Analyst:** SZ  
**Percent Solids:** 90%  
**TCLP/SPLP Ext. Date:** 12/15/19 05:30

**Extraction Method:** EPA 3510C  
**Extraction Date:** 12/18/19 03:40

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab |        |           |       |    |     |                 |
| Hexachlorobenzene                                | ND     |           | ug/l  | 10 | 2.9 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 25 | 4.2 | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/l  | 10 | 3.6 | 1               |
| Hexachloroethane                                 | ND     |           | ug/l  | 10 | 3.4 | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 10 | 3.8 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.4 | 1               |
| Pentachlorophenol                                | ND     |           | ug/l  | 50 | 17. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 25 | 5.1 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 25 | 5.6 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.6 | 1               |
| Pyridine                                         | ND     |           | ug/l  | 18 | 9.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 71         |           | 21-120              |
| Phenol-d6            | 65         |           | 10-120              |
| Nitrobenzene-d5      | 53         |           | 23-120              |
| 2-Fluorobiphenyl     | 58         |           | 15-120              |
| 2,4,6-Tribromophenol | 94         |           | 10-120              |
| 4-Terphenyl-d14      | 66         |           | 33-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-02  
**Client ID:** COMP2-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 16:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 06:39  
**Analyst:** SZ  
**Percent Solids:** 89%  
**TCLP/SPLP Ext. Date:** 12/15/19 05:30

**Extraction Method:** EPA 3510C  
**Extraction Date:** 12/18/19 03:40

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab |        |           |       |    |     |                 |
| Hexachlorobenzene                                | ND     |           | ug/l  | 10 | 2.9 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 25 | 4.2 | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/l  | 10 | 3.6 | 1               |
| Hexachloroethane                                 | ND     |           | ug/l  | 10 | 3.4 | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 10 | 3.8 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.4 | 1               |
| Pentachlorophenol                                | ND     |           | ug/l  | 50 | 17. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 25 | 5.1 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 25 | 5.6 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.6 | 1               |
| Pyridine                                         | ND     |           | ug/l  | 18 | 9.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 85         |           | 21-120              |
| Phenol-d6            | 78         |           | 10-120              |
| Nitrobenzene-d5      | 65         |           | 23-120              |
| 2-Fluorobiphenyl     | 71         |           | 15-120              |
| 2,4,6-Tribromophenol | 114        |           | 10-120              |
| 4-Terphenyl-d14      | 78         |           | 33-120              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
 Analytical Date: 12/18/19 12:48  
 Analyst: JG  
 TCLP/SPLP Extraction Date: 12/15/19 05:30

Extraction Method: EPA 3510C  
 Extraction Date: 12/18/19 03:40

| Parameter                                                                                | Result | Qualifier | Units | RL | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1322023-1 |        |           |       |    |     |
| Hexachlorobenzene                                                                        | ND     |           | ug/l  | 10 | 2.9 |
| 2,4-Dinitrotoluene                                                                       | ND     |           | ug/l  | 25 | 4.2 |
| Hexachlorobutadiene                                                                      | ND     |           | ug/l  | 10 | 3.6 |
| Hexachloroethane                                                                         | ND     |           | ug/l  | 10 | 3.4 |
| Nitrobenzene                                                                             | ND     |           | ug/l  | 10 | 3.8 |
| 2,4,6-Trichlorophenol                                                                    | ND     |           | ug/l  | 25 | 3.4 |
| Pentachlorophenol                                                                        | ND     |           | ug/l  | 50 | 17. |
| 2-Methylphenol                                                                           | ND     |           | ug/l  | 25 | 5.1 |
| 3-Methylphenol/4-Methylphenol                                                            | ND     |           | ug/l  | 25 | 5.6 |
| 2,4,5-Trichlorophenol                                                                    | ND     |           | ug/l  | 25 | 3.6 |
| Pyridine                                                                                 | ND     |           | ug/l  | 18 | 9.4 |

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 113       |           | 21-120              |
| Phenol-d6            | 100       |           | 10-120              |
| Nitrobenzene-d5      | 99        |           | 23-120              |
| 2-Fluorobiphenyl     | 101       |           | 15-120              |
| 2,4,6-Tribromophenol | 136       | Q         | 10-120              |
| 4-Terphenyl-d14      | 107       |           | 33-120              |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960048

**Report Date:** 12/23/19

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1322023-2 WG1322023-3 |                  |      |                   |      |                     |     |      |               |
| Hexachlorobenzene                                                                                           | 118              |      | 88                |      | 40-140              | 29  |      | 30            |
| 2,4-Dinitrotoluene                                                                                          | 114              |      | 86                |      | 40-132              | 28  |      | 30            |
| Hexachlorobutadiene                                                                                         | 105              |      | 78                |      | 28-111              | 30  |      | 30            |
| Hexachloroethane                                                                                            | 100              |      | 76                |      | 21-105              | 27  |      | 30            |
| Nitrobenzene                                                                                                | 97               |      | 68                |      | 40-140              | 35  | Q    | 30            |
| 2,4,6-Trichlorophenol                                                                                       | 111              |      | 82                |      | 30-130              | 30  |      | 30            |
| Pentachlorophenol                                                                                           | 98               |      | 72                |      | 9-103               | 31  | Q    | 30            |
| 2-Methylphenol                                                                                              | 110              |      | 78                |      | 30-130              | 34  | Q    | 30            |
| 3-Methylphenol/4-Methylphenol                                                                               | 111              |      | 80                |      | 30-130              | 32  | Q    | 30            |
| 2,4,5-Trichlorophenol                                                                                       | 120              |      | 90                |      | 30-130              | 29  |      | 30            |
| Pyridine                                                                                                    | 75               | Q    | 41                |      | 10-66               | 59  | Q    | 30            |

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 122              | Q    | 85                |      | 21-120                 |
| Phenol-d6            | 114              |      | 80                |      | 10-120                 |
| Nitrobenzene-d5      | 114              |      | 77                |      | 23-120                 |
| 2-Fluorobiphenyl     | 109              |      | 80                |      | 15-120                 |
| 2,4,6-Tribromophenol | 148              | Q    | 110               |      | 10-120                 |
| 4-Terphenyl-d14      | 113              |      | 83                |      | 33-120                 |

## METALS

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960048**Project Number:** 2182207**Report Date:** 12/23/19**SAMPLE RESULTS**

Lab ID: L1960048-01

Date Collected: 12/12/19 12:00

Client ID: COMP1-121219-0-2FT

Date Received: 12/13/19

Sample Location: ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 12/15/19 05:30

Matrix: Soil

Percent Solids: 90%

| Parameter                               | Result | Qualifier | Units | RL     | MDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|-----------------------------------------|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab |        |           |       |        |        |                 |                |                |             |                   |         |
| Arsenic, TCLP                           | ND     |           | mg/l  | 1.00   | 0.019  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |
| Barium, TCLP                            | 0.558  |           | mg/l  | 0.500  | 0.021  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |
| Cadmium, TCLP                           | ND     |           | mg/l  | 0.100  | 0.010  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |
| Chromium, TCLP                          | ND     |           | mg/l  | 0.200  | 0.021  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |
| Lead, TCLP                              | ND     |           | mg/l  | 0.500  | 0.027  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |
| Mercury, TCLP                           | ND     |           | mg/l  | 0.0010 | 0.0005 | 1               | 12/19/19 16:28 | 12/19/19 19:49 | EPA 7470A   | 1,7470A           | GD      |
| Selenium, TCLP                          | 0.046  | J         | mg/l  | 0.500  | 0.035  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |
| Silver, TCLP                            | ND     |           | mg/l  | 0.100  | 0.028  | 1               | 12/18/19 18:27 | 12/19/19 16:51 | EPA 3015    | 1,6010D           | LC      |



**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960048**Project Number:** 2182207**Report Date:** 12/23/19**SAMPLE RESULTS**

Lab ID: L1960048-02

Date Collected: 12/12/19 16:00

Client ID: COMP2-121219-0-2FT

Date Received: 12/13/19

Sample Location: ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 12/15/19 05:30

Matrix: Soil

Percent Solids: 89%

| Parameter                               | Result | Qualifier | Units | RL     | MDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|-----------------------------------------|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab |        |           |       |        |        |                 |                |                |             |                   |         |
| Arsenic, TCLP                           | ND     |           | mg/l  | 1.00   | 0.019  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |
| Barium, TCLP                            | 0.527  |           | mg/l  | 0.500  | 0.021  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |
| Cadmium, TCLP                           | ND     |           | mg/l  | 0.100  | 0.010  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |
| Chromium, TCLP                          | ND     |           | mg/l  | 0.200  | 0.021  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |
| Lead, TCLP                              | ND     |           | mg/l  | 0.500  | 0.027  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |
| Mercury, TCLP                           | ND     |           | mg/l  | 0.0010 | 0.0005 | 1               | 12/19/19 16:28 | 12/19/19 19:51 | EPA 7470A   | 1,7470A           | GD      |
| Selenium, TCLP                          | 0.050  | J         | mg/l  | 0.500  | 0.035  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |
| Silver, TCLP                            | ND     |           | mg/l  | 0.100  | 0.028  | 1               | 12/18/19 18:27 | 12/19/19 16:55 | EPA 3015    | 1,6010D           | LC      |



Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1960048

Project Number: 2182207

Report Date: 12/23/19

## Method Blank Analysis Batch Quality Control

| Parameter                                                                       | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|---------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1322370-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Arsenic, TCLP                                                                   | ND     |           | mg/l  | 1.00  | 0.019 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |
| Barium, TCLP                                                                    | ND     |           | mg/l  | 0.500 | 0.021 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |
| Cadmium, TCLP                                                                   | ND     |           | mg/l  | 0.100 | 0.010 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |
| Chromium, TCLP                                                                  | ND     |           | mg/l  | 0.200 | 0.021 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |
| Lead, TCLP                                                                      | ND     |           | mg/l  | 0.500 | 0.027 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |
| Selenium, TCLP                                                                  | ND     |           | mg/l  | 0.500 | 0.035 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |
| Silver, TCLP                                                                    | ND     |           | mg/l  | 0.100 | 0.028 | 1                  | 12/18/19 18:27   | 12/19/19 11:16   | 1,6010D              | LC      |

### Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/13/19 23:52

| Parameter                                                                       | Result | Qualifier | Units | RL     | MDL    | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|---------------------------------------------------------------------------------|--------|-----------|-------|--------|--------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1322905-1 |        |           |       |        |        |                    |                  |                  |                      |         |
| Mercury, TCLP                                                                   | ND     |           | mg/l  | 0.0010 | 0.0005 | 1                  | 12/19/19 16:28   | 12/19/19 19:18   | 1,7470A              | GD      |

### Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 12/13/19 23:52



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

| Parameter                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1322370-2 |                  |      |                   |      |                     |     |      |            |
| Arsenic, TCLP                                                                          | 98               |      | -                 |      | 75-125              | -   |      | 20         |
| Barium, TCLP                                                                           | 91               |      | -                 |      | 75-125              | -   |      | 20         |
| Cadmium, TCLP                                                                          | 92               |      | -                 |      | 75-125              | -   |      | 20         |
| Chromium, TCLP                                                                         | 92               |      | -                 |      | 75-125              | -   |      | 20         |
| Lead, TCLP                                                                             | 90               |      | -                 |      | 75-125              | -   |      | 20         |
| Selenium, TCLP                                                                         | 102              |      | -                 |      | 75-125              | -   |      | 20         |
| Silver, TCLP                                                                           | 91               |      | -                 |      | 75-125              | -   |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 Batch: WG1322905-2 |                  |      |                   |      |                     |     |      |            |
| Mercury, TCLP                                                                          | 102              |      | -                 |      | 80-120              | -   |      |            |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

| Parameter                                                                                                                                         | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02    QC Batch ID: WG1322370-3    QC Sample: L1959664-01    Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Arsenic, TCLP                                                                                                                                     | ND            | 1.2      | 1.18     | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, TCLP                                                                                                                                      | 1.14          | 20       | 19.8     | 93           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, TCLP                                                                                                                                     | 0.075J        | 0.51     | 0.571    | 112          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, TCLP                                                                                                                                    | ND            | 2        | 1.91     | 96           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, TCLP                                                                                                                                        | 2.15          | 5.1      | 7.33     | 102          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, TCLP                                                                                                                                    | ND            | 1.2      | 1.23     | 102          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, TCLP                                                                                                                                      | ND            | 0.5      | 0.461    | 92           |      | -         | -             |      | 75-125          | -   |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02    QC Batch ID: WG1322905-3    QC Sample: L1959828-01    Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Mercury, TCLP                                                                                                                                     | ND            | 0.025    | 0.0251   | 100          |      | -         | -             |      | 80-120          | -   |      | 20         |



# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960048

**Report Date:** 12/23/19

| Parameter                                                                                                                                 | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1322370-4 QC Sample: L1959664-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Arsenic, TCLP                                                                                                                             | ND            | ND               | mg/l  | NC  |      | 20         |
| Barium, TCLP                                                                                                                              | 1.14          | 1.36             | mg/l  | 18  |      | 20         |
| Cadmium, TCLP                                                                                                                             | 0.075J        | 0.089J           | mg/l  | NC  |      | 20         |
| Chromium, TCLP                                                                                                                            | ND            | ND               | mg/l  | NC  |      | 20         |
| Lead, TCLP                                                                                                                                | 2.15          | 2.57             | mg/l  | 18  |      | 20         |
| Selenium, TCLP                                                                                                                            | ND            | ND               | mg/l  | NC  |      | 20         |
| Silver, TCLP                                                                                                                              | ND            | ND               | mg/l  | NC  |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1322905-4 QC Sample: L1959828-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Mercury, TCLP                                                                                                                             | ND            | ND               | mg/l  | NC  |      | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**SAMPLE RESULTS**

**Lab ID:** L1960048-01  
**Client ID:** COMP1-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 12:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                 |                |                |                   |         |
| Solids, Total                       | 89.9   |           | %     | 0.100 | NA  | 1               | -              | 12/14/19 13:16 | 121,2540G         | RI      |
| pH (H)                              | 9.2    |           | SU    | -     | NA  | 1               | -              | 12/16/19 04:20 | 1,9045D           | DS      |
| Flash Point                         | >150   |           | deg F | 70    | NA  | 1               | -              | 12/16/19 11:30 | 1,1010A           | MV      |
| Cyanide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 12/17/19 20:20 | 12/17/19 22:20 | 125,7.3           | TL      |
| Sulfide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 12/17/19 20:20 | 12/17/19 22:29 | 125,7.3           | TL      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

### SAMPLE RESULTS

**Lab ID:** L1960048-02  
**Client ID:** COMP2-121219-0-2FT  
**Sample Location:** ROCHESTER, NY

**Date Collected:** 12/12/19 16:00  
**Date Received:** 12/13/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                 |                |                |                   |         |
| Solids, Total                       | 89.0   |           | %     | 0.100 | NA  | 1               | -              | 12/14/19 13:16 | 121,2540G         | RI      |
| pH (H)                              | 10.7   |           | SU    | -     | NA  | 1               | -              | 12/16/19 04:20 | 1,9045D           | DS      |
| Flash Point                         | >150   |           | deg F | 70    | NA  | 1               | -              | 12/16/19 11:30 | 1,1010A           | MV      |
| Cyanide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 12/17/19 20:20 | 12/17/19 22:20 | 125,7.3           | TL      |
| Sulfide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 12/17/19 20:20 | 12/17/19 22:29 | 125,7.3           | TL      |



Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1960048

Project Number: 2182207

Report Date: 12/23/19

### Method Blank Analysis

#### Batch Quality Control

| Parameter                                                                   | Result | Qualifier | Units | RL | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-----------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1321916-1 |        |           |       |    |     |                    |                  |                  |                      |         |
| Sulfide, Reactive                                                           | ND     |           | mg/kg | 10 | 10. | 1                  | 12/17/19 20:20   | 12/17/19 22:27   | 125,7.3              | TL      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1321918-1 |        |           |       |    |     |                    |                  |                  |                      |         |
| Cyanide, Reactive                                                           | ND     |           | mg/kg | 10 | 10. | 1                  | 12/17/19 20:20   | 12/17/19 22:19   | 125,7.3              | TL      |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1960048**Report Date:** 12/23/19

| Parameter                                                                          | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1321069-1 |                  |      |                   |      |                     |     |      |            |
| pH                                                                                 | 100              |      | -                 |      | 99-101              | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1321246-1 |                  |      |                   |      |                     |     |      |            |
| Flash Point                                                                        | 100              |      | -                 |      | 96-104              | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1321916-2 |                  |      |                   |      |                     |     |      |            |
| Sulfide, Reactive                                                                  | 88               |      | -                 |      | 60-125              | -   |      | 40         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1321918-2 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Reactive                                                                  | 96               |      | -                 |      | 30-125              | -   |      | 40         |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Lab Number:** L1960048  
**Report Date:** 12/23/19

| Parameter                                                                                                                                     | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1320836-1 QC Sample: L1960055-01 Client ID: DUP Sample         |               |                  |       |     |      |            |
| Solids, Total                                                                                                                                 | 92.7          | 92.3             | %     | 0   |      | 20         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1321069-2 QC Sample: L1960048-01 Client ID: COMP1-121219-0-2FT |               |                  |       |     |      |            |
| pH (H)                                                                                                                                        | 9.2           | 9.3              | SU    | 1   |      | 5          |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1321916-3 QC Sample: L1960141-01 Client ID: DUP Sample         |               |                  |       |     |      |            |
| Sulfide, Reactive                                                                                                                             | ND            | ND               | mg/kg | NC  |      | 40         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1321918-3 QC Sample: L1960141-01 Client ID: DUP Sample         |               |                  |       |     |      |            |
| Cyanide, Reactive                                                                                                                             | ND            | ND               | mg/kg | NC  |      | 40         |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:12231910:15  
**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                  Absent

**Container Information**

| Container ID  | Container Type                        | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                           |
|---------------|---------------------------------------|--------|------------|----------|------------|------|--------|------------------|---------------------------------------------------------------------------------------|
| L1960048-01A  | Vial Large Septa unpreserved (4oz)    | A      | NA         |          | 4.8        | Y    | Absent |                  | NYTCL-8260-R2(14)                                                                     |
| L1960048-01B  | Vial Large Septa unpreserved (4oz)    | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-EXT-ZHE(14)                                                                      |
| L1960048-01C  | Glass 250ml/8oz unpreserved           | A      | NA         |          | 4.8        | Y    | Absent |                  | REACTS(14),TS(7),FLASH(),PH-9045(1),REACTCN(14)                                       |
| L1960048-01D  | Glass 250ml/8oz unpreserved           | A      | NA         |          | 4.8        | Y    | Absent |                  | REACTS(14),TS(7),FLASH(),PH-9045(1),REACTCN(14)                                       |
| L1960048-01Q  | Amber 1000ml unpreserved Extracts     | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-8270(14)                                                                         |
| L1960048-01S  | Vial unpreserved Extracts             | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1960048-01T  | Vial unpreserved Extracts             | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1960048-01W  | Plastic 120ml HNO3 preserved Extracts | A      | NA         |          | 4.8        | Y    | Absent |                  | CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180) |
| L1960048-01X  | Vial MeOH preserved split             | A      | NA         |          | 4.8        | Y    | Absent |                  | NYTCL-8260-R2(14)                                                                     |
| L1960048-01X9 | Tumble Vessel                         | A      | NA         |          | 4.8        | Y    | Absent |                  | -                                                                                     |
| L1960048-01Y  | Vial Water preserved split            | A      | NA         |          | 4.8        | Y    | Absent | 17-DEC-19 05:54  | NYTCL-8260-R2(14)                                                                     |
| L1960048-01Z  | Vial Water preserved split            | A      | NA         |          | 4.8        | Y    | Absent | 17-DEC-19 05:54  | NYTCL-8260-R2(14)                                                                     |
| L1960048-02A  | Vial Large Septa unpreserved (4oz)    | A      | NA         |          | 4.8        | Y    | Absent |                  | NYTCL-8260-R2(14)                                                                     |
| L1960048-02B  | Vial Large Septa unpreserved (4oz)    | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-EXT-ZHE(14)                                                                      |
| L1960048-02C  | Glass 250ml/8oz unpreserved           | A      | NA         |          | 4.8        | Y    | Absent |                  | REACTS(14),TS(7),FLASH(),PH-9045(1),REACTCN(14)                                       |
| L1960048-02D  | Glass 250ml/8oz unpreserved           | A      | NA         |          | 4.8        | Y    | Absent |                  | REACTS(14),TS(7),FLASH(),PH-9045(1),REACTCN(14)                                       |
| L1960048-02Q  | Amber 1000ml unpreserved Extracts     | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-8270(14)                                                                         |
| L1960048-02S  | Vial unpreserved Extracts             | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1960048-02T  | Vial unpreserved Extracts             | A      | NA         |          | 4.8        | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1960048-02W  | Plastic 120ml HNO3 preserved Extracts | A      | NA         |          | 4.8        | Y    | Absent |                  | CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180) |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:12231910:15  
**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>      | <b>Cooler</b> | <b>Initial pH</b> | <b>Final pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|----------------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1960048-02X        | Vial MeOH preserved split  | A             | NA                |                 | 4.8               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1960048-02X9       | Tumble Vessel              | A             | NA                |                 | 4.8               | Y           | Absent      |                         | -                  |
| L1960048-02Y        | Vial Water preserved split | A             | NA                |                 | 4.8               | Y           | Absent      | <b>17-DEC-19 05:54</b>  | NYTCL-8260-R2(14)  |
| L1960048-02Z        | Vial Water preserved split | A             | NA                |                 | 4.8               | Y           | Absent      | <b>17-DEC-19 05:54</b>  | NYTCL-8260-R2(14)  |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

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

### Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

**Data Qualifiers**

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

*Report Format: DU Report with 'J' Qualifiers*

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960048  
**Report Date:** 12/23/19

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193                                            |                      | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | Page<br>1 of 1                                                                                                                                                                                                            |           | Date Rec'd in Lab<br>12/14/19                                                                 |                    | ALPHA Job #<br>L1960048                                                                                                                                                                                                                                                      |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                 |                      | <b>Project Information</b><br>Project Name: <u>Former Wollersack Optical</u><br>Project Location: <u>Rochester, NY</u><br>Project # <u>2182207</u><br>(Use Project name as Project #) <input type="checkbox"/><br>Project Manager: <u>Jon Gillen</u><br>ALPHAQuote #:<br>Turn-Around Time<br>Standard <input checked="" type="checkbox"/> Due Date:<br>Rush (only if pre approved) <input type="checkbox"/> # of Days:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | <b>Deliverables</b><br><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B<br><input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)<br><input type="checkbox"/> Other                 |           | <b>Billing Information</b><br><input checked="" type="checkbox"/> Same as Client Info<br>PO # |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Client Information</b><br>Client: <u>LaBella Associates</u><br>Address: <u>300 State Street</u><br><u>Rochester, NY</u><br>Phone: <u>585-454-6110</u><br>Fax:<br>Email: <u>abreth@labella-pl.com</u>                                         |                      | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other: |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments:                                                                                                                  |                      | <b>ANALYSIS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | <b>Sample Filtration</b><br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br><b>Preservation</b><br><input type="checkbox"/> Lab to do<br>(Please Specify below)                                    |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Please specify Metals or TAL.                                                                                                                                                                                                                   |                      | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID<br/>(Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Total VOCs</th> <th rowspan="2">TCLP VOCs</th> <th rowspan="2">TCLP Metals</th> <th rowspan="2">TCLP SVOCs</th> <th rowspan="2">Residue Oxidize and Sulfide</th> <th rowspan="2">PH</th> <th rowspan="2">Flush Point</th> <th rowspan="2">Sample Specific Comments</th> <th rowspan="2">Total Bottles</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>60048-01</td> <td>Comp 1-121219-0-2 ft</td> <td>12/12/19</td> <td>1200</td> <td>S:1</td> <td>ASD</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>4</td> </tr> <tr> <td>-02</td> <td>Comp 2-121219-0-2 ft</td> <td>12/12/19</td> <td>1600</td> <td>S:1</td> <td>ASD</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>4</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> |      | ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                            | Sample ID | Collection                                                                                    |                    | Sample Matrix                                                                                                                                                                                                                                                                | Sampler's Initials | Total VOCs | TCLP VOCs | TCLP Metals | TCLP SVOCs | Residue Oxidize and Sulfide | PH | Flush Point | Sample Specific Comments | Total Bottles | Date       | Time      | 60048-01    | Comp 1-121219-0-2 ft | 12/12/19                    | 1200 | S:1         | ASD                      | X             | X | X | X | X | X | X |  | 4 | -02 | Comp 2-121219-0-2 ft | 12/12/19 | 1600 | S:1 | ASD | X | X | X | X | X | X | X |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                  | Sample ID            | Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                                                                                                                                                                           |           | Sample Matrix                                                                                 | Sampler's Initials |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               | Total VOCs | TCLP VOCs | TCLP Metals | TCLP SVOCs           | Residue Oxidize and Sulfide | PH   | Flush Point | Sample Specific Comments | Total Bottles |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                 |                      | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Time |                                                                                                                                                                                                                           |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60048-01                                                                                                                                                                                                                                        | Comp 1-121219-0-2 ft | 12/12/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1200 | S:1                                                                                                                                                                                                                       | ASD       | X                                                                                             | X                  | X                                                                                                                                                                                                                                                                            | X                  | X          | X         | X           |            | 4                           |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -02                                                                                                                                                                                                                                             | Comp 2-121219-0-2 ft | 12/12/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1600 | S:1                                                                                                                                                                                                                       | ASD       | X                                                                                             | X                  | X                                                                                                                                                                                                                                                                            | X                  | X          | X         | X           |            | 4                           |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                                                                                           |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                                                                                           |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                                                                                           |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                 |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                                                                                           |           |                                                                                               |                    |                                                                                                                                                                                                                                                                              |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preservative Code:<br>A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other |                      | Container Code<br>P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | Westboro: Certification No: MA935<br>Mansfield: Certification No: MA015                                                                                                                                                   |           | Container Type<br>A A A A A A A                                                               |                    | Preservative<br>A A A A A A A                                                                                                                                                                                                                                                |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By: <u>[Signature]</u><br><u>[Signature]</u>                                                                                                                                                                                       |                      | Date/Time<br><u>12/13/19 1600</u><br><u>12/13/19 1630</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | Received By: <u>ALL</u><br><u>[Signature]</u>                                                                                                                                                                             |           | Date/Time<br><u>12/13/19 1630</u><br><u>12/14/19 01:00</u>                                    |                    | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) |                    |            |           |             |            |                             |    |             |                          |               |            |           |             |                      |                             |      |             |                          |               |   |   |   |   |   |   |  |   |     |                      |          |      |     |     |   |   |   |   |   |   |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70310

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-8-2020  |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                       |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensack LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Proile # 121857 NY      | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Fidge on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

### SPECIAL INSTRUCTIONS:

Charge To Wollensack

### DESTINATION:

Highacker Landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

☐ AM  
☐ PM

BY

TIME

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





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Geneva  
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Phelps, NY 14532  
(315) 548-4049

79700

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |        |    |   |     |
|-------------------------------------------------------------------------------------|-----------|--------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME   | IN | / | OUT |
|                                                                                     | 1-8-20    | 729 AM |    |   |     |
| TRUCK #<br><br>360                                                                  | TRAILER # |        |    |   |     |

|                                                                                                                 |                                                                          |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION         | WEIGHT        |
|------------|---------------------------------|---------------|
|            | Profile #<br>121857<br>Con Soil | WEIGHT IN     |
|            |                                 | WEIGHT OUT    |
|            |                                 | BILLED WEIGHT |
|            |                                 |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Eger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Kenny Suenoco

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>CHARGE TO Wollensak |
| DESTINATION:<br><br>Higb ACRES landfill          |

|                                                                                                                                                               |  |                                                                                                              |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:<br>CONSIGNEE PRINT NAME <u>[Signature]</u><br>CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u><br>RECEIVED ABOVE MATERIAL IN GOOD CONDITION |  | FIRM _____ DATE <u>1-8-20</u><br>BY _____ TIME _____ <input type="checkbox"/> AM <input type="checkbox"/> PM | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088733

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                    |         |     |
|-------------------------------------------------------------------------------------|--------------------|---------|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br><br>1/8/20 | TIME IN | OUT |
|                                                                                     | TRUCK # 11         |         |     |

|                                                                                                                 |                                                                                |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br><br>872 Hudson Ave Rochester, N.Y. |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT |
|------------|-------------------------|--------|
|            | WEIGHT IN               |        |
|            | WEIGHT OUT              |        |
|            | BILLED WEIGHT           |        |
|            | Profile #121857 N.Y.    |        |

|                                      |                                                                       |
|--------------------------------------|-----------------------------------------------------------------------|
| SHIPPER SIGNATURE <u>[Signature]</u> | PRINT NAME <u>Jeffery Folger on behalf of Jefferson Wollensak LLC</u> |
| DRIVER SIGNATURE <u>[Signature]</u>  | PRINT NAME <u>Don Hall</u>                                            |

|                                                   |
|---------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charged to Wollensak |
| DESTINATION:<br><br>High Acres land fill          |

|                                                                                                                     |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:<br>CONSIGNEE PRINT NAME <u>[Signature]</u><br>CONSIGNEE SIGN HERE <u>[Signature]</u><br>(NO INITIALS) | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION<br>FIRM _____ DATE _____<br>BY _____ TIME _____                           |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70474

1<sup>st</sup> load TK#338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                      |               |
|-------------------------------------------------------------------------------------|----------------------|---------------|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br><br>1/8/2020 | TIME IN / OUT |
| TRUCK #                                                                             | TRAILER #            |               |

|                                                                                                                 |                                                                             |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Allen Wilson

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge TO Wollensak |
| DESTINATION:<br><br>High Acres Land Fill         |

|                                                                                                                                                               |                                                                                                            |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:<br>CONSIGNEE PRINT NAME <u>[Signature]</u><br>CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u><br>RECEIVED ABOVE MATERIAL IN GOOD CONDITION | FIRM _____ DATE _____<br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Phelps, NY 14532  
(315) 548-4049

0088743

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-8-20    |      |    |   |     |
| TRUCK #<br>17                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                            |               |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensack LLC<br>872 Hudson Ave<br>Rochester, NY |               |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                    | WEIGHT        |
|                                                                                                                 | Profile # 121857 NY                                                        | WEIGHT IN     |
|                                                                                                                 |                                                                            | WEIGHT OUT    |
|                                                                                                                 |                                                                            | BILLED WEIGHT |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Felger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Devin Murphy

|                                                    |
|----------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charged to Wollensack |
| DESTINATION:<br><br>High Acres Landfill            |

|                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:<br>CONSIGNEE PRINT NAME <u>[Signature]</u><br>CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u><br>RECEIVED ABOVE MATERIAL IN GOOD CONDITION<br>FIRM _____ DATE _____<br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70311

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                      |      |    |   |     |
|-------------------------------------------------------------------------------------|----------------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br><br>1-7-2020 | TIME | IN | / | OUT |
|                                                                                     | TRUCK # 21           |      |    |   |     |

|                                                                                                                 |                                                                          |        |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensac LLC<br>872 Hudson Ave<br>Rochester NY |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                  | WEIGHT |
|                                                                                                                 | Profile #121857 NY                                                       |        |
|                                                                                                                 | WEIGHT IN                                                                |        |
|                                                                                                                 | WEIGHT OUT                                                               |        |
|                                                                                                                 | BILLED WEIGHT                                                            |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensac LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

SPECIAL INSTRUCTIONS:

Charge To Wollensac

DESTINATION:

Highacher landfill

FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

BY

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Phelps, NY 14532  
(315) 548-4049

79699

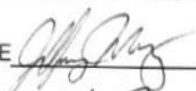
360

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |     |
|-------------------------------------------------------------------------------------|-----------|------|----|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | OUT |
|                                                                                     | 1-8-20    | 1153 | AM |     |
| TRUCK #<br>360                                                                      | TRAILER # |      |    |     |

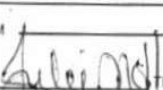
|                                                                                                             |                                                                        |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | profile #<br>121857 NY  | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE  PRINT NAME Jeffrey Edgar on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE  PRINT NAME Kerry Susunco

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>change to wollensak |
| DESTINATION:<br><br>High Acres landfill          |

|                                            |                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                        |                                                                                                                         | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                 |                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE _____<br>(NO INITIALS) |                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION  | FIRM BY  DATE 1/8/2020 TIME 11:51 AM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088734

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                    |           |      |    |   |     |
|------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                    | 1/8/20    |      |    |   |     |
| TRUCK #<br>11                                                                      | TRAILER # |      |    |   |     |

|                                                                                                            |                                                                         |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| CONSIGNEE<br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson - Wollen Sak LLC<br>872 Hudson Ave Rochester, N.Y. |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT |
|------------|-------------------------|--------|
|            | WEIGHT IN               |        |
|            | WEIGHT OUT              |        |
|            | BILLED WEIGHT           |        |
|            | Profile # 121857 N.Y.   |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Felger on behalf of Jefferson Wollersack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Don Hall

### SPECIAL INSTRUCTIONS:

Charged to Wollen Sak

### DESTINATION:

High Acres landfill

### FOR APPROVAL:

|                                                       |                                                                                                                    |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| CONSIGNEE PRINT NAME                                  | <u>[Signature]</u>                                                                                                 |
| CONSIGNEE SIGN HERE<br>(NO INITIALS)                  | <u>[Signature]</u>                                                                                                 |
| RECEIVED<br>ABOVE<br>MATERIAL IN<br>GOOD<br>CONDITION | FIRM _____ DATE <u>1/8/20</u><br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM |

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Ricelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
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Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70475

338

2nd load TK# 338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/8/2020  |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                        |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensack<br>872 Hudson Ave<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

|                                        |                                                                       |
|----------------------------------------|-----------------------------------------------------------------------|
| SHIPPER SIGNATURE <i>Jeffrey Feige</i> | PRINT NAME <u>Jeffrey Feige on behalf of Jefferson Wollensack LLC</u> |
| DRIVER SIGNATURE <i>Allen Wikson</i>   | PRINT NAME <u>Allen Wikson</u>                                        |

|                                                   |
|---------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge to Wollensack |
| DESTINATION:<br><br>High Acres Landfill           |

|                                             |                                                                    |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                         |                                                                    | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                  |                                                                    |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE _____<br>(NO INITIALS)  |                                                                    |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION   | FIRM <i>Jeffrey Feige</i> DATE <u>1/8/20</u>                       |                                                                                                                                                                                                                                                                                                 |
| BY <i>Allen Wikson</i> TIME <u>12:07 pm</u> | <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





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6800 W. Henrietta Road  
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(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088741

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-8-20    |      |    |   |     |
| TRUCK # 17                                                                          | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                             |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensack LLC<br>872 Lodge Ave<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE Jeffrey Feltz PRINT NAME Jeffrey Feltz on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Dean Murphy

### SPECIAL INSTRUCTIONS:

Charged to Wollensack

### DESTINATION:

High Acres Landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM  
BY

DATE

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



**Syracuse**  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

**Rochester**  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

**Geneva**  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70312

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-8-2020  |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-wollensac LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson-wollensac LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge To wollensac |
| DESTINATION:<br><br>Highacker Landfill           |

|                                                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:<br>CONSIGNEE PRINT NAME <u>[Signature]</u><br>CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u>                                        | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION<br>FIRM _____ DATE _____<br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
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(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

79701

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                    |                              |
|-------------------------------------------------------------------------------------|--------------------|------------------------------|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br><br>1-8-20 | TIME IN / OUT<br><br>2:08 PM |
| TRUCK #<br><br>360                                                                  | TRAILER #          |                              |

|                                                                                                                 |                                                                          |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson Wolkensak LLC<br>872 Hudson Ave<br>Rochester NY |                                                                                         |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                  | WEIGHT                                                                                  |
|                                                                                                                 | Profile # 121857<br><br>Con Soil                                         | WEIGHT IN<br>68320 lb<br>WEIGHT OUT<br>30780 lb<br>BILLED WEIGHT<br>37540 lb<br>18.77 T |

SHIPPER SIGNATURE [Signature] PRINT NAME Jefferson Wolkensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Kenny Susino

|                                                   |
|---------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>CHARGE TO WOLKENSACK |
| DESTINATION:<br><br>HIGH ACRES LANDFILL           |

|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                                                                                                                     | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>                                                                                                           |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u>                                                                                              |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION<br>FIRM _____ DATE _____<br>BY _____ TIME _____ <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
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Rochester  
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Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70476

Load # 3 TH 338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/8/2020  |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                       |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensak<br>872 Hudson Ave<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT              |
|------------|-------------------------|---------------------|
|            | 1324768                 | WEIGHT IN 72760     |
|            |                         | WEIGHT OUT 29400    |
|            | Plb # 121857 NY         | BILLED WEIGHT 43360 |
|            |                         | 21.68               |

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| SHIPPER SIGNATURE | PRINT NAME Jeffery Gage on behalf of Jefferson Wollensak LLC |
| DRIVER SIGNATURE  | PRINT NAME Allen Wilson                                      |

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge to Wollensak |
| DESTINATION:<br><br>HIGH AKERS Land Fill         |

|                                           |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                       | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME                      |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS)         |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION |                                                                                                                                                                                                                                                                                                 |
| FIRM _____ DATE _____                     | <input type="checkbox"/> AM                                                                                                                                                                                                                                                                     |
| BY _____ TIME _____                       | <input type="checkbox"/> PM                                                                                                                                                                                                                                                                     |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

79703

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-20    |      |    |   |     |
| TRUCK #<br><br>360                                                                  | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                            |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensak LLC<br>872 Hudson Ave.<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | ProAlet 121857 NY       | WEIGHT IN     |
|            | CON SOL                 | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffery Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Kenny Susunco

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>change to wollensak |
| DESTINATION:<br><br>HIGH ACRES LANDFILL          |

|                                                      |                                                                                                      |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                        |                                                                                                      | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                      |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                      |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM _____ DATE _____<br>BY _____ TIME _____ <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
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(315) 548-4049

70313

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-2020  |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                       |               |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensack LLC<br>872 Hudson Ave<br>Rochester NY |               |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                               | WEIGHT        |
|                                                                                                                 | Pro file #121857 NY                                                   | WEIGHT IN     |
|                                                                                                                 |                                                                       | WEIGHT OUT    |
|                                                                                                                 |                                                                       | BILLED WEIGHT |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jeffrey Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

SPECIAL INSTRUCTIONS:  
  
Charge To Wollensack

DESTINATION:  
  
Highacker landfill

|                                                      |                                                                                                      |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                        |                                                                                                      | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                      |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                      |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM _____ DATE _____<br>BY _____ TIME _____ <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70477

1st load TK338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/9/2020  |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                             |        |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                     | WEIGHT |
|                                                                                                                 | WEIGHT IN                                                                   |        |
|                                                                                                                 | WEIGHT OUT                                                                  |        |
|                                                                                                                 | BILLED WEIGHT                                                               |        |
|                                                                                                                 | PROFILE # 121857 NY                                                         |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Felger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Allen Wixson

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge to Wollensak |
| DESTINATION:<br><br>HIGH AKERS Land Fill         |

|                                                      |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                                  | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            |                                                                                                                                                                                                                                                                                                 |
| FIRM _____ DATE _____                                | <input type="checkbox"/> AM                                                                                                                                                                                                                                                                     |
| BY _____ TIME _____                                  | <input type="checkbox"/> PM                                                                                                                                                                                                                                                                     |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088742

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                  |                |      |    |   |     |
|------------------------------------------------------------------|----------------|------|----|---|-----|
| TRANSPORTER                                                      | DATE           | TIME | IN | / | OUT |
| RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | 1-9-20         |      |    |   |     |
| TRUCK #<br>17                                                    | TRAILER #<br>— |      |    |   |     |

|                                                                                                |                                                             |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| CONSIGNEE                                                                                      | SHIPPER                                                     |
| RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | JEFFERSON - WOLLENSEK LLC<br>872 Hudson Ave<br>Rochester NY |

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Felger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Devin Murphy

|                                                |
|------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br>Charged to Wollensack |
| DESTINATION:<br>High Acres Landfill            |

|                                                      |      |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                        |      | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |      |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |      |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            |      |                                                                                                                                                                                                                                                                                                 |
| FIRM                                                 | DATE | <input type="checkbox"/> AM                                                                                                                                                                                                                                                                     |
| BY                                                   | TIME | <input type="checkbox"/> PM                                                                                                                                                                                                                                                                     |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
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Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088735

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                    |           |      |    |   |     |
|------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                    | 1/9/20    |      |    |   |     |
| TRUCK #<br>13                                                                      | TRAILER # |      |    |   |     |

|                                                                                                                |                                                                             |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollen Sak LLC<br>872 Hudson Ave Rochester, N.Y. |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT |
|------------|-------------------------|--------|
|            | WEIGHT IN               |        |
|            | WEIGHT OUT              |        |
|            | BILLED WEIGHT           |        |
|            | Profile #121857 N.Y.    |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollen Sak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Don Hall

### SPECIAL INSTRUCTIONS:

Charged to Wollen Sak LLC

### DESTINATION:

High Acres landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

1/20

☐ AM

BY

TIME

☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.



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(315) 433-5115

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Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

79702

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                    |           |      |    |   |     |
|------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                    | 1-9-20    |      |    |   |     |
| TRUCK #<br>360                                                                     | TRAILER # |      |    |   |     |

|                                                                                                            |                                                                       |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| CONSIGNEE<br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            | con soil                | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Wollensak on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Kenny Susaico

### SPECIAL INSTRUCTIONS:

charge to wollensak

### DESTINATION:

High Acres Landfill

|                                                      |                                                                                                                 |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u>[Signature]</u>                     |                                                                                                                 |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM _____ DATE <u>1-9-20</u><br>BY _____ TIME _____<br><input type="checkbox"/> AM <input type="checkbox"/> PM |

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

10458

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                             |                                        |         |     |
|---------------------------------------------|----------------------------------------|---------|-----|
| TRANSPORTER<br><i>Riccelli enterprises.</i> | DATE<br><i>11/9/20</i>                 | TIME IN | OUT |
|                                             | TRUCK # <i>12</i> TRAILER # <i>N/A</i> |         |     |

|            |                                                                                              |               |        |
|------------|----------------------------------------------------------------------------------------------|---------------|--------|
| CONSIGNEE  | SHIPPER<br><i>Jefferson - wollensack LLC</i><br><i>872 Hudson Ave</i><br><i>Rochester NY</i> |               |        |
| NO. PIECES | ARTICLES OR DESCRIPTION                                                                      | WEIGHT IN     | WEIGHT |
|            | <i>Profile #121857 NY</i>                                                                    | WEIGHT OUT    |        |
|            |                                                                                              | BILLED WEIGHT |        |

SHIPPER SIGNATURE *[Signature]* PRINT NAME *Jeffrey Folger on behalf of Jefferson Wollensack LLC*

DRIVER SIGNATURE *[Signature]* PRINT NAME *Jason Lurie*

SPECIAL INSTRUCTIONS:

DESTINATION:

FOR APPROVAL:

CONSIGNEE PRINT NAME *[Signature]*

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

*11/20*

BY

TIME

☐ AM

☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70314

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-2020  |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile #121857 NY      | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Friger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

### SPECIAL INSTRUCTIONS:

Charge To Wollensak

### DESTINATION:

Highacker land fill

### FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

BY

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Pheps, NY 14532  
(315) 548-4049

70480

2nd load TH #338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/9/2020  |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                         |               |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak<br>872 Hudson Ave<br>Rochester, NY |               |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                 | WEIGHT        |
|                                                                                                                 | Jeffer                                                                  | WEIGHT IN     |
|                                                                                                                 |                                                                         | WEIGHT OUT    |
|                                                                                                                 | Profile # 121857 NY                                                     | BILLED WEIGHT |
|                                                                                                                 |                                                                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Edgar on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE Allen Wilson PRINT NAME Allen Wilson

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge to Wollensak |
| DESTINATION:<br><br>High Acres Landfill          |

|                                                      |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u>[Signature]</u>                     | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            |                                                                                                                                                                                                                                                                                                 |
| FIRM _____ DATE _____                                | <input type="checkbox"/> AM                                                                                                                                                                                                                                                                     |
| BY _____ TIME _____                                  | <input type="checkbox"/> PM                                                                                                                                                                                                                                                                     |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088740

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                |      |    |   |     |
|-------------------------------------------------------------------------------------|----------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE           | TIME | IN | / | OUT |
|                                                                                     | 1-9-20         |      |    |   |     |
| TRUCK #<br>17                                                                       | TRAILER #<br>— |      |    |   |     |

|                                                                                                                 |                                                                            |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollersak LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Faig on behalf of Jefferson Wollersak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Dem [unclear]

SPECIAL INSTRUCTIONS:  
Charged to Wollersak

DESTINATION:  
High Acres Landfill

|                                                      |                                                                                                            |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u>[Signature]</u>                     |                                                                                                            | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                            |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                            |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM _____ DATE _____<br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088736

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/9/20    |      |    |   |     |
| TRUCK #<br>13                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                            |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br><br>872 Hudson Rochester, N.Y. |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT |
|------------|-------------------------|--------|
|            | WEIGHT IN               |        |
|            | WEIGHT OUT              |        |
|            | BILLED WEIGHT           |        |
|            |                         |        |
|            | Profile # 121857        |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Feltz on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE Don Hall PRINT NAME Don Hall

|                                                       |
|-------------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charged to Wollensak LLC |
| DESTINATION:<br><br>High Acres landfill               |

|                                                                               |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                                                           | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                                                    |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE _____<br>(NO INITIALS)                                    |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION                                     |                                                                                                                                                                                                                                                                                                 |
| FIRM _____ DATE _____ <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |
| BY _____ TIME _____                                                           |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
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Rush, NY 14543  
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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

10461

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                    |                         |                              |
|------------------------------------|-------------------------|------------------------------|
| TRANSPORTER<br><i>Riccelli ent</i> | DATE<br><i>1/9/20</i>   | TIME IN / OUT<br><i>1212</i> |
| TRUCK #<br><i>360</i>              | TRAILER #<br><i>N/A</i> |                              |

|           |                                                                                              |
|-----------|----------------------------------------------------------------------------------------------|
| CONSIGNEE | SHIPPER<br><i>Jefferson - Wollersack LLC</i><br><i>872 Hudson Ave</i><br><i>Rochester NY</i> |
|-----------|----------------------------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION    | WEIGHT        |
|------------|----------------------------|---------------|
|            | <i>Profile # 121857 NY</i> | WEIGHT IN     |
|            | <i>Con Soil</i>            | WEIGHT OUT    |
|            |                            | BILLED WEIGHT |
|            |                            |               |

|                                      |                                                                      |
|--------------------------------------|----------------------------------------------------------------------|
| SHIPPER SIGNATURE <i>[Signature]</i> | PRINT NAME <i>Jeffery Feig on behalf of Jefferson Wollersack LLC</i> |
| DRIVER SIGNATURE <i>[Signature]</i>  | PRINT NAME <i>Jason Louie Kenny Ausanio</i>                          |

|                                                      |
|------------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><i>CHARGE TO Wollersack</i> |
| DESTINATION:<br><i>HIGH ACRES LANDFILL</i>           |

|                                                                                                               |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                                                                                 | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME                                                                                          |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS)                                                                             |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION                                                                     |                                                                                                                                                                                                                                                                                                 |
| FIRM <i>[Signature]</i> DATE <i>1/9/20</i> AM <input type="checkbox"/> PM <input checked="" type="checkbox"/> |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

10459

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                            |                         |         |     |
|--------------------------------------------|-------------------------|---------|-----|
| TRANSPORTER<br><i>Riccelli Enterprises</i> | DATE<br><i>1/9/20</i>   | TIME IN | OUT |
|                                            |                         |         |     |
| TRUCK #<br><i>12</i>                       | TRAILER #<br><i>N/A</i> |         |     |

|            |                                                   |                                                                                            |               |
|------------|---------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|
| CONSIGNEE  |                                                   | SHIPPER<br><i>Jefferson-Wollensack LLC</i><br><i>872 Hudson Ave</i><br><i>Rochester NY</i> |               |
| NO. PIECES | ARTICLES OR DESCRIPTION                           |                                                                                            | WEIGHT        |
|            | <i>Profile # 121857 NY</i><br><br><i>Can Soil</i> |                                                                                            | WEIGHT IN     |
|            |                                                   |                                                                                            | WEIGHT OUT    |
|            |                                                   |                                                                                            | BILLED WEIGHT |
|            |                                                   |                                                                                            |               |

SHIPPER SIGNATURE *[Signature]* PRINT NAME *Jeffrey Folger on behalf of Jefferson Wollensack LLC*

DRIVER SIGNATURE *[Signature]* PRINT NAME *Jason Lovre*

SPECIAL INSTRUCTIONS:

*Charge to Wollensack*

DESTINATION:

*High Acres Landfill*

FOR APPROVAL:

CONSIGNEE PRINT NAME *[Signature]*

CONSIGNEE SIGN HERE  
(NO INITIALS) *[Signature]*

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM  
BY

DATE

*1/9/20*

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.



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Syracuse, NY 13217  
(315) 433-5115

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6800 W. Henrietta Road  
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(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70315

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-2020  |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile #121857 NY      | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

### SPECIAL INSTRUCTIONS:

Charge To Wollensak

### DESTINATION:

Highacker

### FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

1-9-20

☐ AM

BY

TIME

☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
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(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70478

load #3 TK# 338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/9/2020  |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                             |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Feig on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Allen Wixson

### SPECIAL INSTRUCTIONS:

Charge to Wollensak

### DESTINATION:

High Acres Land Fill

|                                                         |                                                                                                                 |                                                                                                                                                                                                                                                                                                 |  |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FOR APPROVAL:                                           |                                                                                                                 | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |  |
| CONSIGNEE PRINT NAME <u>[Signature]</u>                 |                                                                                                                 |                                                                                                                                                                                                                                                                                                 |  |
| CONSIGNEE SIGN HERE <u>[Signature]</u><br>(NO INITIALS) |                                                                                                                 |                                                                                                                                                                                                                                                                                                 |  |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION               | FIRM _____ DATE <u>1/9/20</u><br>BY _____ TIME _____<br><input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |  |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088744

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-20    |      |    |   |     |
| TRUCK # 17                                                                          | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                             |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Felger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Devon Murphy

|                                               |
|-----------------------------------------------|
| SPECIAL INSTRUCTIONS:<br>Charged to Wollensak |
| DESTINATION:<br>High Acres Int'l              |

|                                                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:<br>CONSIGNEE PRINT NAME <u>[Signature]</u><br>CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> 1920                                   | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION<br>FIRM _____ DATE _____<br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Rush, NY 14543  
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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088732

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                          |      |    |   |     |
|-------------------------------------------------------------------------------------|--------------------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br><br>1/9/20       | TIME | IN | / | OUT |
|                                                                                     | TRUCK # <del>11</del> 13 |      |    |   |     |

|                                                                                                                 |                                                                           |        |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensack LLC<br>872 Hudson Ave Rochester, NY |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                   | WEIGHT |
|                                                                                                                 | WEIGHT IN                                                                 |        |
|                                                                                                                 | WEIGHT OUT                                                                |        |
|                                                                                                                 | BILLED WEIGHT                                                             |        |
|                                                                                                                 | Profile #121857 NY                                                        |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE Don Hall PRINT NAME Don Hall

### SPECIAL INSTRUCTIONS:

Charged to Wollensack

### DESTINATION:

High Acres landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

1/20

BY

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088749

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-20    |      |    |   |     |
| TRUCK #<br>360                                                                      | TRAILER # |      |    |   |     |

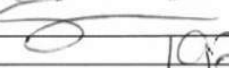
|                                                                                                             |                                                                         |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | profile # 121857 NY     | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE  PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE  PRINT NAME Kerry Susano

|                                                  |
|--------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Change to wollensak |
| DESTINATION:<br><br>High Acres Landfill          |

|                                                                                                                       |                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                      | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME                                                                                                  |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS)  |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION                                                                             |                                                                                                                                                                                                                                                                                                 |
| FIRM _____ DATE <u>1-9-20</u>                                                                                         |                                                                                                                                                                                                                                                                                                 |
| BY _____ TIME _____                                                                                                   | <input type="checkbox"/> AM<br><input type="checkbox"/> PM                                                                                                                                                                                                                                      |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
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Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70316

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-9-2020  |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                             |                                                                      |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile #121857 NY      | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

### SPECIAL INSTRUCTIONS:

Charge To Wollensak

### DESTINATION:

Highacker landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

1920

☐ AM

☐ PM

BY

TIME

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





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(315) 433-5115

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(585) 344-8410

Geneva  
1210 Gifford Road  
Pheps, NY 14532  
(315) 548-4049

10460

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                 |                          |         |     |
|---------------------------------|--------------------------|---------|-----|
| TRANSPORTER<br><br>Riccelli ent | DATE<br><br>1/9/20       | TIME IN | OUT |
|                                 | TRUCK # 12 TRAILER # N/A |         |     |

|            |                                                                         |               |        |
|------------|-------------------------------------------------------------------------|---------------|--------|
| CONSIGNEE  | SHIPPER<br>Jefferson - Wellensack LLC<br>872 Hudson Ave<br>Rochester NY |               |        |
| NO. PIECES | ARTICLES OR DESCRIPTION                                                 | WEIGHT IN     | WEIGHT |
|            | Profile # 121857 NY                                                     | WEIGHT OUT    |        |
|            | Con soil                                                                | BILLED WEIGHT |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wellensack LLC  
DRIVER SIGNATURE [Signature] PRINT NAME Jason J Lank

### SPECIAL INSTRUCTIONS:

Charge to Wellensack

### DESTINATION:

High Acres Landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS) [Signature] 1/9/20

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

☐ AM

BY

TIME

☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.





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(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70479

load 4 TK#338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/9/2020  |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                             |        |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                     | WEIGHT |
|                                                                                                                 | ProSte # 121857 NY                                                          |        |
|                                                                                                                 | WEIGHT IN                                                                   |        |
|                                                                                                                 | WEIGHT OUT                                                                  |        |
|                                                                                                                 | BILLED WEIGHT                                                               |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Fudge on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Allen Wikson

SPECIAL INSTRUCTIONS:  
  
Charge to Wollensak

DESTINATION:  
  
HIGH ACERS Land Fill

|                                           |                                       |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                             |                                       | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME                      | <u>SDuffin</u>                        |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS)         | <u>[Signature]</u>                    |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION | FIRM <u>1920</u> DATE <u>1/9/2020</u> |                                                                                                                                                                                                                                                                                                 |
| BY                                        | TIME                                  | <input type="checkbox"/> AM <input type="checkbox"/> PM                                                                                                                                                                                                                                         |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

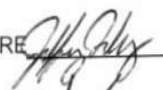
Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088748

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |        |    |   |     |
|-------------------------------------------------------------------------------------|-----------|--------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME   | IN | / | OUT |
|                                                                                     | 1-10-20   | 828 AM |    |   |     |
| TRUCK #<br>360                                                                      | TRAILER # |        |    |   |     |

|                                                                                                             |                                                                     |               |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson - Wollensak<br>812 Hudson Ave<br>Rochester, NY |               |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION                                             | WEIGHT        |
|                                                                                                             | Profile # 121857 NY                                                 | WEIGHT IN     |
|                                                                                                             | Con Soil                                                            | WEIGHT OUT    |
|                                                                                                             |                                                                     | BILLED WEIGHT |

SHIPPER SIGNATURE  PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE  PRINT NAME Kenny Susrud

SPECIAL INSTRUCTIONS:

CHARGE TO Wollensak

DESTINATION:

High Acres Landfill

FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

BY

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70364

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                    |      |    |   |     |
|-------------------------------------------------------------------------------------|--------------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE               | TIME | IN | / | OUT |
|                                                                                     | 11/10/20           |      |    |   |     |
| TRUCK #<br><br>51                                                                   | TRAILER #<br><br>— |      |    |   |     |

|                                                                                                                 |                                                                                  |               |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensack LLC<br>872 hudson ave -<br>Rochester, N.Y. |               |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                          | WEIGHT        |
|                                                                                                                 | Profile # 121857 NY                                                              | WEIGHT IN     |
|                                                                                                                 |                                                                                  | WEIGHT OUT    |
|                                                                                                                 |                                                                                  | BILLED WEIGHT |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE Mark Johnson PRINT NAME Mark Johnson

### SPECIAL INSTRUCTIONS:

changed to wollensack

### DESTINATION:

High Acres Landfill.

### FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

11/10/20

☐ AM  
☐ PM

BY

TIME

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Pheps, NY 14532  
(315) 548-4049

70481

load # 1 TK # 338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                    |           |      |    |   |     |
|------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                    | 1/10/2020 |      |    |   |     |
| TRUCK #                                                                            | TRAILER # |      |    |   |     |

|                                                                                                                |                                                                        |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensack<br>872 Hudson Ave<br>Rochester, NY |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121 857 NY #  | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Fager on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Allen Wixson

### SPECIAL INSTRUCTIONS:

Charge to Wollensack

### DESTINATION:

High Acres Land Fill

### FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

1/10/20

BY

TIME

☐ AM

☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Ricelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088516

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                |      |    |   |     |
|-------------------------------------------------------------------------------------|----------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE           | TIME | IN | / | OUT |
|                                                                                     | 1-10-20        |      |    |   |     |
| TRUCK #<br>17                                                                       | TRAILER #<br>— |      |    |   |     |

|                                                                                                                 |                                                                             |        |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensack LLC<br>872 Hudson Ave<br>Rochester NY |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                     | WEIGHT |
|                                                                                                                 | WEIGHT IN                                                                   |        |
|                                                                                                                 | WEIGHT OUT                                                                  |        |
|                                                                                                                 | BILLED WEIGHT                                                               |        |
|                                                                                                                 | Pallet # 121857 NY                                                          |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Felger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Dennis Murphy

### SPECIAL INSTRUCTIONS:

Charge to Wollensack

### DESTINATION:

High Acres landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

11020

BY

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088737

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                  |           |      |    |   |     |
|------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER                                                      | DATE      | TIME | IN | / | OUT |
| RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | 1/9/20    |      |    |   |     |
| TRUCK #<br>11                                                    | TRAILER # |      |    |   |     |

|                                                                                                |                                                                  |        |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------|
| CONSIGNEE                                                                                      | SHIPPER                                                          |        |
| RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | Jefferson - Wollen Sak LLC<br>872 Hudson Ave.<br>Rochester, N.Y. |        |
| NO. PIECES                                                                                     | ARTICLES OR DESCRIPTION                                          | WEIGHT |
|                                                                                                | WEIGHT IN                                                        |        |
|                                                                                                | WEIGHT OUT                                                       |        |
|                                                                                                | BILLED WEIGHT                                                    |        |
|                                                                                                | Profile # 121857 NY                                              |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffery Edgar on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE Don Hall PRINT NAME Don Hall

|                       |
|-----------------------|
| SPECIAL INSTRUCTIONS: |
| Charged to Wollensak  |
| DESTINATION:          |
| High Acres Landfill   |

|                                                      |                                                                                                                                                                                                                                                                                                 |                                                            |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| FOR APPROVAL:                                        | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |                                                            |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                                                                                                                                                                                                 |                                                            |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                                                                                                                                                                                                 |                                                            |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM _____ DATE <u>1/10/20</u>                                                                                                                                                                                                                                                                  | <input type="checkbox"/> AM<br><input type="checkbox"/> PM |
| BY _____                                             | TIME _____                                                                                                                                                                                                                                                                                      |                                                            |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
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(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088747

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |         |     |
|-------------------------------------------------------------------------------------|-----------|---------|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME IN | OUT |
|                                                                                     | 1-10-20   | 1010    |     |
| TRUCK #<br>300                                                                      | TRAILER # |         |     |

|                                                                                                                 |                                                                        |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile # 121857 NY     | WEIGHT IN     |
|            | CG soil                 | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE  PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE  PRINT NAME Kerry Scurio

SPECIAL INSTRUCTIONS:

CHARGE TO Wollensak

DESTINATION:

HIGH ACRES LANDFILL

FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM  
BY

DATE  
TIME

11000

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70497

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                |      |    |   |     |
|-------------------------------------------------------------------------------------|----------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE           | TIME | IN | / | OUT |
|                                                                                     | 11/10/20       |      |    |   |     |
| TRUCK #<br>51                                                                       | TRAILER #<br>- |      |    |   |     |

|                                                                                                             |                                                                         |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensack LLC.<br>872 Hudson Ave<br>Rochester NY. |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | # Profile # 121857 NY   | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Dyer on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE Mark Johnson PRINT NAME Mark Johnson

### SPECIAL INSTRUCTIONS:

changed to wollensack

### DESTINATION:

High acre landfill

|                                                      |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u>[Signature]</u>                     |                                                                                                                                                 | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                                                 |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM <u>[Signature]</u> DATE <u>11/10/20</u><br>BY <u>[Signature]</u> TIME <u>11:00</u> <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70482

load # 2 TK # 338

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 4/10/2020 |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                             |                         |                                                                         |        |
|-------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------|--------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                         | SHIPPER<br>Jefferson - Wollensak LLC<br>872 Hudson Ave<br>Rochester, NY |        |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION |                                                                         | WEIGHT |
|                                                                                                             | Profile # 121857 NY     |                                                                         |        |
|                                                                                                             | WEIGHT IN               |                                                                         |        |
|                                                                                                             | WEIGHT OUT              |                                                                         |        |
|                                                                                                             | BILLED WEIGHT           |                                                                         |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Allen Wilson

### SPECIAL INSTRUCTIONS:

Charge to Wollensak

### DESTINATION:

HIGH ACERS

|                                                         |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u>[Signature]</u>                        |                                                                                                                                                   | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>                 |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE <u>[Signature]</u><br>(NO INITIALS) |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION               | FIRM <u>[Signature]</u> DATE <u>4/10/20</u><br>BY <u>[Signature]</u> TIME <u>11:00</u><br><input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Pheips, NY 14532  
(315) 548-4049

0088738

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                    |           |      |    |   |     |
|------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                    | 1/9/20    |      |    |   |     |
| TRUCK #<br>11                                                                      | TRAILER # |      |    |   |     |

|                                                                                                            |                                                                             |        |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------|
| CONSIGNEE<br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson - Wollen Sack LLC<br>872 Hudson Ave<br>Rochester, N.Y. |        |
| NO. PIECES                                                                                                 | ARTICLES OR DESCRIPTION                                                     | WEIGHT |
|                                                                                                            | WEIGHT IN                                                                   |        |
|                                                                                                            | WEIGHT OUT                                                                  |        |
|                                                                                                            | BILLED WEIGHT                                                               |        |
|                                                                                                            | Profile # 121857                                                            |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Payer on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE [Signature] PRINT NAME Don Hall

### SPECIAL INSTRUCTIONS:

Charged to Wollen Sack

### DESTINATION:

High Acres landfill

|                                                      |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u>[Signature]</u>                     |                                                                                                                                                   | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM <u>[Signature]</u> DATE <u>1/10/20</u><br>BY <u>[Signature]</u> TIME <u>11:20</u><br><input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Ricelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088745

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                 |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br>1/10/20 | TIME | IN | / | OUT |
|                                                                                     | TRUCK # 17      |      |    |   |     |
| TRAILER #                                                                           |                 |      |    |   |     |

|                                                                                                             |                         |                                                                        |               |
|-------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------|---------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                         | SHIPPER<br>Jefferson - Wollensak LLC<br>871 Huds. Ave<br>Rochester, NY |               |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION |                                                                        | WEIGHT        |
|                                                                                                             | Profile # 121857 NY     |                                                                        | WEIGHT IN     |
|                                                                                                             |                         |                                                                        | WEIGHT OUT    |
|                                                                                                             |                         |                                                                        | BILLED WEIGHT |

SHIPPER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

DRIVER SIGNATURE *[Signature]* PRINT NAME Debra Murphy

SPECIAL INSTRUCTIONS:

Charge to Wollensak

DESTINATION: High Acres landfill

|                                            |                                                                                                           |                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <u><i>[Signature]</i></u>    |                                                                                                           | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                 |                                                                                                           |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE _____<br>(NO INITIALS) |                                                                                                           |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION  | FIRM _____ DATE 1/10/20<br>BY _____ TIME _____<br><input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70317

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-10-2020 |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                             |                                                                      |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br>Jefferson-Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | Profile #121857 NY      | WEIGHT IN     |
|            |                         | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Miller on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE [Signature] PRINT NAME Tim Adams

### SPECIAL INSTRUCTIONS:

Charge To Wollensak

### DESTINATION:

Highacker landfill

### FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS) [Signature]

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

11020

BY

TIME

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



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Geneva  
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Phelps, NY 14532  
(315) 548-4049

0088746

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-10-20   |      |    |   |     |
| TRUCK #<br>360                                                                      | TRAILER # |      |    |   |     |

|                                                                                                             |                                  |                                                                       |        |
|-------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------|--------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                                  | SHIPPER<br>Jefferson-Wollensak LLC<br>812 Hudson Ave<br>Rochester, NY |        |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION          | WEIGHT IN                                                             | WEIGHT |
|                                                                                                             | profile<br>121852 NY<br>con soil | WEIGHT OUT                                                            |        |
|                                                                                                             |                                  | BILLED WEIGHT                                                         |        |

SHIPPER SIGNATURE PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE PRINT NAME KENNY SUSANO

SPECIAL INSTRUCTIONS:

CHARGE TO Wollensak

DESTINATION:

High Acres Landfill

FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION  
FIRM BY DATE 1/10/20 TIME 12:03 PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70496

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                     |               |
|-------------------------------------------------------------------------------------|---------------------|---------------|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE<br><br>1/10/20 | TIME IN / OUT |
| TRUCK #<br><br>51                                                                   | TRAILER #           |               |

|                                                                                                                 |                                                                              |               |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensack LLC,<br>872 Hudson Ave<br>Rochester, NY. |               |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                      | WEIGHT        |
|                                                                                                                 | Profile # 121857 NY.                                                         | WEIGHT IN     |
|                                                                                                                 |                                                                              | WEIGHT OUT    |
|                                                                                                                 |                                                                              | BILLED WEIGHT |
|                                                                                                                 |                                                                              |               |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE Mark Johncox PRINT NAME Mark Johncox

SPECIAL INSTRUCTIONS:

changed to wollensack

DESTINATION:

High Acres landfill

|                                                      |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                        | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            |                                                                                                                                                                                                                                                                                                 |
| FIRM <u>[Signature]</u> DATE <u>1/10/20</u>          |                                                                                                                                                                                                                                                                                                 |
| BY <u>[Signature]</u> TIME <u>11:02</u>              |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70483

Load #3 TK# 338  
**NON-HAZARDOUS SOLID WASTE MANIFEST**

|                                                                                    |           |      |    |   |     |
|------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                    | 1/10/2020 |      |    |   |     |
| TRUCK #                                                                            | TRAILER # |      |    |   |     |

|                                                                                                            |                         |                                                                        |        |
|------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------|--------|
| CONSIGNEE<br>RICELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                         | SHIPPER<br>Jefferson-Wollensack LLC<br>872 Hudson Ave<br>Rochester, NY |        |
| NO. PIECES                                                                                                 | ARTICLES OR DESCRIPTION |                                                                        | WEIGHT |
|                                                                                                            | #                       |                                                                        |        |
|                                                                                                            | WEIGHT IN               |                                                                        |        |
|                                                                                                            | WEIGHT OUT              |                                                                        |        |
|                                                                                                            | BILLED WEIGHT           |                                                                        |        |
|                                                                                                            | Profile # 121857 NY     |                                                                        |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensack LLC  
DRIVER SIGNATURE Allen Wixson PRINT NAME Allen Wixson

SPECIAL INSTRUCTIONS:

Charge to Wollensack

DESTINATION:

HIGH AKERS

FOR APPROVAL:

CONSIGNEE PRINT NAME [Signature]

CONSIGNEE SIGN HERE  
(NO INITIALS) [Signature]

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM \_\_\_\_\_ DATE \_\_\_\_\_

BY \_\_\_\_\_ TIME \_\_\_\_\_

☐ AM  
☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Ricelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70365

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1/9/20    |      |    |   |     |
| TRUCK # 11                                                                          | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                                        |        |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson - Wollensak LLC<br><br>872 Hudson Ave.<br><br>Rochester, N.Y. |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                                | WEIGHT |
|                                                                                                                 | WEIGHT IN                                                                              |        |
|                                                                                                                 | WEIGHT OUT                                                                             |        |
|                                                                                                                 | BILLED WEIGHT                                                                          |        |
|                                                                                                                 | Profile # 121857                                                                       |        |

SHIPPER SIGNATURE [Signature] PRINT NAME Jeffrey Fayer on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE Don Hall PRINT NAME Don Hall

SPECIAL INSTRUCTIONS:  
  
Charged to Wollensak

DESTINATION:  
  
High Acres Landfill

|                                                      |                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                                        |                                                                                                                         | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <u>[Signature]</u>              |                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) <u>[Signature]</u> |                                                                                                                         |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION            | FIRM <u>11020</u> DATE <u>1/9/20</u><br>BY <u></u> TIME <u></u> <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

0088515

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |                |      |    |   |     |
|-------------------------------------------------------------------------------------|----------------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE           | TIME | IN | / | OUT |
|                                                                                     | 1-10-20        |      |    |   |     |
| TRUCK #<br>17                                                                       | TRAILER #<br>— |      |    |   |     |

|                                                                                                             |                         |                                                                          |         |
|-------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------|---------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                         | SHIPPER<br>Jefferson - Wollen S&K LLC<br>872 Hudson Ave<br>Rochester, NY |         |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION |                                                                          | WEIGHT  |
|                                                                                                             | Profile # 121857 NY     |                                                                          | 71,180  |
|                                                                                                             | WEIGHT IN               |                                                                          | 28,080  |
|                                                                                                             | WEIGHT OUT              |                                                                          | 21,55 T |
|                                                                                                             | BILLED WEIGHT           |                                                                          | 1329764 |

SHIPPER SIGNATURE  PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensack LLC

DRIVER SIGNATURE  PRINT NAME Devin Murphy

SPECIAL INSTRUCTIONS:

Chase to Wollen S&K

DESTINATION:

High Acres Landfill

FOR APPROVAL:

CONSIGNEE PRINT NAME

CONSIGNEE SIGN HERE  
(NO INITIALS)

RECEIVED  
ABOVE  
MATERIAL IN  
GOOD  
CONDITION

FIRM

DATE

1/10/20

☐ AM

☐ PM

BY

TIME

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

70318

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 1-10-2020 |      |    |   |     |
| TRUCK #<br>21                                                                       | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                          |        |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>Jefferson-Wollensak LLC<br>872 Hudson Ave<br>Rochester NY |        |
| NO. PIECES                                                                                                      | ARTICLES OR DESCRIPTION                                                  | WEIGHT |
|                                                                                                                 | Profile # 121857 NY                                                      |        |
|                                                                                                                 | WEIGHT IN                                                                |        |
|                                                                                                                 | WEIGHT OUT                                                               |        |
|                                                                                                                 | BILLED WEIGHT                                                            |        |

SHIPPER SIGNATURE  PRINT NAME Jeffrey Folger on behalf of Jefferson Wollensak LLC

DRIVER SIGNATURE  PRINT NAME Tim Adams

### SPECIAL INSTRUCTIONS:

Charge To Wollensak

### DESTINATION:

Higacker landfill

|                                           |                                                                                                              |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL:                             |                                                                                                              | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME                      |                           |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS)         |                                                                                                              |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION | FIRM _____ DATE 1/10/20<br>BY _____ TIME _____<br><input type="checkbox"/> AM<br><input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329065

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70310 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 65300 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 09:10 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/08/2020 09:36 | B_Scale_2 | SD #604682 |         | Net   | 35500 lb |
|     |                  |           |            |         | Tons  | 17.75    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 17.75 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329067

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 79700 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 60580 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 09:21 | A_Scale_1 | SD #604682 |         | Tare  | 30780 lb |
| Out | 01/08/2020 09:39 | B_Scale_2 | SD #604682 |         | Net   | 29800 lb |
|     |                  |           |            |         | Tons  | 14.90    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 14.90 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329075

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 11 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088733 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 67840 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 09:49 | A_Scale_1 | SD #604682 |         | Tare  | 28560 lb |
| Out | 01/08/2020 09:49 |           | SD #604682 |         | Net   | 39280 lb |
|     |                  |           |            |         | Tons  | 19.64    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.64 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329071

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70474 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 60580 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 09:35 | A_Scale_1 | SD #604682 |         | Tare  | 29400 lb |
| Out | 01/08/2020 10:00 | B_Scale_2 | SD #604682 |         | Net   | 31180 lb |
|     |                  |           |            |         | Tons  | 15.59    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 15.59 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329083

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088743 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 66480 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 10:22 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/08/2020 10:22 |           | SD #604682 |         | Net   | 38400 lb |
|     |                  |           |            |         | Tons  | 19.20    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.20 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329151

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70311 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 76240 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 11:35 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/08/2020 11:35 |           | SD #604682 |         | Net   | 46440 lb |
|     |                  |           |            |         | Tons  | 23.22    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 23.22 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_





Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329155

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 79699 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71440 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 11:57 | A_Scale_1 | JM #605504 |         | Tare  | 30780 lb |
| Out | 01/08/2020 11:57 |           | JM #605504 |         | Net   | 40660 lb |
|     |                  |           |            |         | Tons  | 20.33    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.33 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        |        |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        |        |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        |        |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329161

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 11 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088734 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 65680 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 12:20 | A_Scale_1 | SD #604682 |         | Tare  | 28560 lb |
| Out | 01/08/2020 12:20 |           | SD #604682 |         | Net   | 37120 lb |
|     |                  |           |            |         | Tons  | 18.56    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 18.56 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        |        |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        |        |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        |        |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_

*San J. Hala*

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329159

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70475 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 68400 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 12:08 | A_Scale_1 | JM #605504 |         | Tare  | 29160 lb |
| Out | 01/08/2020 12:26 | B_Scale_2 | SD #604682 |         | Net   | 39240 lb |
|     |                  |           |            |         | Tons  | 19.62    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.62 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329199

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088741 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 70740 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 12:54 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/08/2020 12:54 |           | SD #604682 |         | Net   | 42660 lb |
|     |                  |           |            |         | Tons  | 21.33    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.33 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329215

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70312 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 74440 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 13:34 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/08/2020 13:34 |           | SD #604682 |         | Net   | 44640 lb |
|     |                  |           |            |         | Tons  | 22.32    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.32 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329266

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 79701 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 68320 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/08/2020 14:10 | A_Scale_1 | SD #604682 |         | Tare  | 30780 lb |
| Out | 01/08/2020 14:10 |           | SD #604682 |         | Net   | 37540 lb |
|     |                  |           |            |         | Tons  | 18.77    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 18.77 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329268

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/08/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70476 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator        | Inbound | Gross | 72760 lb  |
|-----|------------------|-----------|-----------------|---------|-------|-----------|
| In  | 01/08/2020 14:26 | A_Scale_1 | SD #604682      |         | Tare  | 29400 lb* |
| Out | 01/08/2020 14:28 | A_Scale_2 | SD #604682      |         | Net   | 43360 lb  |
|     |                  |           | * Manual Weight |         | Tons  | 21.68     |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.68 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329371

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 79703 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator        | Inbound | Gross | 63640 lb  |
|-----|------------------|-----------|-----------------|---------|-------|-----------|
| In  | 01/09/2020 08:30 | A_Scale_1 | SD #604682      |         | Tare  | 29680 lb* |
| Out | 01/09/2020 08:31 | A_Scale_2 | SD #604682      |         | Net   | 33960 lb  |
|     |                  |           | * Manual Weight |         | Tons  | 16.98     |

Comments MANUAL BECAUSE SAVED TARE WAS ERASED

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 16.98 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_





Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329378

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70313 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 72600 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 08:51 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/09/2020 08:51 |           | SD #604682 |         | Net   | 42800 lb |
|     |                  |           |            |         | Tons  | 21.40    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.40 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329379

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70477 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 74680 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 08:53 | A_Scale_1 | SD #604682 |         | Tare  | 29400 lb |
| Out | 01/09/2020 08:53 |           | SD #604682 |         | Net   | 45280 lb |
|     |                  |           |            |         | Tons  | 22.64    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.64 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_

*Alan Lipson*

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329381

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088742 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 09:08 | A_Scale_1 | SD #604682 |         | Tare  | 69760 lb |
| Out | 01/09/2020 09:08 |           | SD #604682 |         | Net   | 28080 lb |
|     |                  |           |            |         | Tons  | 41680 lb |
|     |                  |           |            |         |       | 20.84    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.84 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329432

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 13 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088735 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 09:55 | A_Scale_1 | SD #604682 |         | Tare  | 67080 lb |
| Out | 01/09/2020 09:55 |           | SD #604682 |         | Net   | 28540 lb |
|     |                  |           |            |         | Tons  | 38540 lb |
|     |                  |           |            |         |       | 19.27    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.27 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329465

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 79702 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 10:25 | A_Scale_1 | SD #604682 |         | Tare  | 74700 lb |
| Out | 01/09/2020 10:25 |           | SD #604682 |         | Net   | 29680 lb |
|     |                  |           |            |         | Tons  | 45020 lb |
|     |                  |           |            |         |       | 22.51    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.51 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329463

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 12 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 10458 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 65400 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 10:12 | A_Scale_1 | SD #604682 |         | Tare  | 25960 lb |
| Out | 01/09/2020 10:44 | B_Scale_2 | SD #604682 |         | Net   | 39440 lb |
|     |                  |           |            |         | Tons  | 19.72    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.72 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329474

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70314 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71180 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 10:46 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/09/2020 10:46 |           | SD #604682 |         | Net   | 41380 lb |
|     |                  |           |            |         | Tons  | 20.69    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.69 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329479

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70480 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71200 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 11:02 | A_Scale_1 | SD #604682 |         | Tare  | 29400 lb |
| Out | 01/09/2020 11:02 |           | SD #604682 |         | Net   | 41800 lb |
|     |                  |           |            |         | Tons  | 20.90    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.90 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_

*Ob Henry*



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329521

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088740 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 74400 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 11:27 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/09/2020 11:27 |           | SD #604682 |         | Net   | 46320 lb |
|     |                  |           |            |         | Tons  | 23.16    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 23.16 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329545

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 13 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088736 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 73900 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 12:06 | A_Scale_1 | SD #604682 |         | Tare  | 28540 lb |
| Out | 01/09/2020 12:06 |           | SD #604682 |         | Net   | 45360 lb |
|     |                  |           |            |         | Tons  | 22.68    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.68 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_

*Sam Wells*

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329548

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 10461 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 79340 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 12:15 | A_Scale_1 | SD #604682 |         | Tare  | 29680 lb |
| Out | 01/09/2020 12:15 |           | SD #604682 |         | Net   | 49660 lb |
|     |                  |           |            |         | Tons  | 24.83    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 24.83 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329552

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 12 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 10459 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 12:36 | A_Scale_1 | SD #604682 |         | Tare  | 73740 lb |
| Out | 01/09/2020 12:36 |           | SD #604682 |         | Net   | 25960 lb |
|     |                  |           |            |         | Tons  | 47780 lb |
|     |                  |           |            |         |       | 23.89    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 23.89 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329554

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70315 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 76980 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 12:47 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/09/2020 12:47 |           | SD #604682 |         | Net   | 47180 lb |
|     |                  |           |            |         | Tons  | 23.59    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 23.59 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329559

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70478 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 70280 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 12:59 | A_Scale_1 | SD #604682 |         | Tare  | 29400 lb |
| Out | 01/09/2020 12:59 |           | SD #604682 |         | Net   | 40880 lb |
|     |                  |           |            |         | Tons  | 20.44    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.44 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329593

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088744 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71380 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 13:26 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/09/2020 13:26 |           | SD #604682 |         | Net   | 43300 lb |
|     |                  |           |            |         | Tons  | 21.65    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.65 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329608

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 13 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088732 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71120 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 14:01 | A_Scale_1 | SD #604682 |         | Tare  | 28540 lb |
| Out | 01/09/2020 14:01 |           | SD #604682 |         | Net   | 42580 lb |
|     |                  |           |            |         | Tons  | 21.29    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.29 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_

*Don Hall*



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329615

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088749 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 75480 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 14:24 | A_Scale_1 | SD #604682 |         | Tare  | 29680 lb |
| Out | 01/09/2020 14:24 |           | SD #604682 |         | Net   | 45800 lb |
|     |                  |           |            |         | Tons  | 22.90    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.90 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329618

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70316 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 14:37 | A_Scale_1 | SD #604682 |         | Tare  | 69300 lb |
| Out | 01/09/2020 14:37 |           | SD #604682 |         | Net   | 29800 lb |
|     |                  |           |            |         | Tons  | 39500 lb |
|     |                  |           |            |         |       | 19.75    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.75 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s Signature\_\_\_\_\_

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329620

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 12 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 10460 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 64940 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 14:48 | A_Scale_1 | SD #604682 |         | Tare  | 25960 lb |
| Out | 01/09/2020 14:48 |           | SD #604682 |         | Net   | 38980 lb |
|     |                  |           |            |         | Tons  | 19.49    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.49 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        |        |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        |        |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        |        |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329622

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/09/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70479 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

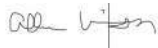
|     | Time             | Scale     | Operator   | Inbound | Gross | 77480 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/09/2020 15:03 | A_Scale_1 | SD #604682 |         | Tare  | 29400 lb |
| Out | 01/09/2020 15:03 |           | SD #604682 |         | Net   | 48080 lb |
|     |                  |           |            |         | Tons  | 24.04    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 24.04 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329707

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088748 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 08:32 | A_Scale_1 | SD #604682 |         | Tare  | 69500 lb |
| Out | 01/10/2020 08:32 |           | SD #604682 |         | Net   | 29680 lb |
|     |                  |           |            |         | Tons  | 39820 lb |
|     |                  |           |            |         |       | 19.91    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.91 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329711

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 51 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70364 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 75680 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 08:47 | A_Scale_1 | SD #604682 |         | Tare  | 43020 lb |
| Out | 01/10/2020 08:47 |           | SD #604682 |         | Net   | 32660 lb |
|     |                  |           |            |         | Tons  | 16.33    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 16.33 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s Signature\_\_\_\_\_

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329718

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70481 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 09:08 | A_Scale_1 | SD #604682 |         | Tare  | 75700 lb |
| Out | 01/10/2020 09:08 |           | SD #604682 |         | Net   | 29400 lb |
|     |                  |           |            |         | Tons  | 46300 lb |
|     |                  |           |            |         |       | 23.15    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 23.15 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        |        |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        |        |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        |        |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329721

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088516 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 70560 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 09:21 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/10/2020 09:21 |           | SD #604682 |         | Net   | 42480 lb |
|     |                  |           |            |         | Tons  | 21.24    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.24 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature





Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329723

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 11 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088737 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 73480 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 09:29 | A_Scale_1 | SD #604682 |         | Tare  | 28560 lb |
| Out | 01/10/2020 09:29 |           | SD #604682 |         | Net   | 44920 lb |
|     |                  |           |            |         | Tons  | 22.46    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.46 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329739

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088747 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 73120 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 10:11 | A_Scale_1 | SD #604682 |         | Tare  | 29680 lb |
| Out | 01/10/2020 10:11 |           | SD #604682 |         | Net   | 43440 lb |
|     |                  |           |            |         | Tons  | 21.72    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.72 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329743

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 51 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70497 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 75860 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 10:33 | A_Scale_1 | SD #604682 |         | Tare  | 43020 lb |
| Out | 01/10/2020 10:33 |           | SD #604682 |         | Net   | 32840 lb |
|     |                  |           |            |         | Tons  | 16.42    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 16.42 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329751

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70482 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 10:56 | A_Scale_1 | SD #604682 |         | Tare  | 69820 lb |
| Out | 01/10/2020 10:56 |           | SD #604682 |         | Net   | 29400 lb |
|     |                  |           |            |         | Tons  | 40420 lb |
|     |                  |           |            |         |       | 20.21    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.21 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329754

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 11 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088738 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71360 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 11:05 | A_Scale_1 | SD #604682 |         | Tare  | 28560 lb |
| Out | 01/10/2020 11:05 |           | SD #604682 |         | Net   | 42800 lb |
|     |                  |           |            |         | Tons  | 21.40    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.40 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329764

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088745 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71180 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 11:24 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/10/2020 11:24 |           | SD #604682 |         | Net   | 43100 lb |
|     |                  |           |            |         | Tons  | 21.55    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.55 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329769

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest NA Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 82860 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 11:42 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/10/2020 11:42 |           | SD #604682 |         | Net   | 53060 lb |
|     |                  |           |            |         | Tons  | 26.53    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 26.53 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s Signature\_\_\_\_\_

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329776

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 360 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088746 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 75240 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 12:04 | A_Scale_1 | SD #604682 |         | Tare  | 29680 lb |
| Out | 01/10/2020 12:04 |           | SD #604682 |         | Net   | 45560 lb |
|     |                  |           |            |         | Tons  | 22.78    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.78 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_





Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329784

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 51 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70496 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 79500 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 12:38 | A_Scale_1 | SD #604682 |         | Tare  | 43020 lb |
| Out | 01/10/2020 12:38 |           | SD #604682 |         | Net   | 36480 lb |
|     |                  |           |            |         | Tons  | 18.24    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 18.24 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329794

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 338 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70483 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 78800 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 12:55 | A_Scale_1 | SD #604682 |         | Tare  | 29400 lb |
| Out | 01/10/2020 12:55 |           | SD #604682 |         | Net   | 49400 lb |
|     |                  |           |            |         | Tons  | 24.70    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 24.70 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329800

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 11 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70365 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 72620 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 13:13 | A_Scale_1 | SD #604682 |         | Tare  | 28560 lb |
| Out | 01/10/2020 13:13 |           | SD #604682 |         | Net   | 44060 lb |
|     |                  |           |            |         | Tons  | 22.03    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.03 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329803

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 17 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 0088515 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 72100 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 13:27 | A_Scale_1 | SD #604682 |         | Tare  | 28080 lb |
| Out | 01/10/2020 13:27 |           | SD #604682 |         | Net   | 44020 lb |
|     |                  |           |            |         | Tons  | 22.01    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 22.01 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329807

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 325 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 70318 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross |          |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 13:55 | A_Scale_1 | SD #604682 |         | Tare  | 93560 lb |
| Out | 01/10/2020 13:55 |           | SD #604682 |         | Net   | 29260 lb |
|     |                  |           |            |         | Tons  | 64300 lb |
|     |                  |           |            |         |       | 32.15    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 32.15 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



# **Sanitary Sewer Lateral Disposal Documentation**

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management  
625 Broadway, 9th Floor, Albany, New York 12233-7256  
P: (518) 402-8651 | F: (518) 402-9024  
[www.dec.ny.gov](http://www.dec.ny.gov)

February 21, 2020

**Sent via e-mail, no hard copy to follow**

Ms. Jennifer Gillen, PG  
Brownfield & Phase II Program Manager  
LaBella Associates  
300 State Street, Suite 201  
Rochester, NY 14614

Re: "Contained-In" Determination Request  
Former Wollensack Optical  
872 Hudson Ave, Rochester, NY  
NYSDEC Site No. C828209

Dear Ms. Gillen:

The New York State Department of Environmental Conservation (NYSDEC or the Department) have completed our review of the soil sampling data (Lab Sample ID: L2006207-01) from excavated soil that was generated from the site during the installation of an underground sewer lateral submitted on February 19, 2020, via e-mail request for a "contained-in" determination for the referenced project.

Concentrations detected for individual volatile organic compounds (VOCs) were all less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations (Lab Sample ID: L2006207-01) for tetrachloroethene, trichloroethene and cis-1,2-dichloroethene were below the soil "contained-in" action level and the Land Disposal Restriction concentration. Therefore, approximately 75 cubic yards of soil that was generated from the site during the installation of an underground sewer lateral at the subject property, do not have to be managed as a hazardous waste and can be transported off-site to either Waste Management's High Acres landfill in Fairport, NY or Waste Management's Mill Seat landfill in Riga, NY or another permitted 360 solid waste facility able to accept this material, for disposal as non-hazardous waste.



Department of  
Environmental  
Conservation



Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at [henry.wilkie@dec.ny.gov](mailto:henry.wilkie@dec.ny.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Henry Wilkie", written in a cursive style.

Henry Wilkie  
Assistant Environmental Engineer  
RCRA Permitting Section

ec: C. Theobald, NYSDEC Region 8



## Pelychaty, Mike

---

**From:** Wilkie, Henry (DEC) <henry.wilkie@dec.ny.gov>  
**Sent:** Friday, February 21, 2020 1:57 PM  
**To:** Pelychaty, Mike  
**Cc:** Theobald, Charlotte B (DEC)  
**Subject:** RE: C828209 - Former Jefferson Wollensack Contained-In Sample Results for Sewer Lateral  
**Attachments:** Letter-Correspondence.BCP.C828209.2020-02-21.Former Jefferson Wollensack 4th Contained In Determination Approval.pdf

Good Afternoon all,

Attached is the "Contained-in" Determination approval letter.

This email copies you on correspondence from the New York State Department of Environmental Conservation. Electronic attachments may be attached. This document has also been entered into the DECDOC system. A hard copy version will not follow in the mail.

If you have any additional questions, please feel free to contact me.

*Henry Wilkie*

**Henry Wilkie**

Assistant Engineer, Division of Materials Management

**New York State Department of Environmental Conservation**

625 Broadway, Albany, New York 12233-7256

P: (518) 402-9611 | F: (518) 402-9627 | [henry.wilkie@dec.ny.gov](mailto:henry.wilkie@dec.ny.gov)

[www.dec.ny.gov](http://www.dec.ny.gov) |  |  | 



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**From:** Pelychaty, Mike <mpelychaty@LaBellaPC.com>  
**Sent:** Wednesday, February 19, 2020 1:38 PM  
**To:** Wilkie, Henry (DEC) <henry.wilkie@dec.ny.gov>  
**Cc:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Subject:** RE: C828209 - Former Jefferson Wollensack Contained-In Sample Results for Sewer Lateral

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

Henry,

Attached is the lab data results (Lab Report L2006207) reported for waste characterization from an approximate 75 cubic yards of soil that was generated from the site during the installation of an underground sewer lateral. One (1)

composite soil sample (from 3-5 discrete locations at the stockpile) was collected and submitted for the following analyses:

- Total VOCs (TCL list)
- TCLP VOCs
- TCLP metals
- TCLP SVOCs
- Reactive cyanide and sulfide
- pH
- flashpoint

Based on this data, a contained-in determination is requested for soil to be disposed of as non-hazardous at a Part 360 landfill that would be either Mill Seat Landfill in Riga, NY or High Acres Landfill in Fairport, NY. Please contact me with any questions.

Regards,

Michael Pelychaty, PG

LaBella Associates | Sr. Environmental Geologist

585-295-6253    direct  
585-454-6110    office

---

**From:** Wilkie, Henry (DEC) [<mailto:henry.wilkie@dec.ny.gov>]  
**Sent:** Friday, February 7, 2020 2:07 PM  
**To:** Pelychaty, Mike <[mpelychaty@LaBellaPC.com](mailto:mpelychaty@LaBellaPC.com)>  
**Cc:** Theobald, Charlotte B (DEC) <[charlotte.theobald@dec.ny.gov](mailto:charlotte.theobald@dec.ny.gov)>  
**Subject:** RE: C828209 - Former Jefferson Wollensack Contained-In Work Plan

Mike,

Yes, I don't have any comments.

If you have any additional questions, please feel free to contact me.

*Henry Wilkie*

**Henry Wilkie**

Assistant Engineer, Division of Materials Management

**New York State Department of Environmental Conservation**

625 Broadway, Albany, New York 12233-7256

P: (518) 402-9611 | F: (518) 402-9627 | [henry.wilkie@dec.ny.gov](mailto:henry.wilkie@dec.ny.gov)

[www.dec.ny.gov](http://www.dec.ny.gov) |  |  | 



---

**From:** Pelychaty, Mike <[mpelychaty@LaBellaPC.com](mailto:mpelychaty@LaBellaPC.com)>  
**Sent:** Tuesday, February 04, 2020 3:32 PM  
**To:** Wilkie, Henry (DEC) <[henry.wilkie@dec.ny.gov](mailto:henry.wilkie@dec.ny.gov)>

**Cc:** Theobald, Charlotte B (DEC) <[charlotte.theobald@dec.ny.gov](mailto:charlotte.theobald@dec.ny.gov)>

**Subject:** C828209 - Former Jefferson Wollensack Contained-In Work Plan

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

Henry,

I am working on the Jefferson Wollensack site located at 872 Hudson Avenue, Rochester, NY. Approximately 75 cubic yards of soil has been generated from the site during the installation of an underground sewer lateral and placed into a stockpile. The following sampling/testing plan is proposed in anticipation of a contained-in request.

One (1) composite soil sample (from 3-5 discrete locations at the stockpile) is proposed to be analyzed from the following:

- Total VOCs (TCL list)
- TCLP VOCs
- TCLP metals
- TCLP SVOCs
- Reactive cyanide and sulfide
- pH
- flashpoint

Please let me know if you have any questions or require additional information.

-Mike

Michael Pelychaty, PG

LaBella Associates | Sr. Environmental Geologist



585-295-6253    direct  
585-454-6110    office  
300 State Street, Suite 201  
Rochester, NY 14614  
[labellapc.com](http://labellapc.com)



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L2006207                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Mike Pelychaty                                                                   |
| Phone:          | (585) 295-6253                                                                   |
| Project Name:   | FORMER JEFFERSON WOLLENSACK OP                                                   |
| Project Number: | 2182207                                                                          |
| Report Date:    | 02/19/20                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b>                       | <b>Matrix</b> | <b>Sample<br/>Location</b>     | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|----------------------------------------|---------------|--------------------------------|---------------------------------|---------------------|
| L2006207-01                | WCS-20200211-01-C-<br>SEWERLATERALSOIL | SOIL          | 886 HUDSON AVE., ROCHESTER, NY | 02/11/20 14:00                  | 02/11/20            |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

### Case Narrative (continued)

#### Report Submission

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

#### Sample Receipt

L2006207-01: The sample was received and analyzed out of an inappropriate container for the TCLP Volatile Organics analysis with the client's authorization.

#### pH

The WG1339900-2 Laboratory Duplicate RPD for pH (6%), performed on L2006207-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

*Tiffani Morrissey* - Tiffani Morrissey

Title: Technical Director/Representative

Date: 02/19/20

# ORGANICS



# **VOLATILES**

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**SAMPLE RESULTS**

**Lab ID:** L2006207-01  
**Client ID:** WCS-20200211-01-C-SEWERLATERALSOIL  
**Sample Location:** 886 HUDSON AVE., ROCHESTER, NY

**Date Collected:** 02/11/20 14:00  
**Date Received:** 02/11/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 02/13/20 08:27  
**Analyst:** MM  
**Percent Solids:** 83%  
**TCLP/SPLP Ext. Date:** 02/12/20 15:09

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab |        |           |       |     |      |                 |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 2.2  | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 0.71 | 10              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 1.7  | 10              |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 1.9  | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19.  | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92         |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 103        |           | 70-130              |
| dibromofluoromethane  | 100        |           | 70-130              |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**SAMPLE RESULTS**

**Lab ID:** L2006207-01  
**Client ID:** WCS-20200211-01-C-SEWERLATERALSOIL  
**Sample Location:** 886 HUDSON AVE., ROCHESTER, NY

**Date Collected:** 02/11/20 14:00  
**Date Received:** 02/11/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 02/14/20 13:57  
**Analyst:** JC  
**Percent Solids:** 83%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.7  | 2.6  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.1  | 0.26 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.1  | 0.14 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.1  | 0.30 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.57 | 0.22 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.57 | 0.14 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.6  | 0.79 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.1  | 0.29 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.57 | 0.19 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.57 | 0.12 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.1  | 0.31 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.57 | 0.18 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.6  | 0.28 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.57 | 0.19 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.57 | 0.19 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.1  | 0.62 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.1  | 0.16 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.6  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.3  | 0.66 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.1  | 0.38 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.3  | 0.52 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.1  | 0.27 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.7  | 0.16 | 1               |
| Trichloroethene                                     | ND     |           | ug/kg | 0.57 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3  | 0.16 | 1               |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**SAMPLE RESULTS**

**Lab ID:** L2006207-01  
**Client ID:** WCS-20200211-01-C-SEWERLATERALSOIL  
**Sample Location:** 886 HUDSON AVE., ROCHESTER, NY

**Date Collected:** 02/11/20 14:00  
**Date Received:** 02/11/20  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3 | 0.17 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.3 | 0.20 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.3 | 0.23 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.3 | 0.64 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.1 | 0.33 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.1 | 0.20 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.1 | 0.22 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 11  | 1.0  | 1               |
| Acetone                                             | ND     |           | ug/kg | 11  | 5.5  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 11  | 5.2  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 11  | 2.5  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 11  | 1.5  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 11  | 1.3  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.3 | 0.23 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.1 | 0.32 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.4 | 1.1  | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.1 | 0.12 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.3 | 0.37 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.3 | 0.31 | 1               |
| Methyl Acetate                                      | ND     |           | ug/kg | 4.6 | 1.1  | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 11  | 0.62 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 91  | 40.  | 1               |
| Freon-113                                           | ND     |           | ug/kg | 4.6 | 0.79 | 1               |
| Methyl cyclohexane                                  | ND     |           | ug/kg | 4.6 | 0.69 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 107        |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 107        |           | 70-130              |

**Project Name:** FORMER JEFFERSON WOLLENSACK OF  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 02/13/20 07:54  
 Analyst: MM  
 TCLP/SPLP Extraction Date: 02/12/20 15:09

Extraction Date: 02/12/20 15:09

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1340303-5 |        |           |       |     |      |
| Chloroform                                                                        | ND     |           | ug/l  | 7.5 | 2.2  |
| Carbon tetrachloride                                                              | ND     |           | ug/l  | 5.0 | 1.3  |
| Tetrachloroethene                                                                 | ND     |           | ug/l  | 5.0 | 1.8  |
| Chlorobenzene                                                                     | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,2-Dichloroethane                                                                | ND     |           | ug/l  | 5.0 | 1.3  |
| Benzene                                                                           | ND     |           | ug/l  | 5.0 | 1.6  |
| Vinyl chloride                                                                    | ND     |           | ug/l  | 10  | 0.71 |
| 1,1-Dichloroethene                                                                | ND     |           | ug/l  | 5.0 | 1.7  |
| Trichloroethene                                                                   | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,4-Dichlorobenzene                                                               | ND     |           | ug/l  | 25  | 1.9  |
| 2-Butanone                                                                        | ND     |           | ug/l  | 50  | 19.  |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 92        |           | 70-130                 |
| Toluene-d8            | 98        |           | 70-130                 |
| 4-Bromofluorobenzene  | 106       |           | 70-130                 |
| dibromofluoromethane  | 98        |           | 70-130                 |

**Project Name:** FORMER JEFFERSON WOLLENSACK OF  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 02/14/20 07:33  
 Analyst: MKS

| Parameter                                                                                | Result | Qualifier | Units | RL   | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1340889-5 |        |           |       |      |      |
| Methylene chloride                                                                       | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                               | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                     | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                      | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                     | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                    | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                        | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                            | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                                   | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                    | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                     | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                                | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                                  | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                                | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,2,2-Tetrachloroethane                                                                | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                                  | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                                  | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                             | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                            | ND     |           | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                             | ND     |           | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                           | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                             | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                       | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                                 | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                          | ND     |           | ug/kg | 0.50 | 0.14 |
| 1,2-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0  | 0.14 |
| 1,3-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0  | 0.15 |

**Project Name:** FORMER JEFFERSON WOLLENSACK OF  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 02/14/20 07:33  
 Analyst: MKS

| Parameter                                                                                | Result | Qualifier | Units | RL  | MDL  |
|------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1340889-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether                                                                  | ND     |           | ug/kg | 2.0 | 0.20 |
| p/m-Xylene                                                                               | ND     |           | ug/kg | 2.0 | 0.56 |
| o-Xylene                                                                                 | ND     |           | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene                                                                   | ND     |           | ug/kg | 1.0 | 0.18 |
| Styrene                                                                                  | ND     |           | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane                                                                  | ND     |           | ug/kg | 10  | 0.92 |
| Acetone                                                                                  | ND     |           | ug/kg | 10  | 4.8  |
| Carbon disulfide                                                                         | ND     |           | ug/kg | 10  | 4.6  |
| 2-Butanone                                                                               | ND     |           | ug/kg | 10  | 2.2  |
| 4-Methyl-2-pentanone                                                                     | ND     |           | ug/kg | 10  | 1.3  |
| 2-Hexanone                                                                               | ND     |           | ug/kg | 10  | 1.2  |
| Bromochloromethane                                                                       | ND     |           | ug/kg | 2.0 | 0.20 |
| 1,2-Dibromoethane                                                                        | ND     |           | ug/kg | 1.0 | 0.28 |
| 1,2-Dibromo-3-chloropropane                                                              | ND     |           | ug/kg | 3.0 | 1.0  |
| Isopropylbenzene                                                                         | ND     |           | ug/kg | 1.0 | 0.11 |
| 1,2,3-Trichlorobenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.32 |
| 1,2,4-Trichlorobenzene                                                                   | ND     |           | ug/kg | 2.0 | 0.27 |
| Methyl Acetate                                                                           | ND     |           | ug/kg | 4.0 | 0.95 |
| Cyclohexane                                                                              | ND     |           | ug/kg | 10  | 0.54 |
| 1,4-Dioxane                                                                              | ND     |           | ug/kg | 80  | 35.  |
| Freon-113                                                                                | ND     |           | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane                                                                       | ND     |           | ug/kg | 4.0 | 0.60 |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 02/14/20 07:33  
 Analyst: MKS

| Parameter                                                                                | Result | Qualifier | Units | RL | MDL |
|------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1340889-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 106       |           | 70-130                 |
| Toluene-d8            | 100       |           | 70-130                 |
| 4-Bromofluorobenzene  | 97        |           | 70-130                 |
| Dibromofluoromethane  | 106       |           | 70-130                 |



# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FORMER JEFFERSON WOLLENSACK OP

**Lab Number:** L2006207

**Project Number:** 2182207

**Report Date:** 02/19/20

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1340303-3 WG1340303-4 |                  |      |                   |      |                     |     |      |               |
| Chloroform                                                                                           | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Carbon tetrachloride                                                                                 | 85               |      | 93                |      | 63-132              | 9   |      | 20            |
| Tetrachloroethene                                                                                    | 100              |      | 110               |      | 70-130              | 10  |      | 20            |
| Chlorobenzene                                                                                        | 100              |      | 100               |      | 75-130              | 0   |      | 25            |
| 1,2-Dichloroethane                                                                                   | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Benzene                                                                                              | 98               |      | 99                |      | 70-130              | 1   |      | 25            |
| Vinyl chloride                                                                                       | 93               |      | 94                |      | 55-140              | 1   |      | 20            |
| 1,1-Dichloroethene                                                                                   | 76               |      | 81                |      | 61-145              | 6   |      | 25            |
| Trichloroethene                                                                                      | 91               |      | 95                |      | 70-130              | 4   |      | 25            |
| 1,4-Dichlorobenzene                                                                                  | 93               |      | 100               |      | 70-130              | 7   |      | 20            |
| 2-Butanone                                                                                           | 100              |      | 100               |      | 63-138              | 0   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 92               |      | 87                |      | 70-130                 |
| Toluene-d8            | 99               |      | 99                |      | 70-130                 |
| 4-Bromofluorobenzene  | 94               |      | 98                |      | 70-130                 |
| dibromofluoromethane  | 99               |      | 100               |      | 70-130                 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FORMER JEFFERSON WOLLENSACK OP

**Lab Number:** L2006207

**Project Number:** 2182207

**Report Date:** 02/19/20

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1340889-3 WG1340889-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                          | 91               |      | 93                |      | 70-130              | 2   |      | 30            |
| 1,1-Dichloroethane                                                                                          | 96               |      | 98                |      | 70-130              | 2   |      | 30            |
| Chloroform                                                                                                  | 91               |      | 97                |      | 70-130              | 6   |      | 30            |
| Carbon tetrachloride                                                                                        | 98               |      | 100               |      | 70-130              | 2   |      | 30            |
| 1,2-Dichloropropane                                                                                         | 92               |      | 95                |      | 70-130              | 3   |      | 30            |
| Dibromochloromethane                                                                                        | 105              |      | 107               |      | 70-130              | 2   |      | 30            |
| 1,1,2-Trichloroethane                                                                                       | 98               |      | 99                |      | 70-130              | 1   |      | 30            |
| Tetrachloroethene                                                                                           | 106              |      | 109               |      | 70-130              | 3   |      | 30            |
| Chlorobenzene                                                                                               | 94               |      | 96                |      | 70-130              | 2   |      | 30            |
| Trichlorofluoromethane                                                                                      | 53               | Q    | 54                | Q    | 70-139              | 2   |      | 30            |
| 1,2-Dichloroethane                                                                                          | 97               |      | 98                |      | 70-130              | 1   |      | 30            |
| 1,1,1-Trichloroethane                                                                                       | 94               |      | 96                |      | 70-130              | 2   |      | 30            |
| Bromodichloromethane                                                                                        | 89               |      | 91                |      | 70-130              | 2   |      | 30            |
| trans-1,3-Dichloropropene                                                                                   | 98               |      | 101               |      | 70-130              | 3   |      | 30            |
| cis-1,3-Dichloropropene                                                                                     | 89               |      | 90                |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                                   | 105              |      | 107               |      | 70-130              | 2   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                   | 93               |      | 94                |      | 70-130              | 1   |      | 30            |
| Benzene                                                                                                     | 86               |      | 88                |      | 70-130              | 2   |      | 30            |
| Toluene                                                                                                     | 96               |      | 98                |      | 70-130              | 2   |      | 30            |
| Ethylbenzene                                                                                                | 92               |      | 95                |      | 70-130              | 3   |      | 30            |
| Chloromethane                                                                                               | 119              |      | 117               |      | 52-130              | 2   |      | 30            |
| Bromomethane                                                                                                | 64               |      | 63                |      | 57-147              | 2   |      | 30            |
| Vinyl chloride                                                                                              | 79               |      | 78                |      | 67-130              | 1   |      | 30            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER JEFFERSON WOLLENSACK OP

**Lab Number:** L2006207

**Project Number:** 2182207

**Report Date:** 02/19/20

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1340889-3 WG1340889-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                | 66               |      | 66                |      | 50-151              | 0   |      | 30            |
| 1,1-Dichloroethene                                                                                          | 93               |      | 96                |      | 65-135              | 3   |      | 30            |
| trans-1,2-Dichloroethene                                                                                    | 91               |      | 94                |      | 70-130              | 3   |      | 30            |
| Trichloroethene                                                                                             | 90               |      | 93                |      | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                         | 98               |      | 101               |      | 70-130              | 3   |      | 30            |
| 1,3-Dichlorobenzene                                                                                         | 99               |      | 101               |      | 70-130              | 2   |      | 30            |
| 1,4-Dichlorobenzene                                                                                         | 98               |      | 100               |      | 70-130              | 2   |      | 30            |
| Methyl tert butyl ether                                                                                     | 88               |      | 90                |      | 66-130              | 2   |      | 30            |
| p/m-Xylene                                                                                                  | 93               |      | 96                |      | 70-130              | 3   |      | 30            |
| o-Xylene                                                                                                    | 90               |      | 93                |      | 70-130              | 3   |      | 30            |
| cis-1,2-Dichloroethene                                                                                      | 92               |      | 93                |      | 70-130              | 1   |      | 30            |
| Styrene                                                                                                     | 91               |      | 93                |      | 70-130              | 2   |      | 30            |
| Dichlorodifluoromethane                                                                                     | 121              |      | 121               |      | 30-146              | 0   |      | 30            |
| Acetone                                                                                                     | 116              |      | 112               |      | 54-140              | 4   |      | 30            |
| Carbon disulfide                                                                                            | 87               |      | 90                |      | 59-130              | 3   |      | 30            |
| 2-Butanone                                                                                                  | 89               |      | 88                |      | 70-130              | 1   |      | 30            |
| 4-Methyl-2-pentanone                                                                                        | 94               |      | 95                |      | 70-130              | 1   |      | 30            |
| 2-Hexanone                                                                                                  | 90               |      | 92                |      | 70-130              | 2   |      | 30            |
| Bromochloromethane                                                                                          | 95               |      | 96                |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromoethane                                                                                           | 98               |      | 100               |      | 70-130              | 2   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                 | 99               |      | 98                |      | 68-130              | 1   |      | 30            |
| Isopropylbenzene                                                                                            | 93               |      | 96                |      | 70-130              | 3   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                      | 107              |      | 109               |      | 70-130              | 2   |      | 30            |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FORMER JEFFERSON WOLLENSACK OP

**Lab Number:** L2006207

**Project Number:** 2182207

**Report Date:** 02/19/20

| Parameter                                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1340889-3 WG1340889-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                      | 108              |      | 111               |      | 70-130              | 3   |      | 30            |
| Methyl Acetate                                                                                              | 98               |      | 98                |      | 51-146              | 0   |      | 30            |
| Cyclohexane                                                                                                 | 101              |      | 103               |      | 59-142              | 2   |      | 30            |
| 1,4-Dioxane                                                                                                 | 89               |      | 87                |      | 65-136              | 2   |      | 30            |
| Freon-113                                                                                                   | 94               |      | 97                |      | 50-139              | 3   |      | 30            |
| Methyl cyclohexane                                                                                          | 86               |      | 87                |      | 70-130              | 1   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 101              |      | 100               |      | 70-130                 |
| Toluene-d8            | 101              |      | 101               |      | 70-130                 |
| 4-Bromofluorobenzene  | 95               |      | 95                |      | 70-130                 |
| Dibromofluoromethane  | 102              |      | 101               |      | 70-130                 |

# SEMIVOLATILES

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**SAMPLE RESULTS**

**Lab ID:** L2006207-01  
**Client ID:** WCS-20200211-01-C-SEWERLATERALSOIL  
**Sample Location:** 886 HUDSON AVE., ROCHESTER, NY

**Date Collected:** 02/11/20 14:00  
**Date Received:** 02/11/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 02/15/20 13:03  
**Analyst:** SZ  
**Percent Solids:** 83%  
**TCLP/SPLP Ext. Date:** 02/12/20 16:30

**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/15/20 02:11

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab |        |           |       |    |     |                 |
| Hexachlorobenzene                                | ND     |           | ug/l  | 10 | 2.9 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 25 | 4.2 | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/l  | 10 | 3.6 | 1               |
| Hexachloroethane                                 | ND     |           | ug/l  | 10 | 3.4 | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 10 | 3.8 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.4 | 1               |
| Pentachlorophenol                                | ND     |           | ug/l  | 50 | 17. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 25 | 5.1 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 25 | 5.6 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.6 | 1               |
| Pyridine                                         | ND     |           | ug/l  | 18 | 9.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 68         |           | 21-120              |
| Phenol-d6            | 63         |           | 10-120              |
| Nitrobenzene-d5      | 81         |           | 23-120              |
| 2-Fluorobiphenyl     | 75         |           | 15-120              |
| 2,4,6-Tribromophenol | 97         |           | 10-120              |
| 4-Terphenyl-d14      | 93         |           | 33-120              |

**Project Name:** FORMER JEFFERSON WOLLENSACK OF  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270D  
 Analytical Date: 02/15/20 11:54  
 Analyst: SZ  
 TCLP/SPLP Extraction Date: 02/12/20 16:30

Extraction Method: EPA 3510C  
 Extraction Date: 02/15/20 02:11

| Parameter                                                                             | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1341037-1 |        |           |       |    |     |
| Hexachlorobenzene                                                                     | ND     |           | ug/l  | 10 | 2.9 |
| 2,4-Dinitrotoluene                                                                    | ND     |           | ug/l  | 25 | 4.2 |
| Hexachlorobutadiene                                                                   | ND     |           | ug/l  | 10 | 3.6 |
| Hexachloroethane                                                                      | ND     |           | ug/l  | 10 | 3.4 |
| Nitrobenzene                                                                          | ND     |           | ug/l  | 10 | 3.8 |
| 2,4,6-Trichlorophenol                                                                 | ND     |           | ug/l  | 25 | 3.4 |
| Pentachlorophenol                                                                     | ND     |           | ug/l  | 50 | 17. |
| 2-Methylphenol                                                                        | ND     |           | ug/l  | 25 | 5.1 |
| 3-Methylphenol/4-Methylphenol                                                         | ND     |           | ug/l  | 25 | 5.6 |
| 2,4,5-Trichlorophenol                                                                 | ND     |           | ug/l  | 25 | 3.6 |
| Pyridine                                                                              | ND     |           | ug/l  | 18 | 9.4 |

| Surrogate            | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------------|-----------|-----------|------------------------|
| 2-Fluorophenol       | 72        |           | 21-120                 |
| Phenol-d6            | 65        |           | 10-120                 |
| Nitrobenzene-d5      | 83        |           | 23-120                 |
| 2-Fluorobiphenyl     | 75        |           | 15-120                 |
| 2,4,6-Tribromophenol | 93        |           | 10-120                 |
| 4-Terphenyl-d14      | 91        |           | 33-120                 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** FORMER JEFFERSON WOLLENSACK OP

**Lab Number:** L2006207

**Project Number:** 2182207

**Report Date:** 02/19/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1341037-2 WG1341037-3 |                  |      |                   |      |                     |     |      |               |
| Hexachlorobenzene                                                                                        | 90               |      | 92                |      | 40-140              | 2   |      | 30            |
| 2,4-Dinitrotoluene                                                                                       | 100              |      | 103               |      | 40-132              | 3   |      | 30            |
| Hexachlorobutadiene                                                                                      | 76               |      | 76                |      | 28-111              | 0   |      | 30            |
| Hexachloroethane                                                                                         | 67               |      | 69                |      | 21-105              | 3   |      | 30            |
| Nitrobenzene                                                                                             | 82               |      | 83                |      | 40-140              | 1   |      | 30            |
| 2,4,6-Trichlorophenol                                                                                    | 88               |      | 86                |      | 30-130              | 2   |      | 30            |
| Pentachlorophenol                                                                                        | 86               |      | 86                |      | 9-103               | 0   |      | 30            |
| 2-Methylphenol                                                                                           | 75               |      | 77                |      | 30-130              | 3   |      | 30            |
| 3-Methylphenol/4-Methylphenol                                                                            | 81               |      | 82                |      | 30-130              | 1   |      | 30            |
| 2,4,5-Trichlorophenol                                                                                    | 92               |      | 91                |      | 30-130              | 1   |      | 30            |
| Pyridine                                                                                                 | 67               | Q    | 54                |      | 10-66               | 21  |      | 30            |

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 74               |      | 75                |      | 21-120                 |
| Phenol-d6            | 70               |      | 71                |      | 10-120                 |
| Nitrobenzene-d5      | 84               |      | 89                |      | 23-120                 |
| 2-Fluorobiphenyl     | 76               |      | 75                |      | 15-120                 |
| 2,4,6-Tribromophenol | 99               |      | 101               |      | 10-120                 |
| 4-Terphenyl-d14      | 89               |      | 90                |      | 33-120                 |



## METALS

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**SAMPLE RESULTS**

Lab ID: L2006207-01  
 Client ID: WCS-20200211-01-C-  
 Sample Location: SEWERLATERALSOIL  
 886 HUDSON AVE., ROCHESTER, NY

Date Collected: 02/11/20 14:00  
 Date Received: 02/11/20  
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/12/20 16:30  
 Matrix: Soil  
 Percent Solids: 83%

| Parameter                               | Result | Qualifier | Units | RL     | MDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|-----------------------------------------|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab |        |           |       |        |        |                 |                |                |             |                   |         |
| Arsenic, TCLP                           | ND     |           | mg/l  | 1.00   | 0.019  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |
| Barium, TCLP                            | 0.333  | J         | mg/l  | 0.500  | 0.021  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |
| Cadmium, TCLP                           | ND     |           | mg/l  | 0.100  | 0.010  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |
| Chromium, TCLP                          | ND     |           | mg/l  | 0.200  | 0.021  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |
| Lead, TCLP                              | ND     |           | mg/l  | 0.500  | 0.027  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |
| Mercury, TCLP                           | ND     |           | mg/l  | 0.0010 | 0.0005 | 1               | 02/17/20 11:00 | 02/18/20 13:23 | EPA 7470A   | 1,7470A           | AL      |
| Selenium, TCLP                          | 0.038  | J         | mg/l  | 0.500  | 0.035  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |
| Silver, TCLP                            | ND     |           | mg/l  | 0.100  | 0.028  | 1               | 02/17/20 08:04 | 02/17/20 15:31 | EPA 3015    | 1,6010D           | LC      |



**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

## Method Blank Analysis Batch Quality Control

| Parameter                                                                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1341349-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Arsenic, TCLP                                                                | ND     |           | mg/l  | 1.00  | 0.019 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |
| Barium, TCLP                                                                 | 0.075  | J         | mg/l  | 0.500 | 0.021 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |
| Cadmium, TCLP                                                                | ND     |           | mg/l  | 0.100 | 0.010 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |
| Chromium, TCLP                                                               | 0.021  | J         | mg/l  | 0.200 | 0.021 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |
| Lead, TCLP                                                                   | ND     |           | mg/l  | 0.500 | 0.027 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |
| Selenium, TCLP                                                               | ND     |           | mg/l  | 0.500 | 0.035 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |
| Silver, TCLP                                                                 | ND     |           | mg/l  | 0.100 | 0.028 | 1                  | 02/17/20 08:04   | 02/17/20 13:59   | 1,6010D              | LC      |

### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 02/11/20 15:25

| Parameter                                                                    | Result | Qualifier | Units | RL     | MDL    | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|------------------------------------------------------------------------------|--------|-----------|-------|--------|--------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1341407-1 |        |           |       |        |        |                    |                  |                  |                      |         |
| Mercury, TCLP                                                                | ND     |           | mg/l  | 0.0010 | 0.0005 | 1                  | 02/17/20 11:00   | 02/18/20 13:19   | 1,7470A              | AL      |

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 02/11/20 15:25



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER JEFFERSON WOLLENSACK OP**Lab Number:** L2006207**Project Number:** 2182207**Report Date:** 02/19/20

| Parameter                                                                           | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1341349-2 |                  |      |                   |      |                     |     |      |            |
| Arsenic, TCLP                                                                       | 104              |      | -                 |      | 75-125              | -   |      | 20         |
| Barium, TCLP                                                                        | 98               |      | -                 |      | 75-125              | -   |      | 20         |
| Cadmium, TCLP                                                                       | 100              |      | -                 |      | 75-125              | -   |      | 20         |
| Chromium, TCLP                                                                      | 104              |      | -                 |      | 75-125              | -   |      | 20         |
| Lead, TCLP                                                                          | 99               |      | -                 |      | 75-125              | -   |      | 20         |
| Selenium, TCLP                                                                      | 104              |      | -                 |      | 75-125              | -   |      | 20         |
| Silver, TCLP                                                                        | 101              |      | -                 |      | 75-125              | -   |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1341407-2 |                  |      |                   |      |                     |     |      |            |
| Mercury, TCLP                                                                       | 98               |      | -                 |      | 80-120              | -   |      |            |

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

| Parameter                                                                                                                                                      | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1341349-3 QC Sample: L2005871-01 Client ID: MS Sample                          |               |          |          |              |      |           |               |      |                 |     |      |            |
| Arsenic, TCLP                                                                                                                                                  | 0.020J        | 1.2      | 1.32     | 110          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, TCLP                                                                                                                                                   | 0.189J        | 20       | 19.4     | 97           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, TCLP                                                                                                                                                  | ND            | 0.51     | 0.508    | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, TCLP                                                                                                                                                 | ND            | 2        | 2.00     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, TCLP                                                                                                                                                     | 0.186J        | 5.1      | 5.11     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, TCLP                                                                                                                                                 | ND            | 1.2      | 1.29     | 108          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, TCLP                                                                                                                                                   | ND            | 0.5      | 0.497    | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1341407-3 QC Sample: L2006207-01 Client ID: WCS-20200211-01-C-SEWERLATERALSOIL |               |          |          |              |      |           |               |      |                 |     |      |            |
| Mercury, TCLP                                                                                                                                                  | ND            | 0.025    | 0.0249   | 100          |      | -         | -             |      | 80-120          | -   |      | 20         |

**Lab Duplicate Analysis***Batch Quality Control***Project Name:** FORMER JEFFERSON WOLLENSACK OP**Project Number:** 2182207**Lab Number:** L2006207**Report Date:** 02/19/20

| Parameter                                                                                                                                                      | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1341349-4 QC Sample: L2005871-01 Client ID: DUP Sample                         |               |                  |       |     |      |            |
| Lead, TCLP                                                                                                                                                     | 0.186J        | 0.193J           | mg/l  | NC  |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1341407-4 QC Sample: L2006207-01 Client ID: WCS-20200211-01-C-SEWERLATERALSOIL |               |                  |       |     |      |            |
| Mercury, TCLP                                                                                                                                                  | ND            | ND               | mg/l  | NC  |      | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

### SAMPLE RESULTS

**Lab ID:** L2006207-01  
**Client ID:** WCS-20200211-01-C-SEWERLATERALSOIL  
**Sample Location:** 886 HUDSON AVE., ROCHESTER, NY

**Date Collected:** 02/11/20 14:00  
**Date Received:** 02/11/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                 |                |                |                   |         |
| Solids, Total                       | 83.2   |           | %     | 0.100 | NA  | 1               | -              | 02/12/20 10:42 | 121,2540G         | RI      |
| pH (H)                              | 8.5    |           | SU    | -     | NA  | 1               | -              | 02/12/20 10:30 | 1,9045D           | JA      |
| Flash Point                         | >150   |           | deg F | 70    | NA  | 1               | -              | 02/12/20 13:15 | 1,1010A           | BR      |
| Cyanide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 02/13/20 02:49 | 02/13/20 03:44 | 125,7.3           | KF      |
| Sulfide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 02/13/20 02:49 | 02/13/20 03:39 | 125,7.3           | KF      |





Project Name: FORMER JEFFERSON WOLLENSACK

Lab Number: L2006207

Project Number: 2182207

Report Date: 02/19/20

### Method Blank Analysis Batch Quality Control

| Parameter                                                                | Result | Qualifier | Units | RL | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|--------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1340212-1 |        |           |       |    |     |                    |                  |                  |                      |         |
| Sulfide, Reactive                                                        | ND     |           | mg/kg | 10 | 10. | 1                  | 02/13/20 02:49   | 02/13/20 03:38   | 125,7.3              | KF      |
| General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1340213-1 |        |           |       |    |     |                    |                  |                  |                      |         |
| Cyanide, Reactive                                                        | ND     |           | mg/kg | 10 | 10. | 1                  | 02/13/20 02:49   | 02/13/20 03:44   | 125,7.3              | KF      |



**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER JEFFERSON WOLLENSACK OP**Lab Number:** L2006207**Project Number:** 2182207**Report Date:** 02/19/20

| Parameter                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1339900-1 |                  |      |                   |      |                     |     |      |            |
| pH                                                                              | 100              |      | -                 |      | 99-101              | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1340020-1 |                  |      |                   |      |                     |     |      |            |
| Flash Point                                                                     | 99               |      | -                 |      | 96-104              | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1340212-2 |                  |      |                   |      |                     |     |      |            |
| Sulfide, Reactive                                                               | 98               |      | -                 |      | 60-125              | -   |      | 40         |
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1340213-2 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Reactive                                                               | 80               |      | -                 |      | 30-125              | -   |      | 40         |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Lab Number:** L2006207  
**Report Date:** 02/19/20

| Parameter                                                                                                                                                  | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1339900-2 QC Sample: L2006207-01 Client ID: WCS-20200211-01-C-SEWERLATERALSOIL |               |                  |       |     |      |            |
| pH (H)                                                                                                                                                     | 8.5           | 8.0              | SU    | 6   | Q    | 5          |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1339902-1 QC Sample: L2006144-01 Client ID: DUP Sample                         |               |                  |       |     |      |            |
| Solids, Total                                                                                                                                              | 75.8          | 70.5             | %     | 7   |      | 20         |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1340212-3 QC Sample: L2006434-01 Client ID: DUP Sample                         |               |                  |       |     |      |            |
| Sulfide, Reactive                                                                                                                                          | ND            | ND               | mg/kg | NC  |      | 40         |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1340213-3 QC Sample: L2006434-01 Client ID: DUP Sample                         |               |                  |       |     |      |            |
| Cyanide, Reactive                                                                                                                                          | ND            | ND               | mg/kg | NC  |      | 40         |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

Serial\_No:02192013:00  
**Lab Number:** L2006207  
**Report Date:** 02/19/20

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

#### Cooler Information

**Cooler**                      **Custody Seal**  
A                                  Absent

#### Container Information

| Container ID  | Container Type                        | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                           |
|---------------|---------------------------------------|--------|------------|----------|------------|------|--------|------------------|---------------------------------------------------------------------------------------|
| L2006207-01A  | Vial MeOH preserved                   | A      | NA         |          | 2.3        | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                  |
| L2006207-01B  | Vial water preserved                  | A      | NA         |          | 2.3        | Y    | Absent | 12-FEB-20 08:36  | NYTCL-8260HLW-R2(14)                                                                  |
| L2006207-01C  | Vial water preserved                  | A      | NA         |          | 2.3        | Y    | Absent | 12-FEB-20 08:36  | NYTCL-8260HLW-R2(14)                                                                  |
| L2006207-01D  | Plastic 2oz unpreserved for TS        | A      | NA         |          | 2.3        | Y    | Absent |                  | TCLP-EXT-ZHE(14)                                                                      |
| L2006207-01E  | Glass 120ml/4oz unpreserved           | A      | NA         |          | 2.3        | Y    | Absent |                  | REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14)                                       |
| L2006207-01F  | Glass 120ml/4oz unpreserved           | A      | NA         |          | 2.3        | Y    | Absent |                  | REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14)                                       |
| L2006207-01G  | Glass 120ml/4oz unpreserved           | A      | NA         |          | 2.3        | Y    | Absent |                  | REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14)                                       |
| L2006207-01H  | Glass 120ml/4oz unpreserved           | A      | NA         |          | 2.3        | Y    | Absent |                  | REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14)                                       |
| L2006207-01I  | Glass 120ml/4oz unpreserved           | A      | NA         |          | 2.3        | Y    | Absent |                  | REACTS(14),FLASH(),TS(7),PH-9045(1),REACTCN(14)                                       |
| L2006207-01T  | Vial unpreserved Extracts             | A      | NA         |          | 2.3        | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L2006207-01U  | Vial unpreserved Extracts             | A      | NA         |          | 2.3        | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L2006207-01W  | Amber 1000ml unpreserved Extracts     | A      | NA         |          | 2.3        | Y    | Absent |                  | TCLP-8270(14)                                                                         |
| L2006207-01X  | Plastic 120ml HNO3 preserved Extracts | A      | NA         |          | 2.3        | Y    | Absent |                  | CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180) |
| L2006207-01X9 | Tumble Vessel                         | A      | NA         |          | 2.3        | Y    | Absent |                  | -                                                                                     |

**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

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

## Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

## Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

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**Project Name:** FORMER JEFFERSON WOLLENSACK OP  
**Project Number:** 2182207

**Lab Number:** L2006207  
**Report Date:** 02/19/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 16

Published Date: 2/17/2020 10:46:05 AM

Page 1 of 1

**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**EPA TO-12** Non-methane organics**EPA 3C** Fixed gases**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

[illegible]

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1337291

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 02/26/2020 Vehicle# 13 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 67034 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 71620 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 02/26/2020 10:27 | A_Scale_1 | JM #605504 |         | Tare  | 28700 lb |
| Out | 02/26/2020 10:45 | B_Scale_2 | JM #605504 |         | Net   | 42920 lb |
|     |                  |           |            |         | Tons  | 21.46    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 21.46 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature

*M M Williams*



**Syracuse**  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

**Rochester**  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

**Geneva**  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

67034

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     |           |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                                                |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br><i>Jefferson-Wollensack LLC</i><br><i>872 Hudson Ave</i><br><i>Rochester NY</i> |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION                                                                                        | WEIGHT |
|------------|----------------------------------------------------------------------------------------------------------------|--------|
|            | <i>profile #</i><br><i>121857</i><br><br><b>WEIGHT IN</b><br><br><b>WEIGHT OUT</b><br><br><b>BILLED WEIGHT</b> |        |
|            |                                                                                                                |        |
|            |                                                                                                                |        |
|            |                                                                                                                |        |

SHIPPER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

DRIVER SIGNATURE *Mike Nabulha* PRINT NAME *Mike Nabulha*

|                                                          |
|----------------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br><i>Charge to Wollensack</i> |
| DESTINATION:<br><br><i>High Acres</i>                    |

|                                                                               |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: <i>Gully Moll</i>                                               | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME <i>Jule Moll</i>                                         |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS)                                             |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION                                     |                                                                                                                                                                                                                                                                                                 |
| FIRM _____ DATE _____ <input type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |
| BY _____ TIME _____                                                           |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1337297

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 02/26/2020 Vehicle# 309 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 59911 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 70680 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 02/26/2020 10:41 | A_Scale_1 | JM #605504 |         | Tare  | 30680 lb |
| Out | 02/26/2020 11:39 | B_Scale_2 | JM #605504 |         | Net   | 40000 lb |
|     |                  |           |            |         | Tons  | 20.00    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 20.00 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature \_\_\_\_\_





Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

309

59911

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     |           |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br>JEFFERSON - WOLLENSACK LLC<br><br>872 HUDSON AVE<br><br>ROCHESTER NY |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION                 | WEIGHT        |
|------------|-----------------------------------------|---------------|
|            | Profile # <del>12185</del><br>121857 NV | WEIGHT IN     |
|            |                                         | WEIGHT OUT    |
|            |                                         | BILLED WEIGHT |
|            |                                         |               |

SHIPPER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

DRIVER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

SPECIAL INSTRUCTIONS:

Charged TO Wollensack

DESTINATION:

High acres

|                                           |                                                                                                                                |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                       |                                                                                                                                | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                |                                                                                                                                |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) _____   |                                                                                                                                |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION | FIRM BY <u>Gilbert</u> DATE <u>2/24/00</u> TIME <u>1:40</u> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1337330

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 02/26/2020 Vehicle# 13 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 59912 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 62500 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 02/26/2020 12:04 | A_Scale_1 | JM #605504 |         | Tare  | 28680 lb |
| Out | 02/26/2020 12:28 | B_Scale_2 | JM #605504 |         | Net   | 33820 lb |
|     |                  |           |            |         | Tons  | 16.91    |

Comments REPLACEMENT TICKET FOR TICKET # 1337323

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 16.91 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature

*M. M. M. M. M.*



Syracuse  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

Rochester  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

Geneva  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

13  
59912

281-2258

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     |           |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                             |                                              |                                                                       |  |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|--|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                                              | SHIPPER<br>Jefferson-Wallensack LLC<br>872 Hudson Ave<br>Rochester NY |  |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION                      | WEIGHT                                                                |  |
|                                                                                                             | Profile #<br><del>121875</del><br>121857N MN | WEIGHT IN                                                             |  |
|                                                                                                             |                                              | WEIGHT OUT                                                            |  |
|                                                                                                             |                                              | BILLED WEIGHT                                                         |  |

SHIPPER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

DRIVER SIGNATURE Mike Nohaltra PRINT NAME Mike Nohaltra

|                                                   |
|---------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charge to wallensack |
| DESTINATION:<br><br>High Acres                    |

|                                            |                                                                                                                                          |                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                        |                                                                                                                                          | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                 |                                                                                                                                          |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE _____<br>(NO INITIALS) |                                                                                                                                          |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION  | FIRM BY <u>Julie</u> DATE <u>2/25/08</u> TIME <u>12:15</u> <input checked="" type="checkbox"/> AM <input checked="" type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1337343

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 02/26/2020 Vehicle# 309 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 67215 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 68680 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 02/26/2020 13:23 | A_Scale_1 | JM #605504 |         | Tare  | 30660 lb |
| Out | 02/26/2020 13:43 | B_Scale_2 | JM #605504 |         | Net   | 38020 lb |
|     |                  |           |            |         | Tons  | 19.01    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 19.01 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature \_\_\_\_\_





**Syracuse**  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

**Rochester**  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

**Geneva**  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

67215

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     | 2-26-20   |      |    |   |     |
| TRUCK #<br>309                                                                      | TRAILER # |      |    |   |     |

|                                                                                                             |                         |                                                                       |               |
|-------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------|---------------|
| CONSIGNEE<br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 |                         | SHIPPER<br>Jefferson Wollersak LLC<br>872 Hudson Ave<br>Rochester, NY |               |
| NO. PIECES                                                                                                  | ARTICLES OR DESCRIPTION |                                                                       | WEIGHT        |
|                                                                                                             | Profile # 121857 NY     |                                                                       | WEIGHT IN     |
|                                                                                                             |                         |                                                                       | WEIGHT OUT    |
|                                                                                                             |                         |                                                                       | BILLED WEIGHT |
|                                                                                                             |                         |                                                                       |               |

SHIPPER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

DRIVER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

|                                                   |
|---------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br>Charged TO Wollersak |
| DESTINATION:<br><br>High acres                    |

|                                           |                                                     |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                       |                                                     | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                |                                                     |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) _____   |                                                     |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION | FIRM<br>DATE 2/26/20<br>BY [Signature] TIME 1:53 PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1337353

Customer Name HAMILTONSTERNCONSTRUCTION-121 Carrier RIC RICELLI TRUCKING  
Ticket Date 02/26/2020 Vehicle# 13 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007845  
State Waste Code Gen EPA ID  
Manifest 67035 Grid CELL 12A  
Destination  
PO  
Profile 121857NY (NON HAZARDOUS CONTAMINATED SOIL )  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 55160 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 02/26/2020 13:57 | A_Scale_1 | JM #605504 |         | Tare  | 28660 lb |
| Out | 02/26/2020 14:22 | B_Scale_2 | JM #605504 |         | Net   | 26500 lb |
|     |                  |           |            |         | Tons  | 13.25    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil RCG-Tons | 100 | 13.25 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver`s  
Signature \_\_\_\_\_





**Syracuse**  
P.O. Box 6418  
Syracuse, NY 13217  
(315) 433-5115

**Rochester**  
6800 W. Henrietta Road  
Rush, NY 14543  
(585) 344-8410

**Geneva**  
1210 Gifford Road  
Phelps, NY 14532  
(315) 548-4049

67035

## NON-HAZARDOUS SOLID WASTE MANIFEST

|                                                                                     |           |      |    |   |     |
|-------------------------------------------------------------------------------------|-----------|------|----|---|-----|
| TRANSPORTER<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217 | DATE      | TIME | IN | / | OUT |
|                                                                                     |           |      |    |   |     |
| TRUCK #                                                                             | TRAILER # |      |    |   |     |

|                                                                                                                 |                                                                                           |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| CONSIGNEE<br><br>RICCELLI ENTERPRISES INC.<br>P.O. BOX 6418<br>SYRACUSE, NY 13217<br><br>PHONE # (315) 433-5115 | SHIPPER<br><br><i>Jefferson Wollensak</i><br><i>872 Hudson Ave</i><br><i>Rochester NY</i> |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| NO. PIECES | ARTICLES OR DESCRIPTION | WEIGHT        |
|------------|-------------------------|---------------|
|            | <i>Profile #</i>        | WEIGHT IN     |
|            | <i>121957 NV</i>        | WEIGHT OUT    |
|            |                         | BILLED WEIGHT |
|            |                         |               |

SHIPPER SIGNATURE \_\_\_\_\_ PRINT NAME \_\_\_\_\_

DRIVER SIGNATURE *Mike Wollensak* PRINT NAME *Mike Wollensak*

|                                                         |
|---------------------------------------------------------|
| SPECIAL INSTRUCTIONS:<br><br><i>Charge to Wollensak</i> |
| DESTINATION:<br><br><i>High Acres</i>                   |

|                                           |                                                                                                                                                       |                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOR APPROVAL: _____                       |                                                                                                                                                       | Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed. |
| CONSIGNEE PRINT NAME _____                |                                                                                                                                                       |                                                                                                                                                                                                                                                                                                 |
| CONSIGNEE SIGN HERE (NO INITIALS) _____   |                                                                                                                                                       |                                                                                                                                                                                                                                                                                                 |
| RECEIVED ABOVE MATERIAL IN GOOD CONDITION | FIRM BY <i>Jefferson Wollensak</i> DATE <i>3/26/94</i> TIME <i>1:50</i> <input checked="" type="checkbox"/> AM <input checked="" type="checkbox"/> PM |                                                                                                                                                                                                                                                                                                 |

White Copy - Riccelli

Yellow Copy - Driver

Pink Copy - Land Fill

Gold Copy - Shipper

# UST Soil Disposal Documentation

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management  
625 Broadway, 9th Floor, Albany, New York 12233-7256  
P: (518) 402-8651 | F: (518) 402-9024  
[www.dec.ny.gov](http://www.dec.ny.gov)

January 2, 2020

**Sent via e-mail, no hard copy to follow**

Jennifer Gillen, PG  
Brownfield & Phase II Program Manager  
LaBella Associates  
300 State Street, Suite 201  
Rochester, NY 14614

Re: "Contained-In" Determination Request  
Former Wollensack Optical  
872 Hudson Ave, Rochester, NY  
NYSDEC Site No. C828209

Dear Ms. Gillen:

The New York State Department of Environmental Conservation (NYSDEC or the Department) have completed our review of the soil sampling data from the fuel underground storage tank (UST) removal (Lab Sample ID: L1961283-01 and L1961283-02) submitted on December 26, 2019, via e-mail request for a "contained-in" determination for the referenced project.

Concentrations detected for individual volatile organic compounds (VOCs) were all less than their current NYSDEC "contained in" soil action levels and Land Disposal Restriction concentrations. No hazardous constituents exhibited a hazardous waste characteristic by exceeding their TCLP regulatory level.

Concentrations (Lab Sample ID: L1961283-01 and L1961283-02) for tetrachloroethene, trichloroethene and cis-1,2-dichloroethene were below the soil "contained-in" action level and the Land Disposal Restriction concentration. Therefore, approximately 25-CY of petroleum-impacted material, generated during the removal of a fuel UST at the subject property, do not have to be managed as a hazardous waste and can be transported off-site to either Waste Management's High Acres landfill in Perinton, NY or Waste Management's Mill Seat landfill in Riga, NY or another permitted 360 solid waste facility able to accept this material, for disposal as non-hazardous waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at [henry.wilkie@dec.ny.gov](mailto:henry.wilkie@dec.ny.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen G. Malsan".

*Stephen G. Malsan, P.E. for*  
Henry Wilkie  
Assistant Environmental Engineer  
RCRA Permitting Section

ec: C. Theobald, NYSDEC Region 8



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L1961283                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 12/26/19                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b>    | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|-------------------------------|---------------------------------|---------------------|
| L1961283-01                | WC-GRAB-122019   | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 12:30                  | 12/20/19            |
| L1961283-02                | WC-COMP-122019   | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 12:30                  | 12/20/19            |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

---

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

### Case Narrative (continued)

#### Report Submission

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

#### Sample Receipt

L1961283-02: The sample was received in an inappropriate container for the TCLP Volatiles analysis.

#### Volatile Organics

L1961283-01 and -02: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

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

Authorized Signature:

*Melissa Sturgis* Melissa Sturgis

Title: Technical Director/Representative

Date: 12/26/19

# ORGANICS

# VOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961283**Project Number:** 2182207**Report Date:** 12/26/19**SAMPLE RESULTS**

Lab ID: L1961283-01  
 Client ID: WC-GRAB-122019  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 12:30  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 12/24/19 14:30  
 Analyst: KJD  
 Percent Solids: 85%  
 TCLP/SPLP Ext. Date: 12/23/19 09:50

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab |        |           |       |     |      |                 |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 2.2  | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 0.71 | 10              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 1.7  | 10              |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 1.9  | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19.  | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 112        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 93         |           | 70-130              |
| dibromofluoromethane  | 109        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**SAMPLE RESULTS**

**Lab ID:** L1961283-01 D  
**Client ID:** WC-GRAB-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/23/19 14:24  
**Analyst:** JC  
**Percent Solids:** 85%

| Parameter                                            | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                   | ND     |           | ug/kg | 2900 | 1300 | 10              |
| 1,1-Dichloroethane                                   | ND     |           | ug/kg | 580  | 84.  | 10              |
| Chloroform                                           | ND     |           | ug/kg | 860  | 81.  | 10              |
| Carbon tetrachloride                                 | ND     |           | ug/kg | 580  | 130  | 10              |
| 1,2-Dichloropropane                                  | ND     |           | ug/kg | 580  | 72.  | 10              |
| Dibromochloromethane                                 | ND     |           | ug/kg | 580  | 81.  | 10              |
| 1,1,2-Trichloroethane                                | ND     |           | ug/kg | 580  | 150  | 10              |
| Tetrachloroethene                                    | ND     |           | ug/kg | 290  | 110  | 10              |
| Chlorobenzene                                        | ND     |           | ug/kg | 290  | 73.  | 10              |
| Trichlorofluoromethane                               | ND     |           | ug/kg | 2300 | 400  | 10              |
| 1,2-Dichloroethane                                   | ND     |           | ug/kg | 580  | 150  | 10              |
| 1,1,1-Trichloroethane                                | ND     |           | ug/kg | 290  | 96.  | 10              |
| Bromodichloromethane                                 | ND     |           | ug/kg | 290  | 63.  | 10              |
| trans-1,3-Dichloropropene                            | ND     |           | ug/kg | 580  | 160  | 10              |
| cis-1,3-Dichloropropene                              | ND     |           | ug/kg | 290  | 91.  | 10              |
| Bromoform                                            | ND     |           | ug/kg | 2300 | 140  | 10              |
| 1,1,2,2-Tetrachloroethane                            | ND     |           | ug/kg | 290  | 96.  | 10              |
| Benzene                                              | ND     |           | ug/kg | 290  | 96.  | 10              |
| Toluene                                              | ND     |           | ug/kg | 580  | 310  | 10              |
| Ethylbenzene                                         | ND     |           | ug/kg | 580  | 81.  | 10              |
| Chloromethane                                        | ND     |           | ug/kg | 2300 | 540  | 10              |
| Bromomethane                                         | ND     |           | ug/kg | 1200 | 330  | 10              |
| Vinyl chloride                                       | ND     |           | ug/kg | 580  | 190  | 10              |
| Chloroethane                                         | ND     |           | ug/kg | 1200 | 260  | 10              |
| 1,1-Dichloroethene                                   | ND     |           | ug/kg | 580  | 140  | 10              |
| trans-1,2-Dichloroethene                             | ND     |           | ug/kg | 860  | 79.  | 10              |
| Trichloroethene                                      | ND     |           | ug/kg | 290  | 79.  | 10              |
| 1,2-Dichlorobenzene                                  | ND     |           | ug/kg | 1200 | 83.  | 10              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961283**Project Number:** 2182207**Report Date:** 12/26/19**SAMPLE RESULTS**

Lab ID: L1961283-01 D  
 Client ID: WC-GRAB-122019  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/20/19 12:30  
 Date Received: 12/20/19  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                            | Result | Qualifier | Units | RL    | MDL   | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |       |       |                 |
| 1,3-Dichlorobenzene                                  | ND     |           | ug/kg | 1200  | 85.   | 10              |
| 1,4-Dichlorobenzene                                  | ND     |           | ug/kg | 1200  | 98.   | 10              |
| Methyl tert butyl ether                              | ND     |           | ug/kg | 1200  | 120   | 10              |
| p/m-Xylene                                           | ND     |           | ug/kg | 1200  | 320   | 10              |
| o-Xylene                                             | ND     |           | ug/kg | 580   | 170   | 10              |
| cis-1,2-Dichloroethene                               | ND     |           | ug/kg | 580   | 100   | 10              |
| Styrene                                              | ND     |           | ug/kg | 580   | 110   | 10              |
| Dichlorodifluoromethane                              | ND     |           | ug/kg | 5800  | 530   | 10              |
| Acetone                                              | ND     |           | ug/kg | 5800  | 2800  | 10              |
| Carbon disulfide                                     | ND     |           | ug/kg | 5800  | 2600  | 10              |
| 2-Butanone                                           | ND     |           | ug/kg | 5800  | 1300  | 10              |
| 4-Methyl-2-pentanone                                 | ND     |           | ug/kg | 5800  | 740   | 10              |
| 2-Hexanone                                           | ND     |           | ug/kg | 5800  | 680   | 10              |
| Bromochloromethane                                   | ND     |           | ug/kg | 1200  | 120   | 10              |
| 1,2-Dibromoethane                                    | ND     |           | ug/kg | 580   | 160   | 10              |
| 1,2-Dibromo-3-chloropropane                          | ND     |           | ug/kg | 1700  | 570   | 10              |
| Isopropylbenzene                                     | ND     |           | ug/kg | 580   | 63.   | 10              |
| 1,2,3-Trichlorobenzene                               | ND     |           | ug/kg | 1200  | 180   | 10              |
| 1,2,4-Trichlorobenzene                               | ND     |           | ug/kg | 1200  | 160   | 10              |
| Methyl Acetate                                       | ND     |           | ug/kg | 2300  | 550   | 10              |
| Cyclohexane                                          | ND     |           | ug/kg | 5800  | 310   | 10              |
| 1,4-Dioxane                                          | ND     |           | ug/kg | 46000 | 20000 | 10              |
| Freon-113                                            | ND     |           | ug/kg | 2300  | 400   | 10              |
| Methyl cyclohexane                                   | ND     |           | ug/kg | 2300  | 350   | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 92         |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 97         |           | 70-130              |
| Dibromofluoromethane  | 97         |           | 70-130              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**SAMPLE RESULTS**

**Lab ID:** L1961283-02  
**Client ID:** WC-COMP-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/24/19 15:19  
**Analyst:** KJD  
**Percent Solids:** 89%  
**TCLP/SPLP Ext. Date:** 12/23/19 09:50

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab |        |           |       |     |      |                 |
| Chloroform                                   | ND     |           | ug/l  | 7.5 | 2.2  | 10              |
| Carbon tetrachloride                         | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Tetrachloroethene                            | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| Chlorobenzene                                | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 5.0 | 1.3  | 10              |
| Benzene                                      | ND     |           | ug/l  | 5.0 | 1.6  | 10              |
| Vinyl chloride                               | ND     |           | ug/l  | 10  | 0.71 | 10              |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 5.0 | 1.7  | 10              |
| Trichloroethene                              | ND     |           | ug/l  | 5.0 | 1.8  | 10              |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 25  | 1.9  | 10              |
| 2-Butanone                                   | ND     |           | ug/l  | 50  | 19.  | 10              |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 115        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 91         |           | 70-130              |
| dibromofluoromethane  | 111        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**SAMPLE RESULTS**

**Lab ID:** L1961283-02 D  
**Client ID:** WC-COMP-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/23/19 14:49  
**Analyst:** JC  
**Percent Solids:** 89%

| Parameter                                            | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |     |     |                 |
| Methylene chloride                                   | ND     |           | ug/kg | 910 | 420 | 4               |
| 1,1-Dichloroethane                                   | ND     |           | ug/kg | 180 | 26. | 4               |
| Chloroform                                           | ND     |           | ug/kg | 270 | 25. | 4               |
| Carbon tetrachloride                                 | ND     |           | ug/kg | 180 | 42. | 4               |
| 1,2-Dichloropropane                                  | ND     |           | ug/kg | 180 | 23. | 4               |
| Dibromochloromethane                                 | ND     |           | ug/kg | 180 | 25. | 4               |
| 1,1,2-Trichloroethane                                | ND     |           | ug/kg | 180 | 48. | 4               |
| Tetrachloroethene                                    | ND     |           | ug/kg | 91  | 36. | 4               |
| Chlorobenzene                                        | ND     |           | ug/kg | 91  | 23. | 4               |
| Trichlorofluoromethane                               | ND     |           | ug/kg | 720 | 120 | 4               |
| 1,2-Dichloroethane                                   | ND     |           | ug/kg | 180 | 46. | 4               |
| 1,1,1-Trichloroethane                                | ND     |           | ug/kg | 91  | 30. | 4               |
| Bromodichloromethane                                 | ND     |           | ug/kg | 91  | 20. | 4               |
| trans-1,3-Dichloropropene                            | ND     |           | ug/kg | 180 | 49. | 4               |
| cis-1,3-Dichloropropene                              | ND     |           | ug/kg | 91  | 29. | 4               |
| Bromoform                                            | ND     |           | ug/kg | 720 | 44. | 4               |
| 1,1,2,2-Tetrachloroethane                            | ND     |           | ug/kg | 91  | 30. | 4               |
| Benzene                                              | ND     |           | ug/kg | 91  | 30. | 4               |
| Toluene                                              | ND     |           | ug/kg | 180 | 98. | 4               |
| Ethylbenzene                                         | ND     |           | ug/kg | 180 | 26. | 4               |
| Chloromethane                                        | ND     |           | ug/kg | 720 | 170 | 4               |
| Bromomethane                                         | ND     |           | ug/kg | 360 | 100 | 4               |
| Vinyl chloride                                       | ND     |           | ug/kg | 180 | 61. | 4               |
| Chloroethane                                         | ND     |           | ug/kg | 360 | 82. | 4               |
| 1,1-Dichloroethene                                   | ND     |           | ug/kg | 180 | 43. | 4               |
| trans-1,2-Dichloroethene                             | ND     |           | ug/kg | 270 | 25. | 4               |
| Trichloroethene                                      | ND     |           | ug/kg | 91  | 25. | 4               |
| 1,2-Dichlorobenzene                                  | ND     |           | ug/kg | 360 | 26. | 4               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**SAMPLE RESULTS**

**Lab ID:** L1961283-02 D  
**Client ID:** WC-COMP-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                            | Result | Qualifier | Units | RL    | MDL  | Dilution Factor |
|------------------------------------------------------|--------|-----------|-------|-------|------|-----------------|
| Volatile Organics by EPA 5035 High - Westborough Lab |        |           |       |       |      |                 |
| 1,3-Dichlorobenzene                                  | ND     |           | ug/kg | 360   | 27.  | 4               |
| 1,4-Dichlorobenzene                                  | ND     |           | ug/kg | 360   | 31.  | 4               |
| Methyl tert butyl ether                              | ND     |           | ug/kg | 360   | 36.  | 4               |
| p/m-Xylene                                           | ND     |           | ug/kg | 360   | 100  | 4               |
| o-Xylene                                             | ND     |           | ug/kg | 180   | 53.  | 4               |
| cis-1,2-Dichloroethene                               | ND     |           | ug/kg | 180   | 32.  | 4               |
| Styrene                                              | ND     |           | ug/kg | 180   | 36.  | 4               |
| Dichlorodifluoromethane                              | ND     |           | ug/kg | 1800  | 160  | 4               |
| Acetone                                              | ND     |           | ug/kg | 1800  | 870  | 4               |
| Carbon disulfide                                     | ND     |           | ug/kg | 1800  | 820  | 4               |
| 2-Butanone                                           | ND     |           | ug/kg | 1800  | 400  | 4               |
| 4-Methyl-2-pentanone                                 | ND     |           | ug/kg | 1800  | 230  | 4               |
| 2-Hexanone                                           | ND     |           | ug/kg | 1800  | 210  | 4               |
| Bromochloromethane                                   | ND     |           | ug/kg | 360   | 37.  | 4               |
| 1,2-Dibromoethane                                    | ND     |           | ug/kg | 180   | 50.  | 4               |
| 1,2-Dibromo-3-chloropropane                          | ND     |           | ug/kg | 540   | 180  | 4               |
| Isopropylbenzene                                     | ND     |           | ug/kg | 180   | 20.  | 4               |
| 1,2,3-Trichlorobenzene                               | ND     |           | ug/kg | 360   | 58.  | 4               |
| 1,2,4-Trichlorobenzene                               | ND     |           | ug/kg | 360   | 49.  | 4               |
| Methyl Acetate                                       | ND     |           | ug/kg | 720   | 170  | 4               |
| Cyclohexane                                          | ND     |           | ug/kg | 1800  | 98.  | 4               |
| 1,4-Dioxane                                          | ND     |           | ug/kg | 14000 | 6400 | 4               |
| Freon-113                                            | ND     |           | ug/kg | 720   | 120  | 4               |
| Methyl cyclohexane                                   | ND     |           | ug/kg | 720   | 110  | 4               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 89         |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 94         |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 07:19  
 Analyst: MV

| Parameter                                                                                    | Result | Qualifier | Units | RL  | MDL |
|----------------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02 Batch: WG1324211-5 |        |           |       |     |     |
| Methylene chloride                                                                           | ND     |           | ug/kg | 250 | 110 |
| 1,1-Dichloroethane                                                                           | ND     |           | ug/kg | 50  | 7.2 |
| Chloroform                                                                                   | ND     |           | ug/kg | 75  | 7.0 |
| Carbon tetrachloride                                                                         | ND     |           | ug/kg | 50  | 12. |
| 1,2-Dichloropropane                                                                          | ND     |           | ug/kg | 50  | 6.2 |
| Dibromochloromethane                                                                         | ND     |           | ug/kg | 50  | 7.0 |
| 1,1,2-Trichloroethane                                                                        | ND     |           | ug/kg | 50  | 13. |
| Tetrachloroethene                                                                            | ND     |           | ug/kg | 25  | 9.8 |
| Chlorobenzene                                                                                | ND     |           | ug/kg | 25  | 6.4 |
| Trichlorofluoromethane                                                                       | ND     |           | ug/kg | 200 | 35. |
| 1,2-Dichloroethane                                                                           | ND     |           | ug/kg | 50  | 13. |
| 1,1,1-Trichloroethane                                                                        | ND     |           | ug/kg | 25  | 8.4 |
| Bromodichloromethane                                                                         | ND     |           | ug/kg | 25  | 5.4 |
| trans-1,3-Dichloropropene                                                                    | ND     |           | ug/kg | 50  | 14. |
| cis-1,3-Dichloropropene                                                                      | ND     |           | ug/kg | 25  | 7.9 |
| Bromoform                                                                                    | ND     |           | ug/kg | 200 | 12. |
| 1,1,2,2-Tetrachloroethane                                                                    | ND     |           | ug/kg | 25  | 8.3 |
| Benzene                                                                                      | ND     |           | ug/kg | 25  | 8.3 |
| Toluene                                                                                      | ND     |           | ug/kg | 50  | 27. |
| Ethylbenzene                                                                                 | ND     |           | ug/kg | 50  | 7.0 |
| Chloromethane                                                                                | ND     |           | ug/kg | 200 | 47. |
| Bromomethane                                                                                 | ND     |           | ug/kg | 100 | 29. |
| Vinyl chloride                                                                               | ND     |           | ug/kg | 50  | 17. |
| Chloroethane                                                                                 | ND     |           | ug/kg | 100 | 23. |
| 1,1-Dichloroethene                                                                           | ND     |           | ug/kg | 50  | 12. |
| trans-1,2-Dichloroethene                                                                     | ND     |           | ug/kg | 75  | 6.8 |
| Trichloroethene                                                                              | ND     |           | ug/kg | 25  | 6.8 |
| 1,2-Dichlorobenzene                                                                          | ND     |           | ug/kg | 100 | 7.2 |
| 1,3-Dichlorobenzene                                                                          | ND     |           | ug/kg | 100 | 7.4 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 07:19  
 Analyst: MV

| Parameter                                                                                    | Result | Qualifier | Units | RL   | MDL  |
|----------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02 Batch: WG1324211-5 |        |           |       |      |      |
| 1,4-Dichlorobenzene                                                                          | ND     |           | ug/kg | 100  | 8.6  |
| Methyl tert butyl ether                                                                      | 12     | J         | ug/kg | 100  | 10.  |
| p/m-Xylene                                                                                   | ND     |           | ug/kg | 100  | 28.  |
| o-Xylene                                                                                     | ND     |           | ug/kg | 50   | 14.  |
| cis-1,2-Dichloroethene                                                                       | ND     |           | ug/kg | 50   | 8.8  |
| Styrene                                                                                      | ND     |           | ug/kg | 50   | 9.8  |
| Dichlorodifluoromethane                                                                      | ND     |           | ug/kg | 500  | 46.  |
| Acetone                                                                                      | ND     |           | ug/kg | 500  | 240  |
| Carbon disulfide                                                                             | ND     |           | ug/kg | 500  | 230  |
| 2-Butanone                                                                                   | ND     |           | ug/kg | 500  | 110  |
| 4-Methyl-2-pentanone                                                                         | ND     |           | ug/kg | 500  | 64.  |
| 2-Hexanone                                                                                   | ND     |           | ug/kg | 500  | 59.  |
| Bromochloromethane                                                                           | ND     |           | ug/kg | 100  | 10.  |
| 1,2-Dibromoethane                                                                            | ND     |           | ug/kg | 50   | 14.  |
| 1,2-Dibromo-3-chloropropane                                                                  | ND     |           | ug/kg | 150  | 50.  |
| Isopropylbenzene                                                                             | ND     |           | ug/kg | 50   | 5.4  |
| 1,2,3-Trichlorobenzene                                                                       | ND     |           | ug/kg | 100  | 16.  |
| 1,2,4-Trichlorobenzene                                                                       | ND     |           | ug/kg | 100  | 14.  |
| Methyl Acetate                                                                               | ND     |           | ug/kg | 200  | 48.  |
| Cyclohexane                                                                                  | ND     |           | ug/kg | 500  | 27.  |
| 1,4-Dioxane                                                                                  | ND     |           | ug/kg | 4000 | 1800 |
| Freon-113                                                                                    | ND     |           | ug/kg | 200  | 35.  |
| Methyl cyclohexane                                                                           | ND     |           | ug/kg | 200  | 30.  |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/23/19 07:19  
Analyst: MV

| Parameter                                                                                    | Result | Qualifier | Units | RL | MDL |
|----------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01-02 Batch: WG1324211-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 93        |           | 70-130                 |
| Toluene-d8            | 97        |           | 70-130                 |
| 4-Bromofluorobenzene  | 100       |           | 70-130                 |
| Dibromofluoromethane  | 93        |           | 70-130                 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/24/19 14:06  
 Analyst: KJD  
 TCLP/SPLP Extraction Date: 12/23/19 09:50

Extraction Date: 12/23/19 09:50

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01-02 Batch: WG1324678-5 |        |           |       |     |      |
| Chloroform                                                                           | ND     |           | ug/l  | 7.5 | 2.2  |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 5.0 | 1.3  |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 5.0 | 1.8  |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 5.0 | 1.3  |
| Benzene                                                                              | ND     |           | ug/l  | 5.0 | 1.6  |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 10  | 0.71 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 5.0 | 1.7  |
| Trichloroethene                                                                      | ND     |           | ug/l  | 5.0 | 1.8  |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 25  | 1.9  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 50  | 19.  |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 111       |           | 70-130                 |
| Toluene-d8            | 99        |           | 70-130                 |
| 4-Bromofluorobenzene  | 100       |           | 70-130                 |
| dibromofluoromethane  | 110       |           | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1961283

**Project Number:** 2182207

**Report Date:** 12/26/19

| Parameter                                                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02 Batch: WG1324211-3 WG1324211-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                              | 89               |      | 88                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloroethane                                                                                              | 96               |      | 95                |      | 70-130              | 1   |      | 30            |
| Chloroform                                                                                                      | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Carbon tetrachloride                                                                                            | 105              |      | 102               |      | 70-130              | 3   |      | 30            |
| 1,2-Dichloropropane                                                                                             | 97               |      | 95                |      | 70-130              | 2   |      | 30            |
| Dibromochloromethane                                                                                            | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,1,2-Trichloroethane                                                                                           | 91               |      | 92                |      | 70-130              | 1   |      | 30            |
| Tetrachloroethene                                                                                               | 107              |      | 106               |      | 70-130              | 1   |      | 30            |
| Chlorobenzene                                                                                                   | 97               |      | 97                |      | 70-130              | 0   |      | 30            |
| Trichlorofluoromethane                                                                                          | 102              |      | 99                |      | 70-139              | 3   |      | 30            |
| 1,2-Dichloroethane                                                                                              | 90               |      | 89                |      | 70-130              | 1   |      | 30            |
| 1,1,1-Trichloroethane                                                                                           | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| Bromodichloromethane                                                                                            | 95               |      | 94                |      | 70-130              | 1   |      | 30            |
| trans-1,3-Dichloropropene                                                                                       | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| cis-1,3-Dichloropropene                                                                                         | 104              |      | 103               |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                                       | 98               |      | 99                |      | 70-130              | 1   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                       | 89               |      | 89                |      | 70-130              | 0   |      | 30            |
| Benzene                                                                                                         | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| Toluene                                                                                                         | 99               |      | 98                |      | 70-130              | 1   |      | 30            |
| Ethylbenzene                                                                                                    | 106              |      | 103               |      | 70-130              | 3   |      | 30            |
| Chloromethane                                                                                                   | 92               |      | 91                |      | 52-130              | 1   |      | 30            |
| Bromomethane                                                                                                    | 100              |      | 95                |      | 57-147              | 5   |      | 30            |
| Vinyl chloride                                                                                                  | 96               |      | 92                |      | 67-130              | 4   |      | 30            |



# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961283

**Report Date:** 12/26/19

| Parameter                                                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02 Batch: WG1324211-3 WG1324211-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                    | 91               |      | 86                |      | 50-151              | 6   |      | 30            |
| 1,1-Dichloroethene                                                                                              | 105              |      | 103               |      | 65-135              | 2   |      | 30            |
| trans-1,2-Dichloroethene                                                                                        | 103              |      | 101               |      | 70-130              | 2   |      | 30            |
| Trichloroethene                                                                                                 | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                             | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                                                                                             | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,4-Dichlorobenzene                                                                                             | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| Methyl tert butyl ether                                                                                         | 99               |      | 99                |      | 66-130              | 0   |      | 30            |
| p/m-Xylene                                                                                                      | 110              |      | 109               |      | 70-130              | 1   |      | 30            |
| o-Xylene                                                                                                        | 109              |      | 108               |      | 70-130              | 1   |      | 30            |
| cis-1,2-Dichloroethene                                                                                          | 102              |      | 100               |      | 70-130              | 2   |      | 30            |
| Styrene                                                                                                         | 110              |      | 108               |      | 70-130              | 2   |      | 30            |
| Dichlorodifluoromethane                                                                                         | 98               |      | 96                |      | 30-146              | 2   |      | 30            |
| Acetone                                                                                                         | 85               |      | 82                |      | 54-140              | 4   |      | 30            |
| Carbon disulfide                                                                                                | 92               |      | 89                |      | 59-130              | 3   |      | 30            |
| 2-Butanone                                                                                                      | 91               |      | 89                |      | 70-130              | 2   |      | 30            |
| 4-Methyl-2-pentanone                                                                                            | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| 2-Hexanone                                                                                                      | 98               |      | 96                |      | 70-130              | 2   |      | 30            |
| Bromochloromethane                                                                                              | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,2-Dibromoethane                                                                                               | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                     | 97               |      | 98                |      | 68-130              | 1   |      | 30            |
| Isopropylbenzene                                                                                                | 110              |      | 110               |      | 70-130              | 0   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                          | 103              |      | 106               |      | 70-130              | 3   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

| Parameter                                                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01-02 Batch: WG1324211-3 WG1324211-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                          | 108              |      | 110               |      | 70-130              | 2   |      | 30            |
| Methyl Acetate                                                                                                  | 89               |      | 88                |      | 51-146              | 1   |      | 30            |
| Cyclohexane                                                                                                     | 112              |      | 110               |      | 59-142              | 2   |      | 30            |
| 1,4-Dioxane                                                                                                     | 99               |      | 107               |      | 65-136              | 8   |      | 30            |
| Freon-113                                                                                                       | 106              |      | 104               |      | 50-139              | 2   |      | 30            |
| Methyl cyclohexane                                                                                              | 114              |      | 111               |      | 70-130              | 3   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 92               |      | 90                |      | 70-130                 |
| Toluene-d8            | 98               |      | 98                |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 101               |      | 70-130                 |
| Dibromofluoromethane  | 96               |      | 97                |      | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961283

**Report Date:** 12/26/19

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01-02 Batch: WG1324678-3 WG1324678-4 |                  |      |                   |      |                     |     |      |               |
| Chloroform                                                                                              | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Carbon tetrachloride                                                                                    | 110              |      | 110               |      | 63-132              | 0   |      | 20            |
| Tetrachloroethene                                                                                       | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Chlorobenzene                                                                                           | 96               |      | 97                |      | 75-130              | 1   |      | 25            |
| 1,2-Dichloroethane                                                                                      | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| Benzene                                                                                                 | 96               |      | 96                |      | 70-130              | 0   |      | 25            |
| Vinyl chloride                                                                                          | 85               |      | 91                |      | 55-140              | 7   |      | 20            |
| 1,1-Dichloroethene                                                                                      | 100              |      | 100               |      | 61-145              | 0   |      | 25            |
| Trichloroethene                                                                                         | 100              |      | 100               |      | 70-130              | 0   |      | 25            |
| 1,4-Dichlorobenzene                                                                                     | 92               |      | 94                |      | 70-130              | 2   |      | 20            |
| 2-Butanone                                                                                              | 89               |      | 87                |      | 63-138              | 2   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 114              |      | 112               |      | 70-130                 |
| Toluene-d8            | 99               |      | 98                |      | 70-130                 |
| 4-Bromofluorobenzene  | 94               |      | 96                |      | 70-130                 |
| dibromofluoromethane  | 106              |      | 106               |      | 70-130                 |

# SEMIVOLATILES

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**SAMPLE RESULTS**

**Lab ID:** L1961283-02  
**Client ID:** WC-COMP-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/23/19 11:24  
**Analyst:** JRW  
**Percent Solids:** 89%  
**TCLP/SPLP Ext. Date:** 12/21/19 06:16

**Extraction Method:** EPA 3510C  
**Extraction Date:** 12/23/19 01:26

| Parameter                                        | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|----|-----|-----------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab |        |           |       |    |     |                 |
| Hexachlorobenzene                                | ND     |           | ug/l  | 10 | 2.9 | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/l  | 25 | 4.2 | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/l  | 10 | 3.6 | 1               |
| Hexachloroethane                                 | ND     |           | ug/l  | 10 | 3.4 | 1               |
| Nitrobenzene                                     | ND     |           | ug/l  | 10 | 3.8 | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.4 | 1               |
| Pentachlorophenol                                | ND     |           | ug/l  | 50 | 17. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/l  | 25 | 5.1 | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/l  | 25 | 5.6 | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/l  | 25 | 3.6 | 1               |
| Pyridine                                         | ND     |           | ug/l  | 18 | 9.4 | 1               |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 71         |           | 21-120              |
| Phenol-d6            | 66         |           | 10-120              |
| Nitrobenzene-d5      | 70         |           | 23-120              |
| 2-Fluorobiphenyl     | 67         |           | 15-120              |
| 2,4,6-Tribromophenol | 95         |           | 10-120              |
| 4-Terphenyl-d14      | 89         |           | 33-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D  
 Analytical Date: 12/23/19 10:16  
 Analyst: JRW  
 TCLP/SPLP Extraction Date: 12/20/19 05:23

Extraction Method: EPA 3510C  
 Extraction Date: 12/23/19 01:26

| Parameter                                                                             | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 02 Batch: WG1323825-1 |        |           |       |    |     |
| Hexachlorobenzene                                                                     | ND     |           | ug/l  | 10 | 2.9 |
| 2,4-Dinitrotoluene                                                                    | ND     |           | ug/l  | 25 | 4.2 |
| Hexachlorobutadiene                                                                   | ND     |           | ug/l  | 10 | 3.6 |
| Hexachloroethane                                                                      | ND     |           | ug/l  | 10 | 3.4 |
| Nitrobenzene                                                                          | ND     |           | ug/l  | 10 | 3.8 |
| 2,4,6-Trichlorophenol                                                                 | ND     |           | ug/l  | 25 | 3.4 |
| Pentachlorophenol                                                                     | ND     |           | ug/l  | 50 | 17. |
| 2-Methylphenol                                                                        | ND     |           | ug/l  | 25 | 5.1 |
| 3-Methylphenol/4-Methylphenol                                                         | ND     |           | ug/l  | 25 | 5.6 |
| 2,4,5-Trichlorophenol                                                                 | ND     |           | ug/l  | 25 | 3.6 |
| Pyridine                                                                              | ND     |           | ug/l  | 18 | 9.4 |

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 74        |           | 21-120              |
| Phenol-d6            | 68        |           | 10-120              |
| Nitrobenzene-d5      | 73        |           | 23-120              |
| 2-Fluorobiphenyl     | 67        |           | 15-120              |
| 2,4,6-Tribromophenol | 89        |           | 10-120              |
| 4-Terphenyl-d14      | 85        |           | 33-120              |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 02 Batch: WG1323825-2 WG1323825-3 |                  |      |                   |      |                     |     |      |               |
| Hexachlorobenzene                                                                                        | 81               |      | 81                |      | 40-140              | 0   |      | 30            |
| 2,4-Dinitrotoluene                                                                                       | 86               |      | 88                |      | 40-132              | 2   |      | 30            |
| Hexachlorobutadiene                                                                                      | 66               |      | 63                |      | 28-111              | 5   |      | 30            |
| Hexachloroethane                                                                                         | 63               |      | 58                |      | 21-105              | 8   |      | 30            |
| Nitrobenzene                                                                                             | 67               |      | 66                |      | 40-140              | 2   |      | 30            |
| 2,4,6-Trichlorophenol                                                                                    | 82               |      | 87                |      | 30-130              | 6   |      | 30            |
| Pentachlorophenol                                                                                        | 89               |      | 96                |      | 9-103               | 8   |      | 30            |
| 2-Methylphenol                                                                                           | 78               |      | 80                |      | 30-130              | 3   |      | 30            |
| 3-Methylphenol/4-Methylphenol                                                                            | 75               |      | 78                |      | 30-130              | 4   |      | 30            |
| 2,4,5-Trichlorophenol                                                                                    | 79               |      | 92                |      | 30-130              | 15  |      | 30            |
| Pyridine                                                                                                 | 46               |      | 56                |      | 10-66               | 20  |      | 30            |

| Surrogate            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol       | 77               |      | 79                |      | 21-120                 |
| Phenol-d6            | 70               |      | 73                |      | 10-120                 |
| Nitrobenzene-d5      | 70               |      | 72                |      | 23-120                 |
| 2-Fluorobiphenyl     | 68               |      | 72                |      | 15-120                 |
| 2,4,6-Tribromophenol | 90               |      | 95                |      | 10-120                 |
| 4-Terphenyl-d14      | 83               |      | 88                |      | 33-120                 |

## METALS



**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1961283**Project Number:** 2182207**Report Date:** 12/26/19**SAMPLE RESULTS**

Lab ID: L1961283-02

Date Collected: 12/20/19 12:30

Client ID: WC-COMP-122019

Date Received: 12/20/19

Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 12/21/19 06:16

Matrix: Soil

Percent Solids: 89%

| Parameter                               | Result | Qualifier | Units | RL     | MDL    | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Prep<br>Method | Analytical<br>Method | Analyst |
|-----------------------------------------|--------|-----------|-------|--------|--------|--------------------|------------------|------------------|----------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab |        |           |       |        |        |                    |                  |                  |                |                      |         |
| Arsenic, TCLP                           | ND     |           | mg/l  | 1.00   | 0.019  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |
| Barium, TCLP                            | 0.725  |           | mg/l  | 0.500  | 0.021  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |
| Cadmium, TCLP                           | ND     |           | mg/l  | 0.100  | 0.010  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |
| Chromium, TCLP                          | 0.051  | J         | mg/l  | 0.200  | 0.021  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |
| Lead, TCLP                              | ND     |           | mg/l  | 0.500  | 0.027  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |
| Mercury, TCLP                           | ND     |           | mg/l  | 0.0010 | 0.0005 | 1                  | 12/24/19 11:01   | 12/26/19 12:28   | EPA 7470A      | 1,7470A              | GD      |
| Selenium, TCLP                          | ND     |           | mg/l  | 0.500  | 0.035  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |
| Silver, TCLP                            | ND     |           | mg/l  | 0.100  | 0.028  | 1                  | 12/24/19 08:48   | 12/24/19 17:37   | EPA 3015       | 1,6010D              | PE      |



Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1961283

Project Number: 2182207

Report Date: 12/26/19

## Method Blank Analysis Batch Quality Control

| Parameter                                                                    | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1324430-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Arsenic, TCLP                                                                | ND     |           | mg/l  | 1.00  | 0.019 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |
| Barium, TCLP                                                                 | ND     |           | mg/l  | 0.500 | 0.021 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |
| Cadmium, TCLP                                                                | ND     |           | mg/l  | 0.100 | 0.010 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |
| Chromium, TCLP                                                               | 0.037  | J         | mg/l  | 0.200 | 0.021 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |
| Lead, TCLP                                                                   | ND     |           | mg/l  | 0.500 | 0.027 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |
| Selenium, TCLP                                                               | ND     |           | mg/l  | 0.500 | 0.035 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |
| Silver, TCLP                                                                 | ND     |           | mg/l  | 0.100 | 0.028 | 1                  | 12/24/19 08:48   | 12/24/19 16:31   | 1,6010D              | PE      |

### Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/20/19 00:01

| Parameter                                                                    | Result | Qualifier | Units | RL     | MDL    | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|------------------------------------------------------------------------------|--------|-----------|-------|--------|--------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1324514-1 |        |           |       |        |        |                    |                  |                  |                      |         |
| Mercury, TCLP                                                                | ND     |           | mg/l  | 0.0010 | 0.0005 | 1                  | 12/24/19 11:01   | 12/26/19 12:24   | 1,7470A              | GD      |

### Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 12/20/19 00:01



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

| Parameter                                                                           | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1324430-2 |                  |      |                   |      |                     |     |      |            |
| Arsenic, TCLP                                                                       | 110              |      | -                 |      | 75-125              | -   |      | 20         |
| Barium, TCLP                                                                        | 97               |      | -                 |      | 75-125              | -   |      | 20         |
| Cadmium, TCLP                                                                       | 102              |      | -                 |      | 75-125              | -   |      | 20         |
| Chromium, TCLP                                                                      | 101              |      | -                 |      | 75-125              | -   |      | 20         |
| Lead, TCLP                                                                          | 99               |      | -                 |      | 75-125              | -   |      | 20         |
| Selenium, TCLP                                                                      | 112              |      | -                 |      | 75-125              | -   |      | 20         |
| Silver, TCLP                                                                        | 99               |      | -                 |      | 75-125              | -   |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 Batch: WG1324514-2 |                  |      |                   |      |                     |     |      |            |
| Mercury, TCLP                                                                       | 102              |      | -                 |      | 80-120              | -   |      |            |

# **Matrix Spike Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

| Parameter                                                                                                                                  | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1324430-3 QC Sample: L1960735-01 Client ID: MS Sample      |               |          |          |              |      |           |               |      |                 |     |      |            |
| Arsenic, TCLP                                                                                                                              | ND            | 1.2      | 1.33     | 111          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, TCLP                                                                                                                               | 1.22          | 20       | 20.5     | 96           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, TCLP                                                                                                                              | 0.065J        | 0.51     | 0.581    | 114          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, TCLP                                                                                                                             | 0.045J        | 2        | 2.02     | 101          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, TCLP                                                                                                                                 | 2.20          | 5.1      | 7.20     | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, TCLP                                                                                                                             | ND            | 1.2      | 1.34     | 112          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, TCLP                                                                                                                               | ND            | 0.5      | 0.491    | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1324514-3 QC Sample: L1961283-02 Client ID: WC-COMP-122019 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Mercury, TCLP                                                                                                                              | ND            | 0.025    | 0.0258   | 103          |      | -         | -             |      | 80-120          | -   |      | 20         |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Lab Number:** L1961283  
**Report Date:** 12/26/19

| Parameter                                                                                                                                  | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1324514-4 QC Sample: L1961283-02 Client ID: WC-COMP-122019 |               |                  |       |     |      |            |
| Mercury, TCLP                                                                                                                              | ND            | ND               | mg/l  | NC  |      | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**SAMPLE RESULTS**

**Lab ID:** L1961283-01  
**Client ID:** WC-GRAB-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 84.8   |           | %     | 0.100 | NA  | 1                  | -                | 12/21/19 13:07   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

### SAMPLE RESULTS

**Lab ID:** L1961283-02  
**Client ID:** WC-COMP-122019  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/20/19 12:30  
**Date Received:** 12/20/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                 |                |                |                   |         |
| Solids, Total                       | 89.3   |           | %     | 0.100 | NA  | 1               | -              | 12/21/19 13:07 | 121,2540G         | RI      |
| pH (H)                              | 8.0    |           | SU    | -     | NA  | 1               | -              | 12/21/19 09:23 | 1,9045D           | JA      |
| Flash Point                         | >150   |           | deg F | 70    | NA  | 1               | -              | 12/22/19 17:00 | 1,1010A           | AG      |
| Cyanide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 12/22/19 23:28 | 12/23/19 00:58 | 125,7.3           | KF      |
| Sulfide, Reactive                   | ND     |           | mg/kg | 10    | 10. | 1               | 12/22/19 23:28 | 12/23/19 00:49 | 125,7.3           | KF      |





Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1961283

Project Number: 2182207

Report Date: 12/26/19

### Method Blank Analysis Batch Quality Control

| Parameter                                                                | Result | Qualifier | Units | RL | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|--------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1323818-1 |        |           |       |    |     |                    |                  |                  |                      |         |
| Sulfide, Reactive                                                        | ND     |           | mg/kg | 10 | 10. | 1                  | 12/22/19 23:28   | 12/23/19 00:46   | 125,7.3              | KF      |
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1323819-1 |        |           |       |    |     |                    |                  |                  |                      |         |
| Cyanide, Reactive                                                        | ND     |           | mg/kg | 10 | 10. | 1                  | 12/22/19 23:28   | 12/23/19 00:53   | 125,7.3              | KF      |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1961283**Report Date:** 12/26/19

| Parameter                                                                       | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1323566-1 |                  |      |                   |      |                     |     |      |            |
| pH                                                                              | 100              |      | -                 |      | 99-101              | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1323780-1 |                  |      |                   |      |                     |     |      |            |
| Flash Point                                                                     | 100              |      | -                 |      | 96-104              | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1323818-2 |                  |      |                   |      |                     |     |      |            |
| Sulfide, Reactive                                                               | 103              |      | -                 |      | 60-125              | -   |      | 40         |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1323819-2 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Reactive                                                               | 53               |      | -                 |      | 30-125              | -   |      | 40         |

# **Lab Duplicate Analysis** *Batch Quality Control*

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1961283

**Report Date:** 12/26/19

| Parameter                                                                                                                             | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1323566-2 QC Sample: L1961096-01 Client ID: DUP Sample    |               |                  |       |     |      |            |
| pH                                                                                                                                    | 7.8           | 7.7              | SU    | 1   |      | 5          |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1323591-1 QC Sample: L1961193-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Solids, Total                                                                                                                         | 81.4          | 80.5             | %     | 1   |      | 20         |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1323818-3 QC Sample: L1961291-01 Client ID: DUP Sample    |               |                  |       |     |      |            |
| Sulfide, Reactive                                                                                                                     | ND            | ND               | mg/kg | NC  |      | 40         |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1323819-3 QC Sample: L1961291-01 Client ID: DUP Sample    |               |                  |       |     |      |            |
| Cyanide, Reactive                                                                                                                     | ND            | ND               | mg/kg | NC  |      | 40         |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:12261914:16  
**Lab Number:** L1961283  
**Report Date:** 12/26/19

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                  Absent

**Container Information**

| Container ID  | Container Type                        | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                           |
|---------------|---------------------------------------|--------|------------|----------|------------|------|--------|------------------|---------------------------------------------------------------------------------------|
| L1961283-01A  | Vial MeOH preserved                   | NA     | NA         |          |            | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                  |
| L1961283-01B  | Vial water preserved                  | NA     | NA         |          |            | Y    | Absent | 21-DEC-19 03:48  | NYTCL-8260HLW-R2(14)                                                                  |
| L1961283-01C  | Vial water preserved                  | NA     | NA         |          |            | Y    | Absent | 21-DEC-19 03:48  | NYTCL-8260HLW-R2(14)                                                                  |
| L1961283-01D  | Plastic 2oz unpreserved for TS        | NA     | NA         |          |            | Y    | Absent |                  | TS(7)                                                                                 |
| L1961283-01E  | Vial Large Septa unpreserved (4oz)    | NA     | NA         |          |            | Y    | Absent |                  | TCLP-EXT-ZHE(14)                                                                      |
| L1961283-01Y  | Vial unpreserved Extracts             | NA     | NA         |          |            | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1961283-01Z  | Vial unpreserved Extracts             | NA     | NA         |          |            | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1961283-02A  | Vial MeOH preserved                   | NA     | NA         |          |            | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                  |
| L1961283-02B  | Vial water preserved                  | NA     | NA         |          |            | Y    | Absent | 21-DEC-19 03:48  | NYTCL-8260HLW-R2(14)                                                                  |
| L1961283-02C  | Vial water preserved                  | NA     | NA         |          |            | Y    | Absent | 21-DEC-19 03:48  | NYTCL-8260HLW-R2(14)                                                                  |
| L1961283-02D  | Plastic 2oz unpreserved for TS        | NA     | NA         |          |            | Y    | Absent |                  | TS(7)                                                                                 |
| L1961283-02F  | Glass 60mL/2oz unpreserved            | NA     | NA         |          |            | Y    | Absent |                  | TCLP-EXT-ZHE(14)                                                                      |
| L1961283-02G  | Glass 60mL/2oz unpreserved            | NA     | NA         |          |            | Y    | Absent |                  | REACTS(14),FLASH(),PH-9045(1),REACTCN(14)                                             |
| L1961283-02H  | Glass 500ml/16oz unpreserved          | NA     | NA         |          |            | Y    | Absent |                  | REACTS(14),FLASH(),PH-9045(1),REACTCN(14)                                             |
| L1961283-02W  | Amber 1000ml unpreserved Extracts     | NA     | NA         |          |            | Y    | Absent |                  | TCLP-8270(14)                                                                         |
| L1961283-02X  | Plastic 120ml HNO3 preserved Extracts | NA     | NA         |          |            | Y    | Absent |                  | CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180) |
| L1961283-02X9 | Tumble Vessel                         | NA     | NA         |          |            | Y    | Absent |                  | -                                                                                     |
| L1961283-02Y  | Vial unpreserved Extracts             | NA     | NA         |          |            | Y    | Absent |                  | TCLP-VOA(14)                                                                          |
| L1961283-02Z  | Vial unpreserved Extracts             | NA     | NA         |          |            | Y    | Absent |                  | TCLP-VOA(14)                                                                          |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

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

### Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

**Data Qualifiers**

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961283  
**Report Date:** 12/26/19

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 15

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

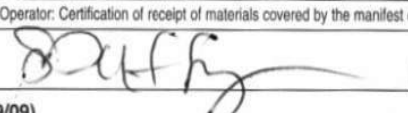
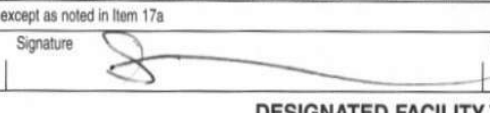
**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B, SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193                                            |                | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                       |       | Page<br><div style="border: 1px solid black; padding: 2px; display: inline-block;">1 of 1</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | Date Rec'd<br>in Lab <span style="font-size: 1.2em;">12/21/19</span>                                                                                                                                                      |           | ALPHA Job #<br><span style="font-size: 1.2em;">L1961283</span>                                                                                                                                                                                                               |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                              |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Client Information</b><br>Client: <u>LaBella Associates</u><br>Address: <u>300 STATE ST</u><br><u>ROCHESTER, NY 14614</u><br>Phone: <u>454-6110</u><br>Email: <u>slogan@labellapc.com</u><br><u>jgillen@labellapc.com</u>                    |                | <b>Project Information</b><br>Project Name: <u>FORMER WALTONSACK OPTICAL</u><br>Project Location: <u>872 HURON AVE, ROCHESTER, NY</u><br>Project # <u>2182207</u><br>(Use Project name as Project #) <input type="checkbox"/> |       | <b>Deliverables</b><br><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B<br><input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File)<br><input type="checkbox"/> Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | <b>Billing Information</b><br><input checked="" type="checkbox"/> Same as Client Info<br>PO #                                                                                                                             |           |                                                                                                                                                                                                                                                                              |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                 |                | Project Manager: <u>TEN GELLEN</u><br>ALPHAQuote #:                                                                                                                                                                           |       | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other: |           |                                                                                                                                                                                                                                                                              |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Turn-Around Time<br>Standard <input type="checkbox"/> Rush (only if pre approved) <input checked="" type="checkbox"/> Due Date: <u>3 DAY</u><br># of Days:                                                                                      |                | These samples have been previously analyzed by Alpha <input type="checkbox"/>                                                                                                                                                 |       | <b>ANALYSIS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | <b>Sample Filtration</b><br><input type="checkbox"/> Done<br><input type="checkbox"/> Lab to do Preservation<br><input type="checkbox"/> Lab to do<br>(Please Specify below)                                              |           | Total Bottles                                                                                                                                                                                                                                                                |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other project specific requirements/comments:                                                                                                                                                                                                   |                | Please specify Metals or TAL.                                                                                                                                                                                                 |       | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>ALPHA Lab ID<br/>(Lab Use Only)</th> <th>Sample ID</th> <th colspan="2">Collection</th> <th>Sample Matrix</th> <th>Sampler's Initials</th> <th>TCL VOC</th> <th>TCLP VOC</th> <th>TOTAL VOC</th> <th>TCLP METALS</th> <th>TCLP SVOC</th> <th>REACTIVE CYANIDE<br/>+ SULFIDE</th> <th>pH</th> <th>FLASH POINT</th> <th>Sample Specific Comments</th> </tr> <tr> <td>61283-01</td> <td>WG-GRAB-122019</td> <td>12/20/19</td> <td>12:30</td> <td>SOL</td> <td>SL</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td>WC-COMP-122019</td> <td>12/20/19</td> <td>12:30</td> <td>SOL</td> <td>SL</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |                    | ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                            | Sample ID |                                                                                                                                                                                                                                                                              | Collection |             | Sample Matrix | Sampler's Initials            | TCL VOC | TCLP VOC    | TOTAL VOC                | TCLP METALS | TCLP SVOC | REACTIVE CYANIDE<br>+ SULFIDE | pH | FLASH POINT | Sample Specific Comments | 61283-01 | WG-GRAB-122019 | 12/20/19 | 12:30 | SOL | SL | X | X |  |  |  |  |  |  |  | 02 | WC-COMP-122019 | 12/20/19 | 12:30 | SOL | SL | X | X | X | X | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALPHA Lab ID<br>(Lab Use Only)                                                                                                                                                                                                                  | Sample ID      | Collection                                                                                                                                                                                                                    |       | Sample Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sampler's Initials | TCL VOC                                                                                                                                                                                                                   | TCLP VOC  |                                                                                                                                                                                                                                                                              | TOTAL VOC  | TCLP METALS | TCLP SVOC     | REACTIVE CYANIDE<br>+ SULFIDE | pH      | FLASH POINT | Sample Specific Comments |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 61283-01                                                                                                                                                                                                                                        | WG-GRAB-122019 | 12/20/19                                                                                                                                                                                                                      | 12:30 | SOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SL                 | X                                                                                                                                                                                                                         | X         |                                                                                                                                                                                                                                                                              |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02                                                                                                                                                                                                                                              | WC-COMP-122019 | 12/20/19                                                                                                                                                                                                                      | 12:30 | SOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SL                 | X                                                                                                                                                                                                                         | X         |                                                                                                                                                                                                                                                                              | X          | X           | X             | X                             | X       | X           |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                 |                |                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                              |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preservative Code:<br>A = None<br>B = HCl<br>C = HNO <sub>3</sub><br>D = H <sub>2</sub> SO <sub>4</sub><br>E = NaOH<br>F = MeOH<br>G = NaHSO <sub>4</sub><br>H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub><br>K/E = Zn Ac/NaOH<br>O = Other |                | Container Code<br>P = Plastic<br>A = Amber Glass<br>V = Vial<br>G = Glass<br>B = Bacteria Cup<br>C = Cube<br>O = Other<br>E = Encore<br>D = BOD Bottle                                                                        |       | Westboro: Certification No: MA935<br>Mansfield: Certification No: MA015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    | Container Type<br>Preservative                                                                                                                                                                                            |           | Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By: <u>[Signature]</u> Date/Time: <u>12/20/19 16:30</u>                                                                                                                                                                            |                | Received By: <u>[Signature]</u> Date/Time: <u>12/21/19 01:15</u>                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                              |            |             |               |                               |         |             |                          |             |           |                               |    |             |                          |          |                |          |       |     |    |   |   |  |  |  |  |  |  |  |    |                |          |       |     |    |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------|--|-----------------------------|--|--------------------------|--|---------------------|--|
| <b>NON-HAZARDOUS<br/>WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                  |  | 1. Generator ID Number                                                                                                           |      | 2. Page 1 of 1                                                                                    |  | 3. Emergency Response Phone |  | 4. Waste Tracking Number |  |                     |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 5. Generator's Name and Mailing Address<br><b>Jefferson Wollensack, LLC</b><br><b>312 State St., Rochester, NY 14614</b><br>Generator's Phone: <b>(585) 454-5710</b>                                                                                                                                                                                                     |  | Generator's Site Address (if different than mailing address)<br><b>872 &amp; 886 Hudson Avenue</b><br><b>Rochester, NY 14611</b> |      |                                                                                                   |  |                             |  |                          |  |                     |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 6. Transporter 1 Company Name                                                                                                                                                                                                                                                                                                                                            |  | U.S. EPA ID Number                                                                                                               |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  | U.S. EPA ID Number                                                                                                               |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 8. Designated Facility Name and Site Address<br><b>High Acres Landfill</b><br><b>425 Perinton Parkway, Fairport, NY 14450</b><br>Facility's Phone: <b>(585) 512-2465</b>                                                                                                                                                                                                 |  | U.S. EPA ID Number                                                                                                               |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  | 10. Containers                                                                                                                   |      | 11. Total Quantity                                                                                |  | 12. Unit Wt./Vol.           |  |                          |  |                     |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  | No.                                                                                                                              | Type |                                                                                                   |  |                             |  |                          |  |                     |  |
| 1. <b>Petroleum impacted soil</b>                                                                                                                                                                                                                                                                                                                                        |  | <b>1</b> <b>DT</b>                                                                                                               |      | <b>20</b>                                                                                         |  | <b>T</b>                    |  |                          |  |                     |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 13. Special Handling Instructions and Additional Information<br><br><b>Profile # 121838NY</b><br><b>Weight is estimated</b>                                                                                                                                                                                                                                              |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| Generator's/Offor's Printed/Typed Name<br><b>Jeffrey Foker on behalf of Jefferson Wollensack LLC</b>                                                                                                                                                                                                                                                                     |  |                                                                                                                                  |      | Signature<br>  |  | Month<br><b>1</b>           |  | Day<br><b>6</b>          |  | Year<br><b>2020</b> |  |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.                                                                                                                                                                                                                                                            |  |                                                                                                                                  |      | Port of entry/exit:                                                                               |  | Date leaving U.S.:          |  |                          |  |                     |  |
| Transporter Signature (for exports only):                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| Transporter 1 Printed/Typed Name<br><b>Jeffrey J. Tomb</b>                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                  |      | Signature<br> |  | Month<br><b>1</b>           |  | Day<br><b>6</b>          |  | Year<br><b>2020</b> |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                  |      | Signature                                                                                         |  | Month                       |  | Day                      |  | Year                |  |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 17b. Alternate Facility (or Generator) U.S. EPA ID Number                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 17c. Signature of Alternate Facility (or Generator) Month Day Year                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                                                                                                                                  |      |                                                                                                   |  |                             |  |                          |  |                     |  |
| Printed/Typed Name<br>                                                                                                                                                                                                                                                                |  |                                                                                                                                  |      | Signature<br> |  | Month<br><b>1</b>           |  | Day<br><b>6</b>          |  | Year<br><b>2020</b> |  |

GENERATOR

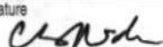
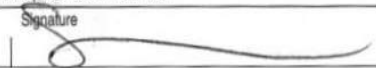
INT'L

TRANSPORTER

DESIGNATED FACILITY

|                                                                                                                                                                                                                                                                                                                                                                          |  |                        |                                                                                                                 |                             |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                      |  | 1. Generator ID Number | 2. Page 1 of                                                                                                    | 3. Emergency Response Phone | 4. Waste Tracking Number   |
| 5. Generator's Name and Mailing Address<br>Jefferson Wellenbach LLC<br>312 State St. Rochester NY 14614<br>Generator's Phone: 585-454-5710                                                                                                                                                                                                                               |  |                        | Generator's Site Address (if different than mailing address)<br>272 and 884 Hudson Avenue<br>Rochester NY 14611 |                             |                            |
| 6. Transporter 1 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                        | U.S. EPA ID Number                                                                                              |                             |                            |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                        | U.S. EPA ID Number                                                                                              |                             |                            |
| 8. Designated Facility Name and Site Address<br>Hartman's Landfill<br>423 1st St. W. Tonawanda NY 14150<br>Facility's Phone: 585-632-2465                                                                                                                                                                                                                                |  |                        | U.S. EPA ID Number                                                                                              |                             |                            |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  | 10. Containers         |                                                                                                                 | 11. Total Quantity          | 12. Unit Wt./Vol.          |
|                                                                                                                                                                                                                                                                                                                                                                          |  | No.                    | Type                                                                                                            |                             |                            |
| 1. Pyzium impacted soil                                                                                                                                                                                                                                                                                                                                                  |  | 1                      | DT                                                                                                              | 20                          | T                          |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                                                                 |                             |                            |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                                                                 |                             |                            |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                                                                 |                             |                            |
| 13. Special Handling Instructions and Additional Information<br>Profile # 121938NY<br>Weight is estimated                                                                                                                                                                                                                                                                |  |                        |                                                                                                                 |                             |                            |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                        |                                                                                                                 |                             |                            |
| Generator's/Offor's Printed/Typed Name<br>Jeffrey Folger on behalf of Jefferson Wellenbach LLC                                                                                                                                                                                                                                                                           |  |                        | Signature<br><i>[Signature]</i>                                                                                 |                             | Month Day Year<br>1 9 2020 |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____<br>Transporter Signature (for exports only): _____ Date leaving U.S.: _____                                                                                                                                                      |  |                        |                                                                                                                 |                             |                            |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                        |                                                                                                                 |                             |                            |
| Transporter 1 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                        | Signature                                                                                                       |                             | Month Day Year             |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                        | Signature                                                                                                       |                             | Month Day Year             |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                        |                                                                                                                 |                             |                            |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection<br>Manifest Reference Number: _____                                                                                                                |  |                        |                                                                                                                 |                             |                            |
| 17b. Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                                   |  |                        | U.S. EPA ID Number                                                                                              |                             |                            |
| Facility's Phone: _____                                                                                                                                                                                                                                                                                                                                                  |  |                        |                                                                                                                 |                             |                            |
| 17c. Signature of Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                      |  |                        | Signature                                                                                                       |                             | Month Day Year             |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                        |                                                                                                                 |                             |                            |
| Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                       |  |                        | Signature                                                                                                       |                             | Month Day Year             |



|                                                                                                                                                                                                                                                                                                                                                                          |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|--------------|----------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------|--|
| <b>NON-HAZARDOUS<br/>WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                  |  | 1. Generator ID Number |  | 2. Page 1 of |                | 3. Emergency Response Phone                                                                                                    |                       | 4. Waste Tracking Number           |  |
| 5. Generator's Name and Mailing Address<br><b>Jefferson Wollensack, LLC</b><br><b>312 State St., Rochester, NY 14614</b><br>Generator's Phone: <b>(585) 454-5710</b>                                                                                                                                                                                                     |  |                        |  |              |                | Generator's Site Address (if different than mailing address)<br><b>872 and 886 Hudson Avenue</b><br><b>Rochester, NY 14611</b> |                       |                                    |  |
| 6. Transporter 1 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                        |  |              |                | U.S. EPA ID Number                                                                                                             |                       |                                    |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                        |  |              |                | U.S. EPA ID Number                                                                                                             |                       |                                    |  |
| 8. Designated Facility Name and Site Address<br><b>High Acres Landfill</b><br><b>425 Perinton Parkway, Fairport, NY 14450</b><br>Facility's Phone: <b>(585) 512-2465</b>                                                                                                                                                                                                 |  |                        |  |              |                | U.S. EPA ID Number                                                                                                             |                       |                                    |  |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  |                        |  |              | 10. Containers |                                                                                                                                | 11. Total<br>Quantity | 12. Unit<br>Wt./Vol.               |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                        |  |              | No.            | Type                                                                                                                           |                       |                                    |  |
| 1. <b>Petroleum impacted Soil</b>                                                                                                                                                                                                                                                                                                                                        |  |                        |  |              | <b>1</b>       | <b>DT</b>                                                                                                                      | <b>20</b>             | <b>T</b>                           |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 13. Special Handling Instructions and Additional Information<br><br><b>Profile #121838 NY</b><br><b>Weight is estimated</b>                                                                                                                                                                                                                                              |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| Generator's/Offor's Printed/Typed Name<br><b>Jeffrey Folger on behalf of Jefferson Wollensack, LLC</b>                                                                                                                                                                                                                                                                   |  |                        |  |              |                | Signature<br>                               |                       | Month Day Year<br><b>1 10 2020</b> |  |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____                                                                                                                                                                                                         |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| Transporter 1 Printed/Typed Name<br><b>Chris Wade</b>                                                                                                                                                                                                                                                                                                                    |  |                        |  |              |                | Signature<br>                               |                       | Month Day Year<br><b>1 10 20</b>   |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                        |  |              |                | Signature                                                                                                                      |                       | Month Day Year                     |  |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                               |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 17b. Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                                   |  |                        |  |              |                | U.S. EPA ID Number                                                                                                             |                       |                                    |  |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| 17c. Signature of Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                      |  |                        |  |              |                | Month                                                                                                                          |                       | Day Year                           |  |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                        |  |              |                |                                                                                                                                |                       |                                    |  |
| Printed/Typed Name<br><b>S. Duffy</b>                                                                                                                                                                                                                                                                                                                                    |  |                        |  |              |                | Signature<br>                              |                       | Month Day Year<br><b>1 13 20</b>   |  |

Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1328739

Customer Name LABELLAPC-121838NY LABELLA AS Carrier TR T&R ENVIRONMENTAL  
Ticket Date 01/06/2020 Vehicle# 1 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007848  
State Waste Code Gen EPA ID  
Manifest NA Grid CELL 12A  
Destination  
PO  
Profile 121838NY (PETROLEUM IMPACTED SOIL)  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 35220 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/06/2020 13:18 | A_Scale_1 | SD #604682 |         | Tare  | 16800 lb |
| Out | 01/06/2020 13:44 | B_Scale_2 | SD #604682 |         | Net   | 18420 lb |
|     |                  |           |            |         | Tons  | 9.21     |

Comments

|   | Product            | LD% | Qty  | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|------|------|------|-----|--------|--------|
| 1 | Cont Soil Pet-RGC- | 100 | 9.21 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |      | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |      | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |      | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329727

Customer Name LABELLAPC-121838NY LABELLA AS Carrier RIC RICELLI TRUCKING  
Ticket Date 01/10/2020 Vehicle# 21 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007848  
State Waste Code Gen EPA ID  
Manifest 10462 Grid CELL 12A  
Destination  
PO  
Profile 121838NY (PETROLEUM IMPACTED SOIL)  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

|     | Time             | Scale     | Operator   | Inbound | Gross | 63880 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/10/2020 09:39 | A_Scale_1 | SD #604682 |         | Tare  | 29800 lb |
| Out | 01/10/2020 09:39 |           | SD #604682 |         | Net   | 34080 lb |
|     |                  |           |            |         | Tons  | 17.04    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil Pet-RGC- | 100 | 17.04 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_



Waste Management High Acres LF  
425 Perinton Pkwy  
Fairport, NY, 14450  
Ph: (585) 223-6132

Reprint  
Ticket# 1329963

Customer Name LABELLAPC-121838NY LABELLA AS Carrier CASELLA  
Ticket Date 01/13/2020 Vehicle# 4615  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0007848  
State Waste Code Gen EPA ID  
Manifest NA Grid CELL 12A  
Destination  
PO  
Profile 121838NY (PETROLEUM IMPACTED SOIL)  
Generator 190-JEFFERSONWOLLENSACK JEFFERSON WOLLENSACK, LLC

Volume

|     | Time             | Scale     | Operator   | Inbound | Gross | 64200 lb |
|-----|------------------|-----------|------------|---------|-------|----------|
| In  | 01/13/2020 07:28 | A_Scale_1 | SD #604682 |         | Tare  | 38620 lb |
| Out | 01/13/2020 08:26 | B_Scale_2 | SD #604682 |         | Net   | 25580 lb |
|     |                  |           |            |         | Tons  | 12.79    |

Comments

|   | Product            | LD% | Qty   | UOM  | Rate | Fee | Amount | Origin |
|---|--------------------|-----|-------|------|------|-----|--------|--------|
| 1 | Cont Soil Pet-RGC- | 100 | 12.79 | Tons |      |     |        | MON    |
| 2 | EVF-P-Standard Env | 100 |       | %    |      |     |        | MON    |
| 3 | RCR-P-Regulatory C | 100 |       | %    |      |     |        | MON    |
| 4 | LFS4-LANDFILL FIXE | 100 |       | %    |      |     |        | MON    |

Total Fees  
Total Ticket

Driver's  
Signature\_\_\_\_\_





# UST Contents

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

|                                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                    |                                                    |                                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------|--|
| <b>NON-HAZARDOUS WASTE MANIFEST</b>                                                                                                                                                                                                                                                                                                                                      |  | 1. Generator ID Number<br><i>N/A</i> | 2. Page 1 of                                                                                                       | 3. Emergency Response Phone<br><i>800 681-6556</i> | 4. Waste Tracking Number<br><b>4183</b> |  |
| 5. Generator's Name and Mailing Address<br><i>Jefferson Wellbuck</i><br><i>872 Hudson Ave</i><br><i>Rochester NY 14601</i>                                                                                                                                                                                                                                               |  |                                      | Generator's Site Address (if different than mailing address)<br><i>872 Hudson Ave</i><br><i>Rochester NY 14601</i> |                                                    |                                         |  |
| Generator's Phone:<br><i>716 278 5500</i>                                                                                                                                                                                                                                                                                                                                |  |                                      | U.S. EPA ID Number<br><b>NYR00178632</b>                                                                           |                                                    |                                         |  |
| 6. Transporter 1 Company Name<br><b>FINGER LAKES ENVIROTECH, LLC</b>                                                                                                                                                                                                                                                                                                     |  |                                      | U.S. EPA ID Number                                                                                                 |                                                    |                                         |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                                      | U.S. EPA ID Number                                                                                                 |                                                    |                                         |  |
| 8. Designated Facility Name and Site Address<br><i>Covanta Niagara</i><br><i>Quarry Rd</i><br><i>Niagara Falls NY</i>                                                                                                                                                                                                                                                    |  |                                      | U.S. EPA ID Number                                                                                                 |                                                    |                                         |  |
| Facility's Phone:<br><i>716 278 5500</i>                                                                                                                                                                                                                                                                                                                                 |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  | 10. Containers                       |                                                                                                                    | 11. Total Quantity                                 | 12. Unit Wt./Vol.                       |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  | No.                                  | Type                                                                                                               |                                                    |                                         |  |
| 1. <i>NON HCRH, NON DOT Regulated Liquids</i><br><i>(petroleum impregnated water)</i>                                                                                                                                                                                                                                                                                    |  | <i>1</i>                             | <i>TT</i>                                                                                                          | <i>1845</i>                                        | <i>G</i>                                |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 13. Special Handling Instructions and Additional Information                                                                                                                                                                                                                                                                                                             |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                                      |                                                                                                                    |                                                    |                                         |  |
| Generator's/Offor's Printed/Typed Name<br><i>[Signature]</i>                                                                                                                                                                                                                                                                                                             |  |                                      | Signature<br><i>[Signature]</i>                                                                                    |                                                    | Month Day Year<br><i>11 18 19</i>       |  |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____                                                                                                                                                                                                                                  |  |                                      |                                                                                                                    |                                                    |                                         |  |
| Transporter Signature (for exports only): _____ Date leaving U.S.: _____                                                                                                                                                                                                                                                                                                 |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                                      |                                                                                                                    |                                                    |                                         |  |
| Transporter 1 Printed/Typed Name<br><i>LAVERNE BROWN</i>                                                                                                                                                                                                                                                                                                                 |  |                                      | Signature<br><i>[Signature]</i>                                                                                    |                                                    | Month Day Year<br><i>11 13 19</i>       |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                                      | Signature                                                                                                          |                                                    | Month Day Year                          |  |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                                      |                                                                                                                    |                                                    |                                         |  |
| Manifest Reference Number: _____                                                                                                                                                                                                                                                                                                                                         |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 17b. Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                                   |  |                                      | U.S. EPA ID Number                                                                                                 |                                                    |                                         |  |
| Facility's Phone: _____                                                                                                                                                                                                                                                                                                                                                  |  |                                      |                                                                                                                    |                                                    |                                         |  |
| 17c. Signature of Alternate Facility (or Generator)                                                                                                                                                                                                                                                                                                                      |  |                                      | Signature                                                                                                          |                                                    | Month Day Year                          |  |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                                      |                                                                                                                    |                                                    |                                         |  |
| Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                       |  |                                      | Signature                                                                                                          |                                                    | Month Day Year                          |  |

# T&R Towing and Service

Toll Free 800-659-0556

BATH  
7248 State Rte. 415  
Bath, NY 14810

PAINTED POST  
691 Addison Rd.  
Painted Post, NY 14870

HORNELL  
7774 Industrial Park Rd.  
Hornell, NY 14843

MONTOUR FALLS  
110 Raymond St.  
Montour Falls, NY 14865

DANSVILLE  
9638 McWhorter Rd.  
Dansville, NY 14437

|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                        |  |                                                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|
| DATE<br>11/13/19                                                                                                                                                                                                                                                               |  | TIME                                                                                                                                                                                                                                                                                                                |  | REQUESTED BY                                                                                                                                                                                                           |  | CALL #                                                               |  |
| COMPANY NAME<br>Labella / Jefferson Wallensack                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                     |  | PO#PAYER                                                                                                                                                                                                               |  |                                                                      |  |
| ADDRESS                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                     |  | DRIVER NAME/#                                                                                                                                                                                                          |  |                                                                      |  |
| CITY, STATE, ZIP                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                     |  | DRIVERS LICENSE #                                                                                                                                                                                                      |  |                                                                      |  |
| TELEPHONE                                                                                                                                                                                                                                                                      |  | CELLULAR PHONE                                                                                                                                                                                                                                                                                                      |  | FAX                                                                                                                                                                                                                    |  |                                                                      |  |
| YEAR                                                                                                                                                                                                                                                                           |  | MAKE/MODEL                                                                                                                                                                                                                                                                                                          |  | COLOR                                                                                                                                                                                                                  |  | ODOMETER/HOURS                                                       |  |
| TRUCK PLATE                                                                                                                                                                                                                                                                    |  | STATE                                                                                                                                                                                                                                                                                                               |  | TRUCK #                                                                                                                                                                                                                |  | VIN #                                                                |  |
| YEAR                                                                                                                                                                                                                                                                           |  | MAKE/MODEL                                                                                                                                                                                                                                                                                                          |  | COLOR                                                                                                                                                                                                                  |  | WEIGHT                                                               |  |
| TRAILER PLATE                                                                                                                                                                                                                                                                  |  | STATE                                                                                                                                                                                                                                                                                                               |  | TRAILER #                                                                                                                                                                                                              |  | VIN #                                                                |  |
| LOCATION<br>872 Hudson Ave. Roch.                                                                                                                                                                                                                                              |  | DESTINATION                                                                                                                                                                                                                                                                                                         |  | SECOND TOW                                                                                                                                                                                                             |  |                                                                      |  |
| REASON FOR SERVICE                                                                                                                                                                                                                                                             |  | TYPE OF TOW                                                                                                                                                                                                                                                                                                         |  | SPECIAL EQUIPMENT USED                                                                                                                                                                                                 |  |                                                                      |  |
| <input type="checkbox"/> ACCIDENT<br><input type="checkbox"/> ABANDONED<br><input type="checkbox"/> NO START<br><input type="checkbox"/> LOCK OUT<br><input type="checkbox"/> STOLEN<br><input type="checkbox"/> WINCH OUT<br><input type="checkbox"/> EQUIPMENT MOVE/RELOCATE |  | <input type="checkbox"/> BREAK DOWN<br><input type="checkbox"/> OUT OF FUEL<br><input type="checkbox"/> ARREST<br><input type="checkbox"/> IMPOUND<br><input type="checkbox"/> UNREGISTERED<br><input type="checkbox"/> UNLICENSED                                                                                  |  | <input type="checkbox"/> FRONT TOW<br><input type="checkbox"/> REAR TOW<br><input type="checkbox"/> LANDOLL<br><input type="checkbox"/> LOWBOY<br><input type="checkbox"/> COMBO<br><input type="checkbox"/> SPLIT TOW |  |                                                                      |  |
| <input type="checkbox"/> WINCH<br><input type="checkbox"/> SNATCH BLOCK<br><input type="checkbox"/> SCOTCH BLOCK<br><input type="checkbox"/> STRAPS<br><input type="checkbox"/> LOOPS<br><input type="checkbox"/> CAGE BRAKES<br><input type="checkbox"/> TIRE CHAINS          |  | <input type="checkbox"/> SWEEP<br><input type="checkbox"/> REMOVE DRIVE LINE<br><input type="checkbox"/> SECURE LOOSE PARTS<br><input type="checkbox"/> OIL/FLUID CLEANUP<br><input type="checkbox"/> CRASH CART<br><input type="checkbox"/> ICE MELT/TRACTION CONTROL<br><input type="checkbox"/> OVERSIZED PERMIT |  |                                                                                                                                                                                                                        |  |                                                                      |  |
| TOWED PER ORDER OF                                                                                                                                                                                                                                                             |  | MILEAGE                                                                                                                                                                                                                                                                                                             |  | TIME                                                                                                                                                                                                                   |  | STORAGE                                                              |  |
| <input type="checkbox"/> STATE POLICE<br><input type="checkbox"/> SHERIFF DEPT<br><input type="checkbox"/> LOCAL POLICE<br><input type="checkbox"/> DEALER<br><input type="checkbox"/> OWNER<br>NAME: _____                                                                    |  | START 60453<br>ON SCENE 60540<br>TOWED _____<br>FINISHED _____                                                                                                                                                                                                                                                      |  | START 7:00<br>ON SCENE 9:23<br>LOADED _____<br>TOWED _____<br>FINISHED _____                                                                                                                                           |  | TO _____<br>DAYS @ \$ _____<br>DRIVER # 125<br>TRUCK #/TRAILER # 103 |  |
| VAC. out 2 Tanks + 1 Pit.<br>40" = 1844.3905                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                     |  | TOWING CHARGE                                                                                                                                                                                                          |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | MILEAGE CHARGE                                                                                                                                                                                                         |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | SPECIAL EQUIPMENT                                                                                                                                                                                                      |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | PARTS                                                                                                                                                                                                                  |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | LABOR                                                                                                                                                                                                                  |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | AFTER HOURS                                                                                                                                                                                                            |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | SECOND TOW                                                                                                                                                                                                             |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | STORAGE                                                                                                                                                                                                                |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | SUB-TOTAL                                                                                                                                                                                                              |  |                                                                      |  |
|                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                     |  | TAX                                                                                                                                                                                                                    |  |                                                                      |  |
| TOTAL                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                        |  |                                                                      |  |
| PAID BY                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                        |  |                                                                      |  |
| <input type="checkbox"/> CASH<br><input type="checkbox"/> CREDIT CARD<br><input type="checkbox"/> MASTERCARD<br><input type="checkbox"/> VISA<br><input type="checkbox"/> AMEX<br><input type="checkbox"/> DISCOVER<br>AUTH# _____                                             |  |                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                        |  |                                                                      |  |
| AUTHORIZED SIGNATURE                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                        |  |                                                                      |  |

WE CANNOT BE RESPONSIBLE FOR DAMAGES CAUSED BY FAULTY TIRES, BUMPER BRACKETS, ETC. THIS COMPANY ASSUMES NO RESPONSIBILITY FOR LOSS OR DAMAGE BY THEFT, FIRE, OR ANY OTHER CAUSE BEYOND OUR CONTROL, TO ANY VEHICLE PLACED WITH THEM FOR STORAGE OR REPAIR  
BY SIGNING ABOVE, CUSTOMER AGREES TO INDEMNIFY, EXONERATE AND HOLD THE COMPANY AND ITS' EMPLOYEES AND/OR REPRESENTATIVES HARMLESS FROM AND AGAINST ANY CLAIMS, DAMAGES, AND ACTIONS RESULTING FROM OR ARISING OUT OF RELEASE OF THE ABOVE REFERENCED PERSON AND/OR COMPANY

|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------|-------------------|
| GENERATOR                                                                                                                                                                                                                                                                                                                                                                | NON-HAZARDOUS WASTE MANIFEST                                                                                                                                                                                          |  | 1. Generator ID Number          | 2. Page 1 of                                                                                           | 3. Emergency Response Phone       | 4. Waste Tracking Number<br><b>3712</b> |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 5. Generator's Name and Mailing Address                                                                                                                                                                               |  |                                 | Generator's Site Address (if different than mailing address)<br><b>872 HADSON AVE<br/>ROCHESTER NY</b> |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Generator's Phone:                                                                                                                                                                                                    |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 6. Transporter 1 Company Name<br><b>FINGER LAKES ENVIROTECH, LLC</b>                                                                                                                                                  |  |                                 | U.S. EPA ID Number<br><b>NYR00178632</b>                                                               |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 7. Transporter 2 Company Name                                                                                                                                                                                         |  |                                 | U.S. EPA ID Number                                                                                     |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 8. Designated Facility Name and Site Address                                                                                                                                                                          |  |                                 | U.S. EPA ID Number                                                                                     |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Facility's Phone:                                                                                                                                                                                                     |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 9. Waste Shipping Name and Description                                                                                                                                                                                |  |                                 | 10. Containers                                                                                         |                                   | 11. Total Quantity                      | 12. Unit Wt./Vol. |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |  |                                 | No.                                                                                                    | Type                              |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 1. <b>PETROLEUM IMPACTED GROUND WATER</b>                                                                                                                                                                             |  |                                 | <b>4</b>                                                                                               | <b>DM</b>                         | <b>200</b>                              | <b>G</b>          |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
| 13. Special Handling Instructions and Additional Information                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
| Generator's/Offor's Printed/Typed Name<br><b>Jeffrey Edgar on behalf of Jefferson Wollersack LLC</b>                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |  | Signature<br><i>[Signature]</i> |                                                                                                        | Month Day Year<br><b>1 6 2020</b> |                                         |                   |
| INT'L                                                                                                                                                                                                                                                                                                                                                                    | 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.                                                                                                         |  |                                 | Port of entry/exit:<br>Date leaving U.S.:                                                              |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Transporter Signature (for exports only):                                                                                                                                                                             |  |                                 |                                                                                                        |                                   |                                         |                   |
| TRANSPORTER                                                                                                                                                                                                                                                                                                                                                              | 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Transporter 1 Printed/Typed Name<br><b>MONTANA VASTRIMSKI</b>                                                                                                                                                         |  |                                 | Signature<br><i>[Signature]</i>                                                                        |                                   | Month Day Year<br><b>1 6 2020</b>       |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Transporter 2 Printed/Typed Name                                                                                                                                                                                      |  |                                 | Signature                                                                                              |                                   | Month Day Year                          |                   |
| DESIGNATED FACILITY                                                                                                                                                                                                                                                                                                                                                      | 17. Discrepancy                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Manifest Reference Number:                                                                                                                                                                                            |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 17b. Alternate Facility (or Generator)                                                                                                                                                                                |  |                                 | U.S. EPA ID Number                                                                                     |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | Facility's Phone:                                                                                                                                                                                                     |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 17c. Signature of Alternate Facility (or Generator)                                                                                                                                                                   |  |                                 | Month Day Year                                                                                         |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                       |  |                                 |                                                                                                        |                                   |                                         |                   |
|                                                                                                                                                                                                                                                                                                                                                                          | 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                  |  |                                 |                                                                                                        |                                   |                                         |                   |
| Printed/Typed Name<br><b>TRANSFERRED TO BULK LOAD, MANIFEST #4385, FOR FINAL DISPOSAL</b>                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                       |  | Signature                       |                                                                                                        | Month Day Year<br><b>01 23 20</b> |                                         |                   |



# APPENDIX G

## **On-Site Material Reuse Documentation**



## Brett, Alexander

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Thursday, December 26, 2019 10:16 AM  
**To:** Gillen, Jennifer; Noll, Dan; Aquilina, Ann  
**Cc:** Caffoe, Todd (DEC); Folger, Jeffrey; Jeff Vander Veer; Joshua Grobe  
**Subject:** RE: C828209 Former Wollensack Optical Site

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Jen:

Based on the environmental data presented in the 12/26/2019 e-mail for the trench spoils generated within the Wollensack building, the soil/fill material analytical indicates that the soil/fill material meets the RR and Protection of Groundwater SCOs for the Site's contaminants of concern and can be placed back in the plumbing trenches within the Wollensack building below the Site's cover system.

The Department understands that the PFAS/PFOA data is forth coming and the analytical data will document the PFAS/PFOA concentrations of the trench spoils that will be placed below the Site's cover system within the Wollensack building prior to receipt of the PFAS/PFOA analytical data from the laboratory.

Best Regards,  
Charlotte

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Thursday, December 26, 2019 8:58 AM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>; dnoll@LABELLAPC.com; Aquilina, Ann <AAquilina@LaBellaPC.com>  
**Cc:** Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>; Folger, Jeffrey <JFolger@LaBellaPC.com>; Jeff Vander Veer <jvanderveer@hamiltonstern.com>; Joshua Grobe <jgrobe@hamiltonstern.com>  
**Subject:** RE: C828209 Former Wollensack Optical Site

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

Hi Charlotte,

Per your below clarification, please find the attached request to reuse application form for the interior trench spoils generated during plumbing work last week. Note that we have not yet received the PFAS data but all other data is below RR Allowable Constituent Levels. The material was generated while excavating interior trenches for plumbing, the material has been/will be staged within the building and the material is planned to be placed back in these same trenches for backfill, pending the Department's approval.

Please let me know if you need any additional information.

Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager

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**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Monday, December 23, 2019 4:49 PM  
**To:** Gillen, Jennifer; Noll, Dan; Aquilina, Ann  
**Cc:** Caffoe, Todd (DEC)  
**Subject:** RE: C828209 Former Wollensack Optical Site

Jen:

Due to the detections of PFAS/PFOA in soils and groundwater the Department is requesting that 20% of the soil samples collected be analyzed for PFAS/PFOA to document the concentration of the PFAS/PFOA in the trench spoils. The trench spoils can be used as backfill material prior to receiving the PFAS/PFOA analytical data as long as the trench spoils are placed such that the spoils are below the Site's final cover system. I hope this helps clear up any misunderstanding regarding the PFAS/PFOA issue surrounding the trench spoils and the reuse of the trench spoils with regards to PFAS/PFOA sampling.

Best Regards,  
Charlotte

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**From:** Gillen, Jennifer <[jgillen@LaBellaPC.com](mailto:jgillen@LaBellaPC.com)>  
**Sent:** Sunday, December 22, 2019 2:00 PM  
**To:** Theobald, Charlotte B (DEC) <[charlotte.theobald@dec.ny.gov](mailto:charlotte.theobald@dec.ny.gov)>; [dnoll@LABELLAPC.com](mailto:dnoll@LABELLAPC.com); Aquilina, Ann <[AAquilina@LaBellaPC.com](mailto:AAquilina@LaBellaPC.com)>  
**Cc:** Caffoe, Todd (DEC) <[todd.caffoe@dec.ny.gov](mailto:todd.caffoe@dec.ny.gov)>  
**Subject:** RE: C828209 Former Wollensack Optical Site

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

Hi Charlotte,

Per our discussion on Thursday we discussed the contractor potentially reusing the trench spoils back in these interior trenches prior to receiving official NYSDEC approval for reuse. You indicated that because the material would be under cover (i.e., the building floor slab) it would "probably be okay" to reuse the soils in this application prior to receiving the data/approval. Based on the Department's determination regarding the PFAS samples I want to ensure this is still the case as PFAS analysis is currently taking about 3 weeks at best, and that does not include holidays. Of course, we would still document this reuse data in the CCR or FER even if the soils were reused prior to receiving the data.

Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager

585-295-6648 direct  
585-454-6110 office

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**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Friday, December 20, 2019 12:04 PM  
**To:** Gillen, Jennifer; Noll, Dan; Aquilina, Ann  
**Cc:** Caffoe, Todd (DEC)  
**Subject:** RE: C828209 Former Wollensack Optical Site

Jen:

During our telephone discussion yesterday regarding the soil/fill material spoils from the trenching activities within the building and using that material as backfill material, you inquired about PFAS/PFOA sampling. Given that PFAS/PFOA has been detected in soils and groundwater, the soil/fill material will need to be tested for PFAS/PFOA. Also, given that the material is being placed under a cover system (i.e., the concrete slab of the building) 20% of the soil/fill material samples collected for laboratory analysis need to be analyzed for PFAS/PFOA. This will document the concentration of the PFAS/PFOA in the backfill material.

I assume that the installation of the SSDS for the building will be able to be worked around the plumbing that is being installed out there now.

Best Regards,  
Charlotte

---

**From:** Gillen, Jennifer <[jgillen@LaBellaPC.com](mailto:jgillen@LaBellaPC.com)>  
**Sent:** Thursday, December 19, 2019 4:03 PM  
**To:** Theobald, Charlotte B (DEC) <[charlotte.theobald@dec.ny.gov](mailto:charlotte.theobald@dec.ny.gov)>; [dnoll@LABELLAPC.com](mailto:dnoll@LABELLAPC.com); Aquilina, Ann <[AAquilina@LaBellaPC.com](mailto:AAquilina@LaBellaPC.com)>  
**Cc:** Caffoe, Todd (DEC) <[todd.caffoe@dec.ny.gov](mailto:todd.caffoe@dec.ny.gov)>  
**Subject:** RE: C828209 Former Wollensack Optical Site

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

Hi Charlotte,

This is part of the building rehab. Specifically, they will be installing plumbing in these trenches. We have been on-site completing CAMP monitoring during this work and are currently waiting on sample data from the lab for reuse of this material (pending data, of course).

We are drafting the requested design document for Wollensack IRM work and will be submitting soon. Trenching for the IRM work is not planned to start until February, pending your approval.

Best,  
Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager

585-295-6648    direct  
585-454-6110    office

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**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Thursday, December 19, 2019 3:59 PM  
**To:** Gillen, Jennifer; Noll, Dan; Aquilina, Ann  
**Cc:** Caffoe, Todd (DEC)  
**Subject:** C828209 Former Wollensack Optical Site

Jen:

Liz Kaptein was onsite today for the tank pull. One of the photographs she took from inside the building shows trenching work being conducted. Is the trenching work associated with any component BCP site work or is it part of the building rehab?



Charlotte



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

Per DER-10 Section 5.4, 2 discrete samples and 1 composite sample were collected.

Discrete:

VOCs

Composite:

SVOCs

PCBs

Pesticides

Cyanide

Metals

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Data summary tables and laboratory report are attached. As noted above, PFAS data has not yet been received. Several detections but no exceedences of DER-10 Appendix 5 Restricted Residential Allowable Constituent Levels.

---

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

NA

Location where fill was obtained:

Site

Identification of any state or local approvals as a fill source:

NA

If no approvals are available, provide a brief history of the use of the property that is the fill source:

NA

Provide a list of supporting documentation included with this request:

- Laboratory analytical report (partial- PFAS not yet received)
- Data summary tables

The information provided on this form is accurate and complete.



Signature

12/26/2019

Date

Jennifer Gillen

Print Name

LaBella Associates DPC

Firm



| Sample ID                   | DER-10 Restricted Residential<br>Use Allowable Constituent<br>Levels for Imported Fill or Soil | DIS-01-121719 |   | DIS-02-121719 |   |
|-----------------------------|------------------------------------------------------------------------------------------------|---------------|---|---------------|---|
| Sample Depth (ft bgs)       |                                                                                                | NA            |   | NA            |   |
| Sample Date                 |                                                                                                | 12/17/2019    |   | 12/17/2019    |   |
| Volatile organic compounds  |                                                                                                |               |   |               |   |
| 1,1,1-Trichloroethane       | 0.68                                                                                           | 0.00053       | U | 0.0006        | U |
| 1,1,2,2-Tetrachloroethane   | NL                                                                                             | 0.00053       | U | 0.0006        | U |
| 1,1,2-Trichloroethane       | NL                                                                                             | 0.001         | U | 0.0012        | U |
| 1,1-Dichloroethane          | 0.27                                                                                           | 0.001         | U | 0.0012        | U |
| 1,1-Dichloroethene          | 0.33                                                                                           | 0.001         | U | 0.0012        | U |
| 1,2,3-Trichlorobenzene      | NL                                                                                             | 0.0021        | U | 0.0024        | U |
| 1,2,4-Trichlorobenzene      | NL                                                                                             | 0.0021        | U | 0.0024        | U |
| 1,2-Dibromo-3-Chloropropane | NL                                                                                             | 0.0032        | U | 0.0036        | U |
| 1,2-Dibromomethane          | NL                                                                                             | 0.001         | U | 0.0012        | U |
| 1,2-Dichlorobenzene         | 1.1                                                                                            | 0.0021        | U | 0.0024        | U |
| 1,2-Dichloroethane          | 0.02                                                                                           | 0.001         | U | 0.0012        | U |
| 1,2-Dichloropropane         | NL                                                                                             | 0.001         | U | 0.0012        | U |
| 1,3-Dichlorobenzene         | 2.4                                                                                            | 0.0021        | U | 0.0024        | U |
| 1,4-Dichlorobenzene         | 1.8                                                                                            | 0.0021        | U | 0.0024        | U |
| 1,4-Dioxane                 | 0.1                                                                                            | 0.084         | U | 0.096         | U |
| 2-Butanone                  | 0.12                                                                                           | 0.0042        | J | 0.012         | U |
| 2-Hexanone                  | NL                                                                                             | 0.01          | U | 0.012         | U |
| 4-Methyl-2-Pentanone (MIBK) | NL                                                                                             | 0.01          | U | 0.012         | U |
| Acetone                     | 0.05                                                                                           | 0.035         |   | 0.014         |   |
| Benzene                     | 0.06                                                                                           | 0.00053       | U | 0.0006        | U |
| Bromochloromethane          | NL                                                                                             | 0.0021        | U | 0.0024        | U |
| Bromodichloromethane        | NL                                                                                             | 0.00053       | U | 0.0006        | U |
| Bromoform                   | NL                                                                                             | 0.0042        | U | 0.0048        | U |
| Bromomethane                | NL                                                                                             | 0.0021        | U | 0.0024        | U |
| Carbon Disulfide            | NL                                                                                             | 0.01          | U | 0.012         | U |
| Carbon tetrachloride        | 0.76                                                                                           | 0.001         | U | 0.0012        | U |
| Chlorobenzene               | 1.1                                                                                            | 0.00053       | U | 0.0006        | U |
| Chloroethane                | NL                                                                                             | 0.0021        | U | 0.0024        | U |
| Chloroform                  | 0.37                                                                                           | 0.00015       | J | 0.0018        | U |
| Chloromethane               | NL                                                                                             | 0.0042        | U | 0.0048        | U |
| cis -1,2-Dichloroethene     | 0.25                                                                                           | 0.001         | U | 0.0012        | U |
| cis-1,3-dichloropropene     | NL                                                                                             | 0.00053       | U | 0.0006        | U |
| Cyclohexane                 | NL                                                                                             | 0.01          | U | 0.012         | U |
| Dibromofluoromethane        | NL                                                                                             | 0.001         | U | 0.0012        | U |
| Dichlorodifluoromethane     | NL                                                                                             | 0.01          | U | 0.012         | U |
| Ethylbenzene                | 1                                                                                              | 0.001         | U | 0.0012        |   |
| Freon-113                   | NL                                                                                             | 0.0042        | U | 0.0048        | U |
| Isopropylbenzene            | NL                                                                                             | 0.001         | U | 0.0012        | U |
| Methyl Acetate              | NL                                                                                             | 0.0042        | U | 0.0048        | U |
| Methyl Cyclohexane          | NL                                                                                             | 0.0042        | U | 0.0013        | J |
| Methyl tert-butyl ether     | 0.93                                                                                           | 0.0021        | U | 0.0024        | U |
| Methylene chloride          | 0.05                                                                                           | 0.0053        | U | 0.006         | U |
| o-xylene                    | NL                                                                                             | 0.001         | U | 0.0021        |   |
| m,p-xylene                  | NL                                                                                             | 0.0021        | U | 0.0039        |   |
| Styrene                     | NL                                                                                             | 0.001         | U | 0.0012        | U |
| Tetrachloroethene           | 1.3                                                                                            | 0.00053       | U | 0.00053       | J |
| Toluene                     | 0.7                                                                                            | 0.001         | U | 0.0013        |   |
| trans-1,2-Dichloroethene    | 0.19                                                                                           | 0.0016        | U | 0.00025       | J |
| trans-1,3-dichloropropene   | NL                                                                                             | 0.001         | U | 0.0012        | U |
| Trichloroethene             | 0.47                                                                                           | 0.0023        |   | 0.14          |   |
| Trichlorofluoromethane      | NL                                                                                             | 0.0042        | U | 0.0048        | U |
| Vinyl chloride              | 0.02                                                                                           | 0.001         | U | 0.0012        | U |

NOTES:

DATA HAS NOT YET BEEN VALIDATED. PFAS DATA PENDING.

All values displayed in milligrams per kilograms (mg/kg) or parts per million (ppm)

U indicates compound was not detected above the indicated laboratory method detection limit (MDL).

**Bold font indicates that the compound was detected above its respective MDL.**

Yellow highlight indicates that the compound was detected at a concentration above its respective DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill or Soil.

VOCs analyzed by USEPA Method 8260

NL indicates Not Listed

J indicates an estimated value

Table 1 (page 2 of 2)  
Request to Reuse - Interior Plumbing Trench Spoils Sampled December 17, 2019  
Former Wollensack Optical Site - #C828209  
872 & 886 Hudson Avenue, Rochester, NY  
Summary of Targeted Compounds In Soil  
December 26, 2019  
LaBella Project #2182207

| Sample ID                      | DER-10 Restricted Residential    | COMP-01-121719 |
|--------------------------------|----------------------------------|----------------|
| Sample Depth (ft bgs)          | Use Allowable Constituent        | NA             |
| Sample Date                    | Levels for Imported Fill or Soil | 12/17/2019     |
| Metals                         |                                  |                |
| Aluminum                       | NL                               | 3810           |
| Antimony                       | NL                               | 4.77 U         |
| Arsenic                        | 16                               | 4.71           |
| Barium                         | 400                              | 68.2           |
| Beryllium                      | 47                               | 0.191 J        |
| Cadmium                        | 4.3                              | 0.515 J        |
| Calcium                        | NL                               | 95300          |
| Chromium, trivalent            | 180                              | 6.43           |
| Cobalt                         | NL                               | 4.04           |
| Copper                         | 270                              | 10.9           |
| Iron                           | NL                               | 11600          |
| Lead                           | 400                              | 30.2           |
| Magnesium                      | NL                               | 20600          |
| Manganese                      | 2,000                            | 311            |
| Mercury                        | 0.73                             | 0.088 U        |
| Nickel                         | 130                              | 8.58           |
| Potassium                      | NL                               | 798            |
| Selenium                       | 4                                | 1.91 U         |
| Silver                         | 8.3                              | 0.954 U        |
| Sodium                         | NL                               | 236            |
| Thallium                       | NL                               | 1.91 U         |
| Vanadium                       | NL                               | 9.21           |
| Zinc                           | 2,480                            | 21.6           |
| Cyanide                        | 27                               | 1.1 U          |
| Pesticides                     |                                  |                |
| 4,4'-DDD                       | 13                               | 0.00187 U      |
| 4,4'-DDE                       | 8.9                              | 0.00115 J      |
| 4,4'-DDT                       | 7.9                              | 0.00351 U      |
| Aldrin                         | 0.097                            | 0.00187 U      |
| alpha-BHC                      | 0.02                             | 0.00078 U      |
| beta-BHC                       | 0.09                             | 0.00187 U      |
| Chlordane                      | NL                               | 0.0152 U       |
| cis-Chlordane                  | 2.9                              | 0.00234 U      |
| delta-BHC                      | 0.25                             | 0.00187 U      |
| Dieldrin                       | 0.1                              | 0.00117 U      |
| Endosulfan I                   | 24                               | 0.00187 U      |
| Endosulfan II                  | 24                               | 0.00187 U      |
| Endosulfan sulfate             | 24                               | 0.00078 U      |
| Endrin                         | 0.06                             | 0.00078 U      |
| Endrin Aldehyde                | NL                               | 0.00234 U      |
| Endrin Ketone                  | NL                               | 0.00187 U      |
| Heptachlor                     | 0.38                             | 0.000936 U     |
| Heptachlor Epoxide             | NL                               | 0.00351 U      |
| gamma-BHC (lindane)            | 0.1                              | 0.00078 U      |
| Methoxychlor                   | NL                               | 0.00351 U      |
| Toxaphene                      | NL                               | 0.0351 U       |
| trans-Chlordane                | NL                               | 0.00234 U      |
| PCBs                           |                                  |                |
| PCB 1016                       | NL                               | 0.0384 U       |
| PCB 1221                       | NL                               | 0.0384 U       |
| PCB 1232                       | NL                               | 0.0384 U       |
| PCB 1242                       | NL                               | 0.0384 U       |
| PCB 1248                       | NL                               | 0.0384 U       |
| PCB 1254                       | NL                               | 0.0384 U       |
| PCB 1260                       | NL                               | 0.0384 U       |
| PCB 1262                       | NL                               | 0.0384 U       |
| PCB 1268                       | NL                               | 0.0384 U       |
| Total PCBs                     | 1                                | 0.0384 U       |
| Semivolatile organic compounds |                                  |                |
| 1,2,4,5-Tetrachlorobenzene     | NL                               | 0.2 U          |
| 1,4-Dioxane                    | 0.1                              | 0.03 U         |
| 2,3,4,6-Tetrachlorophenol      | NL                               | 0.2 U          |
| 2,4,5-Trichlorophenol          | NL                               | 0.2 U          |
| 2,4,6-Trichlorophenol          | NL                               | 0.12 U         |
| 2,4-Dichlorophenol             | NL                               | 0.18 U         |
| 2,4-Dimethylphenol             | NL                               | 0.2 U          |
| 2,4-Dinitrophenol              | NL                               | 0.95 U         |
| 2,4-Dinitrotoluene             | NL                               | 0.2 U          |
| 2,6-Dinitrotoluene             | NL                               | 0.2 U          |
| 2-Chloronaphthalene            | NL                               | 0.2 U          |
| 2-Chlorophenol                 | NL                               | 0.2 U          |
| 2-Methylnaphthalene            | NL                               | 0.24 U         |
| 2-Methylphenol (o-cresol)      | 0.33                             | 0.2 U          |
| 2-Nitroaniline                 | NL                               | 0.2 U          |
| 2-Nitrophenol                  | NL                               | 0.43 U         |
| 3,3'-Dichlorobenzidine         | NL                               | 0.2 U          |
| 3&4-Methyl Phenol              | 0.33                             | 0.28 U         |
| 3-Nitroaniline                 | NL                               | 0.2 U          |
| 4,6-Dinitro-2-Methylphenol     | NL                               | 0.52 U         |
| 4-Bromophenyl-phenylether      | NL                               | 0.2 U          |
| 4-Chloroaniline                | NL                               | 0.2 U          |
| 4-Chlorophenyl-Phenylether     | NL                               | 0.2 U          |
| 4-Nitroaniline                 | NL                               | 0.2 U          |
| 4-Nitrophenol                  | NL                               | 0.28 U         |
| Acenaphthene                   | 98                               | 0.16 U         |
| Acenaphthylene                 | 100                              | 0.16 U         |
| Acetophenone                   | NL                               | 0.2 U          |
| Anthracene                     | 100                              | 0.12 U         |
| Atrazine                       | NL                               | 0.16 U         |
| Benzaldehyde                   | NL                               | 0.26 U         |
| Benz(a)anthracene              | 1                                | 0.12 U         |
| Benzo(a)pyrene                 | 1                                | 0.16 U         |
| Benzo(b)fluoranthene           | 1                                | 0.12 U         |
| Benzo(g,h,i)perylene           | 100                              | 0.16 U         |
| Benzo(k)fluoranthene           | 1.7                              | 0.12 U         |
| Biphenyl                       | NL                               | 0.45 U         |
| Bis(2-chlorethoxy)methane      | NL                               | 0.21 U         |
| Bis(2-chloroethyl)ether        | NL                               | 0.18 U         |
| Bis(2-chloroisopropyl)ether)   | NL                               | 0.24 U         |
| Bis(2-ethylhexyl)phthalate     | NL                               | 0.2 U          |
| Butyl benzyl phthalate         | NL                               | 0.2 U          |
| Caprolactam                    | NL                               | 0.2 U          |
| Carbozale                      | NL                               | 0.2 U          |
| Chrysene                       | 1                                | 0.046 J        |
| Di-n-butyl Phthalate           | NL                               | 0.2 U          |
| Di-n-octyl Phthalate           | NL                               | 0.2 U          |
| Dibenz(a,h)anthracene          | 0.33                             | 0.12 U         |
| Dibenzofuran                   | 59                               | 0.2 U          |
| Diethyl Phthalate              | NL                               | 0.2 U          |
| Dimethyl Phthalate             | NL                               | 0.2 U          |
| Fluoranthene                   | 100                              | 0.12 U         |
| Fluorene                       | 100                              | 0.2 U          |
| Hexachlorobenzene              | 1.2                              | 0.12 U         |
| Hexachlorobutadiene            | NL                               | 0.2 U          |
| Hexachlorocyclopentadiene      | NL                               | 0.57 U         |
| Hexachloroethane               | NL                               | 0.16 U         |
| Indeno(1,2,3-cd)pyrene         | 0.5                              | 0.16 U         |
| Isophorone                     | NL                               | 0.18 U         |
| N-Nitrosodi-n-propylamine      | NL                               | 0.2 U          |
| Naphthalene                    | 12                               | 0.2 U          |
| NDPA/DPA                       | NL                               | 0.16 U         |
| Nitrobenzene                   | NL                               | 0.18 U         |
| p-Chloro-m-cresol              | NL                               | 0.2 U          |
| Pentachlorophenol              | 0.8                              | 0.16 U         |
| Phenanthrene                   | 100                              | 0.032 J        |
| Phenol                         | 0.33                             | 0.2 U          |
| Pyrene                         | 100                              | 0.024 J        |

NOTES:  
DATA HAS NOT YET BEEN VALIDATED. PFAS DATA PENDING.  
All values displayed in milligrams per kilograms (mg/kg) or parts per million (ppm)  
U indicates compound was not detected above the indicated laboratory method detection limit (MDL).  
**Bold font indicates that the compound was detected above its respective MDL.**  
**Yellow highlight indicates that the compound was detected at a concentration above its respective DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill or Soil.**  
SVOCs analyzed by USEPA Method 8270  
Metals analyzed by USEPA Method 6010/7471  
Cyanide analyzed by USEPA Method 9012  
PCBs analyzed by USEPA Method 8082  
Pesticides analyzed by USEPA Method 8081  
NL indicates Not Listed  
J indicates an estimated value

**Table**
**Request to Reuse - Interior Plumbing Trench Spoils Sampled**
**Former Wollensack Optical Site - #C828209**
**872 & 886 Hudson Avenue, Rochester, NY**
**Summary of Targeted Compounds in Soil**
**December 17, 2019**
**LaBella Project #2182208**

|                                                           |                       |          |
|-----------------------------------------------------------|-----------------------|----------|
| <b>SAMPLE ID</b>                                          | <b>COMP-01-121719</b> |          |
| <b>SAMPLING DATE</b>                                      | <b>12/17/2019</b>     |          |
| <b>SAMPLE DEPTH (FT BGS)</b>                              | <b>NA</b>             |          |
| <b>ANALYTE</b>                                            | <b>Conc</b>           | <b>Q</b> |
| <b>Perfluorinated Alkyl Acids by Isotope Dilution</b>     |                       |          |
| Perfluorobutanoic Acid (PFBA)                             | <b>0.03</b>           | J        |
| Perfluoropentanoic Acid (PFPeA)                           | 0.051                 | U        |
| Perfluorobutanesulfonic Acid (PFBS)                       | 0.043                 | U        |
| Perfluorohexanoic Acid (PFHxA)                            | 0.058                 | U        |
| Perfluoroheptanoic Acid (PFHpA)                           | 0.05                  | U        |
| Perfluorohexanesulfonic Acid (PFHxS)                      | 0.067                 | U        |
| Perfluorooctanoic Acid (PFOA)                             | <b>0.061</b>          | J        |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)         | 0.198                 | U        |
| Perfluoroheptanesulfonic Acid (PFHpS)                     | 0.151                 | U        |
| Perfluorononanoic Acid (PFNA)                             | 0.083                 | U        |
| Perfluorooctanesulfonic Acid (PFOS)                       | 0.144                 | U        |
| Perfluorodecanoic Acid (PFDA)                             | 0.074                 | U        |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)         | 0.317                 | U        |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | 0.223                 | U        |
| Perfluoroundecanoic Acid (PFUnA)                          | 0.052                 | U        |
| Perfluorodecanesulfonic Acid (PFDS)                       | 0.169                 | U        |
| Perfluorooctanesulfonamide (FOSA)                         | 0.108                 | U        |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | 0.093                 | U        |
| Perfluorododecanoic Acid (PFDoA)                          | 0.077                 | U        |
| Perfluorotridecanoic Acid (PFTrDA)                        | 0.226                 | U        |
| Perfluorotetradecanoic Acid (PFTA)                        | 0.06                  | U        |
| PFOA/PFOS, Total                                          | <b>0.061</b>          | J        |
| PFAS, Total                                               | <b>0.091</b>          | J        |

**NOTES:**

All values displayed in micrograms per kilogram (ug/kg) or parts per billion (ppb)

U indicates compound was not detected above the indicated laboratory method detection limit (MDL).

Bold font indicates the compound was detected above its respective MDL.

PFAS analyzed by USEPA Method modified 537.

J indicates an estimated value.



## ANALYTICAL REPORT

|                 |                                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| Lab Number:     | L1960377                                                                         |
| Client:         | LaBella Associates, P.C.<br>300 State Street<br>Suite 201<br>Rochester, NY 14614 |
| ATTN:           | Jennifer Gillen                                                                  |
| Phone:          | (585) 454-6110                                                                   |
| Project Name:   | FORMER WOLLENSACK OPTICAL                                                        |
| Project Number: | 2182207                                                                          |
| Report Date:    | 01/23/20                                                                         |

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b>    | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|-------------------------------|---------------------------------|---------------------|
| L1960377-01                | DIS-01-121719    | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/17/19 11:00                  | 12/17/19            |
| L1960377-02                | DIS-02-121719    | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/17/19 11:30                  | 12/17/19            |
| L1960377-03                | COMP-01-121719   | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/17/19 12:00                  | 12/17/19            |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Case Narrative (continued)

#### Report Submission

January 23, 2020: This final report includes the results of all requested analyses.

December 24, 2019: This is a preliminary report.

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

#### Total Metals

L1960377-03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 01/23/20

# ORGANICS

# **VOLATILES**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-01  
**Client ID:** DIS-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260C  
**Analytical Date:** 12/23/19 10:14  
**Analyst:** JC  
**Percent Solids:** 83%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 5.3  | 2.4  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloroform                                          | 0.15   | J         | ug/kg | 1.6  | 0.15 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.0  | 0.24 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.0  | 0.13 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.0  | 0.28 | 1               |
| Tetrachloroethene                                   | ND     |           | ug/kg | 0.53 | 0.21 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.53 | 0.13 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.2  | 0.73 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.0  | 0.27 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.53 | 0.18 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.53 | 0.11 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.0  | 0.29 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.53 | 0.17 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.2  | 0.26 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.53 | 0.17 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.53 | 0.17 | 1               |
| Toluene                                             | ND     |           | ug/kg | 1.0  | 0.57 | 1               |
| Ethylbenzene                                        | ND     |           | ug/kg | 1.0  | 0.15 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.2  | 0.98 | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.1  | 0.61 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.0  | 0.35 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.1  | 0.48 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.0  | 0.25 | 1               |
| trans-1,2-Dichloroethene                            | ND     |           | ug/kg | 1.6  | 0.14 | 1               |
| Trichloroethene                                     | 2.3    |           | ug/kg | 0.53 | 0.14 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1  | 0.15 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-01  
**Client ID:** DIS-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1 | 0.16 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.1 | 0.18 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.1 | 0.21 | 1               |
| p/m-Xylene                                          | ND     |           | ug/kg | 2.1 | 0.59 | 1               |
| o-Xylene                                            | ND     |           | ug/kg | 1.0 | 0.31 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.0 | 0.18 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.0 | 0.21 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 10  | 0.96 | 1               |
| Acetone                                             | 35     |           | ug/kg | 10  | 5.1  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 10  | 4.8  | 1               |
| 2-Butanone                                          | 4.2    | J         | ug/kg | 10  | 2.3  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 10  | 1.3  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 10  | 1.2  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.1 | 0.22 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.0 | 0.29 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.2 | 1.0  | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.0 | 0.11 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.1 | 0.34 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.1 | 0.29 | 1               |
| Methyl Acetate                                      | ND     |           | ug/kg | 4.2 | 1.0  | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 10  | 0.57 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 84  | 37.  | 1               |
| Freon-113                                           | ND     |           | ug/kg | 4.2 | 0.73 | 1               |
| Methyl cyclohexane                                  | ND     |           | ug/kg | 4.2 | 0.63 | 1               |

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101        |           | 70-130              |
| Toluene-d8            | 97         |           | 70-130              |
| 4-Bromofluorobenzene  | 101        |           | 70-130              |
| Dibromofluoromethane  | 102        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS**

Lab ID: L1960377-02  
 Client ID: DIS-02-121719  
 Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Date Collected: 12/17/19 11:30  
 Date Received: 12/17/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 10:39  
 Analyst: JC  
 Percent Solids: 85%

| Parameter                                           | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                                  | ND     |           | ug/kg | 6.0  | 2.7  | 1               |
| 1,1-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloroform                                          | ND     |           | ug/kg | 1.8  | 0.17 | 1               |
| Carbon tetrachloride                                | ND     |           | ug/kg | 1.2  | 0.27 | 1               |
| 1,2-Dichloropropane                                 | ND     |           | ug/kg | 1.2  | 0.15 | 1               |
| Dibromochloromethane                                | ND     |           | ug/kg | 1.2  | 0.17 | 1               |
| 1,1,2-Trichloroethane                               | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| Tetrachloroethene                                   | 0.53   | J         | ug/kg | 0.60 | 0.23 | 1               |
| Chlorobenzene                                       | ND     |           | ug/kg | 0.60 | 0.15 | 1               |
| Trichlorofluoromethane                              | ND     |           | ug/kg | 4.8  | 0.83 | 1               |
| 1,2-Dichloroethane                                  | ND     |           | ug/kg | 1.2  | 0.31 | 1               |
| 1,1,1-Trichloroethane                               | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Bromodichloromethane                                | ND     |           | ug/kg | 0.60 | 0.13 | 1               |
| trans-1,3-Dichloropropene                           | ND     |           | ug/kg | 1.2  | 0.32 | 1               |
| cis-1,3-Dichloropropene                             | ND     |           | ug/kg | 0.60 | 0.19 | 1               |
| Bromoform                                           | ND     |           | ug/kg | 4.8  | 0.29 | 1               |
| 1,1,2,2-Tetrachloroethane                           | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Benzene                                             | ND     |           | ug/kg | 0.60 | 0.20 | 1               |
| Toluene                                             | 1.3    |           | ug/kg | 1.2  | 0.65 | 1               |
| Ethylbenzene                                        | 1.2    |           | ug/kg | 1.2  | 0.17 | 1               |
| Chloromethane                                       | ND     |           | ug/kg | 4.8  | 1.1  | 1               |
| Bromomethane                                        | ND     |           | ug/kg | 2.4  | 0.69 | 1               |
| Vinyl chloride                                      | ND     |           | ug/kg | 1.2  | 0.40 | 1               |
| Chloroethane                                        | ND     |           | ug/kg | 2.4  | 0.54 | 1               |
| 1,1-Dichloroethene                                  | ND     |           | ug/kg | 1.2  | 0.28 | 1               |
| trans-1,2-Dichloroethene                            | 0.25   | J         | ug/kg | 1.8  | 0.16 | 1               |
| Trichloroethene                                     | 140    |           | ug/kg | 0.60 | 0.16 | 1               |
| 1,2-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4  | 0.17 | 1               |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-02  
**Client ID:** DIS-02-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:30  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                           | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|-----------------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4 | 0.18 | 1               |
| 1,4-Dichlorobenzene                                 | ND     |           | ug/kg | 2.4 | 0.20 | 1               |
| Methyl tert butyl ether                             | ND     |           | ug/kg | 2.4 | 0.24 | 1               |
| p/m-Xylene                                          | 3.9    |           | ug/kg | 2.4 | 0.67 | 1               |
| o-Xylene                                            | 2.1    |           | ug/kg | 1.2 | 0.35 | 1               |
| cis-1,2-Dichloroethene                              | ND     |           | ug/kg | 1.2 | 0.21 | 1               |
| Styrene                                             | ND     |           | ug/kg | 1.2 | 0.23 | 1               |
| Dichlorodifluoromethane                             | ND     |           | ug/kg | 12  | 1.1  | 1               |
| Acetone                                             | 14     |           | ug/kg | 12  | 5.7  | 1               |
| Carbon disulfide                                    | ND     |           | ug/kg | 12  | 5.4  | 1               |
| 2-Butanone                                          | ND     |           | ug/kg | 12  | 2.6  | 1               |
| 4-Methyl-2-pentanone                                | ND     |           | ug/kg | 12  | 1.5  | 1               |
| 2-Hexanone                                          | ND     |           | ug/kg | 12  | 1.4  | 1               |
| Bromochloromethane                                  | ND     |           | ug/kg | 2.4 | 0.24 | 1               |
| 1,2-Dibromoethane                                   | ND     |           | ug/kg | 1.2 | 0.33 | 1               |
| 1,2-Dibromo-3-chloropropane                         | ND     |           | ug/kg | 3.6 | 1.2  | 1               |
| Isopropylbenzene                                    | ND     |           | ug/kg | 1.2 | 0.13 | 1               |
| 1,2,3-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.38 | 1               |
| 1,2,4-Trichlorobenzene                              | ND     |           | ug/kg | 2.4 | 0.32 | 1               |
| Methyl Acetate                                      | ND     |           | ug/kg | 4.8 | 1.1  | 1               |
| Cyclohexane                                         | ND     |           | ug/kg | 12  | 0.65 | 1               |
| 1,4-Dioxane                                         | ND     |           | ug/kg | 96  | 42.  | 1               |
| Freon-113                                           | ND     |           | ug/kg | 4.8 | 0.83 | 1               |
| Methyl cyclohexane                                  | 1.3    | J         | ug/kg | 4.8 | 0.72 | 1               |

## Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 103        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 104        |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 07:19  
 Analyst: MV

| Parameter                                                                                   | Result | Qualifier | Units | RL   | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1324208-5 |        |           |       |      |      |
| Methylene chloride                                                                          | ND     |           | ug/kg | 5.0  | 2.3  |
| 1,1-Dichloroethane                                                                          | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloroform                                                                                  | ND     |           | ug/kg | 1.5  | 0.14 |
| Carbon tetrachloride                                                                        | ND     |           | ug/kg | 1.0  | 0.23 |
| 1,2-Dichloropropane                                                                         | ND     |           | ug/kg | 1.0  | 0.12 |
| Dibromochloromethane                                                                        | ND     |           | ug/kg | 1.0  | 0.14 |
| 1,1,2-Trichloroethane                                                                       | ND     |           | ug/kg | 1.0  | 0.27 |
| Tetrachloroethene                                                                           | ND     |           | ug/kg | 0.50 | 0.20 |
| Chlorobenzene                                                                               | ND     |           | ug/kg | 0.50 | 0.13 |
| Trichlorofluoromethane                                                                      | ND     |           | ug/kg | 4.0  | 0.70 |
| 1,2-Dichloroethane                                                                          | ND     |           | ug/kg | 1.0  | 0.26 |
| 1,1,1-Trichloroethane                                                                       | ND     |           | ug/kg | 0.50 | 0.17 |
| Bromodichloromethane                                                                        | ND     |           | ug/kg | 0.50 | 0.11 |
| trans-1,3-Dichloropropene                                                                   | ND     |           | ug/kg | 1.0  | 0.27 |
| cis-1,3-Dichloropropene                                                                     | ND     |           | ug/kg | 0.50 | 0.16 |
| Bromoform                                                                                   | ND     |           | ug/kg | 4.0  | 0.25 |
| 1,1,1,2-Tetrachloroethane                                                                   | ND     |           | ug/kg | 0.50 | 0.17 |
| Benzene                                                                                     | ND     |           | ug/kg | 0.50 | 0.17 |
| Toluene                                                                                     | ND     |           | ug/kg | 1.0  | 0.54 |
| Ethylbenzene                                                                                | ND     |           | ug/kg | 1.0  | 0.14 |
| Chloromethane                                                                               | ND     |           | ug/kg | 4.0  | 0.93 |
| Bromomethane                                                                                | ND     |           | ug/kg | 2.0  | 0.58 |
| Vinyl chloride                                                                              | ND     |           | ug/kg | 1.0  | 0.34 |
| Chloroethane                                                                                | ND     |           | ug/kg | 2.0  | 0.45 |
| 1,1-Dichloroethene                                                                          | ND     |           | ug/kg | 1.0  | 0.24 |
| trans-1,2-Dichloroethene                                                                    | ND     |           | ug/kg | 1.5  | 0.14 |
| Trichloroethene                                                                             | ND     |           | ug/kg | 0.50 | 0.14 |
| 1,2-Dichlorobenzene                                                                         | ND     |           | ug/kg | 2.0  | 0.14 |
| 1,3-Dichlorobenzene                                                                         | ND     |           | ug/kg | 2.0  | 0.15 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 12/23/19 07:19  
 Analyst: MV

| Parameter                                                                                   | Result | Qualifier | Units | RL  | MDL  |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1324208-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                         | ND     |           | ug/kg | 2.0 | 0.17 |
| Methyl tert butyl ether                                                                     | 0.25   | J         | ug/kg | 2.0 | 0.20 |
| p/m-Xylene                                                                                  | ND     |           | ug/kg | 2.0 | 0.56 |
| o-Xylene                                                                                    | ND     |           | ug/kg | 1.0 | 0.29 |
| cis-1,2-Dichloroethene                                                                      | ND     |           | ug/kg | 1.0 | 0.18 |
| Styrene                                                                                     | ND     |           | ug/kg | 1.0 | 0.20 |
| Dichlorodifluoromethane                                                                     | ND     |           | ug/kg | 10  | 0.92 |
| Acetone                                                                                     | ND     |           | ug/kg | 10  | 4.8  |
| Carbon disulfide                                                                            | ND     |           | ug/kg | 10  | 4.6  |
| 2-Butanone                                                                                  | ND     |           | ug/kg | 10  | 2.2  |
| 4-Methyl-2-pentanone                                                                        | ND     |           | ug/kg | 10  | 1.3  |
| 2-Hexanone                                                                                  | ND     |           | ug/kg | 10  | 1.2  |
| Bromochloromethane                                                                          | ND     |           | ug/kg | 2.0 | 0.20 |
| 1,2-Dibromoethane                                                                           | ND     |           | ug/kg | 1.0 | 0.28 |
| 1,2-Dibromo-3-chloropropane                                                                 | ND     |           | ug/kg | 3.0 | 1.0  |
| Isopropylbenzene                                                                            | ND     |           | ug/kg | 1.0 | 0.11 |
| 1,2,3-Trichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.32 |
| 1,2,4-Trichlorobenzene                                                                      | ND     |           | ug/kg | 2.0 | 0.27 |
| Methyl Acetate                                                                              | ND     |           | ug/kg | 4.0 | 0.95 |
| Cyclohexane                                                                                 | ND     |           | ug/kg | 10  | 0.54 |
| 1,4-Dioxane                                                                                 | ND     |           | ug/kg | 80  | 35.  |
| Freon-113                                                                                   | ND     |           | ug/kg | 4.0 | 0.69 |
| Methyl cyclohexane                                                                          | ND     |           | ug/kg | 4.0 | 0.60 |

#### Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 12/23/19 07:19  
Analyst: MV

| Parameter                                                                                   | Result | Qualifier | Units | RL | MDL |
|---------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1324208-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 93        |           | 70-130                 |
| Toluene-d8            | 97        |           | 70-130                 |
| 4-Bromofluorobenzene  | 100       |           | 70-130                 |
| Dibromofluoromethane  | 93        |           | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1960377

**Project Number:** 2182207

**Report Date:** 01/23/20

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1324208-3 WG1324208-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                             | 89               |      | 88                |      | 70-130              | 1   |      | 30            |
| 1,1-Dichloroethane                                                                                             | 96               |      | 95                |      | 70-130              | 1   |      | 30            |
| Chloroform                                                                                                     | 96               |      | 94                |      | 70-130              | 2   |      | 30            |
| Carbon tetrachloride                                                                                           | 105              |      | 102               |      | 70-130              | 3   |      | 30            |
| 1,2-Dichloropropane                                                                                            | 97               |      | 95                |      | 70-130              | 2   |      | 30            |
| Dibromochloromethane                                                                                           | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,1,2-Trichloroethane                                                                                          | 91               |      | 92                |      | 70-130              | 1   |      | 30            |
| Tetrachloroethene                                                                                              | 107              |      | 106               |      | 70-130              | 1   |      | 30            |
| Chlorobenzene                                                                                                  | 97               |      | 97                |      | 70-130              | 0   |      | 30            |
| Trichlorofluoromethane                                                                                         | 102              |      | 99                |      | 70-139              | 3   |      | 30            |
| 1,2-Dichloroethane                                                                                             | 90               |      | 89                |      | 70-130              | 1   |      | 30            |
| 1,1,1-Trichloroethane                                                                                          | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| Bromodichloromethane                                                                                           | 95               |      | 94                |      | 70-130              | 1   |      | 30            |
| trans-1,3-Dichloropropene                                                                                      | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| cis-1,3-Dichloropropene                                                                                        | 104              |      | 103               |      | 70-130              | 1   |      | 30            |
| Bromoform                                                                                                      | 98               |      | 99                |      | 70-130              | 1   |      | 30            |
| 1,1,2,2-Tetrachloroethane                                                                                      | 89               |      | 89                |      | 70-130              | 0   |      | 30            |
| Benzene                                                                                                        | 99               |      | 97                |      | 70-130              | 2   |      | 30            |
| Toluene                                                                                                        | 99               |      | 98                |      | 70-130              | 1   |      | 30            |
| Ethylbenzene                                                                                                   | 106              |      | 103               |      | 70-130              | 3   |      | 30            |
| Chloromethane                                                                                                  | 92               |      | 91                |      | 52-130              | 1   |      | 30            |
| Bromomethane                                                                                                   | 100              |      | 95                |      | 57-147              | 5   |      | 30            |
| Vinyl chloride                                                                                                 | 96               |      | 92                |      | 67-130              | 4   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1324208-3 WG1324208-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                   | 91               |      | 86                |      | 50-151              | 6   |      | 30            |
| 1,1-Dichloroethene                                                                                             | 105              |      | 103               |      | 65-135              | 2   |      | 30            |
| trans-1,2-Dichloroethene                                                                                       | 103              |      | 101               |      | 70-130              | 2   |      | 30            |
| Trichloroethene                                                                                                | 102              |      | 99                |      | 70-130              | 3   |      | 30            |
| 1,2-Dichlorobenzene                                                                                            | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,3-Dichlorobenzene                                                                                            | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,4-Dichlorobenzene                                                                                            | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| Methyl tert butyl ether                                                                                        | 99               |      | 99                |      | 66-130              | 0   |      | 30            |
| p/m-Xylene                                                                                                     | 110              |      | 109               |      | 70-130              | 1   |      | 30            |
| o-Xylene                                                                                                       | 109              |      | 108               |      | 70-130              | 1   |      | 30            |
| cis-1,2-Dichloroethene                                                                                         | 102              |      | 100               |      | 70-130              | 2   |      | 30            |
| Styrene                                                                                                        | 110              |      | 108               |      | 70-130              | 2   |      | 30            |
| Dichlorodifluoromethane                                                                                        | 98               |      | 96                |      | 30-146              | 2   |      | 30            |
| Acetone                                                                                                        | 85               |      | 82                |      | 54-140              | 4   |      | 30            |
| Carbon disulfide                                                                                               | 92               |      | 89                |      | 59-130              | 3   |      | 30            |
| 2-Butanone                                                                                                     | 91               |      | 89                |      | 70-130              | 2   |      | 30            |
| 4-Methyl-2-pentanone                                                                                           | 99               |      | 99                |      | 70-130              | 0   |      | 30            |
| 2-Hexanone                                                                                                     | 98               |      | 96                |      | 70-130              | 2   |      | 30            |
| Bromochloromethane                                                                                             | 98               |      | 98                |      | 70-130              | 0   |      | 30            |
| 1,2-Dibromoethane                                                                                              | 96               |      | 97                |      | 70-130              | 1   |      | 30            |
| 1,2-Dibromo-3-chloropropane                                                                                    | 97               |      | 98                |      | 68-130              | 1   |      | 30            |
| Isopropylbenzene                                                                                               | 110              |      | 110               |      | 70-130              | 0   |      | 30            |
| 1,2,3-Trichlorobenzene                                                                                         | 103              |      | 106               |      | 70-130              | 3   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1324208-3 WG1324208-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                         | 108              |      | 110               |      | 70-130              | 2   |      | 30            |
| Methyl Acetate                                                                                                 | 89               |      | 88                |      | 51-146              | 1   |      | 30            |
| Cyclohexane                                                                                                    | 112              |      | 110               |      | 59-142              | 2   |      | 30            |
| 1,4-Dioxane                                                                                                    | 99               |      | 107               |      | 65-136              | 8   |      | 30            |
| Freon-113                                                                                                      | 106              |      | 104               |      | 50-139              | 2   |      | 30            |
| Methyl cyclohexane                                                                                             | 114              |      | 111               |      | 70-130              | 3   |      | 30            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 91               |      | 90                |      | 70-130                 |
| Toluene-d8            | 98               |      | 98                |      | 70-130                 |
| 4-Bromofluorobenzene  | 100              |      | 101               |      | 70-130                 |
| Dibromofluoromethane  | 96               |      | 97                |      | 70-130                 |

# SEMIVOLATILES



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270D  
**Analytical Date:** 12/21/19 18:08  
**Analyst:** IM  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 12:24

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Acenaphthene                                     | ND     |           | ug/kg | 160 | 20. | 1               |
| Hexachlorobenzene                                | ND     |           | ug/kg | 120 | 22. | 1               |
| Bis(2-chloroethyl)ether                          | ND     |           | ug/kg | 180 | 27. | 1               |
| 2-Chloronaphthalene                              | ND     |           | ug/kg | 200 | 20. | 1               |
| 3,3'-Dichlorobenzidine                           | ND     |           | ug/kg | 200 | 53. | 1               |
| 2,4-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 40. | 1               |
| 2,6-Dinitrotoluene                               | ND     |           | ug/kg | 200 | 34. | 1               |
| Fluoranthene                                     | ND     |           | ug/kg | 120 | 23. | 1               |
| 4-Chlorophenyl phenyl ether                      | ND     |           | ug/kg | 200 | 21. | 1               |
| 4-Bromophenyl phenyl ether                       | ND     |           | ug/kg | 200 | 30. | 1               |
| Bis(2-chloroisopropyl)ether                      | ND     |           | ug/kg | 240 | 34. | 1               |
| Bis(2-chloroethoxy)methane                       | ND     |           | ug/kg | 210 | 20. | 1               |
| Hexachlorobutadiene                              | ND     |           | ug/kg | 200 | 29. | 1               |
| Hexachlorocyclopentadiene                        | ND     |           | ug/kg | 570 | 180 | 1               |
| Hexachloroethane                                 | ND     |           | ug/kg | 160 | 32. | 1               |
| Isophorone                                       | ND     |           | ug/kg | 180 | 26. | 1               |
| Naphthalene                                      | ND     |           | ug/kg | 200 | 24. | 1               |
| Nitrobenzene                                     | ND     |           | ug/kg | 180 | 29. | 1               |
| NDPA/DPA                                         | ND     |           | ug/kg | 160 | 23. | 1               |
| n-Nitrosodi-n-propylamine                        | ND     |           | ug/kg | 200 | 31. | 1               |
| Bis(2-ethylhexyl)phthalate                       | ND     |           | ug/kg | 200 | 69. | 1               |
| Butyl benzyl phthalate                           | ND     |           | ug/kg | 200 | 50. | 1               |
| Di-n-butylphthalate                              | ND     |           | ug/kg | 200 | 38. | 1               |
| Di-n-octylphthalate                              | ND     |           | ug/kg | 200 | 68. | 1               |
| Diethyl phthalate                                | ND     |           | ug/kg | 200 | 18. | 1               |
| Dimethyl phthalate                               | ND     |           | ug/kg | 200 | 42. | 1               |
| Benzo(a)anthracene                               | ND     |           | ug/kg | 120 | 22. | 1               |
| Benzo(a)pyrene                                   | ND     |           | ug/kg | 160 | 48. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS****Lab ID:** L1960377-03**Date Collected:** 12/17/19 12:00**Client ID:** COMP-01-121719**Date Received:** 12/17/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Benzo(b)fluoranthene                             | ND     |           | ug/kg | 120 | 33. | 1               |
| Benzo(k)fluoranthene                             | ND     |           | ug/kg | 120 | 32. | 1               |
| Chrysene                                         | 46     | J         | ug/kg | 120 | 21. | 1               |
| Acenaphthylene                                   | ND     |           | ug/kg | 160 | 31. | 1               |
| Anthracene                                       | ND     |           | ug/kg | 120 | 39. | 1               |
| Benzo(ghi)perylene                               | ND     |           | ug/kg | 160 | 23. | 1               |
| Fluorene                                         | ND     |           | ug/kg | 200 | 19. | 1               |
| Phenanthrene                                     | 32     | J         | ug/kg | 120 | 24. | 1               |
| Dibenzo(a,h)anthracene                           | ND     |           | ug/kg | 120 | 23. | 1               |
| Indeno(1,2,3-cd)pyrene                           | ND     |           | ug/kg | 160 | 28. | 1               |
| Pyrene                                           | 24     | J         | ug/kg | 120 | 20. | 1               |
| Biphenyl                                         | ND     |           | ug/kg | 450 | 46. | 1               |
| 4-Chloroaniline                                  | ND     |           | ug/kg | 200 | 36. | 1               |
| 2-Nitroaniline                                   | ND     |           | ug/kg | 200 | 38. | 1               |
| 3-Nitroaniline                                   | ND     |           | ug/kg | 200 | 37. | 1               |
| 4-Nitroaniline                                   | ND     |           | ug/kg | 200 | 82. | 1               |
| Dibenzofuran                                     | ND     |           | ug/kg | 200 | 19. | 1               |
| 2-Methylnaphthalene                              | ND     |           | ug/kg | 240 | 24. | 1               |
| 1,2,4,5-Tetrachlorobenzene                       | ND     |           | ug/kg | 200 | 21. | 1               |
| Acetophenone                                     | ND     |           | ug/kg | 200 | 24. | 1               |
| 2,4,6-Trichlorophenol                            | ND     |           | ug/kg | 120 | 38. | 1               |
| p-Chloro-m-cresol                                | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Chlorophenol                                   | ND     |           | ug/kg | 200 | 23. | 1               |
| 2,4-Dichlorophenol                               | ND     |           | ug/kg | 180 | 32. | 1               |
| 2,4-Dimethylphenol                               | ND     |           | ug/kg | 200 | 66. | 1               |
| 2-Nitrophenol                                    | ND     |           | ug/kg | 430 | 75. | 1               |
| 4-Nitrophenol                                    | ND     |           | ug/kg | 280 | 81. | 1               |
| 2,4-Dinitrophenol                                | ND     |           | ug/kg | 950 | 92. | 1               |
| 4,6-Dinitro-o-cresol                             | ND     |           | ug/kg | 520 | 95. | 1               |
| Pentachlorophenol                                | ND     |           | ug/kg | 160 | 44. | 1               |
| Phenol                                           | ND     |           | ug/kg | 200 | 30. | 1               |
| 2-Methylphenol                                   | ND     |           | ug/kg | 200 | 31. | 1               |
| 3-Methylphenol/4-Methylphenol                    | ND     |           | ug/kg | 280 | 31. | 1               |
| 2,4,5-Trichlorophenol                            | ND     |           | ug/kg | 200 | 38. | 1               |
| Carbazole                                        | ND     |           | ug/kg | 200 | 19. | 1               |
| Atrazine                                         | ND     |           | ug/kg | 160 | 70. | 1               |
| Benzaldehyde                                     | ND     |           | ug/kg | 260 | 54. | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

Sample Depth:

| Parameter                                        | Result | Qualifier | Units | RL  | MDL | Dilution Factor |
|--------------------------------------------------|--------|-----------|-------|-----|-----|-----------------|
| Semivolatile Organics by GC/MS - Westborough Lab |        |           |       |     |     |                 |
| Caprolactam                                      | ND     |           | ug/kg | 200 | 60. | 1               |
| 2,3,4,6-Tetrachlorophenol                        | ND     |           | ug/kg | 200 | 40. | 1               |
| 1,4-Dioxane                                      | ND     |           | ug/kg | 30  | 9.1 | 1               |

## Tentatively Identified Compounds

|                     |     |   |       |   |
|---------------------|-----|---|-------|---|
| Total TIC Compounds | 162 | J | ug/kg | 1 |
| Unknown Alkane      | 162 | J | ug/kg | 1 |

| Surrogate            | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol       | 96         |           | 25-120              |
| Phenol-d6            | 96         |           | 10-120              |
| Nitrobenzene-d5      | 79         |           | 23-120              |
| 2-Fluorobiphenyl     | 70         |           | 30-120              |
| 2,4,6-Tribromophenol | 96         |           | 10-136              |
| 4-Terphenyl-d14      | 67         |           | 18-120              |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/22/20 23:13  
**Analyst:** JW  
**Percent Solids:** 83%

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 12/27/19 11:22

| Parameter                                                      | Result | Qualifier | Units | RL   | MDL   | Dilution Factor |
|----------------------------------------------------------------|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab |        |           |       |      |       |                 |
| Perfluorobutanoic Acid (PFBA)                                  | 0.030  | J         | ug/kg | 1.10 | 0.025 | 1               |
| Perfluoropentanoic Acid (PFPeA)                                | ND     |           | ug/kg | 1.10 | 0.051 | 1               |
| Perfluorobutanesulfonic Acid (PFBS)                            | ND     |           | ug/kg | 1.10 | 0.043 | 1               |
| Perfluorohexanoic Acid (PFHxA)                                 | ND     |           | ug/kg | 1.10 | 0.058 | 1               |
| Perfluoroheptanoic Acid (PFHpA)                                | ND     |           | ug/kg | 1.10 | 0.050 | 1               |
| Perfluorohexanesulfonic Acid (PFHxS)                           | ND     |           | ug/kg | 1.10 | 0.067 | 1               |
| Perfluorooctanoic Acid (PFOA)                                  | 0.061  | J         | ug/kg | 1.10 | 0.046 | 1               |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)              | ND     |           | ug/kg | 1.10 | 0.198 | 1               |
| Perfluoroheptanesulfonic Acid (PFHpS)                          | ND     |           | ug/kg | 1.10 | 0.151 | 1               |
| Perfluorononanoic Acid (PFNA)                                  | ND     |           | ug/kg | 1.10 | 0.083 | 1               |
| Perfluorooctanesulfonic Acid (PFOS)                            | ND     |           | ug/kg | 1.10 | 0.144 | 1               |
| Perfluorodecanoic Acid (PFDA)                                  | ND     |           | ug/kg | 1.10 | 0.074 | 1               |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)              | ND     |           | ug/kg | 1.10 | 0.317 | 1               |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)      | ND     |           | ug/kg | 1.10 | 0.223 | 1               |
| Perfluoroundecanoic Acid (PFUnA)                               | ND     |           | ug/kg | 1.10 | 0.052 | 1               |
| Perfluorodecanesulfonic Acid (PFDS)                            | ND     |           | ug/kg | 1.10 | 0.169 | 1               |
| Perfluorooctanesulfonamide (FOSA)                              | ND     |           | ug/kg | 1.10 | 0.108 | 1               |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)       | ND     |           | ug/kg | 1.10 | 0.093 | 1               |
| Perfluorododecanoic Acid (PFDoA)                               | ND     |           | ug/kg | 1.10 | 0.077 | 1               |
| Perfluorotridecanoic Acid (PFTrDA)                             | ND     |           | ug/kg | 1.10 | 0.226 | 1               |
| Perfluorotetradecanoic Acid (PFTA)                             | ND     |           | ug/kg | 1.10 | 0.060 | 1               |
| PFOA/PFOS, Total                                               | 0.061  | J         | ug/kg | 1.10 | 0.046 | 1               |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                                              | Result     | Qualifier | Units | RL        | MDL                 | Dilution Factor |
|------------------------------------------------------------------------|------------|-----------|-------|-----------|---------------------|-----------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab         |            |           |       |           |                     |                 |
| Surrogate (Extracted Internal Standard)                                | % Recovery |           |       | Qualifier | Acceptance Criteria |                 |
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 94         |           |       |           | 60-153              |                 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 95         |           |       |           | 65-182              |                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 88         |           |       |           | 70-151              |                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 87         |           |       |           | 61-147              |                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 94         |           |       |           | 62-149              |                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 98         |           |       |           | 63-166              |                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 95         |           |       |           | 62-152              |                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 93         |           |       |           | 32-182              |                 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 98         |           |       |           | 61-154              |                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 93         |           |       |           | 65-151              |                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 97         |           |       |           | 65-150              |                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 101        |           |       |           | 25-186              |                 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 53         |           |       |           | 45-137              |                 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 105        |           |       |           | 64-158              |                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 15         |           |       |           | 1-125               |                 |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 67         |           |       |           | 42-136              |                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 87         |           |       |           | 56-148              |                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 81         |           |       |           | 26-160              |                 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 18:01  
**Analyst:** ALS

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/18/19 18:43

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1322459-1 |        |           |       |     |     |
| Acenaphthene                                                                          | ND     |           | ug/kg | 130 | 17. |
| Hexachlorobenzene                                                                     | ND     |           | ug/kg | 100 | 18. |
| Bis(2-chloroethyl)ether                                                               | ND     |           | ug/kg | 150 | 22. |
| 2-Chloronaphthalene                                                                   | ND     |           | ug/kg | 160 | 16. |
| 3,3'-Dichlorobenzidine                                                                | ND     |           | ug/kg | 160 | 44. |
| 2,4-Dinitrotoluene                                                                    | ND     |           | ug/kg | 160 | 33. |
| 2,6-Dinitrotoluene                                                                    | ND     |           | ug/kg | 160 | 28. |
| Fluoranthene                                                                          | ND     |           | ug/kg | 100 | 19. |
| 4-Chlorophenyl phenyl ether                                                           | ND     |           | ug/kg | 160 | 18. |
| 4-Bromophenyl phenyl ether                                                            | ND     |           | ug/kg | 160 | 25. |
| Bis(2-chloroisopropyl)ether                                                           | ND     |           | ug/kg | 200 | 28. |
| Bis(2-chloroethoxy)methane                                                            | ND     |           | ug/kg | 180 | 17. |
| Hexachlorobutadiene                                                                   | ND     |           | ug/kg | 160 | 24. |
| Hexachlorocyclopentadiene                                                             | ND     |           | ug/kg | 470 | 150 |
| Hexachloroethane                                                                      | ND     |           | ug/kg | 130 | 27. |
| Isophorone                                                                            | ND     |           | ug/kg | 150 | 22. |
| Naphthalene                                                                           | ND     |           | ug/kg | 160 | 20. |
| Nitrobenzene                                                                          | ND     |           | ug/kg | 150 | 24. |
| NDPA/DPA                                                                              | ND     |           | ug/kg | 130 | 19. |
| n-Nitrosodi-n-propylamine                                                             | ND     |           | ug/kg | 160 | 26. |
| Bis(2-ethylhexyl)phthalate                                                            | ND     |           | ug/kg | 160 | 57. |
| Butyl benzyl phthalate                                                                | ND     |           | ug/kg | 160 | 42. |
| Di-n-butylphthalate                                                                   | ND     |           | ug/kg | 160 | 31. |
| Di-n-octylphthalate                                                                   | ND     |           | ug/kg | 160 | 56. |
| Diethyl phthalate                                                                     | ND     |           | ug/kg | 160 | 15. |
| Dimethyl phthalate                                                                    | ND     |           | ug/kg | 160 | 35. |
| Benzo(a)anthracene                                                                    | ND     |           | ug/kg | 100 | 19. |
| Benzo(a)pyrene                                                                        | ND     |           | ug/kg | 130 | 40. |
| Benzo(b)fluoranthene                                                                  | ND     |           | ug/kg | 100 | 28. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 18:01  
**Analyst:** ALS

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/18/19 18:43

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1322459-1 |        |           |       |     |     |
| Benzo(k)fluoranthene                                                                  | ND     |           | ug/kg | 100 | 26. |
| Chrysene                                                                              | ND     |           | ug/kg | 100 | 17. |
| Acenaphthylene                                                                        | ND     |           | ug/kg | 130 | 26. |
| Anthracene                                                                            | ND     |           | ug/kg | 100 | 32. |
| Benzo(ghi)perylene                                                                    | ND     |           | ug/kg | 130 | 20. |
| Fluorene                                                                              | ND     |           | ug/kg | 160 | 16. |
| Phenanthrene                                                                          | ND     |           | ug/kg | 100 | 20. |
| Dibenzo(a,h)anthracene                                                                | ND     |           | ug/kg | 100 | 19. |
| Indeno(1,2,3-cd)pyrene                                                                | ND     |           | ug/kg | 130 | 23. |
| Pyrene                                                                                | ND     |           | ug/kg | 100 | 16. |
| Biphenyl                                                                              | ND     |           | ug/kg | 380 | 38. |
| 4-Chloroaniline                                                                       | ND     |           | ug/kg | 160 | 30. |
| 2-Nitroaniline                                                                        | ND     |           | ug/kg | 160 | 32. |
| 3-Nitroaniline                                                                        | ND     |           | ug/kg | 160 | 31. |
| 4-Nitroaniline                                                                        | ND     |           | ug/kg | 160 | 69. |
| Dibenzofuran                                                                          | ND     |           | ug/kg | 160 | 16. |
| 2-Methylnaphthalene                                                                   | ND     |           | ug/kg | 200 | 20. |
| 1,2,4,5-Tetrachlorobenzene                                                            | ND     |           | ug/kg | 160 | 17. |
| Acetophenone                                                                          | ND     |           | ug/kg | 160 | 20. |
| 2,4,6-Trichlorophenol                                                                 | ND     |           | ug/kg | 100 | 31. |
| p-Chloro-m-cresol                                                                     | ND     |           | ug/kg | 160 | 25. |
| 2-Chlorophenol                                                                        | ND     |           | ug/kg | 160 | 20. |
| 2,4-Dichlorophenol                                                                    | ND     |           | ug/kg | 150 | 27. |
| 2,4-Dimethylphenol                                                                    | ND     |           | ug/kg | 160 | 55. |
| 2-Nitrophenol                                                                         | ND     |           | ug/kg | 360 | 62. |
| 4-Nitrophenol                                                                         | ND     |           | ug/kg | 230 | 68. |
| 2,4-Dinitrophenol                                                                     | ND     |           | ug/kg | 800 | 77. |
| 4,6-Dinitro-o-cresol                                                                  | ND     |           | ug/kg | 430 | 80. |
| Pentachlorophenol                                                                     | ND     |           | ug/kg | 130 | 36. |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 12/19/19 18:01  
**Analyst:** ALS

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/18/19 18:43

| Parameter                                                                             | Result | Qualifier | Units | RL  | MDL |
|---------------------------------------------------------------------------------------|--------|-----------|-------|-----|-----|
| Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1322459-1 |        |           |       |     |     |
| Phenol                                                                                | ND     |           | ug/kg | 160 | 25. |
| 2-Methylphenol                                                                        | ND     |           | ug/kg | 160 | 26. |
| 3-Methylphenol/4-Methylphenol                                                         | ND     |           | ug/kg | 240 | 26. |
| 2,4,5-Trichlorophenol                                                                 | ND     |           | ug/kg | 160 | 32. |
| Carbazole                                                                             | ND     |           | ug/kg | 160 | 16. |
| Atrazine                                                                              | ND     |           | ug/kg | 130 | 58. |
| Benzaldehyde                                                                          | ND     |           | ug/kg | 220 | 45. |
| Caprolactam                                                                           | ND     |           | ug/kg | 160 | 50. |
| 2,3,4,6-Tetrachlorophenol                                                             | ND     |           | ug/kg | 160 | 34. |
| 1,4-Dioxane                                                                           | ND     |           | ug/kg | 25  | 7.6 |

**Tentatively Identified Compounds**

No Tentatively Identified Compounds      ND      ug/kg

| Surrogate            | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol       | 79        |           | 25-120              |
| Phenol-d6            | 79        |           | 10-120              |
| Nitrobenzene-d5      | 73        |           | 23-120              |
| 2-Fluorobiphenyl     | 71        |           | 30-120              |
| 2,4,6-Tribromophenol | 89        |           | 10-136              |
| 4-Terphenyl-d14      | 74        |           | 18-120              |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/17/20 09:23  
**Analyst:** JW

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 12/27/19 11:22

| Parameter                                                                                           | Result | Qualifier | Units | RL   | MDL   |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03 Batch: WG1325203-1 |        |           |       |      |       |
| Perfluorobutanoic Acid (PFBA)                                                                       | 0.040  | J         | ug/kg | 1.00 | 0.023 |
| Perfluoropentanoic Acid (PFPeA)                                                                     | ND     |           | ug/kg | 1.00 | 0.046 |
| Perfluorobutanesulfonic Acid (PFBS)                                                                 | ND     |           | ug/kg | 1.00 | 0.039 |
| Perfluorohexanoic Acid (PFHxA)                                                                      | ND     |           | ug/kg | 1.00 | 0.053 |
| Perfluoroheptanoic Acid (PFHpA)                                                                     | ND     |           | ug/kg | 1.00 | 0.045 |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                | ND     |           | ug/kg | 1.00 | 0.061 |
| Perfluorooctanoic Acid (PFOA)                                                                       | ND     |           | ug/kg | 1.00 | 0.042 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                   | ND     |           | ug/kg | 1.00 | 0.180 |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                               | ND     |           | ug/kg | 1.00 | 0.136 |
| Perfluorononanoic Acid (PFNA)                                                                       | ND     |           | ug/kg | 1.00 | 0.075 |
| Perfluorooctanesulfonic Acid (PFOS)                                                                 | ND     |           | ug/kg | 1.00 | 0.130 |
| Perfluorodecanoic Acid (PFDA)                                                                       | ND     |           | ug/kg | 1.00 | 0.067 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                   | ND     |           | ug/kg | 1.00 | 0.287 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                           | ND     |           | ug/kg | 1.00 | 0.202 |
| Perfluoroundecanoic Acid (PFUnA)                                                                    | ND     |           | ug/kg | 1.00 | 0.047 |
| Perfluorodecanesulfonic Acid (PFDS)                                                                 | ND     |           | ug/kg | 1.00 | 0.153 |
| Perfluorooctanesulfonamide (FOSA)                                                                   | ND     |           | ug/kg | 1.00 | 0.098 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                            | 0.256  | J         | ug/kg | 1.00 | 0.085 |
| Perfluorododecanoic Acid (PFDoA)                                                                    | ND     |           | ug/kg | 1.00 | 0.070 |
| Perfluorotridecanoic Acid (PFTrDA)                                                                  | ND     |           | ug/kg | 1.00 | 0.204 |
| Perfluorotetradecanoic Acid (PFTA)                                                                  | ND     |           | ug/kg | 1.00 | 0.054 |
| PFOA/PFOS, Total                                                                                    | ND     |           | ug/kg | 1.00 | 0.042 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis  
Batch Quality Control**

**Analytical Method:** 134,LCMSMS-ID  
**Analytical Date:** 01/17/20 09:23  
**Analyst:** JW

**Extraction Method:** ALPHA 23528  
**Extraction Date:** 12/27/19 11:22

| Parameter                                                                                           | Result | Qualifier | Units | RL | MDL |
|-----------------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 03 Batch: WG1325203-1 |        |           |       |    |     |

| Surrogate (Extracted Internal Standard)                                | %Recovery | Qualifier | Acceptance Criteria |
|------------------------------------------------------------------------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 92        |           | 60-153              |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 110       |           | 65-182              |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 98        |           | 70-151              |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 87        |           | 61-147              |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 95        |           | 62-149              |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 107       |           | 63-166              |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 97        |           | 62-152              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 129       |           | 32-182              |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 102       |           | 61-154              |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 101       |           | 65-151              |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 98        |           | 65-150              |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 129       |           | 25-186              |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 96        |           | 45-137              |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 105       |           | 64-158              |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 23        |           | 1-125               |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NetFOSAA)  | 100       |           | 42-136              |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 94        |           | 56-148              |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 78        |           | 26-160              |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3 |                  |      |                   |      |                     |     |      |               |
| Acenaphthene                                                                                             | 85               |      | 90                |      | 31-137              | 6   |      | 50            |
| Hexachlorobenzene                                                                                        | 92               |      | 100               |      | 40-140              | 8   |      | 50            |
| Bis(2-chloroethyl)ether                                                                                  | 82               |      | 75                |      | 40-140              | 9   |      | 50            |
| 2-Chloronaphthalene                                                                                      | 85               |      | 86                |      | 40-140              | 1   |      | 50            |
| 3,3'-Dichlorobenzidine                                                                                   | 60               |      | 68                |      | 40-140              | 13  |      | 50            |
| 2,4-Dinitrotoluene                                                                                       | 99               |      | 110               |      | 40-132              | 11  |      | 50            |
| 2,6-Dinitrotoluene                                                                                       | 98               |      | 101               |      | 40-140              | 3   |      | 50            |
| Fluoranthene                                                                                             | 87               |      | 96                |      | 40-140              | 10  |      | 50            |
| 4-Chlorophenyl phenyl ether                                                                              | 84               |      | 89                |      | 40-140              | 6   |      | 50            |
| 4-Bromophenyl phenyl ether                                                                               | 89               |      | 96                |      | 40-140              | 8   |      | 50            |
| Bis(2-chloroisopropyl)ether                                                                              | 71               |      | 63                |      | 40-140              | 12  |      | 50            |
| Bis(2-chloroethoxy)methane                                                                               | 84               |      | 79                |      | 40-117              | 6   |      | 50            |
| Hexachlorobutadiene                                                                                      | 81               |      | 76                |      | 40-140              | 6   |      | 50            |
| Hexachlorocyclopentadiene                                                                                | 88               |      | 86                |      | 40-140              | 2   |      | 50            |
| Hexachloroethane                                                                                         | 81               |      | 73                |      | 40-140              | 10  |      | 50            |
| Isophorone                                                                                               | 86               |      | 83                |      | 40-140              | 4   |      | 50            |
| Naphthalene                                                                                              | 87               |      | 84                |      | 40-140              | 4   |      | 50            |
| Nitrobenzene                                                                                             | 83               |      | 77                |      | 40-140              | 8   |      | 50            |
| NDPA/DPA                                                                                                 | 89               |      | 95                |      | 36-157              | 7   |      | 50            |
| n-Nitrosodi-n-propylamine                                                                                | 83               |      | 81                |      | 32-121              | 2   |      | 50            |
| Bis(2-ethylhexyl)phthalate                                                                               | 84               |      | 88                |      | 40-140              | 5   |      | 50            |
| Butyl benzyl phthalate                                                                                   | 93               |      | 102               |      | 40-140              | 9   |      | 50            |
| Di-n-butylphthalate                                                                                      | 94               |      | 102               |      | 40-140              | 8   |      | 50            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3 |                  |      |                   |      |                     |     |      |               |
| Di-n-octylphthalate                                                                                      | 95               |      | 101               |      | 40-140              | 6   |      | 50            |
| Diethyl phthalate                                                                                        | 84               |      | 91                |      | 40-140              | 8   |      | 50            |
| Dimethyl phthalate                                                                                       | 88               |      | 93                |      | 40-140              | 6   |      | 50            |
| Benzo(a)anthracene                                                                                       | 91               |      | 95                |      | 40-140              | 4   |      | 50            |
| Benzo(a)pyrene                                                                                           | 83               |      | 91                |      | 40-140              | 9   |      | 50            |
| Benzo(b)fluoranthene                                                                                     | 93               |      | 101               |      | 40-140              | 8   |      | 50            |
| Benzo(k)fluoranthene                                                                                     | 79               |      | 87                |      | 40-140              | 10  |      | 50            |
| Chrysene                                                                                                 | 78               |      | 87                |      | 40-140              | 11  |      | 50            |
| Acenaphthylene                                                                                           | 91               |      | 90                |      | 40-140              | 1   |      | 50            |
| Anthracene                                                                                               | 87               |      | 95                |      | 40-140              | 9   |      | 50            |
| Benzo(ghi)perylene                                                                                       | 96               |      | 103               |      | 40-140              | 7   |      | 50            |
| Fluorene                                                                                                 | 90               |      | 97                |      | 40-140              | 7   |      | 50            |
| Phenanthrene                                                                                             | 84               |      | 92                |      | 40-140              | 9   |      | 50            |
| Dibenzo(a,h)anthracene                                                                                   | 100              |      | 106               |      | 40-140              | 6   |      | 50            |
| Indeno(1,2,3-cd)pyrene                                                                                   | 100              |      | 113               |      | 40-140              | 12  |      | 50            |
| Pyrene                                                                                                   | 84               |      | 92                |      | 35-142              | 9   |      | 50            |
| Biphenyl                                                                                                 | 92               |      | 93                |      | 37-127              | 1   |      | 50            |
| 4-Chloroaniline                                                                                          | 82               |      | 82                |      | 40-140              | 0   |      | 50            |
| 2-Nitroaniline                                                                                           | 104              |      | 108               |      | 47-134              | 4   |      | 50            |
| 3-Nitroaniline                                                                                           | 66               |      | 74                |      | 26-129              | 11  |      | 50            |
| 4-Nitroaniline                                                                                           | 86               |      | 92                |      | 41-125              | 7   |      | 50            |
| Dibenzofuran                                                                                             | 88               |      | 95                |      | 40-140              | 8   |      | 50            |
| 2-Methylnaphthalene                                                                                      | 86               |      | 88                |      | 40-140              | 2   |      | 50            |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3 |                  |      |                   |      |                     |     |      |               |
| 1,2,4,5-Tetrachlorobenzene                                                                               | 93               |      | 93                |      | 40-117              | 0   |      | 50            |
| Acetophenone                                                                                             | 92               |      | 86                |      | 14-144              | 7   |      | 50            |
| 2,4,6-Trichlorophenol                                                                                    | 100              |      | 104               |      | 30-130              | 4   |      | 50            |
| p-Chloro-m-cresol                                                                                        | 93               |      | 97                |      | 26-103              | 4   |      | 50            |
| 2-Chlorophenol                                                                                           | 101              |      | 92                |      | 25-102              | 9   |      | 50            |
| 2,4-Dichlorophenol                                                                                       | 100              |      | 99                |      | 30-130              | 1   |      | 50            |
| 2,4-Dimethylphenol                                                                                       | 91               |      | 87                |      | 30-130              | 4   |      | 50            |
| 2-Nitrophenol                                                                                            | 103              |      | 96                |      | 30-130              | 7   |      | 50            |
| 4-Nitrophenol                                                                                            | 93               |      | 96                |      | 11-114              | 3   |      | 50            |
| 2,4-Dinitrophenol                                                                                        | 68               |      | 68                |      | 4-130               | 0   |      | 50            |
| 4,6-Dinitro-o-cresol                                                                                     | 111              |      | 120               |      | 10-130              | 8   |      | 50            |
| Pentachlorophenol                                                                                        | 97               |      | 107               |      | 17-109              | 10  |      | 50            |
| Phenol                                                                                                   | 90               |      | 84                |      | 26-90               | 7   |      | 50            |
| 2-Methylphenol                                                                                           | 98               |      | 94                |      | 30-130              | 4   |      | 50            |
| 3-Methylphenol/4-Methylphenol                                                                            | 96               |      | 94                |      | 30-130              | 2   |      | 50            |
| 2,4,5-Trichlorophenol                                                                                    | 98               |      | 104               |      | 30-130              | 6   |      | 50            |
| Carbazole                                                                                                | 90               |      | 97                |      | 54-128              | 7   |      | 50            |
| Atrazine                                                                                                 | 89               |      | 98                |      | 40-140              | 10  |      | 50            |
| Benzaldehyde                                                                                             | 99               |      | 84                |      | 40-140              | 16  |      | 50            |
| Caprolactam                                                                                              | 96               |      | 102               |      | 15-130              | 6   |      | 50            |
| 2,3,4,6-Tetrachlorophenol                                                                                | 94               |      | 102               |      | 40-140              | 8   |      | 50            |
| 1,4-Dioxane                                                                                              | 75               |      | 67                |      | 40-140              | 11  |      | 50            |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1960377

**Project Number:** 2182207

**Report Date:** 01/23/20

| <b>Parameter</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1322459-2 WG1322459-3

| <b>Surrogate</b>     | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|----------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 2-Fluorophenol       | 95                       |             | 85                        |             | 25-120                         |
| Phenol-d6            | 97                       |             | 91                        |             | 10-120                         |
| Nitrobenzene-d5      | 82                       |             | 78                        |             | 23-120                         |
| 2-Fluorobiphenyl     | 81                       |             | 80                        |             | 30-120                         |
| 2,4,6-Tribromophenol | 100                      |             | 109                       |             | 10-136                         |
| 4-Terphenyl-d14      | 84                       |             | 88                        |             | 18-120                         |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 Batch: WG1325203-2 WG1325203-3 |                  |      |                   |      |                     |     |      |               |
| Perfluorobutanoic Acid (PFBA)                                                                                          | 106              |      | 103               |      | 71-135              | 3   |      | 30            |
| Perfluoropentanoic Acid (PFPeA)                                                                                        | 112              |      | 108               |      | 69-132              | 4   |      | 30            |
| Perfluorobutanesulfonic Acid (PFBS)                                                                                    | 110              |      | 106               |      | 72-128              | 4   |      | 30            |
| Perfluorohexanoic Acid (PFHxA)                                                                                         | 110              |      | 105               |      | 70-132              | 5   |      | 30            |
| Perfluoroheptanoic Acid (PFHpA)                                                                                        | 103              |      | 102               |      | 71-131              | 1   |      | 30            |
| Perfluorohexanesulfonic Acid (PFHxS)                                                                                   | 106              |      | 100               |      | 67-130              | 6   |      | 30            |
| Perfluorooctanoic Acid (PFOA)                                                                                          | 113              |      | 109               |      | 69-133              | 4   |      | 30            |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)                                                                      | 117              |      | 126               |      | 64-140              | 7   |      | 30            |
| Perfluoroheptanesulfonic Acid (PFHpS)                                                                                  | 104              |      | 113               |      | 70-132              | 8   |      | 30            |
| Perfluorononanoic Acid (PFNA)                                                                                          | 108              |      | 107               |      | 72-129              | 1   |      | 30            |
| Perfluorooctanesulfonic Acid (PFOS)                                                                                    | 106              |      | 108               |      | 68-136              | 2   |      | 30            |
| Perfluorodecanoic Acid (PFDA)                                                                                          | 106              |      | 104               |      | 69-133              | 2   |      | 30            |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)                                                                      | 116              |      | 132               |      | 65-137              | 13  |      | 30            |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)                                                              | 115              |      | 111               |      | 63-144              | 4   |      | 30            |
| Perfluoroundecanoic Acid (PFUnA)                                                                                       | 115              |      | 104               |      | 64-136              | 10  |      | 30            |
| Perfluorodecanesulfonic Acid (PFDS)                                                                                    | 107              |      | 116               |      | 59-134              | 8   |      | 30            |
| Perfluorooctanesulfonamide (FOSA)                                                                                      | 106              |      | 122               |      | 67-137              | 14  |      | 30            |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)                                                               | 108              |      | 103               |      | 61-139              | 5   |      | 30            |
| Perfluorododecanoic Acid (PFDoA)                                                                                       | 109              |      | 108               |      | 69-135              | 1   |      | 30            |
| Perfluorotridecanoic Acid (PFTrDA)                                                                                     | 118              |      | 108               |      | 66-139              | 9   |      | 30            |
| Perfluorotetradecanoic Acid (PFTA)                                                                                     | 110              |      | 107               |      | 69-133              | 3   |      | 30            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1960377

Project Number: 2182207

Report Date: 01/23/20

| Parameter                                                                                                              | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 03 Batch: WG1325203-2 WG1325203-3 |                  |      |                   |      |                     |     |      |               |

| Surrogate (Extracted Internal Standard)                                | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|------------------------------------------------------------------------|------------------|------|-------------------|------|------------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA)                                   | 89               |      | 90                |      | 60-153                 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA)                                | 102              |      | 103               |      | 65-182                 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)                      | 93               |      | 93                |      | 70-151                 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)                       | 79               |      | 83                |      | 61-147                 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)                        | 88               |      | 90                |      | 62-149                 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)                     | 101              |      | 99                |      | 63-166                 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA)                                  | 90               |      | 94                |      | 62-152                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)         | 117              |      | 109               |      | 32-182                 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA)                                  | 95               |      | 96                |      | 61-154                 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)                            | 99               |      | 95                |      | 65-151                 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)                      | 91               |      | 91                |      | 65-150                 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)         | 127              |      | 119               |      | 25-186                 |
| N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) | 93               |      | 87                |      | 45-137                 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)                | 95               |      | 101               |      | 64-158                 |
| Perfluoro[13C8]Octanesulfonamide (M8FOSA)                              | 21               |      | 17                |      | 1-125                  |
| N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)  | 89               |      | 91                |      | 42-136                 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)                            | 90               |      | 94                |      | 56-148                 |
| Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)                       | 79               |      | 82                |      | 26-160                 |



# PCBS

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 12/20/19 03:32  
**Analyst:** KB  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 09:52  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 12/19/19  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 12/19/19

| Parameter                                         | Result | Qualifier | Units | RL   | MDL  | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|------|------|-----------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab |        |           |       |      |      |                 |        |
| Aroclor 1016                                      | ND     |           | ug/kg | 38.4 | 3.41 | 1               | A      |
| Aroclor 1221                                      | ND     |           | ug/kg | 38.4 | 3.85 | 1               | A      |
| Aroclor 1232                                      | ND     |           | ug/kg | 38.4 | 8.15 | 1               | A      |
| Aroclor 1242                                      | ND     |           | ug/kg | 38.4 | 5.18 | 1               | A      |
| Aroclor 1248                                      | ND     |           | ug/kg | 38.4 | 5.77 | 1               | A      |
| Aroclor 1254                                      | ND     |           | ug/kg | 38.4 | 4.21 | 1               | A      |
| Aroclor 1260                                      | ND     |           | ug/kg | 38.4 | 7.10 | 1               | A      |
| Aroclor 1262                                      | ND     |           | ug/kg | 38.4 | 4.88 | 1               | A      |
| Aroclor 1268                                      | ND     |           | ug/kg | 38.4 | 3.98 | 1               | A      |
| PCBs, Total                                       | ND     |           | ug/kg | 38.4 | 3.41 | 1               | A      |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 57         |           | 30-150              | A      |
| Decachlorobiphenyl           | 69         |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 55         |           | 30-150              | B      |
| Decachlorobiphenyl           | 70         |           | 30-150              | B      |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 12/18/19 23:06  
 Analyst: KB

Extraction Method: EPA 3546  
 Extraction Date: 12/18/19 13:26  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 12/18/19  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 12/18/19

| Parameter                                                                              | Result | Qualifier | Units | RL   | MDL  | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|------|------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1322305-1 |        |           |       |      |      |        |
| Aroclor 1016                                                                           | ND     |           | ug/kg | 32.0 | 2.84 | A      |
| Aroclor 1221                                                                           | ND     |           | ug/kg | 32.0 | 3.20 | A      |
| Aroclor 1232                                                                           | ND     |           | ug/kg | 32.0 | 6.78 | A      |
| Aroclor 1242                                                                           | ND     |           | ug/kg | 32.0 | 4.31 | A      |
| Aroclor 1248                                                                           | ND     |           | ug/kg | 32.0 | 4.80 | A      |
| Aroclor 1254                                                                           | ND     |           | ug/kg | 32.0 | 3.50 | A      |
| Aroclor 1260                                                                           | ND     |           | ug/kg | 32.0 | 5.91 | A      |
| Aroclor 1262                                                                           | ND     |           | ug/kg | 32.0 | 4.06 | A      |
| Aroclor 1268                                                                           | ND     |           | ug/kg | 32.0 | 3.31 | A      |
| PCBs, Total                                                                            | ND     |           | ug/kg | 32.0 | 2.84 | A      |

| Surrogate                    | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 90        |           | 30-150              | A      |
| Decachlorobiphenyl           | 87        |           | 30-150              | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 95        |           | 30-150              | B      |
| Decachlorobiphenyl           | 99        |           | 30-150              | B      |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1322305-2 WG1322305-3 |                  |      |                   |      |                     |     |      |               |        |
| Aroclor 1016                                                                                              | 68               |      | 76                |      | 40-140              | 11  |      | 50            | A      |
| Aroclor 1260                                                                                              | 62               |      | 68                |      | 40-140              | 9   |      | 50            | A      |

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 81               |      | 89                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 78               |      | 87                |      | 30-150                 | A      |
| 2,4,5,6-Tetrachloro-m-xylene | 85               |      | 93                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 88               |      | 98                |      | 30-150                 | B      |

# PESTICIDES

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 12/20/19 08:06  
**Analyst:** SM  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 11:17  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 12/20/19

| Parameter                                         | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|-------|-------|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |       |       |                 |        |
| Delta-BHC                                         | ND     |           | ug/kg | 1.87  | 0.366 | 1               | A      |
| Lindane                                           | ND     |           | ug/kg | 0.780 | 0.349 | 1               | A      |
| Alpha-BHC                                         | ND     |           | ug/kg | 0.780 | 0.222 | 1               | A      |
| Beta-BHC                                          | ND     |           | ug/kg | 1.87  | 0.710 | 1               | A      |
| Heptachlor                                        | ND     |           | ug/kg | 0.936 | 0.420 | 1               | A      |
| Aldrin                                            | ND     |           | ug/kg | 1.87  | 0.659 | 1               | A      |
| Heptachlor epoxide                                | ND     |           | ug/kg | 3.51  | 1.05  | 1               | A      |
| Endrin                                            | ND     |           | ug/kg | 0.780 | 0.320 | 1               | A      |
| Endrin aldehyde                                   | ND     |           | ug/kg | 2.34  | 0.819 | 1               | A      |
| Endrin ketone                                     | ND     |           | ug/kg | 1.87  | 0.482 | 1               | A      |
| Dieldrin                                          | ND     |           | ug/kg | 1.17  | 0.585 | 1               | A      |
| 4,4'-DDE                                          | 1.15   | J         | ug/kg | 1.87  | 0.433 | 1               | B      |
| 4,4'-DDD                                          | ND     |           | ug/kg | 1.87  | 0.668 | 1               | A      |
| 4,4'-DDT                                          | ND     |           | ug/kg | 3.51  | 1.50  | 1               | A      |
| Endosulfan I                                      | ND     |           | ug/kg | 1.87  | 0.442 | 1               | A      |
| Endosulfan II                                     | ND     |           | ug/kg | 1.87  | 0.626 | 1               | A      |
| Endosulfan sulfate                                | ND     |           | ug/kg | 0.780 | 0.371 | 1               | A      |
| Methoxychlor                                      | ND     |           | ug/kg | 3.51  | 1.09  | 1               | A      |
| Toxaphene                                         | ND     |           | ug/kg | 35.1  | 9.83  | 1               | A      |
| cis-Chlordane                                     | ND     |           | ug/kg | 2.34  | 0.652 | 1               | B      |
| trans-Chlordane                                   | ND     | IP        | ug/kg | 2.34  | 0.618 | 1               | A      |
| Chlordane                                         | ND     |           | ug/kg | 15.2  | 6.20  | 1               | A      |

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS****Lab ID:** L1960377-03**Date Collected:** 12/17/19 12:00**Client ID:** COMP-01-121719**Date Received:** 12/17/19**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY**Field Prep:** Not Specified**Sample Depth:**

| Parameter                                         | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---------------------------------------------------|--------|-----------|-------|----|-----|-----------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab |        |           |       |    |     |                 |        |

| Surrogate                    | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 88         |           | 30-150              | B      |
| Decachlorobiphenyl           | 70         |           | 30-150              | B      |
| 2,4,5,6-Tetrachloro-m-xylene | 60         |           | 30-150              | A      |
| Decachlorobiphenyl           | 52         |           | 30-150              | A      |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8081B  
**Analytical Date:** 12/20/19 07:12  
**Analyst:** SM

**Extraction Method:** EPA 3546  
**Extraction Date:** 12/19/19 11:17  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 12/20/19

| Parameter                                                                              | Result | Qualifier | Units | RL    | MDL   | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1322764-1 |        |           |       |       |       |        |
| Delta-BHC                                                                              | ND     |           | ug/kg | 1.56  | 0.306 | A      |
| Lindane                                                                                | ND     |           | ug/kg | 0.652 | 0.291 | A      |
| Alpha-BHC                                                                              | ND     |           | ug/kg | 0.652 | 0.185 | A      |
| Beta-BHC                                                                               | ND     |           | ug/kg | 1.56  | 0.593 | A      |
| Heptachlor                                                                             | ND     |           | ug/kg | 0.782 | 0.351 | A      |
| Aldrin                                                                                 | ND     |           | ug/kg | 1.56  | 0.551 | A      |
| Heptachlor epoxide                                                                     | ND     |           | ug/kg | 2.93  | 0.880 | A      |
| Endrin                                                                                 | ND     |           | ug/kg | 0.652 | 0.267 | A      |
| Endrin aldehyde                                                                        | ND     |           | ug/kg | 1.96  | 0.684 | A      |
| Endrin ketone                                                                          | ND     |           | ug/kg | 1.56  | 0.403 | A      |
| Dieldrin                                                                               | ND     |           | ug/kg | 0.978 | 0.489 | A      |
| 4,4'-DDE                                                                               | ND     |           | ug/kg | 1.56  | 0.362 | A      |
| 4,4'-DDD                                                                               | ND     |           | ug/kg | 1.56  | 0.558 | A      |
| 4,4'-DDT                                                                               | ND     |           | ug/kg | 2.93  | 1.26  | A      |
| Endosulfan I                                                                           | ND     |           | ug/kg | 1.56  | 0.370 | A      |
| Endosulfan II                                                                          | ND     |           | ug/kg | 1.56  | 0.523 | A      |
| Endosulfan sulfate                                                                     | ND     |           | ug/kg | 0.652 | 0.310 | A      |
| Methoxychlor                                                                           | ND     |           | ug/kg | 2.93  | 0.913 | A      |
| Toxaphene                                                                              | ND     |           | ug/kg | 29.3  | 8.21  | A      |
| cis-Chlordane                                                                          | ND     |           | ug/kg | 1.96  | 0.545 | A      |
| trans-Chlordane                                                                        | ND     |           | ug/kg | 1.96  | 0.516 | A      |
| Chlordane                                                                              | ND     |           | ug/kg | 12.7  | 5.18  | A      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 12/20/19 07:12  
 Analyst: SM

Extraction Method: EPA 3546  
 Extraction Date: 12/19/19 11:17  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 12/20/19

| Parameter                                                                              | Result | Qualifier | Units | RL | MDL | Column |
|----------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|--------|
| Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1322764-1 |        |           |       |    |     |        |

| Surrogate                    | %Recovery | Qualifier | Acceptance<br>Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 92        |           | 30-150                 | B      |
| Decachlorobiphenyl           | 88        |           | 30-150                 | B      |
| 2,4,5,6-Tetrachloro-m-xylene | 88        |           | 30-150                 | A      |
| Decachlorobiphenyl           | 85        |           | 30-150                 | A      |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                 | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits | Column |
|-----------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1322764-2 WG1322764-3 |                  |      |                   |      |                     |     |      |               |        |
| Delta-BHC                                                                                                 | 80               |      | 92                |      | 30-150              | 14  |      | 30            | A      |
| Lindane                                                                                                   | 78               |      | 89                |      | 30-150              | 13  |      | 30            | A      |
| Alpha-BHC                                                                                                 | 79               |      | 89                |      | 30-150              | 12  |      | 30            | A      |
| Beta-BHC                                                                                                  | 74               |      | 82                |      | 30-150              | 10  |      | 30            | A      |
| Heptachlor                                                                                                | 76               |      | 90                |      | 30-150              | 17  |      | 30            | A      |
| Aldrin                                                                                                    | 79               |      | 91                |      | 30-150              | 14  |      | 30            | A      |
| Heptachlor epoxide                                                                                        | 76               |      | 88                |      | 30-150              | 15  |      | 30            | A      |
| Endrin                                                                                                    | 82               |      | 94                |      | 30-150              | 14  |      | 30            | A      |
| Endrin aldehyde                                                                                           | 58               |      | 64                |      | 30-150              | 10  |      | 30            | A      |
| Endrin ketone                                                                                             | 80               |      | 88                |      | 30-150              | 10  |      | 30            | A      |
| Dieldrin                                                                                                  | 84               |      | 98                |      | 30-150              | 15  |      | 30            | A      |
| 4,4'-DDE                                                                                                  | 79               |      | 92                |      | 30-150              | 15  |      | 30            | A      |
| 4,4'-DDD                                                                                                  | 80               |      | 92                |      | 30-150              | 14  |      | 30            | A      |
| 4,4'-DDT                                                                                                  | 82               |      | 93                |      | 30-150              | 13  |      | 30            | A      |
| Endosulfan I                                                                                              | 75               |      | 86                |      | 30-150              | 14  |      | 30            | A      |
| Endosulfan II                                                                                             | 76               |      | 86                |      | 30-150              | 12  |      | 30            | A      |
| Endosulfan sulfate                                                                                        | 58               |      | 65                |      | 30-150              | 11  |      | 30            | A      |
| Methoxychlor                                                                                              | 74               |      | 82                |      | 30-150              | 10  |      | 30            | A      |
| cis-Chlordane                                                                                             | 72               |      | 83                |      | 30-150              | 14  |      | 30            | A      |
| trans-Chlordane                                                                                           | 73               |      | 84                |      | 30-150              | 14  |      | 30            | A      |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
|-----------|------------------|------|-------------------|------|---------------------|-----|------|---------------|

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1322764-2 WG1322764-3

| Surrogate                    | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 87               |      | 97                |      | 30-150                 | B      |
| Decachlorobiphenyl           | 88               |      | 91                |      | 30-150                 | B      |
| 2,4,5,6-Tetrachloro-m-xylene | 83               |      | 93                |      | 30-150                 | A      |
| Decachlorobiphenyl           | 81               |      | 86                |      | 30-150                 | A      |

## METALS

**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**SAMPLE RESULTS**

Lab ID: L1960377-03

Date Collected: 12/17/19 12:00

Client ID: COMP-01-121719

Date Received: 12/17/19

Sample Location: 872 HUDSON AVE, ROCHESTER, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

| Parameter                    | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|------------------------------|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------|-------------------|---------|
| Total Metals - Mansfield Lab |        |           |       |       |       |                 |                |                |             |                   |         |
| Aluminum, Total              | 3810   |           | mg/kg | 9.54  | 2.58  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Antimony, Total              | ND     |           | mg/kg | 4.77  | 0.362 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Arsenic, Total               | 4.71   |           | mg/kg | 0.954 | 0.198 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Barium, Total                | 68.2   |           | mg/kg | 0.954 | 0.166 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Beryllium, Total             | 0.191  | J         | mg/kg | 0.477 | 0.032 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Cadmium, Total               | 0.515  | J         | mg/kg | 0.954 | 0.094 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Calcium, Total               | 95300  |           | mg/kg | 95.4  | 33.4  | 20              | 12/18/19 20:26 | 12/24/19 01:19 | EPA 3050B   | 1,6010D           | LC      |
| Chromium, Total              | 6.43   |           | mg/kg | 0.954 | 0.092 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Cobalt, Total                | 4.04   |           | mg/kg | 1.91  | 0.158 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Copper, Total                | 10.9   |           | mg/kg | 0.954 | 0.246 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Iron, Total                  | 11600  |           | mg/kg | 4.77  | 0.861 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Lead, Total                  | 30.2   |           | mg/kg | 4.77  | 0.256 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Magnesium, Total             | 20600  |           | mg/kg | 9.54  | 1.47  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Manganese, Total             | 311    |           | mg/kg | 0.954 | 0.152 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Mercury, Total               | ND     |           | mg/kg | 0.088 | 0.057 | 1               | 12/18/19 22:46 | 12/19/19 15:31 | EPA 7471B   | 1,7471B           | GD      |
| Nickel, Total                | 8.58   |           | mg/kg | 2.38  | 0.231 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Potassium, Total             | 798    |           | mg/kg | 238   | 13.7  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Selenium, Total              | ND     |           | mg/kg | 1.91  | 0.246 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Silver, Total                | ND     |           | mg/kg | 0.954 | 0.270 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Sodium, Total                | 236    |           | mg/kg | 191   | 3.00  | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Thallium, Total              | ND     |           | mg/kg | 1.91  | 0.300 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Vanadium, Total              | 9.21   |           | mg/kg | 0.954 | 0.194 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |
| Zinc, Total                  | 21.6   |           | mg/kg | 4.77  | 0.279 | 2               | 12/18/19 20:26 | 12/23/19 15:31 | EPA 3050B   | 1,6010D           | LC      |



Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1960377

Project Number: 2182207

Report Date: 01/23/20

## Method Blank Analysis Batch Quality Control

| Parameter                                                         | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1322461-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Aluminum, Total                                                   | ND     |           | mg/kg | 4.00  | 1.08  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Antimony, Total                                                   | ND     |           | mg/kg | 2.00  | 0.152 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Arsenic, Total                                                    | ND     |           | mg/kg | 0.400 | 0.083 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Barium, Total                                                     | ND     |           | mg/kg | 0.400 | 0.070 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Beryllium, Total                                                  | ND     |           | mg/kg | 0.200 | 0.013 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Cadmium, Total                                                    | ND     |           | mg/kg | 0.400 | 0.039 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Calcium, Total                                                    | ND     |           | mg/kg | 4.00  | 1.40  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Chromium, Total                                                   | 0.184  | J         | mg/kg | 0.400 | 0.038 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Cobalt, Total                                                     | ND     |           | mg/kg | 0.800 | 0.066 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Copper, Total                                                     | ND     |           | mg/kg | 0.400 | 0.103 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Iron, Total                                                       | 1.29   | J         | mg/kg | 2.00  | 0.361 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Lead, Total                                                       | ND     |           | mg/kg | 2.00  | 0.107 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Magnesium, Total                                                  | ND     |           | mg/kg | 4.00  | 0.616 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Manganese, Total                                                  | ND     |           | mg/kg | 0.400 | 0.064 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Nickel, Total                                                     | ND     |           | mg/kg | 1.00  | 0.097 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Potassium, Total                                                  | ND     |           | mg/kg | 100   | 5.76  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Selenium, Total                                                   | 0.204  | J         | mg/kg | 0.800 | 0.103 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Silver, Total                                                     | ND     |           | mg/kg | 0.400 | 0.113 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Sodium, Total                                                     | ND     |           | mg/kg | 80.0  | 1.26  | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Thallium, Total                                                   | ND     |           | mg/kg | 0.800 | 0.126 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Vanadium, Total                                                   | ND     |           | mg/kg | 0.400 | 0.081 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |
| Zinc, Total                                                       | ND     |           | mg/kg | 2.00  | 0.117 | 1                  | 12/18/19 20:26   | 12/23/19 14:20   | 1,6010D              | LC      |

### Prep Information

Digestion Method: EPA 3050B

| Parameter                                                         | Result | Qualifier | Units | RL    | MDL   | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------------------------------------|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1322485-1 |        |           |       |       |       |                    |                  |                  |                      |         |
| Mercury, Total                                                    | ND     |           | mg/kg | 0.083 | 0.054 | 1                  | 12/18/19 22:46   | 12/19/19 15:12   | 1,7471B              | GD      |



**Project Name:** FORMER WOLLENSACK OPTICAL

**Lab Number:** L1960377

**Project Number:** 2182207

**Report Date:** 01/23/20

## **Method Blank Analysis Batch Quality Control**

### **Prep Information**

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Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                         | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1322461-2 SRM Lot Number: D105-540 |                  |      |                   |      |                     |     |      |            |
| Aluminum, Total                                                                                   | 77               |      | -                 |      | 51-149              | -   |      |            |
| Antimony, Total                                                                                   | 138              |      | -                 |      | 19-249              | -   |      |            |
| Arsenic, Total                                                                                    | 104              |      | -                 |      | 70-130              | -   |      |            |
| Barium, Total                                                                                     | 102              |      | -                 |      | 75-125              | -   |      |            |
| Beryllium, Total                                                                                  | 102              |      | -                 |      | 75-125              | -   |      |            |
| Cadmium, Total                                                                                    | 93               |      | -                 |      | 75-125              | -   |      |            |
| Calcium, Total                                                                                    | 98               |      | -                 |      | 73-127              | -   |      |            |
| Chromium, Total                                                                                   | 105              |      | -                 |      | 70-130              | -   |      |            |
| Cobalt, Total                                                                                     | 99               |      | -                 |      | 75-125              | -   |      |            |
| Copper, Total                                                                                     | 102              |      | -                 |      | 75-125              | -   |      |            |
| Iron, Total                                                                                       | 98               |      | -                 |      | 38-162              | -   |      |            |
| Lead, Total                                                                                       | 98               |      | -                 |      | 71-128              | -   |      |            |
| Magnesium, Total                                                                                  | 90               |      | -                 |      | 63-137              | -   |      |            |
| Manganese, Total                                                                                  | 96               |      | -                 |      | 76-124              | -   |      |            |
| Nickel, Total                                                                                     | 99               |      | -                 |      | 70-131              | -   |      |            |
| Potassium, Total                                                                                  | 90               |      | -                 |      | 60-140              | -   |      |            |
| Selenium, Total                                                                                   | 101              |      | -                 |      | 63-137              | -   |      |            |
| Silver, Total                                                                                     | 102              |      | -                 |      | 69-131              | -   |      |            |
| Sodium, Total                                                                                     | 105              |      | -                 |      | 37-162              | -   |      |            |
| Thallium, Total                                                                                   | 96               |      | -                 |      | 68-132              | -   |      |            |
| Vanadium, Total                                                                                   | 100              |      | -                 |      | 65-135              | -   |      |            |



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                         | LCS<br>%Recovery | LCSD<br>%Recovery | %Recovery<br>Limits | RPD | RPD Limits |
|---------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1322461-2 SRM Lot Number: D105-540 |                  |                   |                     |     |            |
| Zinc, Total                                                                                       | 99               | -                 | 70-130              | -   |            |
| Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1322485-2 SRM Lot Number: D105-540 |                  |                   |                     |     |            |
| Mercury, Total                                                                                    | 99               | -                 | 60-141              | -   |            |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                                           | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03    QC Batch ID: WG1322461-3    QC Sample: L1960349-01    Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Aluminum, Total                                                                                                                     | 694           | 208      | 1060     | 176          | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Antimony, Total                                                                                                                     | ND            | 52       | 49.8     | 96           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Arsenic, Total                                                                                                                      | ND            | 12.5     | 13.5     | 108          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Barium, Total                                                                                                                       | 15.9          | 208      | 234      | 105          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Beryllium, Total                                                                                                                    | ND            | 5.2      | 5.32     | 102          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cadmium, Total                                                                                                                      | 1.19          | 5.3      | 6.19     | 94           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Calcium, Total                                                                                                                      | 135           | 1040     | 1180     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Chromium, Total                                                                                                                     | 5.80          | 20.8     | 26.3     | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Cobalt, Total                                                                                                                       | 0.201J        | 52       | 52.2     | 100          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Copper, Total                                                                                                                       | 119           | 26       | 144      | 96           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Iron, Total                                                                                                                         | 1030          | 104      | 1020     | 0            | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Lead, Total                                                                                                                         | 6.81          | 53       | 61.4     | 103          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Magnesium, Total                                                                                                                    | 192           | 1040     | 1220     | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Manganese, Total                                                                                                                    | 2.93          | 52       | 53.7     | 98           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Nickel, Total                                                                                                                       | 1.10J         | 52       | 52.7     | 101          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Potassium, Total                                                                                                                    | 69.6J         | 1040     | 1110     | 107          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Selenium, Total                                                                                                                     | 0.835J        | 12.5     | 13.8     | 111          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Silver, Total                                                                                                                       | 64.2          | 31.2     | 187      | 394          | Q    | -         | -             |      | 75-125          | -   |      | 20         |
| Sodium, Total                                                                                                                       | 8.35J         | 1040     | 1070     | 103          |      | -         | -             |      | 75-125          | -   |      | 20         |
| Thallium, Total                                                                                                                     | ND            | 12.5     | 12.4     | 99           |      | -         | -             |      | 75-125          | -   |      | 20         |
| Vanadium, Total                                                                                                                     | 1.61          | 52       | 54.8     | 102          |      | -         | -             |      | 75-125          | -   |      | 20         |

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                                           | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|-----------|---------------|-----------------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03    QC Batch ID: WG1322461-3    QC Sample: L1960349-01    Client ID: MS Sample |               |          |          |              |           |               |                 |     |            |
| Zinc, Total                                                                                                                         | 101           | 52       | 140      | 75           | -         | -             | 75-125          | -   | 20         |
| Total Metals - Mansfield Lab Associated sample(s): 03    QC Batch ID: WG1322485-3    QC Sample: L1960536-01    Client ID: MS Sample |               |          |          |              |           |               |                 |     |            |
| Mercury, Total                                                                                                                      | ND            | 0.138    | 0.135    | 98           | -         | -             | 80-120          | -   | 20         |

# Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER WOLLENSACK OPTICAL

Project Number: 2182207

Lab Number: L1960377

Report Date: 01/23/20

| Parameter                                                                                                                   | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1322461-4 QC Sample: L1960349-01 Client ID: DUP Sample |               |                  |       |     |      |            |
| Aluminum, Total                                                                                                             | 694           | 616              | mg/kg | 12  |      | 20         |
| Antimony, Total                                                                                                             | ND            | ND               | mg/kg | NC  |      | 20         |
| Arsenic, Total                                                                                                              | ND            | ND               | mg/kg | NC  |      | 20         |
| Barium, Total                                                                                                               | 15.9          | 10.9             | mg/kg | 37  | Q    | 20         |
| Beryllium, Total                                                                                                            | ND            | ND               | mg/kg | NC  |      | 20         |
| Cadmium, Total                                                                                                              | 1.19          | 0.538J           | mg/kg | NC  |      | 20         |
| Calcium, Total                                                                                                              | 135           | 118              | mg/kg | 13  |      | 20         |
| Chromium, Total                                                                                                             | 5.80          | 6.27             | mg/kg | 8   |      | 20         |
| Cobalt, Total                                                                                                               | 0.201J        | 0.186J           | mg/kg | NC  |      | 20         |
| Copper, Total                                                                                                               | 119           | 82.6             | mg/kg | 36  | Q    | 20         |
| Iron, Total                                                                                                                 | 1030          | 1040             | mg/kg | 1   |      | 20         |
| Lead, Total                                                                                                                 | 6.81          | 5.46             | mg/kg | 22  | Q    | 20         |
| Magnesium, Total                                                                                                            | 192           | 229              | mg/kg | 18  |      | 20         |
| Manganese, Total                                                                                                            | 2.93          | 3.29             | mg/kg | 12  |      | 20         |
| Nickel, Total                                                                                                               | 1.10J         | 1.07J            | mg/kg | NC  |      | 20         |
| Potassium, Total                                                                                                            | 69.6J         | 63.9J            | mg/kg | NC  |      | 20         |
| Selenium, Total                                                                                                             | 0.835J        | 1.05J            | mg/kg | NC  |      | 20         |
| Silver, Total                                                                                                               | 64.2          | 61.7             | mg/kg | 4   |      | 20         |
| Sodium, Total                                                                                                               | 8.35J         | 5.83J            | mg/kg | NC  |      | 20         |

# Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** FORMER WOLLENSACK OPTICAL

**Project Number:** 2182207

**Lab Number:** L1960377

**Report Date:** 01/23/20

| Parameter                                                                                                                   | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------------|
| Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1322461-4 QC Sample: L1960349-01 Client ID: DUP Sample |               |                  |       |     |            |
| Thallium, Total                                                                                                             | ND            | ND               | mg/kg | NC  | 20         |
| Vanadium, Total                                                                                                             | 1.61          | 1.62             | mg/kg | 1   | 20         |
| Zinc, Total                                                                                                                 | 101           | 76.9             | mg/kg | 27  | Q 20       |
| Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1322485-4 QC Sample: L1960536-01 Client ID: DUP Sample |               |                  |       |     |            |
| Mercury, Total                                                                                                              | ND            | ND               | mg/kg | NC  | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-01  
**Client ID:** DIS-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 83.2   |           | %     | 0.100 | NA  | 1                  | -                | 12/19/19 13:41   | 121,2540G            | RI      |



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**SAMPLE RESULTS**

**Lab ID:** L1960377-02  
**Client ID:** DIS-02-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 11:30  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |     |                    |                  |                  |                      |         |
| Solids, Total                       | 84.6   |           | %     | 0.100 | NA  | 1                  | -                | 12/19/19 13:41   | 121,2540G            | RI      |





**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

### SAMPLE RESULTS

**Lab ID:** L1960377-03  
**Client ID:** COMP-01-121719  
**Sample Location:** 872 HUDSON AVE, ROCHESTER, NY

**Date Collected:** 12/17/19 12:00  
**Date Received:** 12/17/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

| Parameter                           | Result | Qualifier | Units | RL    | MDL  | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab |        |           |       |       |      |                 |                |                |                   |         |
| Solids, Total                       | 83.2   |           | %     | 0.100 | NA   | 1               | -              | 12/19/19 13:41 | 121,2540G         | RI      |
| Cyanide, Total                      | ND     |           | mg/kg | 1.1   | 0.23 | 1               | 12/20/19 14:15 | 12/20/19 16:29 | 1,9010C/9012B     | LH      |



**Project Name:** FORMER WOLLENSACK OPTICAL**Lab Number:** L1960377**Project Number:** 2182207**Report Date:** 01/23/20**Method Blank Analysis**  
**Batch Quality Control**

| Parameter                                                                | Result | Qualifier | Units | RL   | MDL  | Dilution<br>Factor | Date<br>Prepared | Date<br>Analyzed | Analytical<br>Method | Analyst |
|--------------------------------------------------------------------------|--------|-----------|-------|------|------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1323307-1 |        |           |       |      |      |                    |                  |                  |                      |         |
| Cyanide, Total                                                           | ND     |           | mg/kg | 0.84 | 0.18 | 1                  | 12/20/19 14:15   | 12/20/19 16:20   | 1,9010C/9012B        | LH      |

**Lab Control Sample Analysis****Batch Quality Control****Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1960377**Report Date:** 01/23/20

| Parameter                                                                                   | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1323307-2 WG1323307-3 |                  |      |                   |      |                     |     |      |            |
| Cyanide, Total                                                                              | 103              |      | 96                |      | 80-120              | 7   |      | 35         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

| Parameter                                                                                                                                     | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1323307-4 WG1323307-5 QC Sample: L1961011-02 Client ID: MS Sample |               |          |          |              |      |           |               |      |                 |     |      |            |
| Cyanide, Total                                                                                                                                | ND            | 11       | 9.9      | 91           |      | 9.2       | 85            |      | 75-125          | 7   |      | 35         |

**Lab Duplicate Analysis**  
*Batch Quality Control***Project Name:** FORMER WOLLENSACK OPTICAL**Project Number:** 2182207**Lab Number:** L1960377**Report Date:** 01/23/20

| Parameter                                                                                                                             | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1322811-1 QC Sample: L1960338-02 Client ID: DUP Sample |               |                  |       |     |      |            |
| Solids, Total                                                                                                                         | 72.6          | 73.1             | %     | 1   |      | 20         |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:01232019:03  
**Lab Number:** L1960377  
**Report Date:** 01/23/20

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

#### Cooler Information

**Cooler**                      **Custody Seal**  
A                                  Absent

#### Container Information

| Container ID | Container Type                         | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal   | Frozen Date/Time | Analysis(*)                                                                                                                                                                                                                                              |
|--------------|----------------------------------------|--------|------------|----------|------------|------|--------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L1960377-01A | Vial MeOH preserved                    | A      | NA         |          | 3.7        | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-01B | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-01C | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-01D | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.7        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L1960377-02A | Vial MeOH preserved                    | A      | NA         |          | 3.7        | Y    | Absent |                  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-02B | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-02C | Vial water preserved                   | A      | NA         |          | 3.7        | Y    | Absent | 18-DEC-19 12:08  | NYTCL-8260HLW-R2(14)                                                                                                                                                                                                                                     |
| L1960377-02D | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.7        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L1960377-03A | Plastic 2oz unpreserved for TS         | A      | NA         |          | 3.7        | Y    | Absent |                  | TS(7)                                                                                                                                                                                                                                                    |
| L1960377-03B | Metals Only-Glass 60mL/2oz unpreserved | A      | NA         |          | 3.7        | Y    | Absent |                  | BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),NI-Ti(180),AL-Ti(180),CR-Ti(180),TL-Ti(180),CU-Ti(180),ZN-Ti(180),SE-Ti(180),PB-Ti(180),SB-Ti(180),CO-Ti(180),V-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),FE-Ti(180),CD-Ti(180),CA-Ti(180),NA-Ti(180),K-Ti(180) |
| L1960377-03C | Plastic 8oz unpreserved                | A      | NA         |          | 3.7        | Y    | Absent |                  | A2-NY-537-ISOTOPE(28)                                                                                                                                                                                                                                    |
| L1960377-03D | Glass 250ml/8oz unpreserved            | A      | NA         |          | 3.7        | Y    | Absent |                  | TCN-9010(14),NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)                                                                                                                                                                                                |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

Serial\_No:01232019:03  
**Lab Number:** L1960377  
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## PFAS PARAMETER SUMMARY

| Parameter                                                               | Acronym      | CAS Number  |
|-------------------------------------------------------------------------|--------------|-------------|
| <b>PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)</b>                          |              |             |
| Perfluorooctadecanoic Acid                                              | PFODA        | 16517-11-6  |
| Perfluorohexadecanoic Acid                                              | PFHxDA       | 67905-19-5  |
| Perfluorotetradecanoic Acid                                             | PFTA         | 376-06-7    |
| Perfluorotridecanoic Acid                                               | PFTrDA       | 72629-94-8  |
| Perfluorododecanoic Acid                                                | PFDaA        | 307-55-1    |
| Perfluoroundecanoic Acid                                                | PFUnA        | 2058-94-8   |
| Perfluorodecanoic Acid                                                  | PFDA         | 335-76-2    |
| Perfluorononanoic Acid                                                  | PFNA         | 375-95-1    |
| Perfluorooctanoic Acid                                                  | PFOA         | 335-67-1    |
| Perfluoroheptanoic Acid                                                 | PFHpA        | 375-85-9    |
| Perfluorohexanoic Acid                                                  | PFHxA        | 307-24-4    |
| Perfluoropentanoic Acid                                                 | PFPeA        | 2706-90-3   |
| Perfluorobutanoic Acid                                                  | PFBA         | 375-22-4    |
| <b>PERFLUOROALKYL SULFONIC ACIDS (PFSAs)</b>                            |              |             |
| Perfluorododecanesulfonic Acid                                          | PFDaDS       | 79780-39-5  |
| Perfluorodecanesulfonic Acid                                            | PFDS         | 335-77-3    |
| Perfluorononanesulfonic Acid                                            | PFNS         | 68259-12-1  |
| Perfluorooctanesulfonic Acid                                            | PFOS         | 1763-23-1   |
| Perfluoroheptanesulfonic Acid                                           | PFHpS        | 375-92-8    |
| Perfluorohexanesulfonic Acid                                            | PFHxS        | 355-46-4    |
| Perfluoropentanesulfonic Acid                                           | PFPeS        | 2706-91-4   |
| Perfluorobutanesulfonic Acid                                            | PFBS         | 375-73-5    |
| <b>FLUOROTELOMERS</b>                                                   |              |             |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid                              | 10:2FTS      | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid                                | 8:2FTS       | 39108-34-4  |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid                                | 6:2FTS       | 27619-97-2  |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid                                | 4:2FTS       | 757124-72-4 |
| <b>PERFLUOROALKANE SULFONAMIDES (FASAs)</b>                             |              |             |
| Perfluorooctanesulfonamide                                              | FOSA         | 754-91-6    |
| N-Ethyl Perfluorooctane Sulfonamide                                     | NEtFOSA      | 4151-50-2   |
| N-Methyl Perfluorooctane Sulfonamide                                    | NMeFOSA      | 31506-32-8  |
| <b>PERFLUOROALKANE SULFONYL SUBSTANCES</b>                              |              |             |
| N-Ethyl Perfluorooctanesulfonamido Ethanol                              | NEtFOSE      | 1691-99-2   |
| N-Methyl Perfluorooctanesulfonamido Ethanol                             | NMeFOSE      | 24448-09-7  |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid                           | NEtFOSAA     | 2991-50-6   |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid                          | NMeFOSAA     | 2355-31-9   |
| <b>PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS</b>                  |              |             |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA      | 13252-13-6  |
| 4,8-Dioxa-3h-Perfluorononanoic Acid                                     | ADONA        | 919005-14-4 |
| <b>CHLORO-PERFLUOROALKYL SULFONIC ACIDS</b>                             |              |             |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid                     | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid                        | 9Cl-PF3ONS   | 756426-58-1 |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
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## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers





**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

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

## Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

## Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

**Data Qualifiers**

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1960377  
**Report Date:** 01/23/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 15

Department: **Quality Assurance**

Published Date: 8/15/2019 9:53:42 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B, SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

|  <b>NEW YORK CHAIN OF CUSTODY</b><br>Westborough, MA 01581<br>8 Walkup Dr.<br>TEL: 508-898-9220<br>FAX: 508-898-9193<br>Mansfield, MA 02048<br>320 Forbes Blvd<br>TEL: 508-822-9300<br>FAX: 508-822-3288                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | <b>Service Centers</b><br>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5<br>Albany, NY 12205: 14 Walker Way<br>Tonawanda, NY 14150: 275 Cooper Ave, Suite 105                                                                                                                      |           | <b>Page</b><br>1 of 1                                                                                                                                                                                                                                                                                                                                           |    | <b>Date Rec'd in Lab</b> 12/18/19                                                                                                                                                                                         |                    | <b>ALPHA Job #</b> L1960377 |                 |     |          |         |            |             |      |               |                    |                |                 |          |          |         |            |             |      |  |  |  |  |  |  |     |               |  |      |  |  |   |  |  |  |  |  |  |  |     |                |  |      |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                                         |  |                                                                         |  |                                |  |                                                                                                                  |  |
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2182207<br>(Use Project name as Project #) <input type="checkbox"/>                                                                     |           | <b>Deliverables</b><br><input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B<br><input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)<br><input type="checkbox"/> Other                                                                                                                                                       |    | <b>Billing Information</b><br><input checked="" type="checkbox"/> Same as Client Info<br>PO #                                                                                                                             |                    |                             |                 |     |          |         |            |             |      |               |                    |                |                 |          |          |         |            |             |      |  |  |  |  |  |  |     |               |  |      |  |  |   |  |  |  |  |  |  |  |     |                |  |      |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                                         |  |                                                                         |  |                                |  |                                                                                                                  |  |
| <b>Client Information</b><br>Client: LABELLA ASSOCIATES<br>Address: 300 STATE ST<br>ROCHESTER, NY 14614<br>Phone: 585-454-6110<br>Email: jgillen@labellapc.com<br>Email: slogan@labellapc.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | <b>Project Manager:</b> JEN GALEN<br><b>ALPHAQuote #:</b><br><b>Turn-Around Time</b><br>Standard <input checked="" type="checkbox"/> Rush (only if pre approved) <input type="checkbox"/>                                                                                    |           | <b>Regulatory Requirement</b><br><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375<br><input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51<br><input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other<br><input type="checkbox"/> NY Unrestricted Use<br><input type="checkbox"/> NYC Sewer Discharge |    | <b>Disposal Site Information</b><br>Please identify below location of applicable disposal facilities.<br>Disposal Facility:<br><input type="checkbox"/> NJ <input type="checkbox"/> NY<br><input type="checkbox"/> Other: |                    |                             |                 |     |          |         |            |             |      |               |                    |                |                 |          |          |         |            |             |      |  |  |  |  |  |  |     |               |  |      |  |  |   |  |  |  |  |  |  |  |     |                |  |      |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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                                              |  |
| These samples have been previously analyzed by Alpha <input type="checkbox"/><br>Other project specific requirements/comments:<br><div style="text-align: center; font-size: 2em; margin-top: 10px;">TAL</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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type="checkbox"/> Done<br><input type="checkbox"/> Lab to do<br><input type="checkbox"/> Lab to do<br>(Please Specify below)                                                                                                                                                                                                 |    | Total Bottles                                                                                                                                                                                                             |                    |                             |                 |     |          |         |            |             |      |               |                    |                |                 |          |          |         |            |             |      |  |  |  |  |  |  |     |               |  |      |  |  |   |  |  |  |  |  |  |  |     |                |  |      |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  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| Please specify Metals or TAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID<br/>(Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TCL VOC + TICs</th> <th rowspan="2">TCL SVOC + TICs</th> <th rowspan="2">PCB</th> <th rowspan="2">RESIDUES</th> <th rowspan="2">CYANIDE</th> <th rowspan="2">TAL METALS</th> <th rowspan="2">1,4 DIOXANE</th> <th rowspan="2">PFAS</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>60377-01</td> <td>DIS-01-121719</td> <td>12/17/19</td> <td>1100</td> <td>SOIL</td> <td>SL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-02</td> <td>DIS-02-121719</td> <td></td> <td>1130</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-03</td> <td>COMP-01-121719</td> <td></td> <td>1200</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> 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ID | Collection                                                                                                                                                                                                                                                                                                                                                      |    | Sample Matrix                                                                                                                                                                                                             | Sampler's Initials | TCL VOC + TICs              | TCL SVOC + TICs | PCB | RESIDUES | CYANIDE | TAL METALS | 1,4 DIOXANE | PFAS | Date          | Time               | 60377-01       | DIS-01-121719   | 12/17/19 | 1100     | SOIL    | SL         | X           |      |  |  |  |  |  |  | -02 | DIS-02-121719 |  | 1130 |  |  | X |  |  |  |  |  |  |  | -03 | COMP-01-121719 |  | 1200 |  |  |  | X | X | X | X | X | X | X 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Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.) |           |                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                                                                                                                                                                           |                    |                             |                 |     |          |         |            |             |      |               |                    |                |                 |          |          |         |            |             |      |  |  |  |  |  |  |     |               |  |      |  |  |   |  |  |  |  |  |  |  |     |                |  |      |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                 |  |                                                                                                                                                         |  |                                                                         |  |                                |  |                                                                                                                  |  |



# APPENDIX H

## **Data Usability Summary Reports**

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

872 HUDSON AVE.

FORMER WALLENSACK OPTICAL

Project 2182207

SDG: L1961284

Sampled 12/20/2019

VOLATILE ORGANICS, SEMIVOLATILE ORGANICS

|                       |               |
|-----------------------|---------------|
| TANK-EAST-122019(10') | (L1961284-01) |
| TANK-BOT-122019(11')  | (L1961284-02) |
| TANK-WEST-122019(8')  | (L1961284-03) |
| TANK-SOUTH-122019(8') | (L1961284-04) |
| TANK-NORTH-122019(8') | (L1961284-05) |
| DUP-01-122019         | (L1961284-06) |

DATA ASSESSMENT

An ASP Category B data package containing analytical results for six soil samples was received from Labella Associates, P.C. on 31Des19. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 872 Hudson Ave. Site, were identified by Chain of Custody documents and traceable through the work of Alpha Analytical, the laboratory contracted for analysis. Analyses, performed according to SW-846 Methods, addressed determinations of volatile organics and semivolatile. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation and SOP NO. HW-35, Rev. #2, March 2013, Semivolatile Data Validation) were used as a technical reference.

The acetone concentration found in Tank-North-122019(8') has been qualified as an estimation because it may represent a laboratory artifact.

The bromomethane, chloroethane, trichlorofluoromethane and 1,1-dichloroethene results from Tank-East-122019(10') and the trichloroethene results from the remaining samples have been qualified as estimations due to poor calibration performance. The 2-chloronaphthalene and 2,6-dinitrotoluene results from this group of samples and the 4,6-dinitro-o-cresol results from Tank-East-122019(10'), Tank-Bot-122019(11') and Tank-North-122019(8') have also been qualified do to poor calibration performance.

The positive results from Tank-Bot-122019(11') have been qualified as estimations due to a high surrogate standard recovery.

The 1,1,2,2-tetrachloroethane, ethylbenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, 1,2,4-trichlorobenzene, 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene results from Tank-North-122019(8') have been qualified as estimations due to low spiked sample recoveries.

The 2,4-dinitrophenol and 4,6-dinitro-o-cresol results from Tank-North-122019(8') have been rejected due to low spiked sample recoveries.

The 2,4-dinitrophenol results from this project have been qualified as estimations due to low spiked blank (LCS) recoveries.

One DUP-01-122019 TIC that was reported as an "Unknown Naphthalene" has been edited to provide a positive identification of 1,2,3,4-tetrahydronaphthlene.



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CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: \_\_\_\_\_  
James B. Baldwin  
DATAVAL Inc.

Date: \_\_\_\_\_

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation, or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to  $4 \pm 2^\circ\text{C}$  between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days, unpreserved VOC samples within 7 days. The holding time for VOC soils is 14 days. Aqueous semivolatile organics, pesticide and PCB samples must be extracted within seven days of collection. Soils must be extracted within 14 days. The extracts must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This delivery group contained six soil samples that were collected from the 872 Hudson Ave. site and delivered to the laboratory, via a laboratory courier, on 20Dec19. At the time of receipt the cooler of samples was found to be intact and packed with ice. A cooler temperature of  $4.5^\circ\text{C}$  was recorded at the time of receipt.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics between 27Dec19 and 30Dec19. The SW-846 holding time requirements were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Trip blanks monitor sample transport and storage operations. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Three method blanks were analyzed with this group of samples. Although these blanks produced acceptable chromatography, they contained traces of chloromethane, bromomethane and MTBE. One blank also contained a TIC that was identified as column bleed and additional TIC's eluting at 11.13, 13.06 and 14.6 minutes. The presence of these artifacts, however, warrants no concern because they were not found in the associated samples.

Although not found in the associated blank, acetone was found in TANK-NORTH-122019(8'). This concentration has been qualified as an estimation because low levels of acetone frequently represent laboratory artifacts. Acetone could not be removed from the sample report because it was not detected in the associated blank.

It is noted that the laboratory analyzed the V11191227A05 blank as a low level sample and then recalculated the results as a high

level sample. This is considered to be an improper operation because the sample manipulations are not the same for high and low level samples. TANK-WEST-122019(8'), TANK-BOT-122019(11'), DUP-01-122019 and TANK-SOUTH-122019(8') were associated with the incorrectly reported high level blank.

#### MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this project satisfied the program acceptance criteria.

#### Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations were performed on 11Dec19 and 20Dec19. Standards of 0.5, 1.0, 2.0, 4.0, 20, 40, 100, 200 and 300 µg/l were included. With the exception of trichloroethene on 20Dec19, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during these calibrations. Trichloroethene standards, however, failed to produce the required levels of instrument response on 20Dec19. The trichloroethene (TCE) results from TANK-WEST-122019(8'), TANK-BOT-122019(11'), DUP-01-122019, TANK-NORTH-122019 and TANK-SOUTH-122019(8') have been qualified as estimations based on this performance.

Calibration check standards were analyzed on 27Dec19, 28Dec19 and 30Dec19, prior to the analysis of program samples. When compared to the initial calibration, unacceptable shifts were observed in the instrument response of bromomethane (82%), chloroethane (98%), trichlorofluoromethane (96%) and 1,1-dichloroethene (40%). The bromomethane, chloroethane, trichlorofluoromethane and 1,1-dichloroethene results from TANK-EAST-122019 have been qualified as estimations based on this performance. It is noted that the response of trichloroethene remained low on 27Dec19 and 30Dec19.

#### Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate

overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an unacceptably high recovery of 122% was reported for the 1,2-dichloroethane-d4 addition to TANK-BOT-122019(11'). The positive results obtained from this sample have been qualified as estimations based on this indication of bias.

#### Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was demonstrated by each internal standard addition to this group of samples.

#### Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

TANK-NORTH-122019(8') was selected for matrix spiking. Each targeted analyte was added to two portions of this sample. The recoveries reported for these spikes included low results for 1,1,2,2-tetrachloroethane (67%,66%), ethylbenzene (67%), 1,2-dichlorobenzene (53%,54%), 1,3-dichlorobenzene (50%,54%), 1,4-dichlorobenzene (48%,52%), acetone (0%,4%), n-butylbenzene (39%,54%), sec-butylbenzene (49%,64%), tert-butylbenzene (56%,69%), isopropylbenzene (56%), p-isopropyltoluene (48%,63%), naphthalene (61%,48%), n-propylbenzene (51%,65%), 1,2,4-trichlorobenzene (47%,48%), 1,3,5-trimethylbenzene (54%,64%) and 1,2,4-trimethylbenzene (54%,62%), and a high recovery of methyl acetate (143%).

The positive bias indicated by the high recovery of methyl acetate warrants no concern because this analyte was not detected in TANK-NORTH-122019(8'). The 1,1,2,2-tetrachloroethane, ethylbenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, 1,2,4-trichlorobenzene, 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene results from TANK-NORTH-122019(8')

have been qualified as estimations based on these indications of negative bias. The acetone result has been rejected.

Four pairs of spiked blanks (LCS/LCSD) were also analyzed with this group of samples. The recoveries reported for these LCS samples included high results for trichlorofluoromethane (196%,187%), bromomethane (182%,174%), vinyl chloride (138%), chloroethane (198%,190%), 1,1-dichloroethene (140%), dichlorodifluoromethane (138%,134%), carbon disulfide (136%) and Freon 13 (137%). These indications of positive bias warrant no concern because these analytes were not detected in TANK-EAST-122019(10'), the only associated sample.

#### Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The field split duplicate sample that was included in this delivery group was not identified.

#### Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

One DUP-01-122019 TIC that was reported as an "Unknown Naphthalene" has been edited to provide a positive identification of 1,2,3,4-tetrahydronaphthalene.

#### SEMIVOLATILE ORGANICS

This group of samples was extracted for SVOC analysis on 22Dec19, and the extracts were analyzed on 24Dec19 and 26Dec19. The SW-846 holding time requirements were satisfied.

#### Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank produced acceptable chromatography and was free of targeted analyte contamination.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of DFTPP was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each DFTPP evaluation. The DFTPP tunes associated with this project satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations for SVOC were performed on 09Jun19, 06Oct19 and 01Dec19. Standards of 1.0, 2.0, 3.0, 5.0, 10, 20, 50, 100, 150 and 200 µg/ml were included. With the exception of 2-chloronaphthalene and 2,6-dinitrotoluene, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during these calibrations. 2-Chloronaphthalene and 2,6-dinitrotoluene, however, failed to produce the required minimum levels of instrument response. The 2-chloronaphthalene and 2,6-dinitrotoluene results from this project have been qualified as estimations based on this performance.

Calibration check standards were analyzed on 23Dec19, 24Dec19 and 26Dec19, prior to each 12-hour periods of instrument operation that included samples from this program. When compared to the initial calibrations, an unacceptable shift was observed in the instrument response of 4,6-dinitro-o-cresol. The 4,6-dinitro-o-cresol results from Tank-East-122019(10'), Tank-Bot-122019(11') and Tank-North-122019(8') have been qualified as estimations based on this performance. It is noted that the response of 2-chloronaphthalene and 2,6-dinitrotoluene remained low during each check.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an unacceptably high recovery of

133% was reported for the nitrobenzene-d5 addition to Tank-West-122019(8'). This performance had no impact on reported data, however, because two outlying acid and two outlying base/neutral surrogates are permitted.

#### Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was demonstrated by each internal standard addition to this group of samples.

#### Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Tank-North-122019(8') was selected for matrix spiking. Each targeted analyte was added to two portions of this sample. The recoveries reported for these spikes included low results for 2,4-dinitrophenol (10%,9%) and 4,6-dinitro-o-cresol (17%,12%). The 2,4-dinitrophenol and 4,6-dinitro-o-cresol results from Tank-North-122019(8') have been rejected due to these indications of strong negative bias. The remaining targeted analytes demonstrated acceptable levels of measurement precision and accuracy.

A pair of spiked blanks (LCS/LCSD) was also analyzed with this group of samples. The recoveries reported for these LCS samples included low results for 2,4-dinitrophenol (22%,25%). The 2,4-dinitrophenol results from this delivery group have been qualified as estimations based on this performance.

#### Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The field split duplicate sample that was included in this delivery group was not identified.

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Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.



# SUMMARY OF QUALIFIED DATA

FORMER WOLLENSACK OPTICAL (872 HUDSON AVE)

SAMPLED: DECEMBER 2019

|                                     | BLANK<br>ACETONE | CALIBRATE<br>TCE | CALIBRATE<br>CAL1* | SURROGATE<br>VOC | SPIKES<br>MS1* | VOC<br>TIC |         |
|-------------------------------------|------------------|------------------|--------------------|------------------|----------------|------------|---------|
| TANK-EAST-122019(10') (L1961284-01) |                  |                  | ALL UJ             |                  |                |            |         |
| TANK-BOT-122019(11') (L1961284-02)  |                  | 58UJ             |                    | ALL POS J        |                |            |         |
| TANK-WEST-122019(8') (L1961284-03)  |                  | 150J             |                    |                  |                |            |         |
| TANK-SOUTH-122019(8') (L1961284-04) |                  | 31J              |                    |                  |                |            |         |
| TANK-NORTH-122019(8') (L1961284-05) | 64J              | 0.82J            |                    |                  | ALL UJ         |            |         |
| DUP-01-122019 (L1961284-06)         |                  | 100UJ            |                    |                  |                |            | CORRECT |

CAL1\* = bromomethane, chloroethane, trichlorofluoromethane, 1,1-dichloroethene

MS1\* = 1,1,2,2-tetrachloroethane, ethylbenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, 1,2,4-trichlorobenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene

# SUMMARY OF QUALIFIED DATA

FORMER WOLLENSACK OPTICAL (872 HUDSON AVE)

SAMPLED: DECEMBER 2019

|                                     | CALIBRATE<br>CAL2* | CALIBRATE<br>CAL3* | SPIKES<br>MS2* | SPIKED BLANK<br>2,4-DINITROPHENOL |
|-------------------------------------|--------------------|--------------------|----------------|-----------------------------------|
| TANK-EAST-122019(10') (L1961284-01) |                    | ALL UJ             |                | 890UJ                             |
| TANK-BOT-122019(11') (L1961284-02)  |                    | ALL UJ             |                | 960UJ                             |
| TANK-WEST-122019(8') (L1961284-03)  | ALL UJ             |                    |                | 9600UJ                            |
| TANK-SOUTH-122019(8') (L1961284-04) | ALL UJ             |                    |                | 4600UJ                            |
| TANK-NORTH-122019(8') (L1961284-05) |                    | ALL UJ             | ALL R          |                                   |
| DUP-01-122019 (L1961284-06)         | ALL UJ             |                    |                | 4400UJ                            |

CAL2\* = 2-chloronaphthalene, 2,6-dinitrotoluene

CAL3\* = 4,6-dinitro-o-cresol, 2-chloronaphthalene, 2,6-dinitrotoluene

MS2\* = 2,4-dinitrophenol, 4,6-dinitro-o-cresol

# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A06  
 Sample Amount : 6.8 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/28/19 09:43  
 Dilution Factor : 1  
 Analyst : AD  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : 89  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 4.1  | 1.9  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 0.82 | 0.12 | U         |
| 67-66-3    | Chloroform                | ND      | 1.2  | 0.12 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 0.82 | 0.19 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 0.82 | 0.10 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 0.82 | 0.12 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 0.82 | 0.22 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.41 | 0.16 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.41 | 0.10 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 3.3  | 0.57 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 0.82 | 0.21 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.41 | 0.14 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.41 | 0.09 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 0.82 | 0.22 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.41 | 0.13 | U         |
| 75-25-2    | Bromoform                 | ND      | 3.3  | 0.20 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.41 | 0.14 | U         |
| 71-43-2    | Benzene                   | ND      | 0.41 | 0.14 | U         |
| 108-88-3   | Toluene                   | ND      | 0.82 | 0.45 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 0.82 | 0.12 | U         |
| 74-87-3    | Chloromethane             | ND      | 3.3  | 0.77 | U         |
| 74-83-9    | Bromomethane              | ND      | 1.6  | 0.48 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 0.82 | 0.28 | U         |
| 75-00-3    | Chloroethane              | ND      | 1.6  | 0.37 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 0.82 | 0.20 | U         |

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# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A06  
 Sample Amount : 6.8 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/28/19 09:43  
 Dilution Factor : 1  
 Analyst : AD  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : 89  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | 0.43    | 1.2  | 0.11 | J         |
| 79-01-6     | Trichloroethene             | ND      | 0.41 | 0.11 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 1.6  | 0.12 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 1.6  | 0.12 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 1.6  | 0.14 | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 1.6  | 0.16 | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 1.6  | 0.46 | U         |
| 95-47-6     | o-Xylene                    | ND      | 0.82 | 0.24 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 0.82 | 0.14 | U         |
| 100-42-5    | Styrene                     | ND      | 0.82 | 0.16 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 8.2  | 0.75 | U         |
| 67-64-1     | Acetone                     | ND      | 8.2  | 4.0  | U         |
| 75-15-0     | Carbon disulfide            | ND      | 8.2  | 3.7  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 8.2  | 1.8  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 8.2  | 1.0  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 8.2  | 0.97 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 0.82 | 0.23 | U         |
| 104-51-8    | n-Butylbenzene              | 0.77    | 0.82 | 0.14 | J         |
| 135-98-8    | sec-Butylbenzene            | 0.17    | 0.82 | 0.12 | J         |
| 98-06-6     | tert-Butylbenzene           | ND      | 1.6  | 0.10 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 2.5  | 0.82 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 0.82 | 0.09 | U         |
| 99-87-6     | p-Isopropyltoluene          | 0.31    | 0.82 | 0.09 | J         |
| 91-20-3     | Naphthalene                 | 9.0     | 3.3  | 0.53 |           |
| 103-65-1    | n-Propylbenzene             | ND      | 0.82 | 0.14 | U         |

*MS*



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A06  
 Sample Amount : 6.8 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/28/19 09:43  
 Dilution Factor : 1  
 Analyst : AD  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : 89  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 1.6 | 0.22 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.20    | 1.6 | 0.16 | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 1.2     | 1.6 | 0.27 | J         |
| 79-20-9  | Methyl Acetate         | ND      | 3.3 | 0.78 | U         |
| 110-82-7 | Cyclohexane            | ND      | 8.2 | 0.45 | U         |
| 76-13-1  | Freon-113              | ND      | 3.3 | 0.57 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 3.3 | 0.50 | U         |

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# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A06  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/28/19 09:43  
 Dilution Factor : 1  
 Analyst : AD  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : 89  
 Injection Volume : 1

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number  | Compound Name       | RT    | EST. CONC. | Qualifier |
|-------------|---------------------|-------|------------|-----------|
| 001120-21-4 | Undecane            | 12.60 | 93.9       | NJ        |
|             | Unknown Alkane      | 13.60 | 124        | J         |
|             | Unknown Alkane      | 13.76 | 48.8       | J         |
|             | Unknown Benzene     | 13.84 | 58         | J         |
|             | Unknown             | 14.14 | 90.5       | J         |
|             | Unknown Alkane      | 14.46 | 209        | J         |
|             | Unknown             | 14.96 | 52.4       | J         |
|             | Unknown Alkane      | 15.10 | 95.2       | J         |
|             | Unknown Alkane      | 15.22 | 160        | J         |
|             | Unknown Aromatic    | 15.47 | 111        | J         |
|             | Unknown Aromatic    | 15.62 | 54.6       | J         |
|             | Unknown Alkane      | 15.75 | 50.1       | J         |
|             | Unknown Alkane      | 16.01 | 67.3       | J         |
|             | Unknown Naphthalene | 16.46 | 59.6       | J         |
|             | Unknown Naphthalene | 16.60 | 64         | J         |
|             | Total TIC Compounds |       | 1340J      | J         |

MB



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02D  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A12  
 Sample Amount : 6.6 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:55  
 Dilution Factor : 2  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 81  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 580 | 260 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 120 | 17. | U         |
| 67-66-3    | Chloroform                | ND      | 170 | 16. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 120 | 26. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 120 | 14. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 120 | 16. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 120 | 31. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 58  | 23. | U         |
| 108-90-7   | Chlorobenzene             | ND      | 58  | 15. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 460 | 80. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 120 | 30. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 58  | 19. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 58  | 13. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 120 | 32. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 58  | 18. | U         |
| 75-25-2    | Bromoform                 | ND      | 460 | 28. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 58  | 19. | U         |
| 71-43-2    | Benzene                   | ND      | 58  | 19. | U         |
| 108-88-3   | Toluene                   | ND      | 120 | 63. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 120 | 16. | U         |
| 74-87-3    | Chloromethane             | ND      | 460 | 110 | U         |
| 74-83-9    | Bromomethane              | ND      | 230 | 67. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 120 | 39. | U         |
| 75-00-3    | Chloroethane              | ND      | 230 | 52. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 120 | 28. | U         |

*MS*



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02D  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A12  
 Sample Amount : 6.6 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:55  
 Dilution Factor : 2  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 81  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |     | Qualifier |
|-------------|-----------------------------|---------|------|-----|-----------|
|             |                             | Results | RL   | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 170  | 16. | U         |
| 79-01-6     | Trichloroethene             | ND J    | 58   | 16. | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 230  | 17. | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 230  | 17. | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 230  | 20. | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 230  | 23. | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 230  | 65. | U         |
| 95-47-6     | o-Xylene                    | ND      | 120  | 34. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 120  | 20. | U         |
| 100-42-5    | Styrene                     | ND      | 120  | 23. | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 1200 | 100 | U         |
| 67-64-1     | Acetone                     | ND      | 1200 | 560 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 1200 | 530 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 1200 | 260 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 1200 | 150 | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 1200 | 140 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 120  | 32. | U         |
| 104-51-8    | n-Butylbenzene              | 31 J    | 120  | 19. | J         |
| 135-98-8    | sec-Butylbenzene            | ND      | 120  | 17. | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 230  | 14. | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 350  | 120 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 120  | 13. | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 120  | 13. | U         |
| 91-20-3     | Naphthalene                 | 1600 J  | 460  | 75. |           |
| 103-65-1    | n-Propylbenzene             | ND      | 120  | 20. | U         |

MB





# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02D  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A12  
 Sample Amount : 6.6 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:55  
 Dilution Factor : 2  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 81  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 230  | 31. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 230  | 22. | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 230  | 39. | U         |
| 79-20-9  | Methyl Acetate         | ND      | 460  | 110 | U         |
| 110-82-7 | Cyclohexane            | ND      | 1200 | 63. | U         |
| 76-13-1  | Freon-113              | ND      | 460  | 80. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 460  | 70. | U         |

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# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02D  
 Client ID : TANK-BOT-122019 (11")  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A12  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:55  
 Dilution Factor : 2  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 81  
 Injection Volume : 0.05 g

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name       | RT    | EST. CONC. | Qualifier |
|-------------|---------------------|-------|------------|-----------|
| 000112-40-3 | Dodecane            | 13.07 | 2640       | NJ        |
|             | Unknown Benzene     | 13.26 | 1970       | J         |
|             | Unknown Benzene     | 13.59 | 2640       | J         |
|             | Unknown Naphthalene | 14.26 | 2140       | J         |
|             | Unknown Aromatic    | 14.42 | 1650       | J         |
|             | Unknown Aromatic    | 14.88 | 6040       | J         |
|             | Unknown Aromatic    | 15.01 | 3380       | J         |
|             | Unknown Naphthalene | 15.76 | 3630       | J         |
|             | Unknown Naphthalene | 15.88 | 3370       | J         |
|             | Unknown Naphthalene | 15.91 | 1780       | J         |
|             | Total TIC Compounds |       | 29200J     | J         |

M



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A10  
 Sample Amount : 6.3 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:05  
 Dilution Factor : 4  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |     | Qualifier |
|------------|---------------------------|---------|------|-----|-----------|
|            |                           | Results | RL   | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 1200 | 530 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 230  | 34. | U         |
| 67-66-3    | Chloroform                | ND      | 350  | 33. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 230  | 54. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 230  | 29. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 230  | 33. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 230  | 62. | U         |
| 127-18-4   | Tetrachloroethene         | 79      | 120  | 46. | J         |
| 108-90-7   | Chlorobenzene             | ND      | 120  | 30. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 930  | 160 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 230  | 60. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 120  | 39. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 120  | 25. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 230  | 64. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 120  | 37. | U         |
| 75-25-2    | Bromoform                 | ND      | 930  | 57. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 120  | 39. | U         |
| 71-43-2    | Benzene                   | ND      | 120  | 39. | U         |
| 108-88-3   | Toluene                   | ND      | 230  | 130 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 230  | 33. | U         |
| 74-87-3    | Chloromethane             | ND      | 930  | 220 | U         |
| 74-83-9    | Bromomethane              | ND      | 470  | 140 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 230  | 78. | U         |
| 75-00-3    | Chloroethane              | ND      | 470  | 100 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 230  | 55. | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A10  
 Sample Amount : 6.3 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:05  
 Dilution Factor : 4  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 350  | 32.  | U         |
| 79-01-6     | Trichloroethene             | 150 J   | 120  | 32.  |           |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 470  | 34.  | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 470  | 34.  | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 470  | 40.  | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 470  | 47.  | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 470  | 130  | U         |
| 95-47-6     | o-Xylene                    | ND      | 230  | 68.  | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 230  | 41.  | U         |
| 100-42-5    | Styrene                     | ND      | 230  | 46.  | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 2300 | 210  | U         |
| 67-64-1     | Acetone                     | ND      | 2300 | 1100 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 2300 | 1100 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 2300 | 520  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 2300 | 300  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 2300 | 270  | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 230  | 65.  | U         |
| 104-51-8    | n-Butylbenzene              | 980     | 230  | 39.  |           |
| 135-98-8    | sec-Butylbenzene            | 270     | 230  | 34.  |           |
| 98-06-6     | tert-Butylbenzene           | ND      | 470  | 27.  | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 700  | 230  | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 230  | 25.  | U         |
| 99-87-6     | p-Isopropyltoluene          | 440     | 230  | 25.  |           |
| 91-20-3     | Naphthalene                 | 6300    | 930  | 150  |           |
| 103-65-1    | n-Propylbenzene             | 60      | 230  | 40.  | J         |

M



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A10  
 Sample Amount : 6.3 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:05  
 Dilution Factor : 4  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 470  | 63. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 440     | 470  | 45. | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 2500    | 470  | 78. |           |
| 79-20-9  | Methyl Acetate         | ND      | 930  | 220 | U         |
| 110-82-7 | Cyclohexane            | ND      | 2300 | 130 | U         |
| 76-13-1  | Freon-113              | ND      | 930  | 160 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 930  | 140 | U         |

715



**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A10  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:05  
 Dilution Factor : 4  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : 0.025 g

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name                  | RT    | EST. CONC. | Qualifier |
|-------------|--------------------------------|-------|------------|-----------|
|             | Unknown                        | 13.07 | 15200      | J         |
|             | Unknown Benzene                | 13.24 | 15000      | J         |
|             | Unknown Benzene                | 13.26 | 13800      | J         |
| 056253-64-6 | Benzene, (2-methyl-1-butenyl)- | 13.59 | 23500      | NJ        |
|             | Unknown Benzene                | 13.67 | 12800      | J         |
|             | Unknown Aromatic               | 14.26 | 14300      | J         |
|             | Unknown Aromatic               | 14.56 | 9120       | J         |
|             | Unknown Aromatic               | 14.88 | 20600      | J         |
|             | Unknown Aromatic               | 15.01 | 9740       | J         |
|             | Unknown Naphthalene            | 15.76 | 9450       | J         |
|             | Total TIC Compounds            |       | 144000J    | J         |

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# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8")  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A13  
 Sample Amount : 7.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/30/19 10:39  
 Dilution Factor : 2  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 87  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 480 | 220 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 97  | 14. | U         |
| 67-66-3    | Chloroform                | ND      | 140 | 14. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 97  | 22. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 97  | 12. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 97  | 14. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 97  | 26. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 48  | 19. | U         |
| 108-90-7   | Chlorobenzene             | ND      | 48  | 12. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 390 | 67. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 97  | 25. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 48  | 16. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 48  | 10. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 97  | 26. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 48  | 15. | U         |
| 75-25-2    | Bromoform                 | ND      | 390 | 24. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 48  | 16. | U         |
| 71-43-2    | Benzene                   | ND      | 48  | 16. | U         |
| 108-88-3   | Toluene                   | ND      | 97  | 52. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 97  | 14. | U         |
| 74-87-3    | Chloromethane             | ND      | 390 | 90. | U         |
| 74-83-9    | Bromomethane              | ND      | 190 | 56. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 97  | 32. | U         |
| 75-00-3    | Chloroethane              | ND      | 190 | 44. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 97  | 23. | U         |

*MS*



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8")  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A13  
 Sample Amount : 7.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/30/19 10:39  
 Dilution Factor : 2  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 87  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |     |     | Qualifier |
|-------------|-----------------------------|---------|-----|-----|-----------|
|             |                             | Results | RL  | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 140 | 13. | U         |
| 79-01-6     | Trichloroethene             | 31 J    | 48  | 13. | J         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 190 | 14. | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 190 | 14. | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 190 | 16. | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 190 | 19. | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 190 | 54. | U         |
| 95-47-6     | o-Xylene                    | ND      | 97  | 28. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 97  | 17. | U         |
| 100-42-5    | Styrene                     | ND      | 97  | 19. | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 970 | 88. | U         |
| 67-64-1     | Acetone                     | ND      | 970 | 460 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 970 | 440 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 970 | 210 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 970 | 120 | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 970 | 110 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 97  | 27. | U         |
| 104-51-8    | n-Butylbenzene              | 380     | 97  | 16. |           |
| 135-98-8    | sec-Butylbenzene            | 49      | 97  | 14. | J         |
| 98-06-6     | tert-Butylbenzene           | ND      | 190 | 11. | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 290 | 97. | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 97  | 10. | U         |
| 99-87-6     | p-Isopropyltoluene          | 90      | 97  | 10. | J         |
| 91-20-3     | Naphthalene                 | 2200    | 390 | 63. |           |
| 103-65-1    | n-Propylbenzene             | ND      | 97  | 16. | U         |

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# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A13  
 Sample Amount : 7.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/30/19 10:39  
 Dilution Factor : 2  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 87  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 190 | 26. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 58      | 190 | 19. | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 380     | 190 | 32. |           |
| 79-20-9  | Methyl Acetate         | ND      | 390 | 92. | U         |
| 110-82-7 | Cyclohexane            | ND      | 970 | 53. | U         |
| 76-13-1  | Freon-113              | ND      | 390 | 67. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 390 | 58. | U         |

JK



**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A13  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/30/19 10:39  
 Dilution Factor : 2  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 87  
 Injection Volume : 0.05 g

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT    | EST. CONC. | Qualifier |
|------------|---------------------|-------|------------|-----------|
|            | Unknown Benzene     | 13.24 | 4420       | J         |
|            | Unknown Benzene     | 13.26 | 3720       | J         |
|            | Unknown Benzene     | 13.59 | 7080       | J         |
|            | Unknown Aromatic    | 13.67 | 4470       | J         |
|            | Unknown Naphthalene | 14.26 | 4640       | J         |
|            | Unknown Aromatic    | 14.42 | 3160       | J         |
|            | Unknown Aromatic    | 14.56 | 2810       | J         |
|            | Unknown Aromatic    | 14.88 | 7590       | J         |
|            | Unknown Aromatic    | 15.01 | 3670       | J         |
|            | Unknown Naphthalene | 15.76 | 3290       | J         |
|            | Total TIC Compounds |       | 44900J     | J         |

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# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A15  
 Sample Amount : 7.2 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 11:11  
 Dilution Factor : 1  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 4.2  | 1.9  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 0.83 | 0.12 | U         |
| 67-66-3    | Chloroform                | 0.29    | 1.2  | 0.12 | J         |
| 56-23-5    | Carbon tetrachloride      | ND      | 0.83 | 0.19 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 0.83 | 0.10 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 0.83 | 0.12 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 0.83 | 0.22 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.42 | 0.16 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.42 | 0.10 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 3.3  | 0.58 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 0.83 | 0.21 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.42 | 0.14 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.42 | 0.09 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 0.83 | 0.23 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.42 | 0.13 | U         |
| 75-25-2    | Bromoform                 | ND      | 3.3  | 0.20 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.42 | 0.14 | U         |
| 71-43-2    | Benzene                   | ND      | 0.42 | 0.14 | U         |
| 108-88-3   | Toluene                   | ND      | 0.83 | 0.45 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 0.83 | 0.12 | U         |
| 74-87-3    | Chloromethane             | ND      | 3.3  | 0.78 | U         |
| 74-83-9    | Bromomethane              | ND      | 1.7  | 0.48 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 0.83 | 0.28 | U         |
| 75-00-3    | Chloroethane              | ND      | 1.7  | 0.38 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 0.83 | 0.20 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A15  
 Sample Amount : 7.2 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 11:11  
 Dilution Factor : 1  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 1.2  | 0.11 | U         |
| 79-01-6     | Trichloroethene             | 0.82 J  | 0.42 | 0.11 |           |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 1.7  | 0.12 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 1.7  | 0.12 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 1.7  | 0.14 | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 1.7  | 0.17 | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 1.7  | 0.47 | U         |
| 95-47-6     | o-Xylene                    | ND      | 0.83 | 0.24 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 0.83 | 0.14 | U         |
| 100-42-5    | Styrene                     | ND      | 0.83 | 0.16 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 8.3  | 0.76 | U         |
| 67-64-1     | Acetone                     | 64 J    | 8.3  | 4.0  |           |
| 75-15-0     | Carbon disulfide            | ND      | 8.3  | 3.8  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 8.3  | 1.8  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 8.3  | 1.1  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 8.3  | 0.98 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 0.83 | 0.23 | U         |
| 104-51-8    | n-Butylbenzene              | ND UJ   | 0.83 | 0.14 | U         |
| 135-98-8    | sec-Butylbenzene            | ND UJ   | 0.83 | 0.12 | U         |
| 98-06-6     | tert-Butylbenzene           | ND UJ   | 1.7  | 0.10 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 2.5  | 0.83 | U         |
| 98-82-8     | Isopropylbenzene            | ND UJ   | 0.83 | 0.09 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND UJ   | 0.83 | 0.09 | U         |
| 91-20-3     | Naphthalene                 | ND UJ   | 3.3  | 0.54 | U         |
| 103-65-1    | n-Propylbenzene             | ND UJ   | 0.83 | 0.14 | U         |

MK



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A15  
 Sample Amount : 7.2 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 11:11  
 Dilution Factor : 1  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 1.7 | 0.23 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 1.7 | 0.16 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 1.7 | 0.28 | U         |
| 79-20-9  | Methyl Acetate         | 1.6     | 3.3 | 0.79 | J         |
| 110-82-7 | Cyclohexane            | ND      | 8.3 | 0.45 | U         |
| 76-13-1  | Freon-113              | ND      | 3.3 | 0.58 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 3.3 | 0.50 | U         |

JMS



# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A15  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 11:11  
 Dilution Factor : 1  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : 1

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name           | RT    | EST. CONC. | Qualifier |
|-------------|-------------------------|-------|------------|-----------|
|             | Unknown Alkane          | 12.01 | 6.59       | J         |
| 000112-40-3 | Dodecane                | 13.06 | 10.5       | NJ        |
| 017301-23-4 | Undecane, 2,6-dimethyl- | 13.23 | 6.09       | NJ        |
|             | Unknown                 | 13.59 | 9.91       | J         |
|             | Unknown Aromatic        | 13.66 | 4.34       | J         |
| 000629-50-5 | Tridecane               | 13.94 | 10.7       | NJ        |
|             | Unknown Alkane          | 14.71 | 10.3       | J         |
| 000629-62-9 | Pentadecane             | 15.43 | 5.9        | NJ        |
|             | Unknown Naphthalene     | 15.76 | 5.72       | J         |
|             | Unknown Naphthalene     | 15.88 | 4.64       | J         |
|             | Total TIC Compounds     |       | 74.7J      | J         |

*MS*



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A14  
 Sample Amount : 6.4 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 10:45  
 Dilution Factor : 4  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 88  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |     | Qualifier |
|------------|---------------------------|---------|------|-----|-----------|
|            |                           | Results | RL   | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 1000 | 470 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 200  | 30. | U         |
| 67-66-3    | Chloroform                | ND      | 310  | 29. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 200  | 47. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 200  | 26. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 200  | 29. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 200  | 55. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 100  | 40. | U         |
| 108-90-7   | Chlorobenzene             | ND      | 100  | 26. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 820  | 140 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 200  | 52. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 100  | 34. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 100  | 22. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 200  | 56. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 100  | 32. | U         |
| 75-25-2    | Bromoform                 | ND      | 820  | 50. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 100  | 34. | U         |
| 71-43-2    | Benzene                   | ND      | 100  | 34. | U         |
| 108-88-3   | Toluene                   | ND      | 200  | 110 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 200  | 29. | U         |
| 74-87-3    | Chloromethane             | ND      | 820  | 190 | U         |
| 74-83-9    | Bromomethane              | ND      | 410  | 120 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 200  | 68. | U         |
| 75-00-3    | Chloroethane              | ND      | 410  | 92. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 200  | 49. | U         |

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# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-06D  
Client ID : DUP-01-122019  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191227A14  
Sample Amount : 6.4 g  
Level : HIGH  
Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 00:00  
Date Received : 12/20/19  
Date Analyzed : 12/27/19 10:45  
Dilution Factor : 4  
Analyst : JC  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : 88  
Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |     | Qualifier |
|-------------|-----------------------------|---------|------|-----|-----------|
|             |                             | Results | RL   | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 310  | 28. | U         |
| 79-01-6     | Trichloroethene             | ND      | 100  | 28. | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 410  | 29. | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 410  | 30. | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 410  | 35. | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 410  | 41. | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 410  | 110 | U         |
| 95-47-6     | o-Xylene                    | ND      | 200  | 60. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 200  | 36. | U         |
| 100-42-5    | Styrene                     | ND      | 200  | 40. | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 2000 | 190 | U         |
| 67-64-1     | Acetone                     | ND      | 2000 | 980 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 2000 | 930 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 2000 | 450 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 2000 | 260 | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 2000 | 240 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 200  | 57. | U         |
| 104-51-8    | n-Butylbenzene              | 1400    | 200  | 34. |           |
| 135-98-8    | sec-Butylbenzene            | 200     | 200  | 30. |           |
| 98-06-6     | tert-Butylbenzene           | ND      | 410  | 24. | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 610  | 200 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 200  | 22. | U         |
| 99-87-6     | p-Isopropyltoluene          | 390     | 200  | 22. |           |
| 91-20-3     | Naphthalene                 | 10000   | 820  | 130 |           |
| 103-65-1    | n-Propylbenzene             | 47      | 200  | 35. | J         |

ms





# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A14  
 Sample Amount : 6.4 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 10:45  
 Dilution Factor : 4  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 88  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 410  | 56. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 250     | 410  | 39. | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 1800    | 410  | 68. |           |
| 79-20-9  | Methyl Acetate         | ND      | 820  | 190 | U         |
| 110-82-7 | Cyclohexane            | ND      | 2000 | 110 | U         |
| 76-13-1  | Freon-113              | ND      | 820  | 140 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 820  | 120 | U         |

*JK*



# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A14  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 10:45  
 Dilution Factor : 4  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 88  
 Injection Volume : 0.025 g

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name                                    | RT    | EST. CONC. | Qualifier |
|-------------|--------------------------------------------------|-------|------------|-----------|
|             | Unknown Alkane                                   | 12.37 | 10800      | J         |
|             | Unknown Cyclohexane                              | 12.58 | 10700      | J         |
| 000112-40-3 | Dodecane                                         | 13.07 | 48000      | NJ        |
| 017301-23-4 | Undecane, 2,6-dimethyl-                          | 13.23 | 26200      | NJ        |
|             | Unknown                                          | 13.31 | 11300      | J         |
|             | Unknown Benzene                                  | 13.59 | 36300      | J         |
|             | Unknown Aromatic                                 | 13.66 | 17800      | J         |
| 1559-81-5   | <del>Unknown</del> Naphthalene -1,2,3,4-tetrahyd | 14.26 | 15600      | J         |
|             | Unknown Aromatic                                 | 14.88 | 24400      | J         |
|             | Unknown Aromatic                                 | 15.01 | 11300      | J         |
|             | Total TIC Compounds                              |       | 212000J    | J         |

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# Surrogate Recovery Summary

## Form 2

### Volatiles

Client: LaBella Associates, P.C.  
Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1961284  
Project Number: 2182207  
Matrix: Soil

| CLIENT ID<br>(LAB SAMPLE NO.)         | SMC1<br>DCA | SMC2<br>TOL | SMC3<br>BFB | SMC4<br>DBFM | TOT<br>OUT |
|---------------------------------------|-------------|-------------|-------------|--------------|------------|
| TANK-EAST-122019 (10') (L1961284-01)  | 96          | 99 ✓        | 98 ✓        | 102 ✓        | 0          |
| TANK-BOT-122019 (11') (L1961284-02D)  | 122         | 99          | 90          | 104          | 0          |
| TANK-WEST-122019 (8') (L1961284-03D)  | 102         | 94          | 99          | 97           | 0          |
| TANK-SOUTH-122019 (8') (L1961284-04D) | 89          | 90          | 96          | 97           | 0          |
| TANK-NORTH-122019 (8') (L1961284-05)  | 91          | 93          | 98          | 97           | 0          |
| DUP-01-122019 (L1961284-06D)          | 92          | 94          | 104         | 94           | 0          |
| WG1325623-3LCS                        | 95          | 98          | 96          | 102          | 0          |
| WG1325623-4LCSD                       | 95          | 96          | 96          | 103          | 0          |
| WG1325623-5BLANK                      | 98          | 97          | 102         | 103          | 0          |
| WG1325768-3LCS                        | 96          | 99          | 100         | 104          | 0          |
| WG1325768-4LCSD                       | 95          | 96          | 111         | 99           | 0          |
| WG1325768-5BLANK                      | 95          | 100         | 93          | 95           | 0          |
| TANK-NORTH-122019 (8')MS              | 93          | 94          | 99          | 85           | 0          |
| TANK-NORTH-122019 (8')MSD             | 100         | 93          | 102         | 105          | 0          |
| WG1325770-3LCS                        | 96          | 99          | 100         | 104          | 0          |
| WG1325770-4LCSD                       | 95          | 96          | 110         | 100          | 0          |
| WG1325770-5BLANK                      | 95          | 100         | 93          | 95           | 0          |
| WG1325794-3LCS                        | 87          | 93          | 101         | 98           | 0          |
| WG1325794-4LCSD                       | 88          | 93          | 102         | 99           | 0          |
| WG1325794-5BLANK                      | 89          | 90          | 100         | 96           | 0          |

#### QC LIMITS

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

\* Values outside of QC limits

FORM II NYTCL-8260HLW-R2



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325623-3      Analysis Date : 12/28/19 07:27      File ID : VC191228A01 ✓  
 LCSD Sample ID : WG1325623-4      Analysis Date : 12/28/19 07:54      File ID : VC191228A02 ✓

| Parameter                 | Laboratory Control Sample |               |       | Laboratory Control Duplicate |               |       | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|-------|------------------------------|---------------|-------|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R    | True (ug/kg)                 | Found (ug/kg) | %R    |     |                 |           |
| Methylene chloride        | 40                        | 39            | 97    | 40                           | 38            | 96    | 1   | 70-130          | 30        |
| 1,1-Dichloroethane        | 40                        | 39            | 98    | 40                           | 38            | 96    | 2   | 70-130          | 30        |
| Chloroform                | 40                        | 40            | 100   | 40                           | 39            | 98    | 2   | 70-130          | 30        |
| Carbon tetrachloride      | 40                        | 41            | 104   | 40                           | 41            | 102   | 2   | 70-130          | 30        |
| 1,2-Dichloropropane       | 40                        | 39            | 97    | 40                           | 38            | 95    | 2   | 70-130          | 30        |
| Dibromochloromethane      | 40                        | 40            | 100   | 40                           | 39            | 97    | 3   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 40                        | 40            | 99    | 40                           | 38            | 95    | 4   | 70-130          | 30        |
| Tetrachloroethene         | 40                        | 38            | 94    | 40                           | 37            | 91    | 3   | 70-130          | 30        |
| Chlorobenzene             | 40                        | 37            | 93    | 40                           | 36            | 90    | 3   | 70-130          | 30        |
| Trichlorofluoromethane    | 40                        | 78            | 196 Q | 40                           | 75            | 187 Q | 5   | 70-139          | 30        |
| 1,2-Dichloroethane        | 40                        | 38            | 96    | 40                           | 38            | 94    | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 40                        | 41            | 102   | 40                           | 40            | 100   | 2   | 70-130          | 30        |
| Bromodichloromethane      | 40                        | 41            | 104   | 40                           | 41            | 102   | 2   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 40                        | 37            | 92    | 40                           | 36            | 89    | 3   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 40                        | 39            | 96    | 40                           | 38            | 94    | 2   | 70-130          | 30        |
| Bromoform                 | 40                        | 39            | 97    | 40                           | 39            | 97    | 0   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 40                        | 38            | 94    | 40                           | 37            | 91    | 3   | 70-130          | 30        |
| Benzene                   | 40                        | 40            | 99    | 40                           | 39            | 97    | 2   | 70-130          | 30        |
| Toluene                   | 40                        | 38            | 94    | 40                           | 36            | 90    | 4   | 70-130          | 30        |
| Ethylbenzene              | 40                        | 38            | 96    | 40                           | 37            | 92    | 4   | 70-130          | 30        |
| Chloromethane             | 40                        | 37            | 93    | 40                           | 36            | 91    | 2   | 52-130          | 30        |
| Bromomethane              | 40                        | 73            | 182 Q | 40                           | 70            | 174 Q | 4   | 57-147          | 30        |
| Vinyl chloride            | 40                        | 55            | 138 Q | 40                           | 52            | 129   | 7   | 67-130          | 30        |
| Chloroethane              | 40                        | 79            | 198 Q | 40                           | 76            | 190 Q | 4   | 50-151          | 30        |
| 1,1-Dichloroethene        | 40                        | 56            | 140 Q | 40                           | 42            | 106   | 28  | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 40                        | 41            | 103   | 40                           | 41            | 102   | 1   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325623-3      Analysis Date : 12/28/19 07:27      File ID : VC191228A01  
 LCSD Sample ID : WG1325623-4      Analysis Date : 12/28/19 07:54      File ID : VC191228A02

| Parameter                   | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Trichloroethene             | 40                        | 41            | 103 | 40                           | 40            | 100 | 3   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 40                        | 37            | 94  | 40                           | 37            | 92  | 2   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 40                        | 38            | 94  | 40                           | 37            | 92  | 2   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 40                        | 37            | 92  | 40                           | 36            | 90  | 2   | 70-130          | 30        |
| Methyl tert butyl ether     | 40                        | 40            | 99  | 40                           | 39            | 98  | 1   | 66-130          | 30        |
| p/m-Xylene                  | 80                        | 78            | 98  | 80                           | 76            | 94  | 4   | 70-130          | 30        |
| o-Xylene                    | 80                        | 80            | 100 | 80                           | 77            | 97  | 3   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 40                        | 40            | 101 | 40                           | 40            | 101 | 0   | 70-130          | 30        |
| Styrene                     | 80                        | 82            | 102 | 80                           | 79            | 99  | 3   | 70-130          | 30        |
| Dichlorodifluoromethane     | 40                        | 55            | 138 | 40                           | 53            | 134 | 3   | 30-146          | 30        |
| Acetone                     | 40                        | 38            | 95  | 40                           | 34            | 85  | 11  | 54-140          | 30        |
| Carbon disulfide            | 40                        | 54            | 136 | 40                           | 42            | 105 | 26  | 59-130          | 30        |
| 2-Butanone                  | 40                        | 34            | 85  | 40                           | 30            | 76  | 11  | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 40                        | 34            | 85  | 40                           | 32            | 79  | 7   | 70-130          | 30        |
| 2-Hexanone                  | 40                        | 32            | 81  | 40                           | 30            | 75  | 8   | 70-130          | 30        |
| 1,2-Dibromoethane           | 40                        | 39            | 97  | 40                           | 38            | 94  | 3   | 70-130          | 30        |
| n-Butylbenzene              | 40                        | 40            | 99  | 40                           | 38            | 96  | 3   | 70-130          | 30        |
| sec-Butylbenzene            | 40                        | 38            | 96  | 40                           | 38            | 94  | 2   | 70-130          | 30        |
| tert-Butylbenzene           | 40                        | 38            | 95  | 40                           | 37            | 92  | 3   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 40                        | 35            | 87  | 40                           | 33            | 83  | 5   | 68-130          | 30        |
| Isopropylbenzene            | 40                        | 38            | 96  | 40                           | 38            | 94  | 2   | 70-130          | 30        |
| p-Isopropyltoluene          | 40                        | 38            | 96  | 40                           | 38            | 94  | 2   | 70-130          | 30        |
| Naphthalene                 | 40                        | 36            | 89  | 40                           | 35            | 88  | 1   | 70-130          | 30        |
| n-Propylbenzene             | 40                        | 39            | 97  | 40                           | 38            | 94  | 3   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 40                        | 37            | 91  | 40                           | 36            | 89  | 2   | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 40                        | 38            | 96  | 40                           | 37            | 93  | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325623-3      Analysis Date : 12/28/19 07:27      File ID : VC191228A01  
 LCSD Sample ID : WG1325623-4      Analysis Date : 12/28/19 07:54      File ID : VC191228A02

| Parameter              | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |      | RPD | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-----|------------------------------|---------------|------|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R   |     |                 |           |
| 1,2,4-Trimethylbenzene | 40                        | 38            | 96  | 40                           | 37            | 94 ✓ | 2   | 70-130          | 30        |
| Methyl Acetate         | 40                        | 35            | 87  | 40                           | 34            | 85   | 2   | 51-146          | 30        |
| Cyclohexane            | 40                        | 40            | 99  | 40                           | 39            | 97   | 2   | 59-142          | 30        |
| Freon-113              | 40                        | 55            | 137 | 40                           | 45            | 112  | 20  | 50-139          | 30        |
| Methyl cyclohexane     | 40                        | 42            | 104 | 40                           | 40            | 101  | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325768-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01 ✓  
 LCSD Sample ID : WG1325768-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02 ✓

| Parameter                 | Laboratory Control Sample |               |      | Laboratory Control Duplicate |               |      | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|------|------------------------------|---------------|------|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R   | True (ug/kg)                 | Found (ug/kg) | %R   |     |                 |           |
| Methylene chloride        | 40                        | 37            | 91 ✓ | 40                           | 36            | 90 ✓ | 1   | 70-130          | 30        |
| 1,1-Dichloroethane        | 40                        | 42            | 104  | 40                           | 40            | 100  | 4   | 70-130          | 30        |
| Chloroform                | 40                        | 43            | 107  | 40                           | 40            | 100  | 7   | 70-130          | 30        |
| Carbon tetrachloride      | 40                        | 46            | 115  | 40                           | 43            | 107  | 7   | 70-130          | 30        |
| 1,2-Dichloropropane       | 40                        | 43            | 108  | 40                           | 42            | 105  | 3   | 70-130          | 30        |
| Dibromochloromethane      | 40                        | 41            | 101  | 40                           | 38            | 96   | 5   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 40                        | 39            | 98   | 40                           | 37            | 92   | 6   | 70-130          | 30        |
| Tetrachloroethene         | 40                        | 44            | 109  | 40                           | 41            | 103  | 6   | 70-130          | 30        |
| Chlorobenzene             | 40                        | 39            | 98   | 40                           | 39            | 97   | 1   | 70-130          | 30        |
| Trichlorofluoromethane    | 40                        | 37            | 93   | 40                           | 38            | 96   | 3   | 70-139          | 30        |
| 1,2-Dichloroethane        | 40                        | 40            | 99   | 40                           | 39            | 97   | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 40                        | 44            | 111  | 40                           | 42            | 104  | 7   | 70-130          | 30        |
| Bromodichloromethane      | 40                        | 42            | 106  | 40                           | 41            | 104  | 2   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 40                        | 42            | 104  | 40                           | 40            | 99   | 5   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 40                        | 46            | 114  | 40                           | 45            | 113  | 1   | 70-130          | 30        |
| Bromoform                 | 40                        | 39            | 96   | 40                           | 41            | 103  | 7   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 40                        | 35            | 88   | 40                           | 37            | 92   | 4   | 70-130          | 30        |
| Benzene                   | 40                        | 42            | 106  | 40                           | 40            | 101  | 5   | 70-130          | 30        |
| Toluene                   | 40                        | 41            | 103  | 40                           | 39            | 97   | 6   | 70-130          | 30        |
| Ethylbenzene              | 40                        | 43            | 107  | 40                           | 41            | 103  | 4   | 70-130          | 30        |
| Chloromethane             | 40                        | 33            | 83   | 40                           | 35            | 88   | 6   | 52-130          | 30        |
| Bromomethane              | 40                        | 48            | 119  | 40                           | 45            | 114  | 4   | 57-147          | 30        |
| Vinyl chloride            | 40                        | 40            | 101  | 40                           | 40            | 100  | 1   | 67-130          | 30        |
| Chloroethane              | 40                        | 46            | 115  | 40                           | 43            | 108  | 6   | 50-151          | 30        |
| 1,1-Dichloroethene        | 40                        | 41            | 103  | 40                           | 39            | 98   | 5   | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 40                        | 42            | 106  | 40                           | 41            | 103  | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325768-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325768-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter                   | Laboratory Control Sample |               |       | Laboratory Control Duplicate |               |       | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-------|------------------------------|---------------|-------|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R    | True (ug/kg)                 | Found (ug/kg) | %R    |     |                 |           |
| Trichloroethene             | 40                        | 45            | 112 ✓ | 40                           | 43            | 107 ✓ | 5   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 40                        | 39            | 97    | 40                           | 41            | 102   | 5   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 40                        | 39            | 98    | 40                           | 41            | 103   | 5   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 40                        | 38            | 96    | 40                           | 38            | 96    | 0   | 70-130          | 30        |
| Methyl tert butyl ether     | 40                        | 42            | 104   | 40                           | 41            | 102   | 2   | 66-130          | 30        |
| p/m-Xylene                  | 80                        | 91            | 113   | 80                           | 87            | 108   | 5   | 70-130          | 30        |
| o-Xylene                    | 80                        | 92            | 114   | 80                           | 87            | 108   | 5   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 40                        | 45            | 112   | 40                           | 42            | 105   | 6   | 70-130          | 30        |
| Styrene                     | 80                        | 93            | 116   | 80                           | 87            | 109   | 6   | 70-130          | 30        |
| Dichlorodifluoromethane     | 40                        | 35            | 87    | 40                           | 37            | 93    | 7   | 30-146          | 30        |
| Acetone                     | 40                        | 37            | 93    | 40                           | 34            | 85    | 9   | 54-140          | 30        |
| Carbon disulfide            | 40                        | 35            | 87    | 40                           | 34            | 85    | 2   | 59-130          | 30        |
| 2-Butanone                  | 40                        | 44            | 111   | 40                           | 39            | 98    | 12  | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 40                        | 41            | 104   | 40                           | 39            | 96    | 8   | 70-130          | 30        |
| 2-Hexanone                  | 40                        | 39            | 98    | 40                           | 38            | 95    | 3   | 70-130          | 30        |
| 1,2-Dibromoethane           | 40                        | 39            | 98    | 40                           | 38            | 95    | 3   | 70-130          | 30        |
| n-Butylbenzene              | 40                        | 42            | 106   | 40                           | 45            | 113   | 6   | 70-130          | 30        |
| sec-Butylbenzene            | 40                        | 43            | 107   | 40                           | 45            | 113   | 5   | 70-130          | 30        |
| tert-Butylbenzene           | 40                        | 43            | 107   | 40                           | 45            | 113   | 5   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 40                        | 38            | 95    | 40                           | 41            | 102   | 7   | 68-130          | 30        |
| Isopropylbenzene            | 40                        | 43            | 107   | 40                           | 46            | 116   | 8   | 70-130          | 30        |
| p-Isopropyltoluene          | 40                        | 45            | 111   | 40                           | 45            | 113   | 2   | 70-130          | 30        |
| Naphthalene                 | 40                        | 43            | 107   | 40                           | 47            | 117   | 9   | 70-130          | 30        |
| n-Propylbenzene             | 40                        | 42            | 104   | 40                           | 43            | 106   | 2   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 40                        | 42            | 104   | 40                           | 46            | 116   | 11  | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 40                        | 42            | 105   | 40                           | 44            | 111   | 6   | 70-130          | 30        |





# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325768-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325768-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter              | Laboratory Control Sample |               |       | Laboratory Control Duplicate |               |       | RPD | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-------|------------------------------|---------------|-------|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R    | True (ug/kg)                 | Found (ug/kg) | %R    |     |                 |           |
| 1,2,4-Trimethylbenzene | 40                        | 43            | 107 ✓ | 40                           | 46            | 114 ✓ | 6   | 70-130          | 30        |
| Methyl Acetate         | 40                        | 37            | 93    | 40                           | 37            | 92    | 1   | 51-146          | 30        |
| Cyclohexane            | 40                        | 49            | 123   | 40                           | 45            | 112   | 9   | 59-142          | 30        |
| Freon-113              | 40                        | 42            | 104   | 40                           | 41            | 102   | 2   | 50-139          | 30        |
| Methyl cyclohexane     | 40                        | 48            | 120   | 40                           | 46            | 114   | 5   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325770-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01✓  
 LCSD Sample ID : WG1325770-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02✓

| Parameter                 | Laboratory Control Sample |               |      | Laboratory Control Duplicate |               |      | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|------|------------------------------|---------------|------|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R   | True (ug/kg)                 | Found (ug/kg) | %R   |     |                 |           |
| Methylene chloride        | 2000                      | 1800          | 91 ✓ | 2000                         | 1800          | 90 ✓ | 1   | 70-130          | 30        |
| 1,1-Dichloroethane        | 2000                      | 2100          | 104  | 2000                         | 2000          | 100  | 4   | 70-130          | 30        |
| Chloroform                | 2000                      | 2100          | 107  | 2000                         | 2000          | 100  | 7   | 70-130          | 30        |
| Carbon tetrachloride      | 2000                      | 2300          | 115  | 2000                         | 2100          | 107  | 7   | 70-130          | 30        |
| 1,2-Dichloropropane       | 2000                      | 2200          | 108  | 2000                         | 2100          | 105  | 3   | 70-130          | 30        |
| Dibromochloromethane      | 2000                      | 2000          | 101  | 2000                         | 1900          | 96   | 5   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 2000                      | 2000          | 98   | 2000                         | 1900          | 92   | 6   | 70-130          | 30        |
| Tetrachloroethene         | 2000                      | 2200          | 109  | 2000                         | 2100          | 103  | 6   | 70-130          | 30        |
| Chlorobenzene             | 2000                      | 2000          | 98   | 2000                         | 1900          | 97   | 1   | 70-130          | 30        |
| Trichlorofluoromethane    | 2000                      | 1900          | 93   | 2000                         | 1900          | 96   | 3   | 70-139          | 30        |
| 1,2-Dichloroethane        | 2000                      | 2000          | 99   | 2000                         | 1900          | 97   | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 2000                      | 2200          | 111  | 2000                         | 2100          | 104  | 7   | 70-130          | 30        |
| Bromodichloromethane      | 2000                      | 2100          | 106  | 2000                         | 2100          | 104  | 2   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 2000                      | 2100          | 104  | 2000                         | 2000          | 99   | 5   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 2000                      | 2300          | 114  | 2000                         | 2300          | 113  | 1   | 70-130          | 30        |
| Bromoform                 | 2000                      | 1900          | 96   | 2000                         | 2100          | 103  | 7   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 2000                      | 1800          | 88   | 2000                         | 1900          | 92   | 4   | 70-130          | 30        |
| Benzene                   | 2000                      | 2100          | 106  | 2000                         | 2000          | 101  | 5   | 70-130          | 30        |
| Toluene                   | 2000                      | 2100          | 103  | 2000                         | 2000          | 97   | 6   | 70-130          | 30        |
| Ethylbenzene              | 2000                      | 2200          | 107  | 2000                         | 2100          | 103  | 4   | 70-130          | 30        |
| Chloromethane             | 2000                      | 1700          | 83   | 2000                         | 1800          | 88   | 6   | 52-130          | 30        |
| Bromomethane              | 2000                      | 2400          | 119  | 2000                         | 2300          | 114  | 4   | 57-147          | 30        |
| Vinyl chloride            | 2000                      | 2000          | 101  | 2000                         | 2000          | 100  | 1   | 67-130          | 30        |
| Chloroethane              | 2000                      | 2300          | 115  | 2000                         | 2200          | 108  | 6   | 50-151          | 30        |
| 1,1-Dichloroethene        | 2000                      | 2100          | 103  | 2000                         | 2000          | 98   | 5   | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 2000                      | 2100          | 106  | 2000                         | 2100          | 103  | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325770-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325770-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter                   | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Trichloroethene             | 2000                      | 2200          | 112 | 2000                         | 2100          | 107 | 5   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 2000                      | 1900          | 97  | 2000                         | 2000          | 102 | 5   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 2000                      | 2000          | 98  | 2000                         | 2100          | 103 | 5   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 2000                      | 1900          | 96  | 2000                         | 1900          | 96  | 0   | 70-130          | 30        |
| Methyl tert butyl ether     | 2000                      | 2100          | 104 | 2000                         | 2000          | 102 | 2   | 66-130          | 30        |
| p/m-Xylene                  | 4000                      | 4500          | 113 | 4000                         | 4300          | 108 | 5   | 70-130          | 30        |
| o-Xylene                    | 4000                      | 4600          | 114 | 4000                         | 4300          | 108 | 5   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 2000                      | 2300          | 112 | 2000                         | 2100          | 105 | 6   | 70-130          | 30        |
| Styrene                     | 4000                      | 4600          | 116 | 4000                         | 4400          | 109 | 6   | 70-130          | 30        |
| Dichlorodifluoromethane     | 2000                      | 1700          | 87  | 2000                         | 1900          | 93  | 7   | 30-146          | 30        |
| Acetone                     | 2000                      | 1900          | 93  | 2000                         | 1700          | 85  | 9   | 54-140          | 30        |
| Carbon disulfide            | 2000                      | 1700          | 87  | 2000                         | 1700          | 85  | 2   | 59-130          | 30        |
| 2-Butanone                  | 2000                      | 2200          | 111 | 2000                         | 2000          | 98  | 12  | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 2000                      | 2100          | 104 | 2000                         | 1900          | 96  | 8   | 70-130          | 30        |
| 2-Hexanone                  | 2000                      | 2000          | 98  | 2000                         | 1900          | 95  | 3   | 70-130          | 30        |
| 1,2-Dibromoethane           | 2000                      | 2000          | 98  | 2000                         | 1900          | 95  | 3   | 70-130          | 30        |
| n-Butylbenzene              | 2000                      | 2100          | 106 | 2000                         | 2300          | 113 | 6   | 70-130          | 30        |
| sec-Butylbenzene            | 2000                      | 2100          | 107 | 2000                         | 2300          | 113 | 5   | 70-130          | 30        |
| tert-Butylbenzene           | 2000                      | 2100          | 107 | 2000                         | 2300          | 113 | 5   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 2000                      | 1900          | 95  | 2000                         | 2000          | 102 | 7   | 68-130          | 30        |
| Isopropylbenzene            | 2000                      | 2200          | 107 | 2000                         | 2300          | 116 | 8   | 70-130          | 30        |
| p-Isopropyltoluene          | 2000                      | 2200          | 111 | 2000                         | 2300          | 113 | 2   | 70-130          | 30        |
| Naphthalene                 | 2000                      | 2100          | 107 | 2000                         | 2400          | 117 | 9   | 70-130          | 30        |
| n-Propylbenzene             | 2000                      | 2100          | 104 | 2000                         | 2100          | 106 | 2   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 2000                      | 2100          | 104 | 2000                         | 2300          | 116 | 11  | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 2000                      | 2100          | 105 | 2000                         | 2200          | 111 | 6   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325770-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325770-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter              | Laboratory Control Sample |               |       | Laboratory Control Duplicate |               |       |     | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-------|------------------------------|---------------|-------|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R    | True (ug/kg)                 | Found (ug/kg) | %R    | RPD |                 |           |
| 1,2,4-Trimethylbenzene | 2000                      | 2100          | 107 ✓ | 2000                         | 2300          | 114 ✓ | 6   | 70-130          | 30        |
| Methyl Acetate         | 2000                      | 1900          | 93    | 2000                         | 1800          | 92    | 1   | 51-146          | 30        |
| Cyclohexane            | 2000                      | 2500          | 123   | 2000                         | 2300          | 112   | 9   | 59-142          | 30        |
| Freon-113              | 2000                      | 2100          | 104   | 2000                         | 2000          | 102   | 2   | 50-139          | 30        |
| Methyl cyclohexane     | 2000                      | 2400          | 120   | 2000                         | 2300          | 114   | 5   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C. Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325794-3 Analysis Date : 12/30/19 05:40 File ID : V11191230A01✓  
 LCSD Sample ID : WG1325794-4 Analysis Date : 12/30/19 06:05 File ID : V11191230A02✓

| Parameter                 | Laboratory Control Sample |               |      | Laboratory Control Duplicate |               |      | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|------|------------------------------|---------------|------|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R   | True (ug/kg)                 | Found (ug/kg) | %R   |     |                 |           |
| Methylene chloride        | 2000                      | 1700          | 86 ✓ | 2000                         | 1700          | 84 ✓ | 2   | 70-130          | 30        |
| 1,1-Dichloroethane        | 2000                      | 1800          | 92   | 2000                         | 1700          | 87   | 6   | 70-130          | 30        |
| Chloroform                | 2000                      | 1900          | 93   | 2000                         | 1800          | 88   | 6   | 70-130          | 30        |
| Carbon tetrachloride      | 2000                      | 2000          | 100  | 2000                         | 1900          | 93   | 7   | 70-130          | 30        |
| 1,2-Dichloropropane       | 2000                      | 1900          | 93   | 2000                         | 1800          | 90   | 3   | 70-130          | 30        |
| Dibromochloromethane      | 2000                      | 1700          | 87   | 2000                         | 1700          | 84   | 4   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 2000                      | 1700          | 83   | 2000                         | 1600          | 80   | 4   | 70-130          | 30        |
| Tetrachloroethene         | 2000                      | 2000          | 97   | 2000                         | 1800          | 90   | 7   | 70-130          | 30        |
| Chlorobenzene             | 2000                      | 1800          | 89   | 2000                         | 1700          | 83   | 7   | 70-130          | 30        |
| Trichlorofluoromethane    | 2000                      | 1900          | 96   | 2000                         | 1800          | 88   | 9   | 70-139          | 30        |
| 1,2-Dichloroethane        | 2000                      | 1700          | 86   | 2000                         | 1700          | 84   | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 2000                      | 2000          | 98   | 2000                         | 1800          | 90   | 9   | 70-130          | 30        |
| Bromodichloromethane      | 2000                      | 1800          | 92   | 2000                         | 1800          | 89   | 3   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 2000                      | 1800          | 89   | 2000                         | 1700          | 85   | 5   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 2000                      | 2000          | 102  | 2000                         | 2000          | 98   | 4   | 70-130          | 30        |
| Bromoform                 | 2000                      | 1700          | 86   | 2000                         | 1700          | 83   | 4   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 2000                      | 1500          | 77   | 2000                         | 1500          | 75   | 3   | 70-130          | 30        |
| Benzene                   | 2000                      | 1900          | 97   | 2000                         | 1800          | 90   | 7   | 70-130          | 30        |
| Toluene                   | 2000                      | 1800          | 89   | 2000                         | 1700          | 83   | 7   | 70-130          | 30        |
| Ethylbenzene              | 2000                      | 1900          | 93   | 2000                         | 1700          | 87   | 7   | 70-130          | 30        |
| Chloromethane             | 2000                      | 1700          | 83   | 2000                         | 1500          | 75   | 10  | 52-130          | 30        |
| Bromomethane              | 2000                      | 2000          | 99   | 2000                         | 1800          | 90   | 10  | 57-147          | 30        |
| Vinyl chloride            | 2000                      | 1800          | 88   | 2000                         | 1600          | 79   | 11  | 67-130          | 30        |
| Chloroethane              | 2000                      | 1700          | 87   | 2000                         | 1600          | 79   | 10  | 50-151          | 30        |
| 1,1-Dichloroethene        | 2000                      | 2100          | 102  | 2000                         | 1900          | 94   | 8   | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 2000                      | 2000          | 101  | 2000                         | 1900          | 94   | 7   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C. Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325794-3 Analysis Date : 12/30/19 05:40 File ID : V11191230A01  
 LCSD Sample ID : WG1325794-4 Analysis Date : 12/30/19 06:05 File ID : V11191230A02

| Parameter                   | Laboratory Control Sample |               |      | Laboratory Control Duplicate |               |      | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|------|------------------------------|---------------|------|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R   | True (ug/kg)                 | Found (ug/kg) | %R   |     |                 |           |
| Trichloroethene             | 2000                      | 2000          | 99 ✓ | 2000                         | 1900          | 93 ✓ | 6   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 2000                      | 1700          | 84   | 2000                         | 1700          | 83   | 1   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 2000                      | 1700          | 86   | 2000                         | 1700          | 82   | 5   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 2000                      | 1700          | 85   | 2000                         | 1600          | 81   | 5   | 70-130          | 30        |
| Methyl tert butyl ether     | 2000                      | 2000          | 98   | 2000                         | 1900          | 97   | 1   | 66-130          | 30        |
| p/m-Xylene                  | 4000                      | 4000          | 99   | 4000                         | 3700          | 92   | 7   | 70-130          | 30        |
| o-Xylene                    | 4000                      | 4000          | 99   | 4000                         | 3700          | 92   | 7   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 2000                      | 2000          | 100  | 2000                         | 1900          | 96   | 4   | 70-130          | 30        |
| Styrene                     | 4000                      | 3900          | 98   | 4000                         | 3700          | 92   | 6   | 70-130          | 30        |
| Dichlorodifluoromethane     | 2000                      | 1700          | 83   | 2000                         | 1500          | 76   | 9   | 30-146          | 30        |
| Acetone                     | 2000                      | 1700          | 85   | 2000                         | 1800          | 88   | 3   | 54-140          | 30        |
| Carbon disulfide            | 2000                      | 1700          | 85   | 2000                         | 1600          | 78   | 9   | 59-130          | 30        |
| 2-Butanone                  | 2000                      | 1800          | 88   | 2000                         | 1800          | 90   | 2   | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 2000                      | 1800          | 89   | 2000                         | 1700          | 86   | 3   | 70-130          | 30        |
| 2-Hexanone                  | 2000                      | 1700          | 86   | 2000                         | 1700          | 84   | 2   | 70-130          | 30        |
| 1,2-Dibromoethane           | 2000                      | 1800          | 88   | 2000                         | 1700          | 85   | 3   | 70-130          | 30        |
| n-Butylbenzene              | 2000                      | 1800          | 91   | 2000                         | 1700          | 85   | 7   | 70-130          | 30        |
| sec-Butylbenzene            | 2000                      | 1900          | 94   | 2000                         | 1700          | 87   | 8   | 70-130          | 30        |
| tert-Butylbenzene           | 2000                      | 1900          | 96   | 2000                         | 1800          | 89   | 8   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 2000                      | 1700          | 85   | 2000                         | 1700          | 86   | 1   | 68-130          | 30        |
| Isopropylbenzene            | 2000                      | 1900          | 96   | 2000                         | 1800          | 90   | 6   | 70-130          | 30        |
| p-Isopropyltoluene          | 2000                      | 2000          | 98   | 2000                         | 1800          | 92   | 6   | 70-130          | 30        |
| Naphthalene                 | 2000                      | 1900          | 96   | 2000                         | 1900          | 96   | 0   | 70-130          | 30        |
| n-Propylbenzene             | 2000                      | 1800          | 91   | 2000                         | 1700          | 85   | 7   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 2000                      | 1900          | 95   | 2000                         | 1900          | 93   | 2   | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 2000                      | 1900          | 93   | 2000                         | 1700          | 87   | 7   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325794-3      Analysis Date : 12/30/19 05:40      File ID : V11191230A01  
 LCSD Sample ID : WG1325794-4      Analysis Date : 12/30/19 06:05      File ID : V11191230A02

| Parameter              | Laboratory Control Sample |               |      | Laboratory Control Duplicate |               |      |     | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|------|------------------------------|---------------|------|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R   | True (ug/kg)                 | Found (ug/kg) | %R   | RPD |                 |           |
| 1,2,4-Trimethylbenzene | 2000                      | 1900          | 95 ✓ | 2000                         | 1800          | 89 ✓ | 7   | 70-130          | 30        |
| Methyl Acetate         | 2000                      | 1700          | 83   | 2000                         | 1700          | 84   | 1   | 51-146          | 30        |
| Cyclohexane            | 2000                      | 2100          | 105  | 2000                         | 1900          | 96   | 9   | 59-142          | 30        |
| Freon-113              | 2000                      | 2100          | 102  | 2000                         | 1900          | 95   | 7   | 50-139          | 30        |
| Methyl cyclohexane     | 2000                      | 2200          | 108  | 2000                         | 2000          | 99   | 9   | 70-130          | 30        |



# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Client Sample ID : TANK-NORTH-122019 (8')  
 Lab Sample ID : L1961284-05  
 Matrix Spike : WG1325768-6  
 Matrix Spike Dup : WG1325768-7

Lab Number : L1961284  
 Project Number : 2182207  
 Matrix : SOIL  
 Analysis Date : 12/27/19 11:11  
 MS Analysis Date : 12/27/19 15:25 ✓  
 MSD Analysis Date : 12/27/19 15:50 ✓

| Parameter                 | Sample Conc. (ug/kg) | Matrix Spike Added (ug/kg) | Sample Spike Conc. (ug/kg) | %R   | Matrix Spike Duplicate Spike Added (ug/kg) | Matrix Spike Duplicate Spike Conc. (ug/kg) | %R   | RPD | Recovery Limits | RPD Limit |
|---------------------------|----------------------|----------------------------|----------------------------|------|--------------------------------------------|--------------------------------------------|------|-----|-----------------|-----------|
| Methylene chloride        | ND                   | 75.1                       | 59                         | 78   | 73.6                                       | 64                                         | 86   | 8   | 70-130          | 30        |
| 1,1-Dichloroethane        | ND                   | 75.1                       | 61                         | 81   | 73.6                                       | 72                                         | 98   | 17  | 70-130          | 30        |
| Chloroform                | 0.29J                | 75.1                       | 60                         | 80   | 73.6                                       | 66                                         | 90   | 10  | 70-130          | 30        |
| Carbon tetrachloride      | ND                   | 75.1                       | 65                         | 87   | 73.6                                       | 76                                         | 104  | 15  | 70-130          | 30        |
| 1,2-Dichloropropane       | ND                   | 75.1                       | 68                         | 91   | 73.6                                       | 70                                         | 96   | 3   | 70-130          | 30        |
| Dibromochloromethane      | ND                   | 75.1                       | 58                         | 78   | 73.6                                       | 57                                         | 77   | 3   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | ND                   | 75.1                       | 58                         | 76   | 73.6                                       | 56                                         | 75   | 4   | 70-130          | 30        |
| Tetrachloroethene         | ND                   | 75.1                       | 53                         | 70   | 73.6                                       | 58                                         | 79   | 10  | 70-130          | 30        |
| Chlorobenzene             | ND                   | 75.1                       | 49                         | 65 ✓ | 73.6                                       | 51                                         | 70 ✓ | 5   | 70-130          | 30        |
| Trichlorofluoromethane    | ND                   | 75.1                       | 69                         | 92   | 73.6                                       | 67                                         | 90   | 4   | 70-139          | 30        |
| 1,2-Dichloroethane        | ND                   | 75.1                       | 63                         | 83   | 73.6                                       | 65                                         | 88   | 3   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | ND                   | 75.1                       | 59                         | 78   | 73.6                                       | 75                                         | 102  | 24  | 70-130          | 30        |
| Bromodichloromethane      | ND                   | 75.1                       | 66                         | 88   | 73.6                                       | 66                                         | 90   | 0   | 70-130          | 30        |
| trans-1,3-Dichloropropene | ND                   | 75.1                       | 57                         | 76   | 73.6                                       | 55                                         | 74   | 4   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | ND                   | 75.1                       | 67                         | 89   | 73.6                                       | 70                                         | 95   | 5   | 70-130          | 30        |
| Bromoform                 | ND                   | 75.1                       | 56                         | 74   | 73.6                                       | 54                                         | 73   | 3   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | ND                   | 75.1                       | 50                         | 67 Q | 73.6                                       | 49                                         | 66 Q | 3   | 70-130          | 30        |
| Benzene                   | ND                   | 75.1                       | 58                         | 77 ✓ | 73.6                                       | 71                                         | 96 ✓ | 19  | 70-130          | 30        |
| Toluene                   | ND                   | 75.1                       | 55                         | 74 ✓ | 73.6                                       | 57                                         | 78 ✓ | 4   | 70-130          | 30        |
| Ethylbenzene              | ND                   | 75.1                       | 50                         | 67 Q | 73.6                                       | 55                                         | 75   | 10  | 70-130          | 30        |
| Chloromethane             | ND                   | 75.1                       | 64                         | 85   | 73.6                                       | 66                                         | 89   | 2   | 52-130          | 30        |
| Bromomethane              | ND                   | 75.1                       | 81                         | 108  | 73.6                                       | 80                                         | 109  | 1   | 57-147          | 30        |





# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Client Sample ID : TANK-NORTH-122019 (8')  
 Lab Sample ID : L1961284-05  
 Matrix Spike : WG1325768-6  
 Matrix Spike Dup : WG1325768-7

Lab Number : L1961284  
 Project Number : 2182207  
 Matrix : SOIL  
 Analysis Date : 12/27/19 11:11  
 MS Analysis Date : 12/27/19 15:25  
 MSD Analysis Date : 12/27/19 15:50

| Parameter                | Sample Conc.<br>(ug/kg) | Matrix Spike Added<br>(ug/kg) | Sample Spike Conc.<br>(ug/kg) | %R   | Matrix Spike Duplicate Spike Added<br>(ug/kg) | Matrix Spike Duplicate Spike Conc.<br>(ug/kg) | %R    | RPD | Recovery Limits | RPD Limit |
|--------------------------|-------------------------|-------------------------------|-------------------------------|------|-----------------------------------------------|-----------------------------------------------|-------|-----|-----------------|-----------|
| Vinyl chloride           | ND                      | 75.1                          | 72                            | 95   | 73.6                                          | 76                                            | 103   | 6   | 67-130          | 30        |
| Chloroethane             | ND                      | 75.1                          | 74                            | 99   | 73.6                                          | 74                                            | 100   | 1   | 50-151          | 30        |
| 1,1-Dichloroethene       | ND                      | 75.1                          | 74                            | 99   | 73.6                                          | 76                                            | 103 ✓ | 2   | 65-135          | 30        |
| trans-1,2-Dichloroethene | ND                      | 75.1                          | 65                            | 87   | 73.6                                          | 73                                            | 99    | 11  | 70-130          | 30        |
| Trichloroethene          | 0.82                    | 75.1                          | 68                            | 89   | 73.6                                          | 72                                            | 97 ✓  | 6   | 70-130          | 30        |
| 1,2-Dichlorobenzene      | ND                      | 75.1                          | 40                            | 53 Q | 73.6                                          | 40                                            | 54 Q  | 1   | 70-130          | 30        |
| 1,3-Dichlorobenzene      | ND                      | 75.1                          | 37                            | 50 Q | 73.6                                          | 40                                            | 54 Q  | 6   | 70-130          | 30        |
| 1,4-Dichlorobenzene      | ND                      | 75.1                          | 36                            | 48 Q | 73.6                                          | 39                                            | 52 Q  | 6   | 70-130          | 30        |
| Methyl tert butyl ether  | ND                      | 75.1                          | 68                            | 90   | 73.6                                          | 73                                            | 100   | 8   | 66-130          | 30        |
| p/m-Xylene               | ND                      | 150                           | 100                           | 67 Q | 147                                           | 110                                           | 75    | 10  | 70-130          | 30        |
| o-Xylene                 | ND                      | 150                           | 110                           | 71   | 147                                           | 110                                           | 77    | 6   | 70-130          | 30        |
| cis-1,2-Dichloroethene   | ND                      | 75.1                          | 60                            | 79   | 73.6                                          | 73                                            | 99    | 20  | 70-130          | 30        |
| Styrene                  | ND                      | 150                           | 100                           | 69 Q | 147                                           | 110                                           | 72    | 2   | 70-130          | 30        |
| Dichlorodifluoromethane  | ND                      | 75.1                          | 73                            | 97   | 73.6                                          | 74                                            | 101   | 2   | 30-146          | 30        |
| Acetone                  | 64                      | 75.1                          | 60                            | 80 Q | 73.6                                          | 67                                            | 91 Q  | 11  | 54-140          | 30        |
| Carbon disulfide         | ND                      | 75.1                          | 61                            | 80   | 73.6                                          | 61                                            | 83    | 0   | 59-130          | 30        |
| 2-Butanone               | ND                      | 75.1                          | 54                            | 72   | 73.6                                          | 65                                            | 88    | 18  | 70-130          | 30        |
| 4-Methyl-2-pentanone     | ND                      | 75.1                          | 63                            | 84   | 73.6                                          | 60                                            | 81    | 5   | 70-130          | 30        |
| 2-Hexanone               | ND                      | 75.1                          | 60                            | 80   | 73.6                                          | 52                                            | 70    | 16  | 70-130          | 30        |
| 1,2-Dibromoethane        | ND                      | 75.1                          | 57                            | 76   | 73.6                                          | 56                                            | 76    | 3   | 70-130          | 30        |
| n-Butylbenzene           | ND                      | 75.1                          | 29                            | 39 Q | 73.6                                          | 40                                            | 54 Q  | 30  | 70-130          | 30        |
| sec-Butylbenzene         | ND                      | 75.1                          | 37                            | 49 Q | 73.6                                          | 47                                            | 64 Q  | 24  | 70-130          | 30        |



# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Client Sample ID : TANK-NORTH-122019 (8')  
 Lab Sample ID : L1961284-05  
 Matrix Spike : WG1325768-6  
 Matrix Spike Dup : WG1325768-7

Lab Number : L1961284  
 Project Number : 2182207  
 Matrix : SOIL  
 Analysis Date : 12/27/19 11:11  
 MS Analysis Date : 12/27/19 15:25  
 MSD Analysis Date : 12/27/19 15:50

| Parameter                   | Sample Conc.<br>(ug/kg) | Matrix Spike Added<br>(ug/kg) | Sample Spike Conc.<br>(ug/kg) | %R   | Matrix Spike Added<br>(ug/kg) | Matrix Spike Duplicate Spike Conc.<br>(ug/kg) | %R   | RPD | Recovery Limits | RPD Limit |
|-----------------------------|-------------------------|-------------------------------|-------------------------------|------|-------------------------------|-----------------------------------------------|------|-----|-----------------|-----------|
| tert-Butylbenzene           | ND                      | 75.1                          | 42                            | 56 Q | 73.6                          | 51                                            | 69 Q | 19  | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | ND                      | 75.1                          | 56                            | 74   | 73.6                          | 53                                            | 72   | 5   | 68-130          | 30        |
| Isopropylbenzene            | ND                      | 75.1                          | 46                            | 61 Q | 73.6                          | 54                                            | 74   | 17  | 70-130          | 30        |
| p-Isopropyltoluene          | ND                      | 75.1                          | 36                            | 48 Q | 73.6                          | 47                                            | 63 Q | 26  | 70-130          | 30        |
| Naphthalene                 | ND                      | 75.1                          | 46                            | 61 Q | 73.6                          | 36                                            | 48 Q | 25  | 70-130          | 30        |
| n-Propylbenzene             | ND                      | 75.1                          | 38                            | 51 Q | 73.6                          | 48                                            | 65 Q | 22  | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | ND                      | 75.1                          | 35                            | 47 Q | 73.6                          | 35                                            | 48 Q | 1   | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | ND                      | 75.1                          | 41                            | 54 Q | 73.6                          | 47                                            | 64 Q | 16  | 70-130          | 30        |
| 1,2,4-Trimethylbenzene      | ND                      | 75.1                          | 41                            | 54 Q | 73.6                          | 45                                            | 62 Q | 11  | 70-130          | 30        |
| Methyl Acetate              | 1.6J                    | 75.1                          | 79                            | 105  | 73.6                          | 110                                           | 143  | 29  | 51-146          | 30        |
| Cyclohexane                 | ND                      | 75.1                          | 67                            | 89   | 73.6                          | 80                                            | 108  | 18  | 59-142          | 30        |
| Freon-113                   | ND                      | 75.1                          | 77                            | 103  | 73.6                          | 76                                            | 103  | 1   | 50-139          | 30        |
| Methyl cyclohexane          | ND                      | 75.1                          | 77                            | 102  | 73.6                          | 74                                            | 100  | 5   | 70-130          | 30        |



**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325768-5               | Lab File ID    | : V11191227A05   |
| Instrument ID | : VOA111                    |                |                  |
| Matrix        | : SOIL <i>High</i>          | Analysis Date  | : 12/27/19 07:00 |

| Client Sample No.         | Lab Sample ID | Analysis Date  |
|---------------------------|---------------|----------------|
| WG1325768-3LCS            | WG1325768-3   | 12/27/19 05:20 |
| WG1325768-4LCSD           | WG1325768-4   | 12/27/19 05:44 |
| TANK-NORTH-122019 (8')    | L1961284-05   | 12/27/19 11:11 |
| TANK-NORTH-122019 (8')MS  | WG1325768-6   | 12/27/19 15:25 |
| TANK-NORTH-122019 (8')MSD | WG1325768-7   | 12/27/19 15:50 |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325770-5  
Client ID : WG1325770-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191227A05  
Sample Amount : 15.0 g  
Level : HIGH  
Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/27/19 07:00  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND ✓    | 250 | 110 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 50  | 7.2 | U         |
| 67-66-3    | Chloroform                | ND      | 75  | 7.0 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 50  | 12. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 50  | 6.2 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 50  | 7.0 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 50  | 13. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 25  | 9.8 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 25  | 6.4 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 200 | 35. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 50  | 13. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 25  | 8.4 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 25  | 5.4 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 50  | 14. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 25  | 7.9 | U         |
| 75-25-2    | Bromoform                 | ND      | 200 | 12. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 25  | 8.3 | U         |
| 71-43-2    | Benzene                   | ND      | 25  | 8.3 | U         |
| 108-88-3   | Toluene                   | ND      | 50  | 27. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 50  | 7.0 | U         |
| 74-87-3    | Chloromethane             | ND      | 200 | 47. | U         |
| 74-83-9    | Bromomethane              | ND      | 100 | 29. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 50  | 17. | U         |
| 75-00-3    | Chloroethane              | ND      | 100 | 23. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 50  | 12. | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325770-5  
Client ID : WG1325770-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191227A05  
Sample Amount : 15.0 g  
Level : HIGH  
Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/27/19 07:00  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |     |     | Qualifier |
|-------------|-----------------------------|---------|-----|-----|-----------|
|             |                             | Results | RL  | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 75  | 6.8 | U         |
| 79-01-6     | Trichloroethene             | ND      | 25  | 6.8 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 100 | 7.2 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 100 | 7.4 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 100 | 8.6 | U         |
| 1634-04-4   | Methyl tert butyl ether     | 10      | 100 | 10. | J         |
| 179601-23-1 | p/m-Xylene                  | ND      | 100 | 28. | U         |
| 95-47-6     | o-Xylene                    | ND      | 50  | 14. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 50  | 8.8 | U         |
| 100-42-5    | Styrene                     | ND      | 50  | 9.8 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 500 | 46. | U         |
| 67-64-1     | Acetone                     | ND      | 500 | 240 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 500 | 230 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 500 | 110 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 500 | 64. | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 500 | 59. | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 50  | 14. | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 50  | 8.4 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 50  | 7.3 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 100 | 5.9 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 150 | 50. | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 50  | 5.4 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 50  | 5.4 | U         |
| 91-20-3     | Naphthalene                 | ND      | 200 | 32. | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 50  | 8.6 | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325770-5  
 Client ID : WG1325770-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/27/19 07:00  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND ✓    | 100 | 14. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 100 | 9.6 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 100 | 17. | U         |
| 79-20-9  | Methyl Acetate         | ND      | 200 | 48. | U         |
| 110-82-7 | Cyclohexane            | ND      | 500 | 27. | U         |
| 76-13-1  | Freon-113              | ND      | 200 | 35. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 200 | 30. | U         |



**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325770-5  
Client ID : WG1325770-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191227A05  
Sample Amount :  
Level :  
Extract Volume (MeOH) : NA

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/27/19 07:00  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : 0.1 g

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number | Compound Name | RT | EST. CONC. | Qualifier |
|------------|---------------|----|------------|-----------|
|------------|---------------|----|------------|-----------|

NO TENTATIVELY IDENTIFIED COMPOUNDS



**Method Blank Summary**  
**Form 4**  
**Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325623-5               | Lab File ID    | : VC191228A05    |
| Instrument ID | : CHARLIE                   |                |                  |
| Matrix        | : SOIL                      | Analysis Date  | : 12/28/19 09:16 |

| Client Sample No.      | Lab Sample ID | Analysis Date  |
|------------------------|---------------|----------------|
| WG1325623-3LCS         | WG1325623-3   | 12/28/19 07:27 |
| WG1325623-4LCSD        | WG1325623-4   | 12/28/19 07:54 |
| TANK-EAST-122019 (10') | L1961284-01   | 12/28/19 09:43 |





**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325770-5               | Lab File ID    | : V11191227A05   |
| Instrument ID | : VOA111                    |                |                  |
| Matrix        | : SOIL <i>LOW</i>           | Analysis Date  | : 12/27/19 07:00 |

| Client Sample No.     | Lab Sample ID | Analysis Date  |
|-----------------------|---------------|----------------|
| WG1325770-3LCS        | WG1325770-3   | 12/27/19 05:20 |
| WG1325770-4LCSD       | WG1325770-4   | 12/27/19 05:44 |
| TANK-WEST-122019 (8') | L1961284-03D  | 12/27/19 09:05 |
| TANK-BOT-122019 (11') | L1961284-02D  | 12/27/19 09:55 |
| DUP-01-122019         | L1961284-06D  | 12/27/19 10:45 |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325768-5  
 Client ID : WG1325768-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A05  
 Sample Amount : 5.0 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/27/19 07:00  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND ✓    | 5.0  | 2.3  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 1.0  | 0.14 | U         |
| 67-66-3    | Chloroform                | ND      | 1.5  | 0.14 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 1.0  | 0.23 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 1.0  | 0.12 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 1.0  | 0.14 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 1.0  | 0.27 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.50 | 0.20 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.50 | 0.13 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 4.0  | 0.70 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 1.0  | 0.26 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.50 | 0.17 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.50 | 0.11 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 1.0  | 0.27 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.50 | 0.16 | U         |
| 75-25-2    | Bromoform                 | ND      | 4.0  | 0.25 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.50 | 0.17 | U         |
| 71-43-2    | Benzene                   | ND      | 0.50 | 0.17 | U         |
| 108-88-3   | Toluene                   | ND      | 1.0  | 0.54 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 1.0  | 0.14 | U         |
| 74-87-3    | Chloromethane             | ND      | 4.0  | 0.93 | U         |
| 74-83-9    | Bromomethane              | ND      | 2.0  | 0.58 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 1.0  | 0.34 | U         |
| 75-00-3    | Chloroethane              | ND      | 2.0  | 0.45 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 1.0  | 0.24 | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325768-5  
Client ID : WG1325768-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191227A05  
Sample Amount : 5.0 g  
Level : LOW  
Extract Volume (MeOH) : N/A

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/27/19 07:00  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 1.5  | 0.14 | U         |
| 79-01-6     | Trichloroethene             | ND      | 0.50 | 0.14 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 2.0  | 0.14 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 2.0  | 0.15 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 2.0  | 0.17 | U         |
| 1634-04-4   | Methyl tert butyl ether     | 0.21    | 2.0  | 0.20 | J         |
| 179601-23-1 | p/m-Xylene                  | ND      | 2.0  | 0.56 | U         |
| 95-47-6     | o-Xylene                    | ND      | 1.0  | 0.29 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 1.0  | 0.18 | U         |
| 100-42-5    | Styrene                     | ND      | 1.0  | 0.20 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 10   | 0.92 | U         |
| 67-64-1     | Acetone                     | ND      | 10   | 4.8  | U         |
| 75-15-0     | Carbon disulfide            | ND      | 10   | 4.6  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 10   | 2.2  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 10   | 1.3  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 10   | 1.2  | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 1.0  | 0.28 | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 1.0  | 0.17 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 1.0  | 0.15 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 2.0  | 0.12 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 3.0  | 1.0  | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 1.0  | 0.11 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 1.0  | 0.11 | U         |
| 91-20-3     | Naphthalene                 | ND      | 4.0  | 0.65 | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 1.0  | 0.17 | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325768-5  
Client ID : WG1325768-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191227A05  
Sample Amount : 5.0 g  
Level : LOW  
Extract Volume (MeOH) : N/A

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/27/19 07:00  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND ✓    | 2.0 | 0.27 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 2.0 | 0.19 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 2.0 | 0.33 | U         |
| 79-20-9  | Methyl Acetate         | ND      | 4.0 | 0.95 | U         |
| 110-82-7 | Cyclohexane            | ND      | 10  | 0.54 | U         |
| 76-13-1  | Freon-113              | ND      | 4.0 | 0.69 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 4.0 | 0.60 | U         |



**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325768-5               | Date Collected   | : NA             |
| Client ID             | : WG1325768-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/27/19 07:00 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191227A05              | Instrument ID    | : VOA111         |
| Sample Amount         | :                           | GC Column        | : RTX-VMS        |
| Level                 | :                           | %Solids          | : NA             |
| Extract Volume (MeOH) | : NA                        | Injection Volume | : 1              |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325623-5  
Client ID : WG1325623-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : VC191228A05  
Sample Amount : 5.0 g  
Level : LOW  
Extract Volume (MeOH) : N/A

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/28/19 09:16  
Dilution Factor : 1  
Analyst : MKS  
Instrument ID : CHARLIE  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 5.0  | 2.3  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 1.0  | 0.14 | U         |
| 67-66-3    | Chloroform                | ND      | 1.5  | 0.14 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 1.0  | 0.23 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 1.0  | 0.12 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 1.0  | 0.14 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 1.0  | 0.27 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.50 | 0.20 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.50 | 0.13 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 4.0  | 0.70 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 1.0  | 0.26 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.50 | 0.17 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.50 | 0.11 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 1.0  | 0.27 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.50 | 0.16 | U         |
| 75-25-2    | Bromoform                 | ND      | 4.0  | 0.25 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.50 | 0.17 | U         |
| 71-43-2    | Benzene                   | ND      | 0.50 | 0.17 | U         |
| 108-88-3   | Toluene                   | ND      | 1.0  | 0.54 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 1.0  | 0.14 | U         |
| 74-87-3    | Chloromethane             | 1.3     | 4.0  | 0.93 | J         |
| 74-83-9    | Bromomethane              | 12      | 2.0  | 0.58 |           |
| 75-01-4    | Vinyl chloride            | ND      | 1.0  | 0.34 | U         |
| 75-00-3    | Chloroethane              | ND      | 2.0  | 0.45 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 1.0  | 0.24 | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325623-5  
Client ID : WG1325623-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : VC191228A05  
Sample Amount : 5.0 g  
Level : LOW  
Extract Volume (MeOH) : N/A

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/28/19 09:16  
Dilution Factor : 1  
Analyst : MKS  
Instrument ID : CHARLIE  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND ✓    | 1.5  | 0.14 | U         |
| 79-01-6     | Trichloroethene             | ND      | 0.50 | 0.14 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 2.0  | 0.14 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 2.0  | 0.15 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 2.0  | 0.17 | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 2.0  | 0.20 | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 2.0  | 0.56 | U         |
| 95-47-6     | o-Xylene                    | ND      | 1.0  | 0.29 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 1.0  | 0.18 | U         |
| 100-42-5    | Styrene                     | ND      | 1.0  | 0.20 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 10   | 0.92 | U         |
| 67-64-1     | Acetone                     | ND      | 10   | 4.8  | U         |
| 75-15-0     | Carbon disulfide            | ND      | 10   | 4.6  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 10   | 2.2  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 10   | 1.3  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 10   | 1.2  | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 1.0  | 0.28 | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 1.0  | 0.17 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 1.0  | 0.15 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 2.0  | 0.12 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 3.0  | 1.0  | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 1.0  | 0.11 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 1.0  | 0.11 | U         |
| 91-20-3     | Naphthalene                 | ND      | 4.0  | 0.65 | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 1.0  | 0.17 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325623-5  
 Client ID : WG1325623-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A05  
 Sample Amount : 5.0 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/28/19 09:16  
 Dilution Factor : 1  
 Analyst : MKS  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 2.0 | 0.27 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 2.0 | 0.19 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 2.0 | 0.33 | U         |
| 79-20-9  | Methyl Acetate         | ND      | 4.0 | 0.95 | U         |
| 110-82-7 | Cyclohexane            | ND      | 10  | 0.54 | U         |
| 76-13-1  | Freon-113              | ND      | 4.0 | 0.69 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 4.0 | 0.60 | U         |





# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325623-5  
 Client ID : WG1325623-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A05  
 Sample Amount :  
 Level :  
 Extract Volume (MeOH) : NA

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/28/19 09:16  
 Dilution Factor : 1  
 Analyst : MKS  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : 1

Number TICS found: 5

Concentration Units: ug/Kg

| CAS Number  | Compound Name           | RT    | EST. CONC. | Qualifier |
|-------------|-------------------------|-------|------------|-----------|
| 000541-83-9 | Cyclohexane, hexamethyl | 8.18  | 4.97       | NJ R      |
|             | Unknown                 | 11.13 | 3.91       | J         |
|             | Unknown                 | 13.06 | 4.77       | J         |
|             | Unknown                 | 14.60 | 2.15       | J         |
|             | Total TIC Compounds     |       | 15.8J      | J         |



**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325794-5               | Lab File ID    | : V11191230A05   |
| Instrument ID | : VOA111                    |                |                  |
| Matrix        | : SOIL                      | Analysis Date  | : 12/30/19 07:20 |

| Client Sample No.      | Lab Sample ID | Analysis Date  |
|------------------------|---------------|----------------|
| WG1325794-3LCS         | WG1325794-3   | 12/30/19 05:40 |
| WG1325794-4LCSD        | WG1325794-4   | 12/30/19 06:05 |
| TANK-SOUTH-122019 (8') | L1961284-04D  | 12/30/19 10:39 |

# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325794-5  
Client ID : WG1325794-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191230A05  
Sample Amount : 15.0 g  
Level : HIGH  
Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/30/19 07:20  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND ✓    | 250 | 110 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 50  | 7.2 | U         |
| 67-66-3    | Chloroform                | ND      | 75  | 7.0 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 50  | 12. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 50  | 6.2 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 50  | 7.0 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 50  | 13. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 25  | 9.8 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 25  | 6.4 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 200 | 35. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 50  | 13. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 25  | 8.4 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 25  | 5.4 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 50  | 14. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 25  | 7.9 | U         |
| 75-25-2    | Bromoform                 | ND      | 200 | 12. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 25  | 8.3 | U         |
| 71-43-2    | Benzene                   | ND      | 25  | 8.3 | U         |
| 108-88-3   | Toluene                   | ND      | 50  | 27. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 50  | 7.0 | U         |
| 74-87-3    | Chloromethane             | ND      | 200 | 47. | U         |
| 74-83-9    | Bromomethane              | ND      | 100 | 29. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 50  | 17. | U         |
| 75-00-3    | Chloroethane              | ND      | 100 | 23. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 50  | 12. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325794-5  
 Client ID : WG1325794-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/30/19 07:20  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |     |     | Qualifier |
|-------------|-----------------------------|---------|-----|-----|-----------|
|             |                             | Results | RL  | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 75  | 6.8 | U         |
| 79-01-6     | Trichloroethene             | ND      | 25  | 6.8 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 100 | 7.2 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 100 | 7.4 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 100 | 8.6 | U         |
| 1634-04-4   | Methyl tert butyl ether     | 13      | 100 | 10. | J         |
| 179601-23-1 | p/m-Xylene                  | ND      | 100 | 28. | U         |
| 95-47-6     | o-Xylene                    | ND      | 50  | 14. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 50  | 8.8 | U         |
| 100-42-5    | Styrene                     | ND      | 50  | 9.8 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 500 | 46. | U         |
| 67-64-1     | Acetone                     | ND      | 500 | 240 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 500 | 230 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 500 | 110 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 500 | 64. | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 500 | 59. | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 50  | 14. | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 50  | 8.4 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 50  | 7.3 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 100 | 5.9 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 150 | 50. | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 50  | 5.4 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 50  | 5.4 | U         |
| 91-20-3     | Naphthalene                 | ND      | 200 | 32. | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 50  | 8.6 | U         |



# Results Summary Form 1 Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325794-5  
 Client ID : WG1325794-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/30/19 07:20  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND ✓    | 100 | 14. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 100 | 9.6 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 100 | 17. | U         |
| 79-20-9  | Methyl Acetate         | ND      | 200 | 48. | U         |
| 110-82-7 | Cyclohexane            | ND      | 500 | 27. | U         |
| 76-13-1  | Freon-113              | ND      | 200 | 35. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 200 | 30. | U         |



**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1325794-5  
Client ID : WG1325794-5BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8260C  
Lab File ID : V11191230A05  
Sample Amount :  
Level :  
Extract Volume (MeOH) : NA

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/30/19 07:20  
Dilution Factor : 1  
Analyst : MV  
Instrument ID : VOA111  
GC Column : RTX-VMS  
%Solids : NA  
Injection Volume : 0.1 g

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|               |                             |                |                    |
|---------------|-----------------------------|----------------|--------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284         |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207          |
| Instrument ID | : CHARLIE                   | Analysis Date  | : 12/11/19 16:56   |
| Tune Standard | : WG1319953-1               | Tune File ID   | : VC191211BF3_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 24.4                |
| 75  | 30.0 - 60.0% of mass 95            | 49.3                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                 |
| 173 | Less than 2.0% of mass 174         | 0.6 (.8 )1          |
| 174 | Greater than 50.0 of mass 95       | 74.5                |
| 175 | 5.0 - 9.0% of mass 174             | 5.6 (7.5 )1         |
| 176 | 95.0 - 101% of mass 174            | 72.2 (97 )1         |
| 177 | 5.0 - 9.0% of mass 176             | 4.8 (6.6 )2         |

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

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

| Client Sample ID | Lab Sample ID | File ID     | Analysis Date/Time |
|------------------|---------------|-------------|--------------------|
| STD0.5PPB        | R1264822-1    | VC191211N03 | 12/11/19 18:15     |
| STD1PPB          | R1264822-2    | VC191211N04 | 12/11/19 18:43     |
| STD2PPB          | R1264822-3    | VC191211N05 | 12/11/19 19:11     |
| STD4PPB          | R1264822-6    | VC191211N06 | 12/11/19 19:38     |
| STD20PPB         | R1264822-8    | VC191211N07 | 12/11/19 20:05     |
| STD40PPB         | R1264822-4    | VC191211N08 | 12/11/19 20:33     |
| STD100PPB        | R1264822-5    | VC191211N09 | 12/11/19 21:00     |
| STD200PPB        | R1264822-7    | VC191211N10 | 12/11/19 21:28     |
| STD300PPB        | R1264822-9    | VC191211N11 | 12/11/19 21:55     |
| ICV Quant Report | R1264822-10   | VC191211N15 | 12/11/19 23:45     |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|               |                             |                |                    |
|---------------|-----------------------------|----------------|--------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284         |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207          |
| Instrument ID | : CHARLIE                   | Analysis Date  | : 12/28/19 07:02   |
| Tune Standard | : WG1325623-1               | Tune File ID   | : VC191228BF1_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 26.6 ✓              |
| 75  | 30.0 - 60.0% of mass 95            | 53                  |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                 |
| 173 | Less than 2.0% of mass 174         | 0.8 (1.1)1          |
| 174 | Greater than 50.0 of mass 95       | 75.3                |
| 175 | 5.0 - 9.0% of mass 174             | 5.6 (7.5)1          |
| 176 | 95.0 - 101% of mass 174            | 71.6 (95.1)1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.8 (6.7)2          |

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

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

| Client Sample ID       | Lab Sample ID | File ID     | Analysis Date/Time |
|------------------------|---------------|-------------|--------------------|
| WG1325623-2CCAL        | WG1325623-2   | VC191228A01 | 12/28/19 07:27     |
| WG1325623-3LCS         | WG1325623-3   | VC191228A01 | 12/28/19 07:27     |
| WG1325623-4LCSD        | WG1325623-4   | VC191228A02 | 12/28/19 07:54     |
| WG1325623-5BLANK       | WG1325623-5   | VC191228A05 | 12/28/19 09:16     |
| TANK-EAST-122019 (10') | L1961284-01   | VC191228A06 | 12/28/19 09:43 ✓   |





**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|               |                             |                |                     |
|---------------|-----------------------------|----------------|---------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284          |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207           |
| Instrument ID | : VOA111                    | Analysis Date  | : 12/20/19 02:50    |
| Tune Standard | : WG1323373-1               | Tune File ID   | : V11191220A01_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.1                |
| 75  | 30.0 - 60.0% of mass 95            | 52.9                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.8                 |
| 173 | Less than 2.0% of mass 174         | 1 (1.4 )1           |
| 174 | Greater than 50.0 of mass 95       | 75.5                |
| 175 | 5.0 - 9.0% of mass 174             | 5.7 (7.6 )1         |
| 176 | 95.0 - 101% of mass 174            | 72.6 (96.2)1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.6 (6.3 )2         |

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

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

| Client Sample ID | Lab Sample ID | File ID      | Analysis Date/Time |
|------------------|---------------|--------------|--------------------|
| STD.5PPB         | R1268123-2    | V11191220A04 | 12/20/19 04:12     |
| STD1PPB          | R1268123-1    | V11191220A05 | 12/20/19 04:37     |
| STD2PPB          | R1268123-3    | V11191220A06 | 12/20/19 05:02     |
| STD4PPB          | R1268123-4    | V11191220A07 | 12/20/19 05:27     |
| STD20PPB         | R1268123-6    | V11191220A08 | 12/20/19 05:52     |
| STD40PPB         | R1268123-5    | V11191220A09 | 12/20/19 06:18     |
| STD100PPB        | R1268123-7    | V11191220A10 | 12/20/19 06:44     |
| STD200PPB        | R1268123-9    | V11191220A11 | 12/20/19 07:09     |
| STD300PPB        | R1268123-8    | V11191220A12 | 12/20/19 07:34     |
| ICV Quant Report | R1268123-10   | V11191220A16 | 12/20/19 09:14     |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|               |                             |                |                     |
|---------------|-----------------------------|----------------|---------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284          |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207           |
| Instrument ID | : VOA111                    | Analysis Date  | : 12/27/19 04:55    |
| Tune Standard | : WG1325768-1               | Tune File ID   | : V11191227BF2_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.2 ✓              |
| 75  | 30.0 - 60.0% of mass 95            | 53.9                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 7.1                 |
| 173 | Less than 2.0% of mass 174         | 1 (1.4 )1           |
| 174 | Greater than 50.0 of mass 95       | 76.1                |
| 175 | 5.0 - 9.0% of mass 174             | 6.1 (8 )1           |
| 176 | 95.0 - 101% of mass 174            | 72.7 (95.5)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.3 (7.2 )2         |

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

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

| Client Sample ID       | Lab Sample ID | File ID      | Analysis Date/Time |
|------------------------|---------------|--------------|--------------------|
| WG1325768-2CCAL        | WG1325768-2   | V11191227A01 | 12/27/19 05:20     |
| WG1325768-3LCS         | WG1325768-3   | V11191227A01 | 12/27/19 05:20     |
| WG1325768-4LCSD        | WG1325768-4   | V11191227A02 | 12/27/19 05:44     |
| WG1325768-5BLANK       | WG1325768-5   | V11191227A05 | 12/27/19 07:00     |
| TANK-NORTH-122019 (8') | L1961284-05   | V11191227A15 | 12/27/19 11:11     |
| WG1325768-6MS          | WG1325768-6   | V11191227A25 | 12/27/19 15:25     |
| WG1325768-7MSD         | WG1325768-7   | V11191227A26 | 12/27/19 15:50 ✓   |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|               |                             |                |                     |
|---------------|-----------------------------|----------------|---------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284          |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207           |
| Instrument ID | : VOA111                    | Analysis Date  | : 12/27/19 04:55    |
| Tune Standard | : WG1325770-1               | Tune File ID   | : V11191227BF2_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.2                |
| 75  | 30.0 - 60.0% of mass 95            | 53.9                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 7.1                 |
| 173 | Less than 2.0% of mass 174         | 1 (1.4 )1           |
| 174 | Greater than 50.0 of mass 95       | 76.1                |
| 175 | 5.0 - 9.0% of mass 174             | 6.1 (8 )1           |
| 176 | 95.0 - 101% of mass 174            | 72.7 (95.5)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.3 (7.2 )2         |

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

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

| Client Sample ID      | Lab Sample ID | File ID      | Analysis Date/Time |
|-----------------------|---------------|--------------|--------------------|
| WG1325770-2CCAL       | WG1325770-2   | V11191227A01 | 12/27/19 05:20     |
| WG1325770-3LCS        | WG1325770-3   | V11191227A01 | 12/27/19 05:20     |
| WG1325770-4LCSD       | WG1325770-4   | V11191227A02 | 12/27/19 05:44     |
| WG1325770-5BLANK      | WG1325770-5   | V11191227A05 | 12/27/19 07:00     |
| TANK-WEST-122019 (8') | L1961284-03D  | V11191227A10 | 12/27/19 09:05     |
| TANK-BOT-122019 (11') | L1961284-02D  | V11191227A12 | 12/27/19 09:55     |
| DUP-01-122019         | L1961284-06D  | V11191227A14 | 12/27/19 10:45     |

**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|               |                             |                |                     |
|---------------|-----------------------------|----------------|---------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284          |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207           |
| Instrument ID | : VOA111                    | Analysis Date  | : 12/30/19 05:19    |
| Tune Standard | : WG1325794-1               | Tune File ID   | : V11191230BF1_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 20                  |
| 75  | 30.0 - 60.0% of mass 95            | 48.6                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.9                 |
| 173 | Less than 2.0% of mass 174         | 0.8 (1 )1           |
| 174 | Greater than 50.0 of mass 95       | 78                  |
| 175 | 5.0 - 9.0% of mass 174             | 6 (7.7 )1           |
| 176 | 95.0 - 101% of mass 174            | 75.2 (96.4)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.1 (6.7 )2         |

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

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

| Client Sample ID       | Lab Sample ID | File ID      | Analysis Date/Time |
|------------------------|---------------|--------------|--------------------|
| WG1325794-2CCAL        | WG1325794-2   | V11191230A01 | 12/30/19 05:40     |
| WG1325794-3LCS         | WG1325794-3   | V11191230A01 | 12/30/19 05:40     |
| WG1325794-4LCSD        | WG1325794-4   | V11191230A02 | 12/30/19 06:05     |
| WG1325794-5BLANK       | WG1325794-5   | V11191230A05 | 12/30/19 07:20     |
| TANK-SOUTH-122019 (8') | L1961284-04D  | V11191230A13 | 12/30/19 10:39 ✓   |



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Sample No : WG1325768-2

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/27/19 05:20  
 Lab File ID : V11191227A01

|                            | Fluorobenzene (IS) |        | Chlorobenzene-d5 |        | 1,4-Dichlorobenzene-D4 |         |
|----------------------------|--------------------|--------|------------------|--------|------------------------|---------|
|                            | Area               | RT     | Area             | RT     | Area                   | RT      |
| WG1325768-2                | 272895             | 5.45   | 221514           | 8.92   | 120351                 | 11.75   |
| Upper Limit                | 545790             | 5.95   | 443028           | 9.42   | 240702                 | 12.25   |
| Lower Limit                | 136448             | 4.95   | 110757           | 8.42   | 60176                  | 11.25   |
| Sample ID                  |                    |        |                  |        |                        |         |
| WG1325768-3 LCS            | 272895             | ✓ 5.45 | 221514           | ✓ 8.92 | 120351                 | ✓ 11.75 |
| WG1325768-4 LCSD           | 279369             | 5.45   | 233521           | 8.92   | 111290                 | 11.75   |
| WG1325768-5 BLANK          | 266441             | 5.45   | 210235           | 8.92   | 110674                 | 11.75   |
| TANK-NORTH-122019 (8')     | 334973             | 5.45   | 279350           | 8.92   | 144898                 | 11.75   |
| TANK-NORTH-122019 (8') MS  | 292049             | 5.45   | 244702           | 8.92   | 128800                 | 11.75   |
| TANK-NORTH-122019 (8') MSD | 282748             | 5.45   | 257032           | 8.92   | 131767                 | 11.75   |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : VOA111                    | Analysis Date  | : 12/27/19 05:20 |
| Sample No     | : WG1325770-2               | Lab File ID    | : V11191227A01   |

|                       | Fluorobenzene (IS) |      | Chlorobenzene-d5 |      | 1,4-Dichlorobenzene-D4 |       |
|-----------------------|--------------------|------|------------------|------|------------------------|-------|
|                       | Area               | RT   | Area             | RT   | Area                   | RT    |
| WG1325770-2           | 272895             | 5.45 | 221514           | 8.92 | 120351                 | 11.75 |
| Upper Limit           | 545790             | 5.95 | 443028           | 9.42 | 240702                 | 12.25 |
| Lower Limit           | 136448             | 4.95 | 110757           | 8.42 | 60176                  | 11.25 |
| Sample ID             |                    |      |                  |      |                        |       |
| WG1325770-3 LCS       | 272895 ✓           | 5.45 | 221514 ✓         | 8.92 | 120351 ✓               | 11.75 |
| WG1325770-4 LCSD      | 279369             | 5.45 | 233521           | 8.92 | 111290                 | 11.75 |
| WG1325770-5 BLANK     | 266441             | 5.45 | 210235           | 8.92 | 110674                 | 11.75 |
| TANK-WEST-122019 (8') | 241615             | 5.45 | 210360           | 8.92 | 113874                 | 11.75 |
| TANK-BOT-122019 (11') | 225865             | 5.45 | 176697           | 8.92 | 109486                 | 11.75 |
| DUP-01-122019         | 323255             | 5.45 | 269696           | 8.92 | 141131                 | 11.75 |

Area Upper Limit = +100% of internal standard area  
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : CHARLIE  
 Sample No : WG1325623-2

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/28/19 07:27  
 Lab File ID : VC191228A01

|                        | Fluorobenzene (IS) |        | Chlorobenzene-d5 |        | 1,4-Dichlorobenzene-D4 |         |
|------------------------|--------------------|--------|------------------|--------|------------------------|---------|
|                        | Area               | RT     | Area             | RT     | Area                   | RT      |
| WG1325623-2            | 92781              | 6.21   | 71520            | 9.76   | 38760                  | 12.41   |
| Upper Limit            | 185562             | 6.71   | 143040           | 10.26  | 77520                  | 12.91   |
| Lower Limit            | 46391              | 5.71   | 35760            | 9.26   | 19380                  | 11.91   |
| Sample ID              |                    |        |                  |        |                        |         |
| WG1325623-3 LCS        | 92781              | 6.21 ✓ | 71520            | 9.76 ✓ | 38760                  | 12.41 ✓ |
| WG1325623-4 LCSD       | 84760              | 6.21   | 66205            | 9.76   | 35177                  | 12.40   |
| WG1325623-5 BLANK      | 82873              | 6.21   | 63222            | 9.76   | 32143                  | 12.41   |
| TANK-EAST-122019 (10') | 74692              | 6.21   | 56710            | 9.76   | 30029                  | 12.41   |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Sample No : WG1325794-2

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/30/19 05:40  
 Lab File ID : V11191230A01

|                        | Fluorobenzene (IS) |      | Chlorobenzene-d5 |      | 1,4-Dichlorobenzene-D4 |       |
|------------------------|--------------------|------|------------------|------|------------------------|-------|
|                        | Area               | RT   | Area             | RT   | Area                   | RT    |
| WG1325794-2            | 340789             | 5.45 | 288898           | 8.92 | 151324                 | 11.75 |
| Upper Limit            | 681578             | 5.95 | 577796           | 9.42 | 302648                 | 12.25 |
| Lower Limit            | 170395             | 4.95 | 144449           | 8.42 | 75662                  | 11.25 |
| Sample ID              |                    |      |                  |      |                        |       |
| WG1325794-3 LCS        | 340789             | 5.45 | 288898           | 8.92 | 151324                 | 11.75 |
| WG1325794-4 LCSD       | 350167             | 5.45 | 299197           | 8.92 | 154976                 | 11.75 |
| WG1325794-5 BLANK      | 330694             | 5.45 | 278785           | 8.92 | 149345                 | 11.75 |
| TANK-SOUTH-122019 (8') | 311545             | 5.45 | 274848           | 8.92 | 151325                 | 11.75 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits





# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-01  
 Sample Amount : 30.39 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:09  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 89  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | ND      | 150 | 19. | U         |
| 118-74-1  | Hexachlorobenzene           | ND      | 110 | 21. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 170 | 25. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 180 | 18. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 180 | 49. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 180 | 37. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 180 | 32. | U         |
| 206-44-0  | Fluoranthene                | ND      | 110 | 21. | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 180 | 20. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 180 | 28. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 220 | 32. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 200 | 18. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 180 | 27. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 530 | 170 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 150 | 30. | U         |
| 78-59-1   | Isophorone                  | ND      | 170 | 24. | U         |
| 91-20-3   | Naphthalene                 | ND      | 180 | 22. | U         |
| 98-95-3   | Nitrobenzene                | ND      | 170 | 27. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 150 | 21. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 180 | 28. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 180 | 64. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 180 | 47. | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-01  
 Sample Amount : 30.39 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:09  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 89  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 180 | 35. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 180 | 63. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 180 | 17. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 180 | 39. | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 110 | 21. | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 150 | 45. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 110 | 31. | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 110 | 30. | U         |
| 218-01-9 | Chrysene               | ND      | 110 | 19. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 150 | 28. | U         |
| 120-12-7 | Anthracene             | ND      | 110 | 36. | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 150 | 22. | U         |
| 86-73-7  | Fluorene               | ND      | 180 | 18. | U         |
| 85-01-8  | Phenanthrene           | ND      | 110 | 22. | U         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 110 | 21. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 150 | 26. | U         |
| 129-00-0 | Pyrene                 | ND      | 110 | 18. | U         |
| 92-52-4  | Biphenyl               | ND      | 420 | 43. | U         |
| 106-47-8 | 4-Chloroaniline        | ND      | 180 | 34. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 180 | 36. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 180 | 35. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 180 | 77. | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-01  
Client ID : TANK-EAST-122019 (10')  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 61284-01  
Sample Amount : 30.39 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 10:10  
Date Received : 12/20/19  
Date Analyzed : 12/24/19 02:09  
Date Extracted : 12/22/19  
Dilution Factor : 1  
Analyst : EK  
Instrument ID : GCMS5  
GC Column : RTX5-MS  
%Solids : 89  
Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | ND      | 180 | 18. | U         |
| 91-57-6           | 2-Methylnaphthalene           | ND      | 220 | 22. | U         |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 180 | 19. | U         |
| 98-86-2           | Acetophenone                  | ND      | 180 | 23. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 110 | 35. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 180 | 28. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 180 | 22. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 170 | 30. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 180 | 61. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 400 | 70. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 260 | 76. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 890 | 86. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 480 | 89. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 150 | 41. | U         |
| 108-95-2          | Phenol                        | ND      | 180 | 28. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 180 | 29. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 270 | 29. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 180 | 35. | U         |
| 86-74-8           | Carbazole                     | ND      | 180 | 18. | U         |
| 1912-24-9         | Atrazine                      | ND      | 150 | 65. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 240 | 50. | U         |
| 105-60-2          | Caprolactam                   | ND      | 180 | 56. | U         |

71K



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-01                   | Date Collected   | : 12/20/19 10:10 |
| Client ID         | : TANK-EAST-122019 (10')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 02:09 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-01                      | Analyst          | : EK             |
| Sample Amount     | : 30.39 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 89             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 180 | 37. | U         |

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# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.               | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL        | Project Number : 2182207        |
| Lab ID : L1961284-01                            | Date Collected : 12/20/19 10:10 |
| Client ID : TANK-EAST-122019 (10')              | Date Received : 12/20/19        |
| Sample Location : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed : 12/24/19 02:09  |
| Sample Matrix : SOIL                            | Date Extracted : 12/22/19       |
| Analytical Method : 1,8270D                     | Dilution Factor : 1             |
| Lab File ID : 61284-01                          | Analyst : EK                    |
| Sample Amount : 30.39 g                         | Instrument ID : GCMS5           |
| Extraction Method : EPA 3546                    | GC Column :                     |
| Extract Volume : 1000 uL                        | %Solids : 89                    |
| GPC Cleanup : N                                 | Injection Volume : 1 uL         |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |

TMS



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-02  
 Sample Amount : 30.59 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:54  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 81  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene —              | 42      | 160 | 21. | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 120 | 22. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 180 | 27. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 200 | 20. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 200 | 53. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 200 | 40. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 200 | 34. | U         |
| 206-44-0  | Fluoranthene                | ND      | 120 | 23. | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 200 | 21. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 200 | 31. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 240 | 34. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 220 | 20. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 200 | 29. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 570 | 180 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 160 | 32. | U         |
| 78-59-1   | Isophorone                  | ND      | 180 | 26. | U         |
| 91-20-3   | Naphthalene —               | 210     | 200 | 24. |           |
| 98-95-3   | Nitrobenzene                | ND      | 180 | 30. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 160 | 23. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 200 | 31. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 200 | 69. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 200 | 51. | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-02  
 Sample Amount : 30.59 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:54  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 81  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 200 | 38. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 200 | 68. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 200 | 18. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 200 | 42. | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 120 | 23. | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 160 | 49. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 120 | 34. | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 120 | 32. | U         |
| 218-01-9 | Chrysene               | ND      | 120 | 21. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 160 | 31. | U         |
| 120-12-7 | Anthracene             | ND      | 120 | 39. | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 160 | 24. | U         |
| 86-73-7  | Fluorene               | 98      | 200 | 20. | J         |
| 85-01-8  | Phenanthrene           | 220     | 120 | 24. |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 120 | 23. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 160 | 28. | U         |
| 129-00-0 | Pyrene                 | 20      | 120 | 20. | J         |
| 92-52-4  | Biphenyl               | 160     | 460 | 46. | J         |
| 106-47-8 | 4-Chloroaniline        | ND      | 200 | 36. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 200 | 39. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 200 | 38. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 200 | 83. | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-02  
Client ID : TANK-BOT-122019 (11')  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 61284-02  
Sample Amount : 30.59 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 10:30  
Date Received : 12/20/19  
Date Analyzed : 12/24/19 02:54  
Date Extracted : 12/22/19  
Dilution Factor : 1  
Analyst : EK  
Instrument ID : GCMS5  
GC Column : RTX5-MS  
%Solids : 81  
Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran -                | 74      | 200 | 19. | J         |
| 91-57-6           | 2-Methylnaphthalene -         | 1200    | 240 | 24. |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 200 | 21. | U         |
| 98-86-2           | Acetophenone                  | ND      | 200 | 25. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 120 | 38. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 200 | 30. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 200 | 24. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 180 | 32. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 200 | 66. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 430 | 76. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 280 | 82. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND US   | 960 | 94. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND US   | 520 | 96. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 160 | 44. | U         |
| 108-95-2          | Phenol                        | ND      | 200 | 30. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 200 | 31. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 290 | 31. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 200 | 38. | U         |
| 86-74-8           | Carbazole                     | ND      | 200 | 20. | U         |
| 1912-24-9         | Atrazine                      | ND      | 160 | 70. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 260 | 54. | U         |
| 105-60-2          | Caprolactam                   | ND      | 200 | 61. | U         |

MS





# **Results Summary** **Form 1** **Semivolatile Organics by GC/MS**

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-02                   | Date Collected   | : 12/20/19 10:30 |
| Client ID         | : TANK-BOT-122019 (11')         | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 02:54 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-02                      | Analyst          | : EK             |
| Sample Amount     | : 30.59 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 81             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 200 | 40. | U         |

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# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-02  
 Sample Amount : 30.59 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:54  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column :  
 %Solids : 81  
 Injection Volume : 1 uL

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT   | EST. CONC. | Qualifier |
|------------|---------------------|------|------------|-----------|
|            | Unknown             | 4.20 | 1280       | J         |
|            | Unknown             | 4.78 | 2190       | J         |
|            | Unknown             | 5.15 | 1250       | J         |
|            | Unknown Cycloalkane | 5.52 | 941        | J         |
|            | Unknown Alkane      | 5.76 | 3630       | J         |
|            | Unknown Naphthalene | 5.82 | 1340       | J         |
|            | Unknown Naphthalene | 5.87 | 1530       | J         |
|            | Unknown Alkane      | 6.01 | 1040       | J         |
|            | Unknown Naphthalene | 6.24 | 1070       | J         |
|            | Unknown PAH         | 6.35 | 814        | J         |
|            | Unknown Naphthalene | 6.41 | 977        | J         |
|            | Unknown PAH         | 6.43 | 975        | J         |
|            | Unknown PAH         | 6.48 | 1000       | J         |
|            | Unknown Alkane      | 6.97 | 4300       | J         |
|            | Unknown Alkane      | 7.70 | 920        | J         |
|            | Total TIC Compounds |      | 23300J     | J         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-03  
 Sample Amount : 30.21 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 17:59  
 Date Extracted : 12/22/19  
 Dilution Factor : 10  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |      |      | Qualifier |
|-----------|-----------------------------|---------|------|------|-----------|
|           |                             | Results | RL   | MDL  |           |
| 83-32-9   | Acenaphthene                | 1300    | 1600 | 210  | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 1200 | 220  | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 1800 | 270  | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 2000 | 200  | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 2000 | 530  | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 2000 | 400  | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 2000 | 340  | U         |
| 206-44-0  | Fluoranthene                | ND      | 1200 | 230  | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 2000 | 210  | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 2000 | 300  | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 2400 | 340  | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 2200 | 200  | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 2000 | 290  | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 5700 | 1800 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 1600 | 320  | U         |
| 78-59-1   | Isophorone                  | ND      | 1800 | 260  | U         |
| 91-20-3   | Naphthalene                 | 5500    | 2000 | 240  |           |
| 98-95-3   | Nitrobenzene                | ND      | 1800 | 300  | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 1600 | 230  | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 2000 | 310  | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 2000 | 690  | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 2000 | 500  | U         |

M



# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-03  
 Sample Amount : 30.21 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 17:59  
 Date Extracted : 12/22/19  
 Dilution Factor : 10  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 2000 | 380 | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 2000 | 680 | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 2000 | 180 | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 2000 | 420 | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 1200 | 220 | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 1600 | 490 | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 1200 | 340 | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 1200 | 320 | U         |
| 218-01-9 | Chrysene               | ND      | 1200 | 210 | U         |
| 208-96-8 | Acenaphthylene         | ND      | 1600 | 310 | U         |
| 120-12-7 | Anthracene             | 520     | 1200 | 390 | J         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 1600 | 230 | U         |
| 86-73-7  | Fluorene               | 2500    | 2000 | 190 |           |
| 85-01-8  | Phenanthrene           | 5100    | 1200 | 240 |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 1200 | 230 | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 1600 | 280 | U         |
| 129-00-0 | Pyrene                 | 400     | 1200 | 200 | J         |
| 92-52-4  | Biphenyl               | 3700    | 4600 | 460 | J         |
| 106-47-8 | 4-Chloroaniline        | ND      | 2000 | 360 | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 2000 | 380 | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 2000 | 380 | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 2000 | 830 | U         |



# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-03D  
Client ID : TANK-WEST-122019 (8')  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 61284-03  
Sample Amount : 30.21 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 10:40  
Date Received : 12/20/19  
Date Analyzed : 12/26/19 17:59  
Date Extracted : 12/22/19  
Dilution Factor : 10  
Analyst : EK  
Instrument ID : SV103  
GC Column : RTX5-MS  
%Solids : 83  
Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |      |     | Qualifier |
|-------------------|-------------------------------|---------|------|-----|-----------|
|                   |                               | Results | RL   | MDL |           |
| 132-64-9          | Dibenzofuran                  | 1500    | 2000 | 190 | J         |
| 91-57-6           | 2-Methylnaphthalene           | 30000   | 2400 | 240 |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 2000 | 210 | U         |
| 98-86-2           | Acetophenone                  | ND      | 2000 | 250 | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 1200 | 380 | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 2000 | 300 | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 2000 | 240 | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 1800 | 320 | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 2000 | 660 | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 4300 | 750 | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 2800 | 810 | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 9600 | 930 | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 5200 | 960 | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 1600 | 440 | U         |
| 108-95-2          | Phenol                        | ND      | 2000 | 300 | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 2000 | 310 | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 2900 | 310 | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 2000 | 380 | U         |
| 86-74-8           | Carbazole                     | ND      | 2000 | 190 | U         |
| 1912-24-9         | Atrazine                      | ND      | 1600 | 700 | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 2600 | 540 | U         |
| 105-60-2          | Caprolactam                   | ND      | 2000 | 610 | U         |

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# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-03D                  | Date Collected   | : 12/20/19 10:40 |
| Client ID         | : TANK-WEST-122019 (8")         | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/26/19 17:59 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 10             |
| Lab File ID       | : 61284-03                      | Analyst          | : EK             |
| Sample Amount     | : 30.21 g                       | Instrument ID    | : SV103          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 83             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |      |     | Qualifier |
|---------|---------------------------|---------|------|-----|-----------|
|         |                           | Results | RL   | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 2000 | 400 | U         |

*MS*



# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-03  
 Sample Amount : 30.21 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 17:59  
 Date Extracted : 12/22/19  
 Dilution Factor : 10  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column :  
 %Solids : 83  
 Injection Volume : 1 uL

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT   | EST. CONC. | Qualifier |
|------------|---------------------|------|------------|-----------|
|            | Unknown Alkane      | 3.94 | 25700      | J         |
|            | Unknown Alkane      | 4.45 | 22200      | J         |
|            | Unknown             | 4.55 | 27800      | J         |
|            | Unknown Alkane      | 4.72 | 37600      | J         |
|            | Unknown Alkane      | 5.38 | 50500      | J         |
|            | Unknown Alkane      | 5.46 | 18900      | J         |
|            | Unknown Alkane      | 5.77 | 20000      | J         |
|            | Unknown             | 5.81 | 25200      | J         |
|            | Unknown Alkane      | 6.53 | 79300      | J         |
|            | Unknown Naphthalene | 6.60 | 25300      | J         |
|            | Unknown Naphthalene | 6.67 | 27600      | J         |
|            | Unknown Alkane      | 6.84 | 24600      | J         |
|            | Unknown Alkane      | 7.98 | 167000     | J         |
|            | Unknown Alkane      | 8.83 | 61400      | J         |
|            | Unknown Alkane      | 9.22 | 33200      | J         |
|            | Total TIC Compounds |      | 646000J    | J         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-04D  
Client ID : TANK-SOUTH-122019 (8')  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 61284-04  
Sample Amount : 30.26 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 11:15  
Date Received : 12/20/19  
Date Analyzed : 12/26/19 18:23  
Date Extracted : 12/22/19  
Dilution Factor : 5  
Analyst : EK  
Instrument ID : SV103  
GC Column : RTX5-MS  
%Solids : 87  
Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |      |     | Qualifier |
|-----------|-----------------------------|---------|------|-----|-----------|
|           |                             | Results | RL   | MDL |           |
| 83-32-9   | Acenaphthene                | 460     | 760  | 98. | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 570  | 110 | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 850  | 130 | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 950  | 94. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 950  | 250 | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 950  | 190 | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 950  | 160 | U         |
| 206-44-0  | Fluoranthene                | ND      | 570  | 110 | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 950  | 100 | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 950  | 140 | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 1100 | 160 | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 1000 | 95. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 950  | 140 | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 2700 | 860 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 760  | 150 | U         |
| 78-59-1   | Isophorone                  | ND      | 850  | 120 | U         |
| 91-20-3   | Naphthalene                 | 2600    | 950  | 120 |           |
| 98-95-3   | Nitrobenzene                | ND      | 850  | 140 | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 760  | 110 | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 950  | 150 | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 950  | 330 | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 950  | 240 | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-04  
 Sample Amount : 30.26 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:23  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 87  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 950  | 180 | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 950  | 320 | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 950  | 88. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 950  | 200 | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 570  | 110 | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 760  | 230 | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 570  | 160 | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 570  | 150 | U         |
| 218-01-9 | Chrysene               | ND      | 570  | 99. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 760  | 150 | U         |
| 120-12-7 | Anthracene             | ND      | 570  | 180 | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 760  | 110 | U         |
| 86-73-7  | Fluorene               | 980     | 950  | 92. |           |
| 85-01-8  | Phenanthrene           | 2300    | 570  | 120 |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 570  | 110 | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 760  | 130 | U         |
| 129-00-0 | Pyrene                 | 96      | 570  | 94. | J         |
| 92-52-4  | Biphenyl               | 1700    | 2200 | 220 | J         |
| 106-47-8 | 4-Chloroaniline        | ND      | 950  | 170 | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 950  | 180 | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 950  | 180 | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 950  | 390 | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-04  
 Sample Amount : 30.26 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:23  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 87  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |      |     | Qualifier |
|-------------------|-------------------------------|---------|------|-----|-----------|
|                   |                               | Results | RL   | MDL |           |
| 132-64-9          | Dibenzofuran                  | 730     | 950  | 90. | J         |
| 91-57-6           | 2-Methylnaphthalene           | 15000   | 1100 | 110 |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 950  | 99. | U         |
| 98-86-2           | Acetophenone                  | ND      | 950  | 120 | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 570  | 180 | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 950  | 140 | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 950  | 110 | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 850  | 150 | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 950  | 310 | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 2000 | 360 | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 1300 | 390 | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 4600 | 440 | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 2500 | 460 | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 760  | 210 | U         |
| 108-95-2          | Phenol                        | ND      | 950  | 140 | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 950  | 150 | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 1400 | 150 | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 950  | 180 | U         |
| 86-74-8           | Carbazole                     | ND      | 950  | 92. | U         |
| 1912-24-9         | Atrazine                      | ND      | 760  | 330 | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 1200 | 260 | U         |
| 105-60-2          | Caprolactam                   | ND      | 950  | 290 | U         |

JMS



# **Results Summary** **Form 1** **Semivolatile Organics by GC/MS**

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-04D                  | Date Collected   | : 12/20/19 11:15 |
| Client ID         | : TANK-SOUTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/26/19 18:23 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 5              |
| Lab File ID       | : 61284-04                      | Analyst          | : EK             |
| Sample Amount     | : 30.26 g                       | Instrument ID    | : SV103          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 87             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 950 | 190 | U         |

*7/11*



# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.               | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL        | Project Number : 2182207        |
| Lab ID : L1961284-04D                           | Date Collected : 12/20/19 11:15 |
| Client ID : TANK-SOUTH-122019 (8")              | Date Received : 12/20/19        |
| Sample Location : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed : 12/26/19 18:23  |
| Sample Matrix : SOIL                            | Date Extracted : 12/22/19       |
| Analytical Method : 1,8270D                     | Dilution Factor : 5             |
| Lab File ID : 61284-04                          | Analyst : EK                    |
| Sample Amount : 30.26 g                         | Instrument ID : SV103           |
| Extraction Method : EPA 3546                    | GC Column :                     |
| Extract Volume : 1000 uL                        | %Solids : 87                    |
| GPC Cleanup : N                                 | Injection Volume : 1 uL         |

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT   | EST. CONC. | Qualifier |
|------------|---------------------|------|------------|-----------|
|            | Unknown Alkane      | 4.72 | 14100      | J         |
|            | Unknown Benzene     | 5.07 | 6760       | J         |
|            | Unknown Alkane      | 5.38 | 21400      | J         |
|            | Unknown Alkane      | 5.46 | 7880       | J         |
|            | Unknown Alkane      | 5.76 | 7070       | J         |
|            | Unknown Alkane      | 5.81 | 11000      | J         |
|            | Unknown             | 6.24 | 8380       | J         |
|            | Unknown Alkane      | 6.53 | 28900      | J         |
|            | Unknown Naphthalene | 6.60 | 12100      | J         |
|            | Unknown Naphthalene | 6.67 | 12900      | J         |
|            | Unknown Alkane      | 6.84 | 10900      | J         |
|            | Unknown Naphthalene | 7.11 | 7020       | J         |
|            | Unknown PAH         | 7.31 | 6550       | J         |
|            | Unknown Alkane      | 7.98 | 36000      | J         |
|            | Unknown Alkane      | 8.82 | 7330       | J         |
|            | Total TIC Compounds |      | 198000J    | J         |

*MB*



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-05  
 Sample Amount : 30.91 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 07:27  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg        |     |     | Qualifier |
|-----------|-----------------------------|--------------|-----|-----|-----------|
|           |                             | Results      | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | ND           | 160 | 20. | U         |
| 118-74-1  | Hexachlorobenzene           | ND           | 120 | 22. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND           | 170 | 26. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND <i>UJ</i> | 190 | 19. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND           | 190 | 52. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND           | 190 | 39. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND <i>UJ</i> | 190 | 33. | U         |
| 206-44-0  | Fluoranthene                | 130          | 120 | 22. |           |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND           | 190 | 21. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND           | 190 | 30. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND           | 230 | 33. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND           | 210 | 19. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND           | 190 | 28. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND           | 560 | 180 | U         |
| 67-72-1   | Hexachloroethane            | ND           | 160 | 31. | U         |
| 78-59-1   | Isophorone                  | ND           | 170 | 25. | U         |
| 91-20-3   | Naphthalene                 | ND           | 190 | 24. | U         |
| 98-95-3   | Nitrobenzene                | ND           | 170 | 29. | U         |
| 86-30-6   | NDPA/DPA                    | ND           | 160 | 22. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND           | 190 | 30. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND           | 190 | 67. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND           | 190 | 49. | U         |

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# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8")  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-05  
 Sample Amount : 30.91 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 07:27  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 190 | 37. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 190 | 66. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 190 | 18. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 190 | 41. | U         |
| 56-55-3  | Benzo(a)anthracene     | 64      | 120 | 22. | J         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 160 | 47. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | 62      | 120 | 33. | J         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 120 | 31. | U         |
| 218-01-9 | Chrysene               | 53      | 120 | 20. | J         |
| 208-96-8 | Acenaphthylene         | ND      | 160 | 30. | U         |
| 120-12-7 | Anthracene             | ND      | 120 | 38. | U         |
| 191-24-2 | Benzo(ghi)perylene     | 33      | 160 | 23. | J         |
| 86-73-7  | Fluorene               | ND      | 190 | 19. | U         |
| 85-01-8  | Phenanthrene           | 79      | 120 | 24. | J         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 120 | 22. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 35      | 160 | 27. | J         |
| 129-00-0 | Pyrene                 | 110     | 120 | 19. | J         |
| 92-52-4  | Biphenyl               | ND      | 440 | 45. | U         |
| 106-47-8 | 4-Chloroaniline        | ND      | 190 | 35. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 190 | 37. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 190 | 37. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 190 | 80. | U         |

7M



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8")  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-05  
 Sample Amount : 30.91 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 07:27  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg           |     |     | Qualifier |
|-------------------|-------------------------------|-----------------|-----|-----|-----------|
|                   |                               | Results         | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | ND              | 190 | 18. | U         |
| 91-57-6           | 2-Methylnaphthalene           | ND              | 230 | 23. | U         |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND              | 190 | 20. | U         |
| 98-86-2           | Acetophenone                  | ND              | 190 | 24. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND              | 120 | 37. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND              | 190 | 29. | U         |
| 95-57-8           | 2-Chlorophenol                | ND              | 190 | 23. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND              | 170 | 31. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND              | 190 | 64. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND              | 420 | 73. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND              | 270 | 79. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | <del>ND</del> R | 930 | 90. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | <del>ND</del> R | 500 | 93. | U         |
| 87-86-5           | Pentachlorophenol             | ND              | 160 | 43. | U         |
| 108-95-2          | Phenol                        | ND              | 190 | 29. | U         |
| 95-48-7           | 2-Methylphenol                | ND              | 190 | 30. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND              | 280 | 30. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND              | 190 | 37. | U         |
| 86-74-8           | Carbazole                     | ND              | 190 | 19. | U         |
| 1912-24-9         | Atrazine                      | ND              | 160 | 68. | U         |
| 100-52-7          | Benzaldehyde                  | ND              | 260 | 52. | U         |
| 105-60-2          | Caprolactam                   | ND              | 190 | 59. | U         |

MK



# **Results Summary** **Form 1** **Semivolatile Organics by GC/MS**

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-05                   | Date Collected   | : 12/20/19 11:30 |
| Client ID         | : TANK-NORTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 07:27 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-05                      | Analyst          | : EK             |
| Sample Amount     | : 30.91 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 83             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 190 | 39. | U         |

*Handwritten signature/initials*





**Tentatively Identified Compounds  
Form 1  
Semivolatile Organics by GC/MS**

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-05  
Client ID : TANK-NORTH-122019 (8')  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 61284-05  
Sample Amount : 30.91 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 11:30  
Date Received : 12/20/19  
Date Analyzed : 12/24/19 07:27  
Date Extracted : 12/22/19  
Dilution Factor : 1  
Analyst : EK  
Instrument ID : GCMS5  
GC Column :  
%Solids : 83  
Injection Volume : 1 uL

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number | Compound Name | RT | EST. CONC. | Qualifier |
|------------|---------------|----|------------|-----------|
|------------|---------------|----|------------|-----------|

NO TENTATIVELY IDENTIFIED COMPOUNDS

*MS*



# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 88  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |      |     | Qualifier |
|-----------|-----------------------------|---------|------|-----|-----------|
|           |                             | Results | RL   | MDL |           |
| 83-32-9   | Acenaphthene                | 500     | 740  | 96. | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 550  | 100 | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 830  | 120 | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 920  | 92. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 920  | 250 | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 920  | 180 | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 920  | 160 | U         |
| 206-44-0  | Fluoranthene                | ND      | 550  | 110 | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 920  | 99. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 920  | 140 | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 1100 | 160 | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 1000 | 93. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 920  | 140 | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 2600 | 840 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 740  | 150 | U         |
| 78-59-1   | Isophorone                  | ND      | 830  | 120 | U         |
| 91-20-3   | Naphthalene                 | 3200    | 920  | 110 |           |
| 98-95-3   | Nitrobenzene                | ND      | 830  | 140 | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 740  | 100 | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 920  | 140 | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 920  | 320 | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 920  | 230 | U         |

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# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 88  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 920  | 180 | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 920  | 310 | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 920  | 86. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 920  | 190 | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 550  | 100 | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 740  | 220 | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 550  | 160 | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 550  | 150 | U         |
| 218-01-9 | Chrysene               | ND      | 550  | 96. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 740  | 140 | U         |
| 120-12-7 | Anthracene             | ND      | 550  | 180 | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 740  | 110 | U         |
| 86-73-7  | Fluorene               | 1200    | 920  | 90. |           |
| 85-01-8  | Phenanthrene           | 2600    | 550  | 110 |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 550  | 110 | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 740  | 130 | U         |
| 129-00-0 | Pyrene                 | 130     | 550  | 92. | J         |
| 92-52-4  | Biphenyl               | 2100    | 2100 | 210 |           |
| 106-47-8 | 4-Chloroaniline        | ND      | 920  | 170 | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 920  | 180 | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 920  | 170 | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 920  | 380 | U         |

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# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : L1961284-06D  
Client ID : DUP-01-122019  
Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 61284-06  
Sample Amount : 30.68 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : 12/20/19 00:00  
Date Received : 12/20/19  
Date Analyzed : 12/26/19 18:48  
Date Extracted : 12/22/19  
Dilution Factor : 5  
Analyst : EK  
Instrument ID : SV103  
GC Column : RTX5-MS  
%Solids : 88  
Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |      |     | Qualifier |
|-------------------|-------------------------------|---------|------|-----|-----------|
|                   |                               | Results | RL   | MDL |           |
| 132-64-9          | Dibenzofuran                  | 870     | 920  | 87. | J         |
| 91-57-6           | 2-Methylnaphthalene           | 18000   | 1100 | 110 |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 920  | 96. | U         |
| 98-86-2           | Acetophenone                  | ND      | 920  | 110 | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 550  | 180 | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 920  | 140 | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 920  | 110 | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 830  | 150 | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 920  | 300 | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 2000 | 350 | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 1300 | 380 | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 4400 | 430 | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 2400 | 440 | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 740  | 200 | U         |
| 108-95-2          | Phenol                        | ND      | 920  | 140 | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 920  | 140 | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 1300 | 140 | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 920  | 180 | U         |
| 86-74-8           | Carbazole                     | ND      | 920  | 90. | U         |
| 1912-24-9         | Atrazine                      | ND      | 740  | 320 | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 1200 | 250 | U         |
| 105-60-2          | Caprolactam                   | ND      | 920  | 280 | U         |

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# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 88  
 Injection Volume : 1 uL

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 920 | 190 | U         |

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# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column :  
 %Solids : 88  
 Injection Volume : 1 uL

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT   | EST. CONC. | Qualifier |
|------------|---------------------|------|------------|-----------|
|            | Unknown Alkane      | 4.72 | 15700      | J         |
|            | Unknown Alkane      | 5.38 | 22400      | J         |
|            | Unknown Alkane      | 5.81 | 12400      | J         |
|            | Unknown Cycloalkane | 6.24 | 14600      | J         |
|            | Unknown Alkane      | 6.53 | 51200      | J         |
|            | Unknown Naphthalene | 6.60 | 22100      | J         |
|            | Unknown Naphthalene | 6.67 | 23600      | J         |
|            | Unknown Naphthalene | 6.69 | 9520       | J         |
|            | Unknown Naphthalene | 6.78 | 10700      | J         |
|            | Unknown             | 6.79 | 11000      | J         |
|            | Unknown Alkane      | 6.84 | 19800      | J         |
|            | Unknown Naphthalene | 6.85 | 11700      | J         |
|            | Unknown Naphthalene | 7.11 | 12500      | J         |
|            | Unknown PAH         | 7.31 | 11400      | J         |
|            | Unknown Alkane      | 7.98 | 27000      | J         |
|            | Total TIC Compounds |      | 276000J    | J         |

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# Surrogate Recovery Summary

## Form 2

### Semivolatiles

Client: LaBella Associates, P.C.  
Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1961284  
Project Number: 2182207  
Matrix: Soil

| CLIENT ID<br>(LAB SAMPLE NO.)         | S1<br>(2FP) | S2<br>(PHL) | S3<br>(NBZ) | S4<br>(FBP) | S5<br>(TBP) | S6<br>(TPH) | TOT<br>OUT |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| TANK-EAST-122019 (10') (L1961284-01)  | 79 ✓        | 80 ✓        | 73          | 74 ✓        | 92          | 68 ✓        | 0          |
| TANK-BOT-122019 (11') (L1961284-02)   | 82          | 85          | 78          | 68          | 105         | 69          | 0          |
| TANK-WEST-122019 (8') (L1961284-03D)  | 87          | 91          | 133*        | 101         | 92          | 98          | 1          |
| TANK-SOUTH-122019 (8') (L1961284-04D) | 90          | 91          | 94          | 93          | 93          | 95          | 0          |
| TANK-NORTH-122019 (8') (L1961284-05)  | 93          | 94          | 80          | 78          | 116         | 76          | 0          |
| DUP-01-122019 (L1961284-06D)          | 85          | 91          | 103         | 87          | 74          | 90          | 0          |
| WG1323715-1BLANK                      | 83          | 86          | 65          | 60          | 91          | 65          | 0          |
| WG1323715-2LCS                        | 78          | 84          | 62          | 56          | 82          | 55          | 0          |
| WG1323715-3LCS                        | 75          | 81          | 62          | 56          | 83          | 57          | 0          |
| TANK-NORTH-122019 (8')MS              | 105         | 104         | 93          | 89          | 125         | 100         | 0          |
| TANK-NORTH-122019 (8')MSD             | 96          | 99          | 89          | 89          | 122         | 94          | 0          |

#### QC LIMITS

(25-120) 2FP = 2-FLUOROPHENOL  
(10-120) PHL = PHENOL-D6  
(23-120) NBZ = NITROBENZENE-D5  
(30-120) FBP = 2-FLUOROBIPHENYL  
(10-136) TBP = 2,4,6-TRIBROMOPHENOL  
(18-120) TPH = 4-TERPHENYL-D14

\* Values outside of QC limits

FORM II NYTCL-8270



# Laboratory Control Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1323715-2      Analysis Date : 12/24/19 01:04      File ID : 323715-2  
 LCSD Sample ID : WG1323715-3      Analysis Date : 12/24/19 01:27      File ID : 323715-3

| Parameter                   | Laboratory Control Sample |               |    | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|----|------------------------------|---------------|----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| Acenaphthene                | 1300                      | 1000          | 76 | 1300                         | 1000          | 76 | 0   | 31-137          | 50        |
| Hexachlorobenzene           | 1300                      | 980           | 75 | 1300                         | 1000          | 77 | 3   | 40-140          | 50        |
| Bis(2-chloroethyl)ether     | 1300                      | 900           | 69 | 1300                         | 890           | 68 | 1   | 40-140          | 50        |
| 2-Chloronaphthalene         | 1300                      | 980           | 75 | 1300                         | 980           | 75 | 0   | 40-140          | 50        |
| 3,3'-Dichlorobenzidine      | 1300                      | 740           | 57 | 1300                         | 680           | 52 | 9   | 40-140          | 50        |
| 2,4-Dinitrotoluene          | 1300                      | 1100          | 86 | 1300                         | 1200          | 89 | 3   | 40-132          | 50        |
| 2,6-Dinitrotoluene          | 1300                      | 1000          | 78 | 1300                         | 1100          | 82 | 5   | 40-140          | 50        |
| Fluoranthene                | 1300                      | 960           | 73 | 1300                         | 990           | 76 | 4   | 40-140          | 50        |
| 4-Chlorophenyl phenyl ether | 1300                      | 930           | 71 | 1300                         | 930           | 72 | 1   | 40-140          | 50        |
| 4-Bromophenyl phenyl ether  | 1300                      | 940           | 72 | 1300                         | 950           | 73 | 1   | 40-140          | 50        |
| Bis(2-chloroisopropyl)ether | 1300                      | 1300          | 96 | 1300                         | 1200          | 95 | 1   | 40-140          | 50        |
| Bis(2-chloroethoxy)methane  | 1300                      | 1000          | 77 | 1300                         | 970           | 74 | 4   | 40-117          | 50        |
| Hexachlorobutadiene         | 1300                      | 860           | 65 | 1300                         | 860           | 66 | 2   | 40-140          | 50        |
| Hexachlorocyclopentadiene   | 1300                      | 630           | 48 | 1300                         | 640           | 49 | 2   | 40-140          | 50        |
| Hexachloroethane            | 1300                      | 1000          | 78 | 1300                         | 950           | 73 | 7   | 40-140          | 50        |
| Isophorone                  | 1300                      | 1000          | 80 | 1300                         | 1000          | 79 | 1   | 40-140          | 50        |
| Naphthalene                 | 1300                      | 990           | 76 | 1300                         | 1000          | 76 | 0   | 40-140          | 50        |
| Nitrobenzene                | 1300                      | 1000          | 77 | 1300                         | 970           | 74 | 4   | 40-140          | 50        |
| NDPA/DPA                    | 1300                      | 990           | 76 | 1300                         | 990           | 76 | 0   | 36-157          | 50        |
| n-Nitrosodi-n-propylamine   | 1300                      | 1000          | 79 | 1300                         | 1000          | 78 | 1   | 32-121          | 50        |
| Bis(2-ethylhexyl)phthalate  | 1300                      | 1000          | 79 | 1300                         | 1000          | 79 | 0   | 40-140          | 50        |
| Butyl benzyl phthalate      | 1300                      | 1000          | 80 | 1300                         | 1100          | 81 | 1   | 40-140          | 50        |
| Di-n-butylphthalate         | 1300                      | 1000          | 81 | 1300                         | 1000          | 81 | 0   | 40-140          | 50        |
| Di-n-octylphthalate         | 1300                      | 1000          | 78 | 1300                         | 1000          | 78 | 0   | 40-140          | 50        |
| Diethyl phthalate           | 1300                      | 1000          | 77 | 1300                         | 1000          | 79 | 3   | 40-140          | 50        |
| Dimethyl phthalate          | 1300                      | 970           | 74 | 1300                         | 980           | 75 | 1   | 40-140          | 50        |





# Laboratory Control Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C. Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1323715-2 Analysis Date : 12/24/19 01:04 File ID : 323715-2  
 LCSD Sample ID : WG1323715-3 Analysis Date : 12/24/19 01:27 File ID : 323715-3

| Parameter                  | Laboratory Control Sample |               |    | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|----------------------------|---------------------------|---------------|----|------------------------------|---------------|----|-----|-----------------|-----------|
|                            | True (ug/kg)              | Found (ug/kg) | %R | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| Benzo(a)anthracene         | 1300                      | 900           | 68 | 1300                         | 900           | 69 | 1   | 40-140          | 50        |
| Benzo(a)pyrene             | 1300                      | 880           | 67 | 1300                         | 910           | 70 | 4   | 40-140          | 50        |
| Benzo(b)fluoranthene       | 1300                      | 900           | 68 | 1300                         | 930           | 71 | 4   | 40-140          | 50        |
| Benzo(k)fluoranthene       | 1300                      | 960           | 74 | 1300                         | 990           | 76 | 3   | 40-140          | 50        |
| Chrysene                   | 1300                      | 920           | 70 | 1300                         | 930           | 71 | 1   | 40-140          | 50        |
| Acenaphthylene             | 1300                      | 1000          | 76 | 1300                         | 1000          | 78 | 3   | 40-140          | 50        |
| Anthracene                 | 1300                      | 1000          | 78 | 1300                         | 1000          | 78 | 0   | 40-140          | 50        |
| Benzo(ghi)perylene         | 1300                      | 1000          | 80 | 1300                         | 1100          | 83 | 4   | 40-140          | 50        |
| Fluorene                   | 1300                      | 1000          | 77 | 1300                         | 1000          | 79 | 3   | 40-140          | 50        |
| Phenanthrene               | 1300                      | 960           | 74 | 1300                         | 980           | 75 | 1   | 40-140          | 50        |
| Dibenzo(a,h)anthracene     | 1300                      | 1000          | 78 | 1300                         | 1000          | 81 | 4   | 40-140          | 50        |
| Indeno(1,2,3-cd)pyrene     | 1300                      | 980           | 75 | 1300                         | 990           | 76 | 1   | 40-140          | 50        |
| Pyrene                     | 1300                      | 940           | 71 | 1300                         | 970           | 74 | 4   | 35-142          | 50        |
| Biphenyl                   | 1300                      | 990           | 76 | 1300                         | 990           | 76 | 0   | 37-127          | 50        |
| 4-Chloroaniline            | 1300                      | 780           | 60 | 1300                         | 670           | 51 | 16  | 40-140          | 50        |
| 2-Nitroaniline             | 1300                      | 1100          | 85 | 1300                         | 1100          | 88 | 3   | 47-134          | 50        |
| 3-Nitroaniline             | 1300                      | 920           | 70 | 1300                         | 830           | 64 | 9   | 26-129          | 50        |
| 4-Nitroaniline             | 1300                      | 940           | 71 | 1300                         | 950           | 73 | 3   | 41-125          | 50        |
| Dibenzofuran               | 1300                      | 1000          | 77 | 1300                         | 1000          | 77 | 0   | 40-140          | 50        |
| 2-Methylnaphthalene        | 1300                      | 1100          | 81 | 1300                         | 1000          | 78 | 4   | 40-140          | 50        |
| 1,2,4,5-Tetrachlorobenzene | 1300                      | 890           | 68 | 1300                         | 890           | 68 | 0   | 40-117          | 50        |
| Acetophenone               | 1300                      | 1000          | 78 | 1300                         | 1000          | 77 | 1   | 14-144          | 50        |
| 2,4,6-Trichlorophenol      | 1300                      | 890           | 68 | 1300                         | 920           | 71 | 4   | 30-130          | 50        |
| p-Chloro-m-cresol          | 1300                      | 1100          | 84 | 1300                         | 1100          | 85 | 1   | 26-103          | 50        |
| 2-Chlorophenol             | 1300                      | 1000          | 81 | 1300                         | 1000          | 79 | 3   | 25-102          | 50        |
| 2,4-Dichlorophenol         | 1300                      | 1100          | 81 | 1300                         | 1000          | 80 | 1   | 30-130          | 50        |



# Laboratory Control Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1323715-2      Analysis Date : 12/24/19 01:04      File ID : 323715-2  
 LCSD Sample ID : WG1323715-3      Analysis Date : 12/24/19 01:27      File ID : 323715-3

| Parameter                     | Laboratory Control Sample |               |    | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|-------------------------------|---------------------------|---------------|----|------------------------------|---------------|----|-----|-----------------|-----------|
|                               | True (ug/kg)              | Found (ug/kg) | %R | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| 2,4-Dimethylphenol            | 1300                      | 1000          | 81 | 1300                         | 1000          | 78 | 4   | 30-130          | 50        |
| 2-Nitrophenol                 | 1300                      | 1200          | 92 | 1300                         | 1200          | 91 | 1   | 30-130          | 50        |
| 4-Nitrophenol                 | 1300                      | 1100          | 86 | 1300                         | 1200          | 90 | 5   | 11-114          | 50        |
| 2,4-Dinitrophenol             | 1300                      | 300           | 22 | 1300                         | 320           | 25 | 13  | 4-130           | 50        |
| 4,6-Dinitro-o-cresol          | 1300                      | 880           | 68 | 1300                         | 960           | 74 | 8   | 10-130          | 50        |
| Pentachlorophenol             | 1300                      | 660           | 50 | 1300                         | 710           | 54 | 8   | 17-109          | 50        |
| Phenol                        | 1300                      | 1000          | 80 | 1300                         | 1000          | 79 | 1   | 26-90           | 50        |
| 2-Methylphenol                | 1300                      | 1100          | 83 | 1300                         | 1100          | 82 | 1   | 30-130          | 50        |
| 3-Methylphenol/4-Methylphenol | 1300                      | 1100          | 82 | 1300                         | 1000          | 80 | 2   | 30-130          | 50        |
| 2,4,5-Trichlorophenol         | 1300                      | 1000          | 77 | 1300                         | 1000          | 78 | 1   | 30-130          | 50        |
| Carbazole                     | 1300                      | 1000          | 76 | 1300                         | 1000          | 78 | 3   | 54-128          | 50        |
| Atrazine                      | 1300                      | 880           | 67 | 1300                         | 890           | 68 | 1   | 40-140          | 50        |
| Benzaldehyde                  | 1300                      | 800           | 61 | 1300                         | 830           | 64 | 5   | 40-140          | 50        |
| Caprolactam                   | 1300                      | 1200          | 89 | 1300                         | 1200          | 92 | 3   | 15-130          | 50        |
| 2,3,4,6-Tetrachlorophenol     | 1300                      | 910           | 70 | 1300                         | 970           | 74 | 6   | 40-140          | 50        |



# Matrix Spike Sample Summary Form 3 Semivolatiles

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Client Sample ID : TANK-NORTH-122019 (8')  
Lab Sample ID : L1961284-05  
Matrix Spike : WG1323715-4  
Matrix Spike Dup : WG1323715-5

Lab Number : L1961284  
Project Number : 2182207  
Matrix : SOIL  
Analysis Date : 12/24/19 07:27  
MS Analysis Date : 12/24/19 06:42  
MSD Analysis Date : 12/24/19 07:04

| Parameter                   | Sample Conc.<br>(ug/kg) | Matrix Spike Added<br>(ug/kg) | Sample Spike Conc.<br>(ug/kg) | %R ✓  | Matrix Spike Duplicate Spike Added<br>(ug/kg) | Matrix Spike Duplicate Spike Conc.<br>(ug/kg) | %R ✓  | RPD | Recovery Limits | RPD Limit |
|-----------------------------|-------------------------|-------------------------------|-------------------------------|-------|-----------------------------------------------|-----------------------------------------------|-------|-----|-----------------|-----------|
| Acenaphthene                | ND                      | 1560                          | 1500                          | 96 ✓  | 1570                                          | 1500                                          | 95 ✓  | 0   | 31-137          | 50        |
| Hexachlorobenzene           | ND                      | 1560                          | 1800                          | 120   | 1570                                          | 1800                                          | 110   | 0   | 40-140          | 50        |
| Bis(2-chloroethyl)ether     | ND                      | 1560                          | 1400                          | 90    | 1570                                          | 1300                                          | 83    | 7   | 40-140          | 50        |
| 2-Chloronaphthalene         | ND                      | 1560                          | 1500                          | 96    | 1570                                          | 1500                                          | 95    | 0   | 40-140          | 50        |
| 3,3'-Dichlorobenzidine      | ND                      | 1560                          | 1200                          | 77    | 1570                                          | 1300                                          | 83    | 8   | 40-140          | 50        |
| 2,4-Dinitrotoluene          | ND                      | 1560                          | 1600                          | 100 ✓ | 1570                                          | 1700                                          | 110 ✓ | 6   | 40-132          | 50        |
| 2,6-Dinitrotoluene          | ND                      | 1560                          | 1600                          | 100   | 1570                                          | 1700                                          | 110   | 6   | 40-140          | 50        |
| Fluoranthene                | 130                     | 1560                          | 1700                          | 100   | 1570                                          | 1600                                          | 93    | 6   | 40-140          | 50        |
| 4-Chlorophenyl phenyl ether | ND                      | 1560                          | 1500                          | 96    | 1570                                          | 1500                                          | 95    | 0   | 40-140          | 50        |
| 4-Bromophenyl phenyl ether  | ND                      | 1560                          | 1700                          | 110   | 1570                                          | 1700                                          | 110   | 0   | 40-140          | 50        |
| Bis(2-chloroisopropyl)ether | ND                      | 1560                          | 1200                          | 77    | 1570                                          | 1100                                          | 70    | 9   | 40-140          | 50        |
| Bis(2-chloroethoxy)methane  | ND                      | 1560                          | 1400                          | 90    | 1570                                          | 1400                                          | 89    | 0   | 40-117          | 50        |
| Hexachlorobutadiene         | ND                      | 1560                          | 1600                          | 100   | 1570                                          | 1400                                          | 89    | 13  | 40-140          | 50        |
| Hexachlorocyclopentadiene   | ND                      | 1560                          | 790                           | 51    | 1570                                          | 650                                           | 41    | 19  | 40-140          | 50        |
| Hexachloroethane            | ND                      | 1560                          | 1400                          | 90    | 1570                                          | 1300                                          | 83    | 7   | 40-140          | 50        |
| Isophorone                  | ND                      | 1560                          | 1400                          | 90    | 1570                                          | 1400                                          | 89    | 0   | 40-140          | 50        |
| Naphthalene                 | ND                      | 1560                          | 1600                          | 100   | 1570                                          | 1500                                          | 95    | 6   | 40-140          | 50        |
| Nitrobenzene                | ND                      | 1560                          | 1400                          | 90    | 1570                                          | 1400                                          | 89    | 0   | 40-140          | 50        |
| NDPA/DPA                    | ND                      | 1560                          | 1600                          | 100   | 1570                                          | 1600                                          | 100   | 0   | 36-157          | 50        |
| n-Nitrosodi-n-propylamine   | ND                      | 1560                          | 1400                          | 90 ✓  | 1570                                          | 1400                                          | 89 ✓  | 0   | 32-121          | 50        |
| Bis(2-ethylhexyl)phthalate  | ND                      | 1560                          | 1400                          | 90    | 1570                                          | 1500                                          | 95    | 7   | 40-140          | 50        |
| Butyl benzyl phthalate      | ND                      | 1560                          | 1700                          | 110   | 1570                                          | 1600                                          | 100   | 6   | 40-140          | 50        |



# Matrix Spike Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Client Sample ID : TANK-NORTH-122019 (8')      Matrix : SOIL  
 Lab Sample ID : L1961284-05      Analysis Date : 12/24/19 07:27  
 Matrix Spike : WG1323715-4      MS Analysis Date : 12/24/19 06:42  
 Matrix Spike Dup : WG1323715-5      MSD Analysis Date : 12/24/19 07:04

| Parameter              | Sample<br>Conc.<br>(ug/kg) | Matrix Spike Sample       |                           | %R ✓  | Matrix Spike Duplicate    |                           | %R ✓ | RPD | Recovery<br>Limits | RPD<br>Limit |
|------------------------|----------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|------|-----|--------------------|--------------|
|                        |                            | Spike<br>Added<br>(ug/kg) | Spike<br>Conc.<br>(ug/kg) |       | Spike<br>Added<br>(ug/kg) | Spike<br>Conc.<br>(ug/kg) |      |     |                    |              |
| Di-n-butylphthalate    | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 40-140             | 50           |
| Di-n-octylphthalate    | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 40-140             | 50           |
| Diethyl phthalate      | ND                         | 1560                      | 1500                      | 96    | 1570                      | 1500                      | 95   | 0   | 40-140             | 50           |
| Dimethyl phthalate     | ND                         | 1560                      | 1400                      | 90    | 1570                      | 1600                      | 100  | 13  | 40-140             | 50           |
| Benzo(a)anthracene     | 64J                        | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 40-140             | 50           |
| Benzo(a)pyrene         | ND                         | 1560                      | 1400                      | 90    | 1570                      | 1300                      | 83   | 7   | 40-140             | 50           |
| Benzo(b)fluoranthene   | 62J                        | 1560                      | 1500                      | 96    | 1570                      | 1500                      | 95   | 0   | 40-140             | 50           |
| Benzo(k)fluoranthene   | ND                         | 1560                      | 1500                      | 96    | 1570                      | 1300                      | 83   | 14  | 40-140             | 50           |
| Chrysene               | 53J                        | 1560                      | 1400                      | 90    | 1570                      | 1400                      | 89   | 0   | 40-140             | 50           |
| Acenaphthylene         | ND                         | 1560                      | 1500                      | 96    | 1570                      | 1600                      | 100  | 6   | 40-140             | 50           |
| Anthracene             | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1500                      | 95   | 6   | 40-140             | 50           |
| Benzo(ghi)perylene     | 33J                        | 1560                      | 1500                      | 96    | 1570                      | 1500                      | 95   | 0   | 40-140             | 50           |
| Fluorene               | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 40-140             | 50           |
| Phenanthrene           | 79J                        | 1560                      | 1500                      | 96    | 1570                      | 1500                      | 95   | 0   | 40-140             | 50           |
| Dibenzo(a,h)anthracene | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 40-140             | 50           |
| Indeno(1,2,3-cd)pyrene | 35J                        | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 40-140             | 50           |
| Pyrene                 | 110J                       | 1560                      | 1600                      | 100 ✓ | 1570                      | 1500                      | 95 ✓ | 6   | 35-142             | 50           |
| Biphenyl               | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1600                      | 100  | 0   | 37-127             | 50           |
| 4-Chloroaniline        | ND                         | 1560                      | 1200                      | 77 ✓  | 1570                      | 1400                      | 89 ✓ | 15  | 40-140             | 50           |
| 2-Nitroaniline         | ND                         | 1560                      | 1800                      | 120   | 1570                      | 1900                      | 120  | 5   | 47-134             | 50           |
| 3-Nitroaniline         | ND                         | 1560                      | 1500                      | 96    | 1570                      | 1600                      | 100  | 6   | 26-129             | 50           |
| 4-Nitroaniline         | ND                         | 1560                      | 1600                      | 100   | 1570                      | 1700                      | 110  | 6   | 41-125             | 50           |



# Matrix Spike Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Client Sample ID : TANK-NORTH-122019 (8')      Matrix : SOIL  
 Lab Sample ID : L1961284-05      Analysis Date : 12/24/19 07:27  
 Matrix Spike : WG1323715-4      MS Analysis Date : 12/24/19 06:42  
 Matrix Spike Dup : WG1323715-5      MSD Analysis Date : 12/24/19 07:04

| Parameter                     | Sample Conc.<br>(ug/kg) | Matrix Spike Sample    |                        | %R  | Matrix Spike Duplicate |                        | %R  | RPD | Recovery Limits | RPD Limit |
|-------------------------------|-------------------------|------------------------|------------------------|-----|------------------------|------------------------|-----|-----|-----------------|-----------|
|                               |                         | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) |     | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) |     |     |                 |           |
| Dibenzofuran                  | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| 2-Methylnaphthalene           | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| 1,2,4,5-Tetrachlorobenzene    | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1700                   | 110 | 6   | 40-117          | 50        |
| Acetophenone                  | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 14-144          | 50        |
| 2,4,6-Trichlorophenol         | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1800                   | 110 | 6   | 30-130          | 50        |
| p-Chloro-m-cresol             | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 26-103          | 50        |
| 2-Chlorophenol                | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1700                   | 110 | 0   | 25-102          | 50        |
| 2,4-Dichlorophenol            | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1800                   | 110 | 6   | 30-130          | 50        |
| 2,4-Dimethylphenol            | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1400                   | 89  | 0   | 30-130          | 50        |
| 2-Nitrophenol                 | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1400                   | 89  | 7   | 30-130          | 50        |
| 4-Nitrophenol                 | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 11-114          | 50        |
| 2,4-Dinitrophenol             | ND                      | 1560                   | 160J                   | 10  | 1570                   | 140J                   | 9   | 13  | 4-130           | 50        |
| 4,6-Dinitro-o-cresol          | ND                      | 1560                   | 260J                   | 17  | 1570                   | 190J                   | 12  | 31  | 10-130          | 50        |
| Pentachlorophenol             | ND                      | 1560                   | 1900                   | 120 | 1570                   | 1700                   | 110 | 11  | 17-109          | 50        |
| Phenol                        | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 26-90           | 50        |
| 2-Methylphenol                | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 30-130          | 50        |
| 3-Methylphenol/4-Methylphenol | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1700                   | 110 | 0   | 30-130          | 50        |
| 2,4,5-Trichlorophenol         | ND                      | 1560                   | 1800                   | 120 | 1570                   | 1900                   | 120 | 5   | 30-130          | 50        |
| Carbazole                     | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1500                   | 95  | 6   | 54-128          | 50        |
| Atrazine                      | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| Benzaldehyde                  | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1600                   | 100 | 6   | 40-140          | 50        |
| Caprolactam                   | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1600                   | 100 | 6   | 15-130          | 50        |



# **Matrix Spike Sample Summary** **Form 3** **Semivolatiles**

|                         |                                    |                          |                         |
|-------------------------|------------------------------------|--------------------------|-------------------------|
| <b>Client</b>           | <b>: LaBella Associates, P.C.</b>  | <b>Lab Number</b>        | <b>: L1961284</b>       |
| <b>Project Name</b>     | <b>: FORMER WOLLENSACK OPTICAL</b> | <b>Project Number</b>    | <b>: 2182207</b>        |
| <b>Client Sample ID</b> | <b>: TANK-NORTH-122019 (8')</b>    | <b>Matrix</b>            | <b>: SOIL</b>           |
| <b>Lab Sample ID</b>    | <b>: L1961284-05</b>               | <b>Analysis Date</b>     | <b>: 12/24/19 07:27</b> |
| <b>Matrix Spike</b>     | <b>: WG1323715-4</b>               | <b>MS Analysis Date</b>  | <b>: 12/24/19 06:42</b> |
| <b>Matrix Spike Dup</b> | <b>: WG1323715-5</b>               | <b>MSD Analysis Date</b> | <b>: 12/24/19 07:04</b> |

| Parameter                 | Sample           | Matrix Spike Sample       |                           |     | Matrix Spike Duplicate    |                           |     | RPD | Recovery | RPD |
|---------------------------|------------------|---------------------------|---------------------------|-----|---------------------------|---------------------------|-----|-----|----------|-----|
|                           | Conc.<br>(ug/kg) | Spike<br>Added<br>(ug/kg) | Spike<br>Conc.<br>(ug/kg) | %R  | Spike<br>Added<br>(ug/kg) | Spike<br>Conc.<br>(ug/kg) | %R  |     |          |     |
| 2,3,4,6-Tetrachlorophenol | ND               | 1560                      | 1800                      | 120 | 1570                      | 1800                      | 110 | 0   | 40-140   | 50  |



# Method Blank Summary

## Form 4

### Semivolatiles

|               |                             |                 |                  |
|---------------|-----------------------------|-----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number      | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number  | : 2182207        |
| Lab Sample ID | : WG1323715-1               | Lab File ID     | : 323715-1       |
| Instrument ID | : BUFFY                     | Extraction Date | : 12/22/19       |
| Matrix        | : SOIL                      | Analysis Date   | : 12/24/19 00:41 |
| Level         | : LOW                       |                 |                  |

| Client Sample No.         | Lab Sample ID | Analysis Date  |
|---------------------------|---------------|----------------|
| WG1323715-2LCS            | WG1323715-2   | 12/24/19 01:04 |
| WG1323715-3LCSD           | WG1323715-3   | 12/24/19 01:27 |
| TANK-EAST-122019 (10')    | L1961284-01   | 12/24/19 02:09 |
| TANK-BOT-122019 (11')     | L1961284-02   | 12/24/19 02:54 |
| TANK-NORTH-122019 (8')MS  | WG1323715-4   | 12/24/19 06:42 |
| TANK-NORTH-122019 (8')MSD | WG1323715-5   | 12/24/19 07:04 |
| TANK-NORTH-122019 (8')    | L1961284-05   | 12/24/19 07:27 |
| TANK-WEST-122019 (8')     | L1961284-03D  | 12/26/19 17:59 |
| TANK-SOUTH-122019 (8')    | L1961284-04D  | 12/26/19 18:23 |
| DUP-01-122019             | L1961284-06D  | 12/26/19 18:48 |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1323715-1  
 Client ID : WG1323715-1BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 323715-1  
 Sample Amount : 30.2 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/24/19 00:41  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : JG  
 Instrument ID : BUFFY  
 GC Column : RTX5-MS  
 %Solids : NA  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | ND ✓    | 130 | 17. | U         |
| 118-74-1  | Hexachlorobenzene           | ND      | 99  | 18. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 150 | 22. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 160 | 16. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 160 | 44. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 160 | 33. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 160 | 28. | U         |
| 206-44-0  | Fluoranthene                | ND      | 99  | 19. | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 160 | 18. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 160 | 25. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 200 | 28. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 180 | 16. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 160 | 24. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 470 | 150 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 130 | 27. | U         |
| 78-59-1   | Isophorone                  | ND      | 150 | 21. | U         |
| 91-20-3   | Naphthalene                 | ND      | 160 | 20. | U         |
| 98-95-3   | Nitrobenzene                | ND      | 150 | 24. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 130 | 19. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 160 | 26. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 160 | 57. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 160 | 42. | U         |





# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1323715-1  
 Client ID : WG1323715-1BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 323715-1  
 Sample Amount : 30.2 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/24/19 00:41  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : JG  
 Instrument ID : BUFFY  
 GC Column : RTX5-MS  
 %Solids : NA  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND ✓    | 160 | 31. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 160 | 56. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 160 | 15. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 160 | 35. | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 99  | 19. | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 130 | 40. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 99  | 28. | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 99  | 26. | U         |
| 218-01-9 | Chrysene               | ND      | 99  | 17. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 130 | 26. | U         |
| 120-12-7 | Anthracene             | ND      | 99  | 32. | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 130 | 19. | U         |
| 86-73-7  | Fluorene               | ND      | 160 | 16. | U         |
| 85-01-8  | Phenanthrene           | ND      | 99  | 20. | U         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 99  | 19. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 130 | 23. | U         |
| 129-00-0 | Pyrene                 | ND      | 99  | 16. | U         |
| 92-52-4  | Biphenyl               | ND      | 380 | 38. | U         |
| 106-47-8 | 4-Chloroaniline        | ND      | 160 | 30. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 160 | 32. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 160 | 31. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 160 | 68. | U         |



# Results Summary Form 1 Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
Project Name : FORMER WOLLENSACK OPTICAL  
Lab ID : WG1323715-1  
Client ID : WG1323715-1BLANK  
Sample Location :  
Sample Matrix : SOIL  
Analytical Method : 1,8270D  
Lab File ID : 323715-1  
Sample Amount : 30.2 g  
Extraction Method : EPA 3546  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L1961284  
Project Number : 2182207  
Date Collected : NA  
Date Received : NA  
Date Analyzed : 12/24/19 00:41  
Date Extracted : 12/22/19  
Dilution Factor : 1  
Analyst : JG  
Instrument ID : BUFFY  
GC Column : RTX5-MS  
%Solids : NA  
Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | ND ✓    | 160 | 16. | U         |
| 91-57-6           | 2-Methylnaphthalene           | ND      | 200 | 20. | U         |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 160 | 17. | U         |
| 98-86-2           | Acetophenone                  | ND      | 160 | 20. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 99  | 31. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 160 | 25. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 160 | 20. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 150 | 27. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 160 | 55. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 360 | 62. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 230 | 68. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 790 | 77. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 430 | 79. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 130 | 36. | U         |
| 108-95-2          | Phenol                        | ND      | 160 | 25. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 160 | 26. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 240 | 26. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 160 | 32. | U         |
| 86-74-8           | Carbazole                     | ND      | 160 | 16. | U         |
| 1912-24-9         | Atrazine                      | ND      | 130 | 58. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 220 | 45. | U         |
| 105-60-2          | Caprolactam                   | ND      | 160 | 50. | U         |



# **Results Summary** **Form 1** **Semivolatile Organics by GC/MS**

|                   |                             |                  |                  |
|-------------------|-----------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID            | : WG1323715-1               | Date Collected   | : NA             |
| Client ID         | : WG1323715-1BLANK          | Date Received    | : NA             |
| Sample Location   | :                           | Date Analyzed    | : 12/24/19 00:41 |
| Sample Matrix     | : SOIL                      | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                   | Dilution Factor  | : 1              |
| Lab File ID       | : 323715-1                  | Analyst          | : JG             |
| Sample Amount     | : 30.2 g                    | Instrument ID    | : BUFFY          |
| Extraction Method | : EPA 3546                  | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                   | %Solids          | : NA             |
| GPC Cleanup       | : N                         | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND ✓    | 160 | 33. | U         |



**Tentatively Identified Compounds  
Form 1  
Semivolatile Organics by GC/MS**

|                   |                             |                  |                  |
|-------------------|-----------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID            | : WG1323715-1               | Date Collected   | : NA             |
| Client ID         | : WG1323715-1BLANK          | Date Received    | : NA             |
| Sample Location   | :                           | Date Analyzed    | : 12/24/19 00:41 |
| Sample Matrix     | : SOIL                      | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                   | Dilution Factor  | : 1              |
| Lab File ID       | : 323715-1                  | Analyst          | : JG             |
| Sample Amount     | : 30.2 g                    | Instrument ID    | : BUFFY          |
| Extraction Method | : EPA 3546                  | GC Column        | :                |
| Extract Volume    | : 1000 uL                   | %Solids          | : NA             |
| GPC Cleanup       | : N                         | Injection Volume | : 1 uL           |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Tune Standard : R1195495-34

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 06/09/19 14:11  
 Tune File ID : Tune1\_tune

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 36.5                |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 47.7                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.7                 |
| 275 | 10.0 - 60.0% of Base Peak              | 23.6                |
| 365 | Greater than 1.0% of mass 198          | 2.7                 |
| 441 | Present, but less than 24% of mass 442 | 17.1                |
| 442 | Base Peak, or >50% of mass 198         | 72                  |
| 443 | 15.0 - 24.0% of mass 442               | 14.4 (20 )2         |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ABNL10               | R1195495-3    | ABNL10  | 06/09/19 14:39     |
| ABNL9                | R1195495-10   | ABNL9   | 06/09/19 15:04     |
| ABNL8                | R1195495-9    | ABNL8   | 06/09/19 15:30     |
| ABNL7                | R1195495-8    | ABNL7   | 06/09/19 15:56     |
| ABNL6                | R1195495-7    | ABNL6   | 06/09/19 16:22     |
| ABNL5                | R1195495-6    | ABNL5   | 06/09/19 16:47     |
| ABNL4                | R1195495-5    | ABNL4   | 06/09/19 17:13     |
| ABNL3                | R1195495-4    | ABNL3   | 06/09/19 17:39     |
| ABNL2                | R1195495-2    | ABNL2   | 06/09/19 18:05     |
| ABNL1                | R1195495-1    | ABNL1   | 06/09/19 18:30     |
| AP9L10               | R1195495-22   | AP9L10  | 06/09/19 18:56     |
| AP9L9                | R1195495-30   | AP9L9   | 06/09/19 19:22     |
| AP9L8                | R1195495-29   | AP9L8   | 06/09/19 19:47     |
| AP9L7                | R1195495-28   | AP9L7   | 06/09/19 20:13     |
| AP9L6                | R1195495-27   | AP9L6   | 06/09/19 20:39     |
| AP9L5                | R1195495-26   | AP9L5   | 06/09/19 21:05     |
| AP9L4                | R1195495-25   | AP9L4   | 06/09/19 21:31     |
| AP9L3                | R1195495-24   | AP9L3   | 06/09/19 21:56     |
| AP9L2                | R1195495-23   | AP9L2   | 06/09/19 22:22     |
| AP9L1                | R1195495-21   | AP9L1   | 06/09/19 22:48     |
| ABN ICV Quant Report | R1195495-31   | ABNICV  | 06/09/19 23:14     |
| AP9 ICV Quant Report | R1195495-33   | AP9ICV  | 06/09/19 23:40     |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : GCMS5                     | Analysis Date  | : 06/10/19 00:05 |
| Tune Standard | : R1195495-35               | Tune File ID   | : Tune2_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 32.3                |
| 68  | Less than 2.0% of mass 69              | 0.1 (.3 )1 ✓        |
| 70  | Less than 2.0% of mass 69              | 0.2 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 45.6                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 24.5                |
| 365 | Greater than 1.0% of mass 198          | 2.7                 |
| 441 | Present, but less than 24% of mass 442 | 16.8                |
| 442 | Base Peak, or >50% of mass 198         | 81.4                |
| 443 | 15.0 - 24.0% of mass 442               | 15.3 (18.8)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ADPL10               | R1195495-12   | ADPL10  | 06/10/19 00:31     |
| ADPL9                | R1195495-20   | ADPL9   | 06/10/19 00:57     |
| ADPL8                | R1195495-18   | ADPL8   | 06/10/19 01:22     |
| ADPL7                | R1195495-19   | ADPL7   | 06/10/19 01:48     |
| ADPL6                | R1195495-17   | ADPL6   | 06/10/19 02:14     |
| ADPL5                | R1195495-16   | ADPL5   | 06/10/19 02:39     |
| ADPL4                | R1195495-15   | ADPL4   | 06/10/19 03:05     |
| ADPL3                | R1195495-14   | ADPL3   | 06/10/19 03:31     |
| ADPL2                | R1195495-13   | ADPL2   | 06/10/19 03:57     |
| ADPL1                | R1195495-11   | ADPL1   | 06/10/19 04:22     |
| ADP ICV Quant Report | R1195495-32   | ADPICV  | 06/10/19 04:48 ✓   |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : GCMS5                     | Analysis Date  | : 12/24/19 00:15 |
| Tune Standard | : WG1324236-1               | Tune File ID   | : Deg1223n_tune  |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 31                  |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.3 (.7 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 47.1                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 24.7                |
| 365 | Greater than 1.0% of mass 198          | 2.5                 |
| 441 | Present, but less than 24% of mass 442 | 16                  |
| 442 | Base Peak, or >50% of mass 198         | 83.5                |
| 443 | 15.0 - 24.0% of mass 442               | 16 (19.1)2          |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID       | Lab Sample ID | File ID  | Analysis Date/Time |
|------------------------|---------------|----------|--------------------|
| WG1324236-3CCAL        | WG1324236-3   | ABN1223N | 12/24/19 00:38     |
| WG1324236-4CCAL        | WG1324236-4   | AP91223N | 12/24/19 01:01     |
| WG1324236-5CCAL        | WG1324236-5   | ADP1223N | 12/24/19 01:23     |
| TANK-EAST-122019 (10') | L1961284-01   | 61284-01 | 12/24/19 02:09     |
| TANK-BOT-122019 (11')  | L1961284-02   | 61284-02 | 12/24/19 02:54     |
| WG1323715-4MS          | WG1323715-4   | 323715-4 | 12/24/19 06:42     |
| WG1323715-5MSD         | WG1323715-5   | 323715-5 | 12/24/19 07:04     |
| TANK-NORTH-122019 (8') | L1961284-05   | 61284-05 | 12/24/19 07:27     |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : BUFFY                     | Analysis Date  | : 10/06/19 17:36 |
| Tune Standard | : R1239473-34               | Tune File ID   | : Tune1_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 36.7                |
| 68  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 70  | Less than 2.0% of mass 69              | 0.3 (.7 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 54                  |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 25.2                |
| 365 | Greater than 1.0% of mass 198          | 3                   |
| 441 | Present, but less than 24% of mass 442 | 17.4                |
| 442 | Base Peak, or >50% of mass 198         | 75.4                |
| 443 | 15.0 - 24.0% of mass 442               | 14.5 (19.2)2        |

1-Value is % of mass 69    2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ABNL10               | R1239473-3    | ABNL10  | 10/06/19 18:00     |
| ABNL9                | R1239473-10   | ABNL9   | 10/06/19 18:23     |
| ABNL8                | R1239473-9    | ABNL8   | 10/06/19 18:46     |
| ABNL7                | R1239473-8    | ABNL7   | 10/06/19 19:09     |
| ABNL6                | R1239473-6    | ABNL6   | 10/06/19 19:32     |
| ABNL5                | R1239473-7    | ABNL5   | 10/06/19 19:55     |
| ABNL4                | R1239473-4    | ABNL4   | 10/06/19 20:18     |
| ABNL3                | R1239473-5    | ABNL3   | 10/06/19 20:42     |
| ABNL2                | R1239473-2    | ABNL2   | 10/06/19 21:05     |
| ABNL1                | R1239473-1    | ABNL1   | 10/06/19 21:28     |
| AP9L10               | R1239473-21   | AP9L10  | 10/06/19 21:51     |
| AP9L9                | R1239473-29   | AP9L9   | 10/06/19 22:14     |
| AP9L8                | R1239473-28   | AP9L8   | 10/06/19 22:37     |
| AP9L7                | R1239473-30   | AP9L7   | 10/06/19 23:00     |
| AP9L6                | R1239473-25   | AP9L6   | 10/06/19 23:23     |
| AP9L5                | R1239473-27   | AP9L5   | 10/06/19 23:46     |
| AP9L4                | R1239473-26   | AP9L4   | 10/07/19 00:09     |
| AP9L3                | R1239473-24   | AP9L3   | 10/07/19 00:32     |
| AP9L2                | R1239473-23   | AP9L2   | 10/07/19 00:55     |
| AP9L1                | R1239473-22   | AP9L1   | 10/07/19 01:18     |
| ABN ICV Quant Report | R1239473-31   | ABNICV  | 10/07/19 01:41     |
| AP9 ICV Summary Form | R1239473-33   | AP9ICV  | 10/07/19 02:05     |





**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : BUFFY                     | Analysis Date  | : 10/07/19 07:39 |
| Tune Standard | : R1239473-35               | Tune File ID   | : Tune2_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 38.1 ✓              |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.2 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 53.7                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.6                 |
| 275 | 10.0 - 60.0% of Base Peak              | 27                  |
| 365 | Greater than 1.0% of mass 198          | 3.1                 |
| 441 | Present, but less than 24% of mass 442 | 17.3                |
| 442 | Base Peak, or >50% of mass 198         | 75                  |
| 443 | 15.0 - 24.0% of mass 442               | 14.4 (19.1)2        |

1-Value is % of mass 69    2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ADPL10               | R1239473-13   | ADPL10  | 10/07/19 08:02     |
| ADPL9                | R1239473-19   | ADPL9   | 10/07/19 08:25     |
| ADPL8                | R1239473-17   | ADPL8   | 10/07/19 08:48     |
| ADPL7                | R1239473-18   | ADPL7   | 10/07/19 09:11     |
| ADPL6                | R1239473-20   | ADPL6   | 10/07/19 09:35     |
| ADPL5                | R1239473-14   | ADPL5   | 10/07/19 09:58     |
| ADPL4                | R1239473-15   | ADPL4   | 10/07/19 10:21     |
| ADPL3                | R1239473-12   | ADPL3   | 10/07/19 10:44     |
| ADPL2                | R1239473-16   | ADPL2   | 10/07/19 11:07     |
| ADPL1                | R1239473-11   | ADPL1   | 10/07/19 11:31     |
| ADP ICV Quant Report | R1239473-32   | ADPICV  | 10/07/19 11:54 ✓   |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : BUFFY                     | Analysis Date  | : 12/23/19 22:45 |
| Tune Standard | : WG1324233-1               | Tune File ID   | : Deg1223n_tune  |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |   |
|-----|----------------------------------------|---------------------|---|
| 51  | 10.0 - 80.0% of Base Peak              | 46.5                | ✓ |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |   |
| 70  | Less than 2.0% of mass 69              | 0.3 (.6 )1          |   |
| 127 | 10.0 - 80.0% of Base Peak              | 55.4                |   |
| 197 | Less than 2.0% of mass 198             | 0                   |   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |   |
| 199 | 5.0 - 9.0% of mass 198                 | 7                   |   |
| 275 | 10.0 - 60.0% of Base Peak              | 25.8                |   |
| 365 | Greater than 1.0% of mass 198          | 2.8                 |   |
| 441 | Present, but less than 24% of mass 442 | 18.8                |   |
| 442 | Base Peak, or >50% of mass 198         | 99.4                |   |
| 443 | 15.0 - 24.0% of mass 442               | 18.6 (18.7)2        |   |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID | Lab Sample ID | File ID  | Analysis Date/Time |
|------------------|---------------|----------|--------------------|
| WG1324233-3CCAL  | WG1324233-3   | ABN1223N | 12/23/19 23:08     |
| WG1324233-4CCAL  | WG1324233-4   | AP91223N | 12/23/19 23:31     |
| WG1324233-5CCAL  | WG1324233-5   | ADP1223N | 12/23/19 23:54     |
| WG1323715-1BLANK | WG1323715-1   | 323715-1 | 12/24/19 00:41     |
| WG1323715-2LCS   | WG1323715-2   | 323715-2 | 12/24/19 01:04     |
| WG1323715-3LCSD  | WG1323715-3   | 323715-3 | 12/24/19 01:27 ✓   |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/01/19 11:07 |
| Tune Standard | : R1261247-34               | Tune File ID   | : Tune1_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 48.3                |
| 68  | Less than 2.0% of mass 69              | 0.6 (1.6 )1         |
| 70  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 49.1                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 23.1                |
| 365 | Greater than 1.0% of mass 198          | 2.8                 |
| 441 | Present, but less than 24% of mass 442 | 16.7                |
| 442 | Base Peak, or >50% of mass 198         | 81.8                |
| 443 | 15.0 - 24.0% of mass 442               | 15.4 (18.9)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ABNL10               | R1261247-3    | ABNL10  | 12/01/19 11:31     |
| ABNL9                | R1261247-9    | ABNL9   | 12/01/19 11:55     |
| ABNL8                | R1261247-11   | ABNL8   | 12/01/19 12:19     |
| ABNL7                | R1261247-8    | ABNL7   | 12/01/19 12:43     |
| ABNL6                | R1261247-6    | ABNL6   | 12/01/19 13:07     |
| ABNL5                | R1261247-7    | ABNL5   | 12/01/19 13:31     |
| ABNL4                | R1261247-5    | ABNL4   | 12/01/19 13:56     |
| ABNL3                | R1261247-2    | ABNL3   | 12/01/19 14:20     |
| ABNL2                | R1261247-4    | ABNL2   | 12/01/19 14:44     |
| ABNL1                | R1261247-1    | ABNL1   | 12/01/19 15:08     |
| AP9L10               | R1261247-22   | AP9L10  | 12/01/19 15:32     |
| AP9L9                | R1261247-30   | AP9L9   | 12/01/19 15:57     |
| AP9L8                | R1261247-26   | AP9L8   | 12/01/19 16:21     |
| AP9L7                | R1261247-28   | AP9L7   | 12/01/19 16:45     |
| AP9L6                | R1261247-29   | AP9L6   | 12/01/19 17:09     |
| AP9L5                | R1261247-25   | AP9L5   | 12/01/19 17:33     |
| AP9L4                | R1261247-27   | AP9L4   | 12/01/19 17:57     |
| AP9L3                | R1261247-20   | AP9L3   | 12/01/19 18:22     |
| AP9L2                | R1261247-23   | AP9L2   | 12/01/19 18:46     |
| AP9L1                | R1261247-24   | AP9L1   | 12/01/19 19:10     |
| ABN ICV Quant Report | R1261247-31   | ABNICV  | 12/01/19 19:34     |
| AP9 ICV Quant Report | R1261247-33   | AP9ICV  | 12/01/19 19:58     |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/01/19 20:22 |
| Tune Standard | : R1261247-35               | Tune File ID   | : Tune2_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 47.7                |
| 68  | Less than 2.0% of mass 69              | 0.6 (1.5 )1         |
| 70  | Less than 2.0% of mass 69              | 0.2 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 50.3                |
| 197 | Less than 2.0% of mass 198             | 0.3                 |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.8                 |
| 275 | 10.0 - 60.0% of Base Peak              | 23.4                |
| 365 | Greater than 1.0% of mass 198          | 2.7                 |
| 441 | Present, but less than 24% of mass 442 | 16.3                |
| 442 | Base Peak, or >50% of mass 198         | 79.5                |
| 443 | 15.0 - 24.0% of mass 442               | 16.4 (20.7)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ADPL10               | R1261247-13   | ADPL10  | 12/01/19 20:47     |
| ADPL9                | R1261247-21   | ADPL9   | 12/01/19 21:11     |
| ADPL8                | R1261247-17   | ADPL8   | 12/01/19 21:35     |
| ADPL7                | R1261247-19   | ADPL7   | 12/01/19 21:59     |
| ADPL6                | R1261247-16   | ADPL6   | 12/01/19 22:23     |
| ADPL5                | R1261247-15   | ADPL5   | 12/01/19 22:48     |
| ADPL4                | R1261247-18   | ADPL4   | 12/01/19 23:12     |
| ADPL3                | R1261247-14   | ADPL3   | 12/01/19 23:36     |
| ADPL2                | R1261247-12   | ADPL2   | 12/02/19 00:00     |
| ADPL1                | R1261247-10   | ADPL1   | 12/02/19 00:25     |
| ADP ICV Quant Report | R1261247-32   | ADPICV  | 12/02/19 00:49     |



**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/26/19 09:23 |
| Tune Standard | : WG1324867-1               | Tune File ID   | : Deg1226_tune   |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 52                  |
| 68  | Less than 2.0% of mass 69              | 0.6 (1.3 )1         |
| 70  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 55.3                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.9                 |
| 275 | 10.0 - 60.0% of Base Peak              | 22.9                |
| 365 | Greater than 1.0% of mass 198          | 2.2                 |
| 441 | Present, but less than 24% of mass 442 | 18.4                |
| 442 | Base Peak, or >50% of mass 198         | 81.2                |
| 443 | 15.0 - 24.0% of mass 442               | 15.7 (19.3)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID       | Lab Sample ID | File ID  | Analysis Date/Time |
|------------------------|---------------|----------|--------------------|
| WG1324867-3CCAL        | WG1324867-3   | ABN1226  | 12/26/19 09:52     |
| WG1324867-4CCAL        | WG1324867-4   | AP91226  | 12/26/19 10:17     |
| WG1324867-5CCAL        | WG1324867-5   | ADP1226  | 12/26/19 10:41     |
| TANK-WEST-122019 (8')  | L1961284-03D  | 61284-03 | 12/26/19 17:59     |
| TANK-SOUTH-122019 (8') | L1961284-04D  | 61284-04 | 12/26/19 18:23     |
| DUP-01-122019          | L1961284-06D  | 61284-06 | 12/26/19 18:48 ✓   |



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Sample No : WG1324233-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/23/19 23:08  
 Lab File ID : ABN1223N

|                   | 1,4-Dichlorobenzene-d4 |        | Naphthalene-d8 |        | Acenaphthene-d10 |        |
|-------------------|------------------------|--------|----------------|--------|------------------|--------|
|                   | Area                   | RT     | Area           | RT     | Area             | RT     |
| WG1324233-3       | 159664                 | 3.99   | 632580         | 5.06   | 336073           | 6.56   |
| Upper Limit       | 319328                 | 4.49   | 1265160        | 5.56   | 672146           | 7.06   |
| Lower Limit       | 79832                  | 3.49   | 316290         | 4.56   | 168037           | 6.06   |
| Sample ID         |                        |        |                |        |                  |        |
| WG1324233-4 CCAL  | 177213                 | ✓ 3.99 | 704834         | ✓ 5.06 | 375542           | ✓ 6.56 |
| WG1324233-5 CCAL  | 166995                 | 3.98   | -              | -      | 358199           | 6.56   |
| WG1323715-1 BLANK | 117263                 | 3.98   | 462179         | 5.06   | 240778           | 6.56   |
| WG1323715-2 LCS   | 121147                 | 3.99   | 497558         | 5.06   | 266407           | 6.56   |
| WG1323715-3 LCSD  | 115236                 | 3.99   | 468342         | 5.06   | 252898           | 6.56   |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Sample No : WG1324233-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/23/19 23:08  
 Lab File ID : ABN1223N

|                   | Phenanthrene-d10 |        | Chrysene-d12 |       | Perylene-d12 |         |
|-------------------|------------------|--------|--------------|-------|--------------|---------|
|                   | Area             | RT     | Area         | RT    | Area         | RT      |
| WG1324233-3       | 621349           | 7.84   | 640997       | 10.41 | 708691       | 12.49   |
| Upper Limit       | 1242698          | 8.34   | 1281994      | 10.91 | 1417382      | 12.99   |
| Lower Limit       | 310675           | 7.34   | 320499       | 9.91  | 354346       | 11.99   |
| Sample ID         |                  |        |              |       |              |         |
| WG1324233-4 CCAL  | 715781           | 7.84 ✓ | -            | - ✓   | -            | -       |
| WG1324233-5 CCAL  | 703501           | 7.83   | -            | -     | -            | -       |
| WG1323715-1 BLANK | 461068           | 7.83   | 447457       | 10.39 | 515994       | 12.49 ✓ |
| WG1323715-2 LCS   | 502202           | 7.84   | 495888       | 10.40 | 535057       | 12.49   |
| WG1323715-3 LCSD  | 483296           | 7.83   | 494636       | 10.40 | 545616       | 12.49   |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Sample No : WG1324236-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/24/19 00:38  
 Lab File ID : ABN1223N

|                            | 1,4-Dichlorobenzene-d4 |        | Naphthalene-d8 |        | Acenaphthene-d10 |        |
|----------------------------|------------------------|--------|----------------|--------|------------------|--------|
|                            | Area                   | RT     | Area           | RT     | Area             | RT     |
| WG1324236-3                | 230273                 | 3.59   | 837477         | 4.70   | 496701           | 6.14   |
| Upper Limit                | 460546                 | 4.09   | 1674954        | 5.20   | 993402           | 6.64   |
| Lower Limit                | 115137                 | 3.09   | 418739         | 4.20   | 248351           | 5.64   |
| Sample ID                  |                        |        |                |        |                  |        |
| WG1324236-4 CCAL           | 218924                 | 3.59 ✓ | 792530         | 4.69 ✓ | 449723           | 6.14 ✓ |
| WG1324236-5 CCAL           | 228352                 | 3.59   | -              | -      | 468017           | 6.14   |
| TANK-EAST-122019 (10')     | 138543                 | 3.59   | 493004         | 4.69   | 281956           | 6.14   |
| TANK-BOT-122019 (11')      | 125716                 | 3.59   | 473442         | 4.69   | 272254           | 6.14   |
| TANK-NORTH-122019 (8') MS  | 135729                 | 3.59   | 499333         | 4.70   | 291678           | 6.14   |
| TANK-NORTH-122019 (8') MSD | 136866                 | 3.59   | 504857         | 4.70   | 312670           | 6.14   |
| TANK-NORTH-122019 (8')     | 130013                 | 3.59   | 525429         | 4.70   | 332877           | 6.14   |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits





# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Sample No : WG1324236-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/24/19 00:38  
 Lab File ID : ABN1223N

|                            | Phenanthrene-d10 |        | Chrysene-d12 |       | Perylene-d12 |       |
|----------------------------|------------------|--------|--------------|-------|--------------|-------|
|                            | Area             | RT     | Area         | RT    | Area         | RT    |
| WG1324236-3                | 1076593          | 7.33   | 1191633      | 9.67  | 1381786      | 10.90 |
| Upper Limit                | 2153186          | 7.83   | 2383266      | 10.17 | 2763572      | 11.40 |
| Lower Limit                | 538297           | 6.83   | 595817       | 9.17  | 690893       | 10.40 |
| Sample ID                  |                  |        |              |       |              |       |
| WG1324236-4 CCAL           | 942519           | 7.32 ✓ | -            | -     | -            | -     |
| WG1324236-5 CCAL           | 989066           | 7.32   | -            | -     | -            | -     |
| TANK-EAST-122019 (10')     | 583869           | 7.32   | 611086       | 9.66  | 724692       | 10.90 |
| TANK-BOT-122019 (11')      | 587069           | 7.32   | 709120       | 9.66  | 865342       | 10.90 |
| TANK-NORTH-122019 (8') MS  | 619896           | 7.33   | 739820       | 9.66  | 818346       | 10.91 |
| TANK-NORTH-122019 (8') MSD | 700728           | 7.33   | 762402       | 9.67  | 800644       | 10.91 |
| TANK-NORTH-122019 (8')     | 776679           | 7.33   | 960433       | 9.66  | 962108       | 10.90 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Sample No : WG1324867-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/26/19 09:52  
 Lab File ID : ABN1226

|                        | 1,4-Dichlorobenzene-d4 |        | Naphthalene-d8 |        | Acenaphthene-d10 |        |
|------------------------|------------------------|--------|----------------|--------|------------------|--------|
|                        | Area                   | RT     | Area           | RT     | Area             | RT     |
| WG1324867-3            | 124940                 | 4.03   | 510434         | 5.28   | 284683           | 6.97   |
| Upper Limit            | 249880                 | 4.53   | 1020868        | 5.78   | 569366           | 7.47   |
| Lower Limit            | 62470                  | 3.53   | 255217         | 4.78   | 142342           | 6.47   |
| Sample ID              |                        |        |                |        |                  |        |
| WG1324867-4 CCAL       | 107713                 | ✓ 4.03 | 448385         | ✓ 5.28 | 253761           | ✓ 6.97 |
| WG1324867-5 CCAL       | 117782                 | 4.03   | -              | -      | 268914           | 6.97   |
| TANK-WEST-122019 (8')  | 104722                 | 4.03   | 424211         | 5.28   | 244363           | 6.98   |
| TANK-SOUTH-122019 (8') | 110839                 | 4.04   | 457696         | 5.28   | 262859           | 6.98   |
| DUP-01-122019          | 106617                 | 4.04   | 447164         | 5.28   | 257851           | 6.98   |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits





# **APPENDIX I**

## **Laboratory Reports**



[www.alphalab.com](http://www.alphalab.com)



**Alpha Analytical**

**Laboratory Code: 11148**

**SDG Number: L1961284**

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**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b>       | <b>Matrix</b> | <b>Sample<br/>Location</b>    | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------------|---------------|-------------------------------|---------------------------------|---------------------|
| L1961284-01                | TANK-EAST-122019 (10') | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 10:10                  | 12/20/19            |
| L1961284-02                | TANK-BOT-122019 (11')  | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 10:30                  | 12/20/19            |
| L1961284-03                | TANK-WEST-122019 (8')  | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 10:40                  | 12/20/19            |
| L1961284-04                | TANK-SOUTH-122019 (8') | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 11:15                  | 12/20/19            |
| L1961284-05                | TANK-NORTH-122019 (8') | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 11:30                  | 12/20/19            |
| L1961284-06                | DUP-01-122019          | SOIL          | 872 HUDSON AVE, ROCHESTER, NY | 12/20/19 00:00                  | 12/20/19            |

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

### Case Narrative

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

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

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

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

#### HOLD POLICY

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

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

**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Case Narrative (continued)**

**Report Submission**

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

**Volatile Organics**

L1961284-02, -03, -04, and -06: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

The WG1325623-5 Method Blank, associated with L1961284-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG1325768-6 MS recovery, performed on L1961284-05, is outside the acceptance criteria for acetone (0%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

**Semivolatile Organics**

L1961284-03, -04, and -06: The sample has elevated detection limits due to the dilution required by the sample matrix.

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

Authorized Signature:



Report Date: 12/30/19

Title: Technical Director/Representative

## GLOSSARY

### Acronyms

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

### Footnotes

Report Format: DU Report with 'J' Qualifiers



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

## Terms

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

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

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

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

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

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

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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

## Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** FORMER WOLLENSACK OPTICAL  
**Project Number:** 2182207

**Lab Number:** L1961284  
**Report Date:** 12/30/19

**Data Qualifiers**

- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

---







## **Volatile Organics Instruments**

### Volatile Organics:

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

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

### Volatile Organics: VPH

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

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

### Volatile Organics: PIANO

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

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

### Volatile Organics: Dissolved Gas

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

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

Autosampler: LEAP Headspace

Purge time: 0.6 min

## **Volatile Organics in Air Instruments**

### Volatile Organics in Air:

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

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

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

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

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



## Semivolatile Organics Instruments - Westborough

### Semivolatile Organics (Acid/Base/Neutral Extractables):

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

### Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

### Pesticides/PCB/Herbicides:

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

### Petroleum/EPH:

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



## **Semivolatile Organic Instruments - Mansfield**

### Semivolatile Organics (ALK-PAH Extractables):

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

### Semivolatile Organics (8270):

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

### Semivolatile Organics (8270 SIM):

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

### Semivolatile Organics (1,4-Dioxane):

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

### Semivolatile Organics (209 Congener):

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

### Semivolatile Organics (8081):

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

### Semivolatile Organics (8082):

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

### Semivolatile Organics (SHC Extractables):

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



## Sample Delivery Group Summary

Alpha Job Number : L1961284

Received : 20-DEC-2019

Reviewer : Sharon Hoffman

Account Name : LaBella Associates, P.C.

Project Number : 2182207

Project Name : FORMER WOLLENSACK OPTICAL

### Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

### Cooler Information

| Cooler | Seal/Seal# | Preservation | Temperature(°C) | Additional Information |
|--------|------------|--------------|-----------------|------------------------|
| A      | Absent/    | Ice          | 4.5             |                        |

### Condition Information

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

### Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.  
LOGIN CHAIN OF CUSTODY REPORT  
Dec 30 2019, 04:45 pm

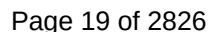
Login Number: L1961284

Account: LABELLA-ROC LaBella Associates, P.C. Project: 2182207

Received: 20DEC19 Due Date: 30DEC19

| Sample #                                                                                                       | Client ID | Mat PR Collected   |
|----------------------------------------------------------------------------------------------------------------|-----------|--------------------|
| L1961284-01 TANK-EAST-122019 (10')                                                                             |           | 3 S0 20DEC19 10:10 |
| report lists built for 8260/8270 8260/8270 need TICS ASP-B Package Due Date: 12/30/19                          |           |                    |
| ASP-B, NYTCL-8260HLW-R2, NYTCL-8270, TS                                                                        |           |                    |
| L1961284-02 TANK-BOT-122019 (11')                                                                              |           | 3 S0 20DEC19 10:30 |
| report lists built for 8260/8270 8260/8270 need TICS Package Due Date: 12/30/19                                |           |                    |
| NYTCL-8260HLW-R2, NYTCL-8270, TS                                                                               |           |                    |
| L1961284-03 TANK-WEST-122019 (8')                                                                              |           | 3 S0 20DEC19 10:40 |
| report lists built for 8260/8270 8260/8270 need TICS Package Due Date: 12/30/19                                |           |                    |
| NYTCL-8260HLW-R2, NYTCL-8270, TS                                                                               |           |                    |
| L1961284-04 TANK-SOUTH-122019 (8')                                                                             |           | 3 S0 20DEC19 11:15 |
| report lists built for 8260/8270 8260/8270 need TICS Package Due Date: 12/30/19                                |           |                    |
| NYTCL-8260HLW-R2, NYTCL-8270, TS                                                                               |           |                    |
| L1961284-05 TANK-NORTH-122019 (8')                                                                             |           | 3 S0 20DEC19 11:30 |
| report lists built for 8260/8270 L1961284-05 MS L1961284-05 MSD 8260/8270 need TICS Package Due Date: 12/30/19 |           |                    |
| MS/MSD, NYTCL-8260HLW-R2, NYTCL-8270, TS                                                                       |           |                    |
| L1961284-06 DUP-01-122019                                                                                      |           | 3 S0 20DEC19 00:00 |
| report lists built for 8260/8270 8260/8270 need TICS Package Due Date: 12/30/19                                |           |                    |
| NYTCL-8260HLW-R2, NYTCL-8270, TS                                                                               |           |                    |





# Organics

# **GC/MS 8260**

## **Analysis**



## **Volatiles QC Summary**

# Surrogate Recovery Summary

## Form 2

### Volatiles

Client: LaBella Associates, P.C.  
Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1961284  
Project Number: 2182207  
Matrix: Soil

| CLIENT ID<br>(LAB SAMPLE NO.)         | SMC1<br>DCA | SMC2<br>TOL | SMC3<br>BFB | SMC4<br>DBFM | TOT<br>OUT |
|---------------------------------------|-------------|-------------|-------------|--------------|------------|
| TANK-EAST-122019 (10') (L1961284-01)  | 96          | 99          | 98          | 102          | 0          |
| TANK-BOT-122019 (11') (L1961284-02D)  | 122         | 99          | 90          | 104          | 0          |
| TANK-WEST-122019 (8') (L1961284-03D)  | 102         | 94          | 99          | 97           | 0          |
| TANK-SOUTH-122019 (8') (L1961284-04D) | 89          | 90          | 96          | 97           | 0          |
| TANK-NORTH-122019 (8') (L1961284-05)  | 91          | 93          | 98          | 97           | 0          |
| DUP-01-122019 (L1961284-06D)          | 92          | 94          | 104         | 94           | 0          |
| WG1325623-3LCS                        | 95          | 98          | 96          | 102          | 0          |
| WG1325623-4LCSD                       | 95          | 96          | 96          | 103          | 0          |
| WG1325623-5BLANK                      | 98          | 97          | 102         | 103          | 0          |
| WG1325768-3LCS                        | 96          | 99          | 100         | 104          | 0          |
| WG1325768-4LCSD                       | 95          | 96          | 111         | 99           | 0          |
| WG1325768-5BLANK                      | 95          | 100         | 93          | 95           | 0          |
| TANK-NORTH-122019 (8')MS              | 93          | 94          | 99          | 85           | 0          |
| TANK-NORTH-122019 (8')MSD             | 100         | 93          | 102         | 105          | 0          |
| WG1325770-3LCS                        | 96          | 99          | 100         | 104          | 0          |
| WG1325770-4LCSD                       | 95          | 96          | 110         | 100          | 0          |
| WG1325770-5BLANK                      | 95          | 100         | 93          | 95           | 0          |
| WG1325794-3LCS                        | 87          | 93          | 101         | 98           | 0          |
| WG1325794-4LCSD                       | 88          | 93          | 102         | 99           | 0          |
| WG1325794-5BLANK                      | 89          | 90          | 100         | 96           | 0          |

#### QC LIMITS

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

\* Values outside of QC limits

FORM II NYTCL-8260HLW-R2



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325623-3      Analysis Date : 12/28/19 07:27      File ID : VC191228A01  
 LCSD Sample ID : WG1325623-4      Analysis Date : 12/28/19 07:54      File ID : VC191228A02

| Parameter                 | Laboratory Control Sample |               |       | Laboratory Control Duplicate |               |       | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|-------|------------------------------|---------------|-------|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R    | True (ug/kg)                 | Found (ug/kg) | %R    |     |                 |           |
| Methylene chloride        | 40                        | 39            | 97    | 40                           | 38            | 96    | 1   | 70-130          | 30        |
| 1,1-Dichloroethane        | 40                        | 39            | 98    | 40                           | 38            | 96    | 2   | 70-130          | 30        |
| Chloroform                | 40                        | 40            | 100   | 40                           | 39            | 98    | 2   | 70-130          | 30        |
| Carbon tetrachloride      | 40                        | 41            | 104   | 40                           | 41            | 102   | 2   | 70-130          | 30        |
| 1,2-Dichloropropane       | 40                        | 39            | 97    | 40                           | 38            | 95    | 2   | 70-130          | 30        |
| Dibromochloromethane      | 40                        | 40            | 100   | 40                           | 39            | 97    | 3   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 40                        | 40            | 99    | 40                           | 38            | 95    | 4   | 70-130          | 30        |
| Tetrachloroethene         | 40                        | 38            | 94    | 40                           | 37            | 91    | 3   | 70-130          | 30        |
| Chlorobenzene             | 40                        | 37            | 93    | 40                           | 36            | 90    | 3   | 70-130          | 30        |
| Trichlorofluoromethane    | 40                        | 78            | 196 Q | 40                           | 75            | 187 Q | 5   | 70-139          | 30        |
| 1,2-Dichloroethane        | 40                        | 38            | 96    | 40                           | 38            | 94    | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 40                        | 41            | 102   | 40                           | 40            | 100   | 2   | 70-130          | 30        |
| Bromodichloromethane      | 40                        | 41            | 104   | 40                           | 41            | 102   | 2   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 40                        | 37            | 92    | 40                           | 36            | 89    | 3   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 40                        | 39            | 96    | 40                           | 38            | 94    | 2   | 70-130          | 30        |
| Bromoform                 | 40                        | 39            | 97    | 40                           | 39            | 97    | 0   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 40                        | 38            | 94    | 40                           | 37            | 91    | 3   | 70-130          | 30        |
| Benzene                   | 40                        | 40            | 99    | 40                           | 39            | 97    | 2   | 70-130          | 30        |
| Toluene                   | 40                        | 38            | 94    | 40                           | 36            | 90    | 4   | 70-130          | 30        |
| Ethylbenzene              | 40                        | 38            | 96    | 40                           | 37            | 92    | 4   | 70-130          | 30        |
| Chloromethane             | 40                        | 37            | 93    | 40                           | 36            | 91    | 2   | 52-130          | 30        |
| Bromomethane              | 40                        | 73            | 182 Q | 40                           | 70            | 174 Q | 4   | 57-147          | 30        |
| Vinyl chloride            | 40                        | 55            | 138 Q | 40                           | 52            | 129   | 7   | 67-130          | 30        |
| Chloroethane              | 40                        | 79            | 198 Q | 40                           | 76            | 190 Q | 4   | 50-151          | 30        |
| 1,1-Dichloroethene        | 40                        | 56            | 140 Q | 40                           | 42            | 106   | 28  | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 40                        | 41            | 103   | 40                           | 41            | 102   | 1   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325623-3      Analysis Date : 12/28/19 07:27      File ID : VC191228A01  
 LCSD Sample ID : WG1325623-4      Analysis Date : 12/28/19 07:54      File ID : VC191228A02

| Parameter                   | Laboratory Control Sample |               |       | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-------|------------------------------|---------------|-----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R    | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Trichloroethene             | 40                        | 41            | 103   | 40                           | 40            | 100 | 3   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 40                        | 37            | 94    | 40                           | 37            | 92  | 2   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 40                        | 38            | 94    | 40                           | 37            | 92  | 2   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 40                        | 37            | 92    | 40                           | 36            | 90  | 2   | 70-130          | 30        |
| Methyl tert butyl ether     | 40                        | 40            | 99    | 40                           | 39            | 98  | 1   | 66-130          | 30        |
| p/m-Xylene                  | 80                        | 78            | 98    | 80                           | 76            | 94  | 4   | 70-130          | 30        |
| o-Xylene                    | 80                        | 80            | 100   | 80                           | 77            | 97  | 3   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 40                        | 40            | 101   | 40                           | 40            | 101 | 0   | 70-130          | 30        |
| Styrene                     | 80                        | 82            | 102   | 80                           | 79            | 99  | 3   | 70-130          | 30        |
| Dichlorodifluoromethane     | 40                        | 55            | 138   | 40                           | 53            | 134 | 3   | 30-146          | 30        |
| Acetone                     | 40                        | 38            | 95    | 40                           | 34            | 85  | 11  | 54-140          | 30        |
| Carbon disulfide            | 40                        | 54            | 136 Q | 40                           | 42            | 105 | 26  | 59-130          | 30        |
| 2-Butanone                  | 40                        | 34            | 85    | 40                           | 30            | 76  | 11  | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 40                        | 34            | 85    | 40                           | 32            | 79  | 7   | 70-130          | 30        |
| 2-Hexanone                  | 40                        | 32            | 81    | 40                           | 30            | 75  | 8   | 70-130          | 30        |
| 1,2-Dibromoethane           | 40                        | 39            | 97    | 40                           | 38            | 94  | 3   | 70-130          | 30        |
| n-Butylbenzene              | 40                        | 40            | 99    | 40                           | 38            | 96  | 3   | 70-130          | 30        |
| sec-Butylbenzene            | 40                        | 38            | 96    | 40                           | 38            | 94  | 2   | 70-130          | 30        |
| tert-Butylbenzene           | 40                        | 38            | 95    | 40                           | 37            | 92  | 3   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 40                        | 35            | 87    | 40                           | 33            | 83  | 5   | 68-130          | 30        |
| Isopropylbenzene            | 40                        | 38            | 96    | 40                           | 38            | 94  | 2   | 70-130          | 30        |
| p-Isopropyltoluene          | 40                        | 38            | 96    | 40                           | 38            | 94  | 2   | 70-130          | 30        |
| Naphthalene                 | 40                        | 36            | 89    | 40                           | 35            | 88  | 1   | 70-130          | 30        |
| n-Propylbenzene             | 40                        | 39            | 97    | 40                           | 38            | 94  | 3   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 40                        | 37            | 91    | 40                           | 36            | 89  | 2   | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 40                        | 38            | 96    | 40                           | 37            | 93  | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325623-3      Analysis Date : 12/28/19 07:27      File ID : VC191228A01  
 LCSD Sample ID : WG1325623-4      Analysis Date : 12/28/19 07:54      File ID : VC191228A02

| Parameter              | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| 1,2,4-Trimethylbenzene | 40                        | 38            | 96  | 40                           | 37            | 94  | 2   | 70-130          | 30        |
| Methyl Acetate         | 40                        | 35            | 87  | 40                           | 34            | 85  | 2   | 51-146          | 30        |
| Cyclohexane            | 40                        | 40            | 99  | 40                           | 39            | 97  | 2   | 59-142          | 30        |
| Freon-113              | 40                        | 55            | 137 | 40                           | 45            | 112 | 20  | 50-139          | 30        |
| Methyl cyclohexane     | 40                        | 42            | 104 | 40                           | 40            | 101 | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325768-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325768-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter                 | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Methylene chloride        | 40                        | 37            | 91  | 40                           | 36            | 90  | 1   | 70-130          | 30        |
| 1,1-Dichloroethane        | 40                        | 42            | 104 | 40                           | 40            | 100 | 4   | 70-130          | 30        |
| Chloroform                | 40                        | 43            | 107 | 40                           | 40            | 100 | 7   | 70-130          | 30        |
| Carbon tetrachloride      | 40                        | 46            | 115 | 40                           | 43            | 107 | 7   | 70-130          | 30        |
| 1,2-Dichloropropane       | 40                        | 43            | 108 | 40                           | 42            | 105 | 3   | 70-130          | 30        |
| Dibromochloromethane      | 40                        | 41            | 101 | 40                           | 38            | 96  | 5   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 40                        | 39            | 98  | 40                           | 37            | 92  | 6   | 70-130          | 30        |
| Tetrachloroethene         | 40                        | 44            | 109 | 40                           | 41            | 103 | 6   | 70-130          | 30        |
| Chlorobenzene             | 40                        | 39            | 98  | 40                           | 39            | 97  | 1   | 70-130          | 30        |
| Trichlorofluoromethane    | 40                        | 37            | 93  | 40                           | 38            | 96  | 3   | 70-139          | 30        |
| 1,2-Dichloroethane        | 40                        | 40            | 99  | 40                           | 39            | 97  | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 40                        | 44            | 111 | 40                           | 42            | 104 | 7   | 70-130          | 30        |
| Bromodichloromethane      | 40                        | 42            | 106 | 40                           | 41            | 104 | 2   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 40                        | 42            | 104 | 40                           | 40            | 99  | 5   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 40                        | 46            | 114 | 40                           | 45            | 113 | 1   | 70-130          | 30        |
| Bromoform                 | 40                        | 39            | 96  | 40                           | 41            | 103 | 7   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 40                        | 35            | 88  | 40                           | 37            | 92  | 4   | 70-130          | 30        |
| Benzene                   | 40                        | 42            | 106 | 40                           | 40            | 101 | 5   | 70-130          | 30        |
| Toluene                   | 40                        | 41            | 103 | 40                           | 39            | 97  | 6   | 70-130          | 30        |
| Ethylbenzene              | 40                        | 43            | 107 | 40                           | 41            | 103 | 4   | 70-130          | 30        |
| Chloromethane             | 40                        | 33            | 83  | 40                           | 35            | 88  | 6   | 52-130          | 30        |
| Bromomethane              | 40                        | 48            | 119 | 40                           | 45            | 114 | 4   | 57-147          | 30        |
| Vinyl chloride            | 40                        | 40            | 101 | 40                           | 40            | 100 | 1   | 67-130          | 30        |
| Chloroethane              | 40                        | 46            | 115 | 40                           | 43            | 108 | 6   | 50-151          | 30        |
| 1,1-Dichloroethene        | 40                        | 41            | 103 | 40                           | 39            | 98  | 5   | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 40                        | 42            | 106 | 40                           | 41            | 103 | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325768-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325768-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter                   | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Trichloroethene             | 40                        | 45            | 112 | 40                           | 43            | 107 | 5   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 40                        | 39            | 97  | 40                           | 41            | 102 | 5   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 40                        | 39            | 98  | 40                           | 41            | 103 | 5   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 40                        | 38            | 96  | 40                           | 38            | 96  | 0   | 70-130          | 30        |
| Methyl tert butyl ether     | 40                        | 42            | 104 | 40                           | 41            | 102 | 2   | 66-130          | 30        |
| p/m-Xylene                  | 80                        | 91            | 113 | 80                           | 87            | 108 | 5   | 70-130          | 30        |
| o-Xylene                    | 80                        | 92            | 114 | 80                           | 87            | 108 | 5   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 40                        | 45            | 112 | 40                           | 42            | 105 | 6   | 70-130          | 30        |
| Styrene                     | 80                        | 93            | 116 | 80                           | 87            | 109 | 6   | 70-130          | 30        |
| Dichlorodifluoromethane     | 40                        | 35            | 87  | 40                           | 37            | 93  | 7   | 30-146          | 30        |
| Acetone                     | 40                        | 37            | 93  | 40                           | 34            | 85  | 9   | 54-140          | 30        |
| Carbon disulfide            | 40                        | 35            | 87  | 40                           | 34            | 85  | 2   | 59-130          | 30        |
| 2-Butanone                  | 40                        | 44            | 111 | 40                           | 39            | 98  | 12  | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 40                        | 41            | 104 | 40                           | 39            | 96  | 8   | 70-130          | 30        |
| 2-Hexanone                  | 40                        | 39            | 98  | 40                           | 38            | 95  | 3   | 70-130          | 30        |
| 1,2-Dibromoethane           | 40                        | 39            | 98  | 40                           | 38            | 95  | 3   | 70-130          | 30        |
| n-Butylbenzene              | 40                        | 42            | 106 | 40                           | 45            | 113 | 6   | 70-130          | 30        |
| sec-Butylbenzene            | 40                        | 43            | 107 | 40                           | 45            | 113 | 5   | 70-130          | 30        |
| tert-Butylbenzene           | 40                        | 43            | 107 | 40                           | 45            | 113 | 5   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 40                        | 38            | 95  | 40                           | 41            | 102 | 7   | 68-130          | 30        |
| Isopropylbenzene            | 40                        | 43            | 107 | 40                           | 46            | 116 | 8   | 70-130          | 30        |
| p-Isopropyltoluene          | 40                        | 45            | 111 | 40                           | 45            | 113 | 2   | 70-130          | 30        |
| Naphthalene                 | 40                        | 43            | 107 | 40                           | 47            | 117 | 9   | 70-130          | 30        |
| n-Propylbenzene             | 40                        | 42            | 104 | 40                           | 43            | 106 | 2   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 40                        | 42            | 104 | 40                           | 46            | 116 | 11  | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 40                        | 42            | 105 | 40                           | 44            | 111 | 6   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325768-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325768-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter              | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| 1,2,4-Trimethylbenzene | 40                        | 43            | 107 | 40                           | 46            | 114 | 6   | 70-130          | 30        |
| Methyl Acetate         | 40                        | 37            | 93  | 40                           | 37            | 92  | 1   | 51-146          | 30        |
| Cyclohexane            | 40                        | 49            | 123 | 40                           | 45            | 112 | 9   | 59-142          | 30        |
| Freon-113              | 40                        | 42            | 104 | 40                           | 41            | 102 | 2   | 50-139          | 30        |
| Methyl cyclohexane     | 40                        | 48            | 120 | 40                           | 46            | 114 | 5   | 70-130          | 30        |





# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325770-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325770-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter                 | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Methylene chloride        | 2000                      | 1800          | 91  | 2000                         | 1800          | 90  | 1   | 70-130          | 30        |
| 1,1-Dichloroethane        | 2000                      | 2100          | 104 | 2000                         | 2000          | 100 | 4   | 70-130          | 30        |
| Chloroform                | 2000                      | 2100          | 107 | 2000                         | 2000          | 100 | 7   | 70-130          | 30        |
| Carbon tetrachloride      | 2000                      | 2300          | 115 | 2000                         | 2100          | 107 | 7   | 70-130          | 30        |
| 1,2-Dichloropropane       | 2000                      | 2200          | 108 | 2000                         | 2100          | 105 | 3   | 70-130          | 30        |
| Dibromochloromethane      | 2000                      | 2000          | 101 | 2000                         | 1900          | 96  | 5   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 2000                      | 2000          | 98  | 2000                         | 1900          | 92  | 6   | 70-130          | 30        |
| Tetrachloroethene         | 2000                      | 2200          | 109 | 2000                         | 2100          | 103 | 6   | 70-130          | 30        |
| Chlorobenzene             | 2000                      | 2000          | 98  | 2000                         | 1900          | 97  | 1   | 70-130          | 30        |
| Trichlorofluoromethane    | 2000                      | 1900          | 93  | 2000                         | 1900          | 96  | 3   | 70-139          | 30        |
| 1,2-Dichloroethane        | 2000                      | 2000          | 99  | 2000                         | 1900          | 97  | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 2000                      | 2200          | 111 | 2000                         | 2100          | 104 | 7   | 70-130          | 30        |
| Bromodichloromethane      | 2000                      | 2100          | 106 | 2000                         | 2100          | 104 | 2   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 2000                      | 2100          | 104 | 2000                         | 2000          | 99  | 5   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 2000                      | 2300          | 114 | 2000                         | 2300          | 113 | 1   | 70-130          | 30        |
| Bromoform                 | 2000                      | 1900          | 96  | 2000                         | 2100          | 103 | 7   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 2000                      | 1800          | 88  | 2000                         | 1900          | 92  | 4   | 70-130          | 30        |
| Benzene                   | 2000                      | 2100          | 106 | 2000                         | 2000          | 101 | 5   | 70-130          | 30        |
| Toluene                   | 2000                      | 2100          | 103 | 2000                         | 2000          | 97  | 6   | 70-130          | 30        |
| Ethylbenzene              | 2000                      | 2200          | 107 | 2000                         | 2100          | 103 | 4   | 70-130          | 30        |
| Chloromethane             | 2000                      | 1700          | 83  | 2000                         | 1800          | 88  | 6   | 52-130          | 30        |
| Bromomethane              | 2000                      | 2400          | 119 | 2000                         | 2300          | 114 | 4   | 57-147          | 30        |
| Vinyl chloride            | 2000                      | 2000          | 101 | 2000                         | 2000          | 100 | 1   | 67-130          | 30        |
| Chloroethane              | 2000                      | 2300          | 115 | 2000                         | 2200          | 108 | 6   | 50-151          | 30        |
| 1,1-Dichloroethene        | 2000                      | 2100          | 103 | 2000                         | 2000          | 98  | 5   | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 2000                      | 2100          | 106 | 2000                         | 2100          | 103 | 3   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325770-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325770-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter                   | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| Trichloroethene             | 2000                      | 2200          | 112 | 2000                         | 2100          | 107 | 5   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 2000                      | 1900          | 97  | 2000                         | 2000          | 102 | 5   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 2000                      | 2000          | 98  | 2000                         | 2100          | 103 | 5   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 2000                      | 1900          | 96  | 2000                         | 1900          | 96  | 0   | 70-130          | 30        |
| Methyl tert butyl ether     | 2000                      | 2100          | 104 | 2000                         | 2000          | 102 | 2   | 66-130          | 30        |
| p/m-Xylene                  | 4000                      | 4500          | 113 | 4000                         | 4300          | 108 | 5   | 70-130          | 30        |
| o-Xylene                    | 4000                      | 4600          | 114 | 4000                         | 4300          | 108 | 5   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 2000                      | 2300          | 112 | 2000                         | 2100          | 105 | 6   | 70-130          | 30        |
| Styrene                     | 4000                      | 4600          | 116 | 4000                         | 4400          | 109 | 6   | 70-130          | 30        |
| Dichlorodifluoromethane     | 2000                      | 1700          | 87  | 2000                         | 1900          | 93  | 7   | 30-146          | 30        |
| Acetone                     | 2000                      | 1900          | 93  | 2000                         | 1700          | 85  | 9   | 54-140          | 30        |
| Carbon disulfide            | 2000                      | 1700          | 87  | 2000                         | 1700          | 85  | 2   | 59-130          | 30        |
| 2-Butanone                  | 2000                      | 2200          | 111 | 2000                         | 2000          | 98  | 12  | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 2000                      | 2100          | 104 | 2000                         | 1900          | 96  | 8   | 70-130          | 30        |
| 2-Hexanone                  | 2000                      | 2000          | 98  | 2000                         | 1900          | 95  | 3   | 70-130          | 30        |
| 1,2-Dibromoethane           | 2000                      | 2000          | 98  | 2000                         | 1900          | 95  | 3   | 70-130          | 30        |
| n-Butylbenzene              | 2000                      | 2100          | 106 | 2000                         | 2300          | 113 | 6   | 70-130          | 30        |
| sec-Butylbenzene            | 2000                      | 2100          | 107 | 2000                         | 2300          | 113 | 5   | 70-130          | 30        |
| tert-Butylbenzene           | 2000                      | 2100          | 107 | 2000                         | 2300          | 113 | 5   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 2000                      | 1900          | 95  | 2000                         | 2000          | 102 | 7   | 68-130          | 30        |
| Isopropylbenzene            | 2000                      | 2200          | 107 | 2000                         | 2300          | 116 | 8   | 70-130          | 30        |
| p-Isopropyltoluene          | 2000                      | 2200          | 111 | 2000                         | 2300          | 113 | 2   | 70-130          | 30        |
| Naphthalene                 | 2000                      | 2100          | 107 | 2000                         | 2400          | 117 | 9   | 70-130          | 30        |
| n-Propylbenzene             | 2000                      | 2100          | 104 | 2000                         | 2100          | 106 | 2   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 2000                      | 2100          | 104 | 2000                         | 2300          | 116 | 11  | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 2000                      | 2100          | 105 | 2000                         | 2200          | 111 | 6   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325770-3      Analysis Date : 12/27/19 05:20      File ID : V11191227A01  
 LCSD Sample ID : WG1325770-4      Analysis Date : 12/27/19 05:44      File ID : V11191227A02

| Parameter              | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |     | RPD | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-----|------------------------------|---------------|-----|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R  |     |                 |           |
| 1,2,4-Trimethylbenzene | 2000                      | 2100          | 107 | 2000                         | 2300          | 114 | 6   | 70-130          | 30        |
| Methyl Acetate         | 2000                      | 1900          | 93  | 2000                         | 1800          | 92  | 1   | 51-146          | 30        |
| Cyclohexane            | 2000                      | 2500          | 123 | 2000                         | 2300          | 112 | 9   | 59-142          | 30        |
| Freon-113              | 2000                      | 2100          | 104 | 2000                         | 2000          | 102 | 2   | 50-139          | 30        |
| Methyl cyclohexane     | 2000                      | 2400          | 120 | 2000                         | 2300          | 114 | 5   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325794-3      Analysis Date : 12/30/19 05:40      File ID : V11191230A01  
 LCSD Sample ID : WG1325794-4      Analysis Date : 12/30/19 06:05      File ID : V11191230A02

| Parameter                 | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|---------------------------|---------------------------|---------------|-----|------------------------------|---------------|----|-----|-----------------|-----------|
|                           | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| Methylene chloride        | 2000                      | 1700          | 86  | 2000                         | 1700          | 84 | 2   | 70-130          | 30        |
| 1,1-Dichloroethane        | 2000                      | 1800          | 92  | 2000                         | 1700          | 87 | 6   | 70-130          | 30        |
| Chloroform                | 2000                      | 1900          | 93  | 2000                         | 1800          | 88 | 6   | 70-130          | 30        |
| Carbon tetrachloride      | 2000                      | 2000          | 100 | 2000                         | 1900          | 93 | 7   | 70-130          | 30        |
| 1,2-Dichloropropane       | 2000                      | 1900          | 93  | 2000                         | 1800          | 90 | 3   | 70-130          | 30        |
| Dibromochloromethane      | 2000                      | 1700          | 87  | 2000                         | 1700          | 84 | 4   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | 2000                      | 1700          | 83  | 2000                         | 1600          | 80 | 4   | 70-130          | 30        |
| Tetrachloroethene         | 2000                      | 2000          | 97  | 2000                         | 1800          | 90 | 7   | 70-130          | 30        |
| Chlorobenzene             | 2000                      | 1800          | 89  | 2000                         | 1700          | 83 | 7   | 70-130          | 30        |
| Trichlorofluoromethane    | 2000                      | 1900          | 96  | 2000                         | 1800          | 88 | 9   | 70-139          | 30        |
| 1,2-Dichloroethane        | 2000                      | 1700          | 86  | 2000                         | 1700          | 84 | 2   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | 2000                      | 2000          | 98  | 2000                         | 1800          | 90 | 9   | 70-130          | 30        |
| Bromodichloromethane      | 2000                      | 1800          | 92  | 2000                         | 1800          | 89 | 3   | 70-130          | 30        |
| trans-1,3-Dichloropropene | 2000                      | 1800          | 89  | 2000                         | 1700          | 85 | 5   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | 2000                      | 2000          | 102 | 2000                         | 2000          | 98 | 4   | 70-130          | 30        |
| Bromoform                 | 2000                      | 1700          | 86  | 2000                         | 1700          | 83 | 4   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | 2000                      | 1500          | 77  | 2000                         | 1500          | 75 | 3   | 70-130          | 30        |
| Benzene                   | 2000                      | 1900          | 97  | 2000                         | 1800          | 90 | 7   | 70-130          | 30        |
| Toluene                   | 2000                      | 1800          | 89  | 2000                         | 1700          | 83 | 7   | 70-130          | 30        |
| Ethylbenzene              | 2000                      | 1900          | 93  | 2000                         | 1700          | 87 | 7   | 70-130          | 30        |
| Chloromethane             | 2000                      | 1700          | 83  | 2000                         | 1500          | 75 | 10  | 52-130          | 30        |
| Bromomethane              | 2000                      | 2000          | 99  | 2000                         | 1800          | 90 | 10  | 57-147          | 30        |
| Vinyl chloride            | 2000                      | 1800          | 88  | 2000                         | 1600          | 79 | 11  | 67-130          | 30        |
| Chloroethane              | 2000                      | 1700          | 87  | 2000                         | 1600          | 79 | 10  | 50-151          | 30        |
| 1,1-Dichloroethene        | 2000                      | 2100          | 102 | 2000                         | 1900          | 94 | 8   | 65-135          | 30        |
| trans-1,2-Dichloroethene  | 2000                      | 2000          | 101 | 2000                         | 1900          | 94 | 7   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1325794-3      Analysis Date : 12/30/19 05:40      File ID : V11191230A01  
 LCSD Sample ID : WG1325794-4      Analysis Date : 12/30/19 06:05      File ID : V11191230A02

| Parameter                   | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|-----|------------------------------|---------------|----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| Trichloroethene             | 2000                      | 2000          | 99  | 2000                         | 1900          | 93 | 6   | 70-130          | 30        |
| 1,2-Dichlorobenzene         | 2000                      | 1700          | 84  | 2000                         | 1700          | 83 | 1   | 70-130          | 30        |
| 1,3-Dichlorobenzene         | 2000                      | 1700          | 86  | 2000                         | 1700          | 82 | 5   | 70-130          | 30        |
| 1,4-Dichlorobenzene         | 2000                      | 1700          | 85  | 2000                         | 1600          | 81 | 5   | 70-130          | 30        |
| Methyl tert butyl ether     | 2000                      | 2000          | 98  | 2000                         | 1900          | 97 | 1   | 66-130          | 30        |
| p/m-Xylene                  | 4000                      | 4000          | 99  | 4000                         | 3700          | 92 | 7   | 70-130          | 30        |
| o-Xylene                    | 4000                      | 4000          | 99  | 4000                         | 3700          | 92 | 7   | 70-130          | 30        |
| cis-1,2-Dichloroethene      | 2000                      | 2000          | 100 | 2000                         | 1900          | 96 | 4   | 70-130          | 30        |
| Styrene                     | 4000                      | 3900          | 98  | 4000                         | 3700          | 92 | 6   | 70-130          | 30        |
| Dichlorodifluoromethane     | 2000                      | 1700          | 83  | 2000                         | 1500          | 76 | 9   | 30-146          | 30        |
| Acetone                     | 2000                      | 1700          | 85  | 2000                         | 1800          | 88 | 3   | 54-140          | 30        |
| Carbon disulfide            | 2000                      | 1700          | 85  | 2000                         | 1600          | 78 | 9   | 59-130          | 30        |
| 2-Butanone                  | 2000                      | 1800          | 88  | 2000                         | 1800          | 90 | 2   | 70-130          | 30        |
| 4-Methyl-2-pentanone        | 2000                      | 1800          | 89  | 2000                         | 1700          | 86 | 3   | 70-130          | 30        |
| 2-Hexanone                  | 2000                      | 1700          | 86  | 2000                         | 1700          | 84 | 2   | 70-130          | 30        |
| 1,2-Dibromoethane           | 2000                      | 1800          | 88  | 2000                         | 1700          | 85 | 3   | 70-130          | 30        |
| n-Butylbenzene              | 2000                      | 1800          | 91  | 2000                         | 1700          | 85 | 7   | 70-130          | 30        |
| sec-Butylbenzene            | 2000                      | 1900          | 94  | 2000                         | 1700          | 87 | 8   | 70-130          | 30        |
| tert-Butylbenzene           | 2000                      | 1900          | 96  | 2000                         | 1800          | 89 | 8   | 70-130          | 30        |
| 1,2-Dibromo-3-chloropropane | 2000                      | 1700          | 85  | 2000                         | 1700          | 86 | 1   | 68-130          | 30        |
| Isopropylbenzene            | 2000                      | 1900          | 96  | 2000                         | 1800          | 90 | 6   | 70-130          | 30        |
| p-Isopropyltoluene          | 2000                      | 2000          | 98  | 2000                         | 1800          | 92 | 6   | 70-130          | 30        |
| Naphthalene                 | 2000                      | 1900          | 96  | 2000                         | 1900          | 96 | 0   | 70-130          | 30        |
| n-Propylbenzene             | 2000                      | 1800          | 91  | 2000                         | 1700          | 85 | 7   | 70-130          | 30        |
| 1,2,4-Trichlorobenzene      | 2000                      | 1900          | 95  | 2000                         | 1900          | 93 | 2   | 70-130          | 30        |
| 1,3,5-Trimethylbenzene      | 2000                      | 1900          | 93  | 2000                         | 1700          | 87 | 7   | 70-130          | 30        |



# Laboratory Control Sample Summary

## Form 3

### Volatiles

**Client** : LaBella Associates, P.C. **Lab Number** : L1961284  
**Project Name** : FORMER WOLLENSACK OPTICAL **Project Number** : 2182207  
**Matrix** : SOIL  
**LCS Sample ID** : WG1325794-3 **Analysis Date** : 12/30/19 05:40 **File ID** : V11191230A01  
**LCSD Sample ID** : WG1325794-4 **Analysis Date** : 12/30/19 06:05 **File ID** : V11191230A02

| Parameter              | Laboratory Control Sample |               |     | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|------------------------|---------------------------|---------------|-----|------------------------------|---------------|----|-----|-----------------|-----------|
|                        | True (ug/kg)              | Found (ug/kg) | %R  | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| 1,2,4-Trimethylbenzene | 2000                      | 1900          | 95  | 2000                         | 1800          | 89 | 7   | 70-130          | 30        |
| Methyl Acetate         | 2000                      | 1700          | 83  | 2000                         | 1700          | 84 | 1   | 51-146          | 30        |
| Cyclohexane            | 2000                      | 2100          | 105 | 2000                         | 1900          | 96 | 9   | 59-142          | 30        |
| Freon-113              | 2000                      | 2100          | 102 | 2000                         | 1900          | 95 | 7   | 50-139          | 30        |
| Methyl cyclohexane     | 2000                      | 2200          | 108 | 2000                         | 2000          | 99 | 9   | 70-130          | 30        |



# Matrix Spike Sample Summary

## Form 3

### Volatiles

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Client Sample ID</b> : TANK-NORTH-122019 (8')<br><b>Lab Sample ID</b> : L1961284-05<br><b>Matrix Spike</b> : WG1325768-6<br><b>Matrix Spike Dup</b> : WG1325768-7 | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Matrix</b> : SOIL<br><b>Analysis Date</b> : 12/27/19 11:11<br><b>MS Analysis Date</b> : 12/27/19 15:25<br><b>MSD Analysis Date</b> : 12/27/19 15:50 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Parameter                 | Sample Conc. (ug/kg) | Matrix Spike Sample |                     |      | Matrix Spike Duplicate |                     |      | RPD | Recovery Limits | RPD Limit |
|---------------------------|----------------------|---------------------|---------------------|------|------------------------|---------------------|------|-----|-----------------|-----------|
|                           |                      | Spike Added (ug/kg) | Spike Conc. (ug/kg) | %R   | Spike Added (ug/kg)    | Spike Conc. (ug/kg) | %R   |     |                 |           |
| Methylene chloride        | ND                   | 75.1                | 59                  | 78   | 73.6                   | 64                  | 86   | 8   | 70-130          | 30        |
| 1,1-Dichloroethane        | ND                   | 75.1                | 61                  | 81   | 73.6                   | 72                  | 98   | 17  | 70-130          | 30        |
| Chloroform                | 0.29J                | 75.1                | 60                  | 80   | 73.6                   | 66                  | 90   | 10  | 70-130          | 30        |
| Carbon tetrachloride      | ND                   | 75.1                | 65                  | 87   | 73.6                   | 76                  | 104  | 15  | 70-130          | 30        |
| 1,2-Dichloropropane       | ND                   | 75.1                | 68                  | 91   | 73.6                   | 70                  | 96   | 3   | 70-130          | 30        |
| Dibromochloromethane      | ND                   | 75.1                | 58                  | 78   | 73.6                   | 57                  | 77   | 3   | 70-130          | 30        |
| 1,1,2-Trichloroethane     | ND                   | 75.1                | 58                  | 76   | 73.6                   | 56                  | 75   | 4   | 70-130          | 30        |
| Tetrachloroethene         | ND                   | 75.1                | 53                  | 70   | 73.6                   | 58                  | 79   | 10  | 70-130          | 30        |
| Chlorobenzene             | ND                   | 75.1                | 49                  | 65 Q | 73.6                   | 51                  | 70   | 5   | 70-130          | 30        |
| Trichlorofluoromethane    | ND                   | 75.1                | 69                  | 92   | 73.6                   | 67                  | 90   | 4   | 70-139          | 30        |
| 1,2-Dichloroethane        | ND                   | 75.1                | 63                  | 83   | 73.6                   | 65                  | 88   | 3   | 70-130          | 30        |
| 1,1,1-Trichloroethane     | ND                   | 75.1                | 59                  | 78   | 73.6                   | 75                  | 102  | 24  | 70-130          | 30        |
| Bromodichloromethane      | ND                   | 75.1                | 66                  | 88   | 73.6                   | 66                  | 90   | 0   | 70-130          | 30        |
| trans-1,3-Dichloropropene | ND                   | 75.1                | 57                  | 76   | 73.6                   | 55                  | 74   | 4   | 70-130          | 30        |
| cis-1,3-Dichloropropene   | ND                   | 75.1                | 67                  | 89   | 73.6                   | 70                  | 95   | 5   | 70-130          | 30        |
| Bromoform                 | ND                   | 75.1                | 56                  | 74   | 73.6                   | 54                  | 73   | 3   | 70-130          | 30        |
| 1,1,2,2-Tetrachloroethane | ND                   | 75.1                | 50                  | 67 Q | 73.6                   | 49                  | 66 Q | 3   | 70-130          | 30        |
| Benzene                   | ND                   | 75.1                | 58                  | 77   | 73.6                   | 71                  | 96   | 19  | 70-130          | 30        |
| Toluene                   | ND                   | 75.1                | 55                  | 74   | 73.6                   | 57                  | 78   | 4   | 70-130          | 30        |
| Ethylbenzene              | ND                   | 75.1                | 50                  | 67 Q | 73.6                   | 55                  | 75   | 10  | 70-130          | 30        |
| Chloromethane             | ND                   | 75.1                | 64                  | 85   | 73.6                   | 66                  | 89   | 2   | 52-130          | 30        |
| Bromomethane              | ND                   | 75.1                | 81                  | 108  | 73.6                   | 80                  | 109  | 1   | 57-147          | 30        |



# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Client Sample ID : TANK-NORTH-122019 (8')  
 Lab Sample ID : L1961284-05  
 Matrix Spike : WG1325768-6  
 Matrix Spike Dup : WG1325768-7

Lab Number : L1961284  
 Project Number : 2182207  
 Matrix : SOIL  
 Analysis Date : 12/27/19 11:11  
 MS Analysis Date : 12/27/19 15:25  
 MSD Analysis Date : 12/27/19 15:50

| Parameter                | Sample Conc.<br>(ug/kg) | Matrix Spike Sample    |                        |      | Matrix Spike Duplicate |                        |      | RPD | Recovery Limits | RPD Limit |
|--------------------------|-------------------------|------------------------|------------------------|------|------------------------|------------------------|------|-----|-----------------|-----------|
|                          |                         | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R   | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R   |     |                 |           |
| Vinyl chloride           | ND                      | 75.1                   | 72                     | 95   | 73.6                   | 76                     | 103  | 6   | 67-130          | 30        |
| Chloroethane             | ND                      | 75.1                   | 74                     | 99   | 73.6                   | 74                     | 100  | 1   | 50-151          | 30        |
| 1,1-Dichloroethene       | ND                      | 75.1                   | 74                     | 99   | 73.6                   | 76                     | 103  | 2   | 65-135          | 30        |
| trans-1,2-Dichloroethene | ND                      | 75.1                   | 65                     | 87   | 73.6                   | 73                     | 99   | 11  | 70-130          | 30        |
| Trichloroethene          | 0.82                    | 75.1                   | 68                     | 89   | 73.6                   | 72                     | 97   | 6   | 70-130          | 30        |
| 1,2-Dichlorobenzene      | ND                      | 75.1                   | 40                     | 53 Q | 73.6                   | 40                     | 54 Q | 1   | 70-130          | 30        |
| 1,3-Dichlorobenzene      | ND                      | 75.1                   | 37                     | 50 Q | 73.6                   | 40                     | 54 Q | 6   | 70-130          | 30        |
| 1,4-Dichlorobenzene      | ND                      | 75.1                   | 36                     | 48 Q | 73.6                   | 39                     | 52 Q | 6   | 70-130          | 30        |
| Methyl tert butyl ether  | ND                      | 75.1                   | 68                     | 90   | 73.6                   | 73                     | 100  | 8   | 66-130          | 30        |
| p/m-Xylene               | ND                      | 150                    | 100                    | 67 Q | 147                    | 110                    | 75   | 10  | 70-130          | 30        |
| o-Xylene                 | ND                      | 150                    | 110                    | 71   | 147                    | 110                    | 77   | 6   | 70-130          | 30        |
| cis-1,2-Dichloroethene   | ND                      | 75.1                   | 60                     | 79   | 73.6                   | 73                     | 99   | 20  | 70-130          | 30        |
| Styrene                  | ND                      | 150                    | 100                    | 69 Q | 147                    | 110                    | 72   | 2   | 70-130          | 30        |
| Dichlorodifluoromethane  | ND                      | 75.1                   | 73                     | 97   | 73.6                   | 74                     | 101  | 2   | 30-146          | 30        |
| Acetone                  | 64                      | 75.1                   | 60                     | 0 Q  | 73.6                   | 67                     | 4 Q  | 11  | 54-140          | 30        |
| Carbon disulfide         | ND                      | 75.1                   | 61                     | 80   | 73.6                   | 61                     | 83   | 0   | 59-130          | 30        |
| 2-Butanone               | ND                      | 75.1                   | 54                     | 72   | 73.6                   | 65                     | 88   | 18  | 70-130          | 30        |
| 4-Methyl-2-pentanone     | ND                      | 75.1                   | 63                     | 84   | 73.6                   | 60                     | 81   | 5   | 70-130          | 30        |
| 2-Hexanone               | ND                      | 75.1                   | 60                     | 80   | 73.6                   | 52                     | 70   | 16  | 70-130          | 30        |
| 1,2-Dibromoethane        | ND                      | 75.1                   | 57                     | 76   | 73.6                   | 56                     | 76   | 3   | 70-130          | 30        |
| n-Butylbenzene           | ND                      | 75.1                   | 29                     | 39 Q | 73.6                   | 40                     | 54 Q | 30  | 70-130          | 30        |
| sec-Butylbenzene         | ND                      | 75.1                   | 37                     | 49 Q | 73.6                   | 47                     | 64 Q | 24  | 70-130          | 30        |





# Matrix Spike Sample Summary

## Form 3

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Client Sample ID : TANK-NORTH-122019 (8')  
 Lab Sample ID : L1961284-05  
 Matrix Spike : WG1325768-6  
 Matrix Spike Dup : WG1325768-7

Lab Number : L1961284  
 Project Number : 2182207  
 Matrix : SOIL  
 Analysis Date : 12/27/19 11:11  
 MS Analysis Date : 12/27/19 15:25  
 MSD Analysis Date : 12/27/19 15:50

| Parameter                   | Sample Conc.<br>(ug/kg) | Matrix Spike Sample    |                        |     | %R | Matrix Spike Duplicate |                        |     | RPD | Recovery Limits | RPD Limit |    |
|-----------------------------|-------------------------|------------------------|------------------------|-----|----|------------------------|------------------------|-----|-----|-----------------|-----------|----|
|                             |                         | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) |     |    | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R  |     |                 |           |    |
| tert-Butylbenzene           | ND                      | 75.1                   | 42                     | 56  | Q  | 73.6                   | 51                     | 69  | Q   | 19              | 70-130    | 30 |
| 1,2-Dibromo-3-chloropropane | ND                      | 75.1                   | 56                     | 74  |    | 73.6                   | 53                     | 72  |     | 5               | 68-130    | 30 |
| Isopropylbenzene            | ND                      | 75.1                   | 46                     | 61  | Q  | 73.6                   | 54                     | 74  |     | 17              | 70-130    | 30 |
| p-Isopropyltoluene          | ND                      | 75.1                   | 36                     | 48  | Q  | 73.6                   | 47                     | 63  | Q   | 26              | 70-130    | 30 |
| Naphthalene                 | ND                      | 75.1                   | 46                     | 61  | Q  | 73.6                   | 36                     | 48  | Q   | 25              | 70-130    | 30 |
| n-Propylbenzene             | ND                      | 75.1                   | 38                     | 51  | Q  | 73.6                   | 48                     | 65  | Q   | 22              | 70-130    | 30 |
| 1,2,4-Trichlorobenzene      | ND                      | 75.1                   | 35                     | 47  | Q  | 73.6                   | 35                     | 48  | Q   | 1               | 70-130    | 30 |
| 1,3,5-Trimethylbenzene      | ND                      | 75.1                   | 41                     | 54  | Q  | 73.6                   | 47                     | 64  | Q   | 16              | 70-130    | 30 |
| 1,2,4-Trimethylbenzene      | ND                      | 75.1                   | 41                     | 54  | Q  | 73.6                   | 45                     | 62  | Q   | 11              | 70-130    | 30 |
| Methyl Acetate              | 1.6J                    | 75.1                   | 79                     | 105 |    | 73.6                   | 110                    | 143 |     | 29              | 51-146    | 30 |
| Cyclohexane                 | ND                      | 75.1                   | 67                     | 89  |    | 73.6                   | 80                     | 108 |     | 18              | 59-142    | 30 |
| Freon-113                   | ND                      | 75.1                   | 77                     | 103 |    | 73.6                   | 76                     | 103 |     | 1               | 50-139    | 30 |
| Methyl cyclohexane          | ND                      | 75.1                   | 77                     | 102 |    | 73.6                   | 74                     | 100 |     | 5               | 70-130    | 30 |



**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325768-5               | Lab File ID    | : V11191227A05   |
| Instrument ID | : VOA111                    |                |                  |
| Matrix        | : SOIL                      | Analysis Date  | : 12/27/19 07:00 |

| Client Sample No.         | Lab Sample ID | Analysis Date  |
|---------------------------|---------------|----------------|
| WG1325768-3LCS            | WG1325768-3   | 12/27/19 05:20 |
| WG1325768-4LCSD           | WG1325768-4   | 12/27/19 05:44 |
| TANK-NORTH-122019 (8')    | L1961284-05   | 12/27/19 11:11 |
| TANK-NORTH-122019 (8')MS  | WG1325768-6   | 12/27/19 15:25 |
| TANK-NORTH-122019 (8')MSD | WG1325768-7   | 12/27/19 15:50 |

**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325770-5               | Lab File ID    | : V11191227A05   |
| Instrument ID | : VOA111                    |                |                  |
| Matrix        | : SOIL                      | Analysis Date  | : 12/27/19 07:00 |

| Client Sample No.     | Lab Sample ID | Analysis Date  |
|-----------------------|---------------|----------------|
| WG1325770-3LCS        | WG1325770-3   | 12/27/19 05:20 |
| WG1325770-4LCSD       | WG1325770-4   | 12/27/19 05:44 |
| TANK-WEST-122019 (8') | L1961284-03D  | 12/27/19 09:05 |
| TANK-BOT-122019 (11') | L1961284-02D  | 12/27/19 09:55 |
| DUP-01-122019         | L1961284-06D  | 12/27/19 10:45 |

**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325623-5               | Lab File ID    | : VC191228A05    |
| Instrument ID | : CHARLIE                   |                |                  |
| Matrix        | : SOIL                      | Analysis Date  | : 12/28/19 09:16 |

| Client Sample No.      | Lab Sample ID | Analysis Date  |
|------------------------|---------------|----------------|
| WG1325623-3LCS         | WG1325623-3   | 12/28/19 07:27 |
| WG1325623-4LCSD        | WG1325623-4   | 12/28/19 07:54 |
| TANK-EAST-122019 (10') | L1961284-01   | 12/28/19 09:43 |



**Method Blank Summary  
Form 4  
Volatiles**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Lab Sample ID | : WG1325794-5               | Lab File ID    | : V11191230A05   |
| Instrument ID | : VOA111                    |                |                  |
| Matrix        | : SOIL                      | Analysis Date  | : 12/30/19 07:20 |

| Client Sample No.      | Lab Sample ID | Analysis Date  |
|------------------------|---------------|----------------|
| WG1325794-3LCS         | WG1325794-3   | 12/30/19 05:40 |
| WG1325794-4LCSD        | WG1325794-4   | 12/30/19 06:05 |
| TANK-SOUTH-122019 (8') | L1961284-04D  | 12/30/19 10:39 |

# Instrument Performance Check (Tune) Summary

## Form 5

### Volatiles

#### Bromofluorobenzene (BFB)

|                                          |                                 |
|------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207        |
| Instrument ID : CHARLIE                  | Analysis Date : 12/11/19 16:56  |
| Tune Standard : WG1319953-1              | Tune File ID : VC191211BF3_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 24.4                |
| 75  | 30.0 - 60.0% of mass 95            | 49.3                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                 |
| 173 | Less than 2.0% of mass 174         | 0.6 (.8 )1          |
| 174 | Greater than 50.0 of mass 95       | 74.5                |
| 175 | 5.0 - 9.0% of mass 174             | 5.6 (7.5 )1         |
| 176 | 95.0 - 101% of mass 174            | 72.2 (97 )1         |
| 177 | 5.0 - 9.0% of mass 176             | 4.8 (6.6 )2         |

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

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

| Client Sample ID | Lab Sample ID | File ID     | Analysis Date/Time |
|------------------|---------------|-------------|--------------------|
| STD0.5PPB        | R1264822-1    | VC191211N03 | 12/11/19 18:15     |
| STD1PPB          | R1264822-2    | VC191211N04 | 12/11/19 18:43     |
| STD2PPB          | R1264822-3    | VC191211N05 | 12/11/19 19:11     |
| STD4PPB          | R1264822-6    | VC191211N06 | 12/11/19 19:38     |
| STD20PPB         | R1264822-8    | VC191211N07 | 12/11/19 20:05     |
| STD40PPB         | R1264822-4    | VC191211N08 | 12/11/19 20:33     |
| STD100PPB        | R1264822-5    | VC191211N09 | 12/11/19 21:00     |
| STD200PPB        | R1264822-7    | VC191211N10 | 12/11/19 21:28     |
| STD300PPB        | R1264822-9    | VC191211N11 | 12/11/19 21:55     |
| ICV Quant Report | R1264822-10   | VC191211N15 | 12/11/19 23:45     |

# Instrument Performance Check (Tune) Summary

## Form 5

### Volatiles

### Bromofluorobenzene (BFB)

|               |                             |                |                    |
|---------------|-----------------------------|----------------|--------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284         |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207          |
| Instrument ID | : CHARLIE                   | Analysis Date  | : 12/28/19 07:02   |
| Tune Standard | : WG1325623-1               | Tune File ID   | : VC191228BF1_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 26.6                |
| 75  | 30.0 - 60.0% of mass 95            | 53                  |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.6                 |
| 173 | Less than 2.0% of mass 174         | 0.8 (1.1 )1         |
| 174 | Greater than 50.0 of mass 95       | 75.3                |
| 175 | 5.0 - 9.0% of mass 174             | 5.6 (7.5 )1         |
| 176 | 95.0 - 101% of mass 174            | 71.6 (95.1)1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.8 (6.7 )2         |

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

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

| Client Sample ID       | Lab Sample ID | File ID     | Analysis Date/Time |
|------------------------|---------------|-------------|--------------------|
| WG1325623-2CCAL        | WG1325623-2   | VC191228A01 | 12/28/19 07:27     |
| WG1325623-3LCS         | WG1325623-3   | VC191228A01 | 12/28/19 07:27     |
| WG1325623-4LCSD        | WG1325623-4   | VC191228A02 | 12/28/19 07:54     |
| WG1325623-5BLANK       | WG1325623-5   | VC191228A05 | 12/28/19 09:16     |
| TANK-EAST-122019 (10') | L1961284-01   | VC191228A06 | 12/28/19 09:43     |

# Instrument Performance Check (Tune) Summary

## Form 5

### Volatiles

### Bromofluorobenzene (BFB)

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284            |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207         |
| Instrument ID : VOA111                   | Analysis Date : 12/20/19 02:50   |
| Tune Standard : WG1323373-1              | Tune File ID : V11191220A01_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.1                |
| 75  | 30.0 - 60.0% of mass 95            | 52.9                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.8                 |
| 173 | Less than 2.0% of mass 174         | 1 (1.4 )1           |
| 174 | Greater than 50.0 of mass 95       | 75.5                |
| 175 | 5.0 - 9.0% of mass 174             | 5.7 (7.6 )1         |
| 176 | 95.0 - 101% of mass 174            | 72.6 (96.2)1        |
| 177 | 5.0 - 9.0% of mass 176             | 4.6 (6.3 )2         |

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

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

| Client Sample ID | Lab Sample ID | File ID      | Analysis Date/Time |
|------------------|---------------|--------------|--------------------|
| STD.5PPB         | R1268123-2    | V11191220A04 | 12/20/19 04:12     |
| STD1PPB          | R1268123-1    | V11191220A05 | 12/20/19 04:37     |
| STD2PPB          | R1268123-3    | V11191220A06 | 12/20/19 05:02     |
| STD4PPB          | R1268123-4    | V11191220A07 | 12/20/19 05:27     |
| STD20PPB         | R1268123-6    | V11191220A08 | 12/20/19 05:52     |
| STD40PPB         | R1268123-5    | V11191220A09 | 12/20/19 06:18     |
| STD100PPB        | R1268123-7    | V11191220A10 | 12/20/19 06:44     |
| STD200PPB        | R1268123-9    | V11191220A11 | 12/20/19 07:09     |
| STD300PPB        | R1268123-8    | V11191220A12 | 12/20/19 07:34     |
| ICV Quant Report | R1268123-10   | V11191220A16 | 12/20/19 09:14     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Volatiles

#### Bromofluorobenzene (BFB)

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284            |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207         |
| Instrument ID : VOA111                   | Analysis Date : 12/27/19 04:55   |
| Tune Standard : WG1325768-1              | Tune File ID : V11191227BF2_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.2                |
| 75  | 30.0 - 60.0% of mass 95            | 53.9                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 7.1                 |
| 173 | Less than 2.0% of mass 174         | 1 (1.4 )1           |
| 174 | Greater than 50.0 of mass 95       | 76.1                |
| 175 | 5.0 - 9.0% of mass 174             | 6.1 (8 )1           |
| 176 | 95.0 - 101% of mass 174            | 72.7 (95.5)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.3 (7.2 )2         |

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

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

| Client Sample ID       | Lab Sample ID | File ID      | Analysis Date/Time |
|------------------------|---------------|--------------|--------------------|
| WG1325768-2CCAL        | WG1325768-2   | V11191227A01 | 12/27/19 05:20     |
| WG1325768-3LCS         | WG1325768-3   | V11191227A01 | 12/27/19 05:20     |
| WG1325768-4LCSD        | WG1325768-4   | V11191227A02 | 12/27/19 05:44     |
| WG1325768-5BLANK       | WG1325768-5   | V11191227A05 | 12/27/19 07:00     |
| TANK-NORTH-122019 (8') | L1961284-05   | V11191227A15 | 12/27/19 11:11     |
| WG1325768-6MS          | WG1325768-6   | V11191227A25 | 12/27/19 15:25     |
| WG1325768-7MSD         | WG1325768-7   | V11191227A26 | 12/27/19 15:50     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Volatiles

### Bromofluorobenzene (BFB)

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284            |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207         |
| Instrument ID : VOA111                   | Analysis Date : 12/27/19 04:55   |
| Tune Standard : WG1325770-1              | Tune File ID : V11191227BF2_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 22.2                |
| 75  | 30.0 - 60.0% of mass 95            | 53.9                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 7.1                 |
| 173 | Less than 2.0% of mass 174         | 1 (1.4 )1           |
| 174 | Greater than 50.0 of mass 95       | 76.1                |
| 175 | 5.0 - 9.0% of mass 174             | 6.1 (8 )1           |
| 176 | 95.0 - 101% of mass 174            | 72.7 (95.5)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.3 (7.2 )2         |

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

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

| Client Sample ID      | Lab Sample ID | File ID      | Analysis Date/Time |
|-----------------------|---------------|--------------|--------------------|
| WG1325770-2CCAL       | WG1325770-2   | V11191227A01 | 12/27/19 05:20     |
| WG1325770-3LCS        | WG1325770-3   | V11191227A01 | 12/27/19 05:20     |
| WG1325770-4LCSD       | WG1325770-4   | V11191227A02 | 12/27/19 05:44     |
| WG1325770-5BLANK      | WG1325770-5   | V11191227A05 | 12/27/19 07:00     |
| TANK-WEST-122019 (8') | L1961284-03D  | V11191227A10 | 12/27/19 09:05     |
| TANK-BOT-122019 (11') | L1961284-02D  | V11191227A12 | 12/27/19 09:55     |
| DUP-01-122019         | L1961284-06D  | V11191227A14 | 12/27/19 10:45     |

**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Volatiles**  
**Bromofluorobenzene (BFB)**

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284            |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207         |
| Instrument ID : VOA111                   | Analysis Date : 12/30/19 05:19   |
| Tune Standard : WG1325794-1              | Tune File ID : V11191230BF1_tune |

| m/e | Ion Abundance Criteria             | %Relative Abundance |
|-----|------------------------------------|---------------------|
| 50  | 15.0 - 40.0% of mass 95            | 20                  |
| 75  | 30.0 - 60.0% of mass 95            | 48.6                |
| 95  | Base Peak, 100% relative abundance | 100                 |
| 96  | 5.0 - 9.0% of mass 95              | 6.9                 |
| 173 | Less than 2.0% of mass 174         | 0.8 (1 )1           |
| 174 | Greater than 50.0 of mass 95       | 78                  |
| 175 | 5.0 - 9.0% of mass 174             | 6 (7.7 )1           |
| 176 | 95.0 - 101% of mass 174            | 75.2 (96.4)1        |
| 177 | 5.0 - 9.0% of mass 176             | 5.1 (6.7 )2         |

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

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

| Client Sample ID       | Lab Sample ID | File ID      | Analysis Date/Time |
|------------------------|---------------|--------------|--------------------|
| WG1325794-2CCAL        | WG1325794-2   | V11191230A01 | 12/30/19 05:40     |
| WG1325794-3LCS         | WG1325794-3   | V11191230A01 | 12/30/19 05:40     |
| WG1325794-4LCSD        | WG1325794-4   | V11191230A02 | 12/30/19 06:05     |
| WG1325794-5BLANK       | WG1325794-5   | V11191230A05 | 12/30/19 07:20     |
| TANK-SOUTH-122019 (8') | L1961284-04D  | V11191230A13 | 12/30/19 10:39     |

# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Sample No : WG1325768-2

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/27/19 05:20  
 Lab File ID : V11191227A01

|                            | Fluorobenzene (IS) |      | Chlorobenzene-d5 |      | 1,4-Dichlorobenzene-D4 |       |
|----------------------------|--------------------|------|------------------|------|------------------------|-------|
|                            | Area               | RT   | Area             | RT   | Area                   | RT    |
| WG1325768-2                | 272895             | 5.45 | 221514           | 8.92 | 120351                 | 11.75 |
| Upper Limit                | 545790             | 5.95 | 443028           | 9.42 | 240702                 | 12.25 |
| Lower Limit                | 136448             | 4.95 | 110757           | 8.42 | 60176                  | 11.25 |
| Sample ID                  |                    |      |                  |      |                        |       |
| WG1325768-3 LCS            | 272895             | 5.45 | 221514           | 8.92 | 120351                 | 11.75 |
| WG1325768-4 LCSD           | 279369             | 5.45 | 233521           | 8.92 | 111290                 | 11.75 |
| WG1325768-5 BLANK          | 266441             | 5.45 | 210235           | 8.92 | 110674                 | 11.75 |
| TANK-NORTH-122019 (8')     | 334973             | 5.45 | 279350           | 8.92 | 144898                 | 11.75 |
| TANK-NORTH-122019 (8') MS  | 292049             | 5.45 | 244702           | 8.92 | 128800                 | 11.75 |
| TANK-NORTH-122019 (8') MSD | 282748             | 5.45 | 257032           | 8.92 | 131767                 | 11.75 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Sample No : WG1325770-2

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/27/19 05:20  
 Lab File ID : V11191227A01

|                       | Fluorobenzene (IS) |      | Chlorobenzene-d5 |      | 1,4-Dichlorobenzene-D4 |       |
|-----------------------|--------------------|------|------------------|------|------------------------|-------|
|                       | Area               | RT   | Area             | RT   | Area                   | RT    |
| WG1325770-2           | 272895             | 5.45 | 221514           | 8.92 | 120351                 | 11.75 |
| Upper Limit           | 545790             | 5.95 | 443028           | 9.42 | 240702                 | 12.25 |
| Lower Limit           | 136448             | 4.95 | 110757           | 8.42 | 60176                  | 11.25 |
| Sample ID             |                    |      |                  |      |                        |       |
| WG1325770-3 LCS       | 272895             | 5.45 | 221514           | 8.92 | 120351                 | 11.75 |
| WG1325770-4 LCSD      | 279369             | 5.45 | 233521           | 8.92 | 111290                 | 11.75 |
| WG1325770-5 BLANK     | 266441             | 5.45 | 210235           | 8.92 | 110674                 | 11.75 |
| TANK-WEST-122019 (8') | 241615             | 5.45 | 210360           | 8.92 | 113874                 | 11.75 |
| TANK-BOT-122019 (11') | 225865             | 5.45 | 176697           | 8.92 | 109486                 | 11.75 |
| DUP-01-122019         | 323255             | 5.45 | 269696           | 8.92 | 141131                 | 11.75 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : CHARLIE                   | Analysis Date  | : 12/28/19 07:27 |
| Sample No     | : WG1325623-2               | Lab File ID    | : VC191228A01    |

|                        | Fluorobenzene (IS) |      | Chlorobenzene-d5 |       | 1,4-Dichlorobenzene-D4 |       |
|------------------------|--------------------|------|------------------|-------|------------------------|-------|
|                        | Area               | RT   | Area             | RT    | Area                   | RT    |
| WG1325623-2            | 92781              | 6.21 | 71520            | 9.76  | 38760                  | 12.41 |
| Upper Limit            | 185562             | 6.71 | 143040           | 10.26 | 77520                  | 12.91 |
| Lower Limit            | 46391              | 5.71 | 35760            | 9.26  | 19380                  | 11.91 |
| Sample ID              |                    |      |                  |       |                        |       |
| WG1325623-3 LCS        | 92781              | 6.21 | 71520            | 9.76  | 38760                  | 12.41 |
| WG1325623-4 LCSD       | 84760              | 6.21 | 66205            | 9.76  | 35177                  | 12.40 |
| WG1325623-5 BLANK      | 82873              | 6.21 | 63222            | 9.76  | 32143                  | 12.41 |
| TANK-EAST-122019 (10') | 74692              | 6.21 | 56710            | 9.76  | 30029                  | 12.41 |

Area Upper Limit = +100% of internal standard area  
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Sample No : WG1325794-2

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/30/19 05:40  
 Lab File ID : V11191230A01

|                        | Fluorobenzene (IS) |      | Chlorobenzene-d5 |      | 1,4-Dichlorobenzene-D4 |       |
|------------------------|--------------------|------|------------------|------|------------------------|-------|
|                        | Area               | RT   | Area             | RT   | Area                   | RT    |
| WG1325794-2            | 340789             | 5.45 | 288898           | 8.92 | 151324                 | 11.75 |
| Upper Limit            | 681578             | 5.95 | 577796           | 9.42 | 302648                 | 12.25 |
| Lower Limit            | 170395             | 4.95 | 144449           | 8.42 | 75662                  | 11.25 |
| Sample ID              |                    |      |                  |      |                        |       |
| WG1325794-3 LCS        | 340789             | 5.45 | 288898           | 8.92 | 151324                 | 11.75 |
| WG1325794-4 LCSD       | 350167             | 5.45 | 299197           | 8.92 | 154976                 | 11.75 |
| WG1325794-5 BLANK      | 330694             | 5.45 | 278785           | 8.92 | 149345                 | 11.75 |
| TANK-SOUTH-122019 (8') | 311545             | 5.45 | 274848           | 8.92 | 151325                 | 11.75 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits





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

Volatile Organics - EPA 8260C (WATER)

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

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

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



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Date Created: 06/19/18  
Created By: Jason Hebert  
File: PM5049-1  
Page: 2

Volatile Organics - EPA 8260C (WATER)

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

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

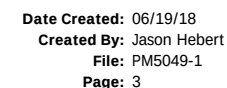
Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)  
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)  
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Volatile Organics - EPA 8260C (SOIL-LOW)

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

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

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Volatile Organics - EPA 8260C (SOIL-LOW)

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

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

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**File:** PM5047-1  
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**Volatile Organics - EPA 8260C (SOIL-LOW)**

**Holding Time:** 14 days

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

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)  
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Volatile Organics - EPA 8260C (SOIL-HIGH)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)  
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Created By: Jason Hebert  
File: PM5048-1  
Page: 2

Volatile Organics - EPA 8260C (SOIL-HIGH)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)  
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**File:** PM5048-1  
**Page:** 3

**Volatile Organics - EPA 8260C (SOIL-HIGH)**

**Holding Time:** 14 days

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

[illegible]

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



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## **Volatiles Sample Data**

# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A06  
 Sample Amount : 6.8 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/28/19 09:43  
 Dilution Factor : 1  
 Analyst : AD  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : 89  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 4.1  | 1.9  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 0.82 | 0.12 | U         |
| 67-66-3    | Chloroform                | ND      | 1.2  | 0.12 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 0.82 | 0.19 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 0.82 | 0.10 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 0.82 | 0.12 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 0.82 | 0.22 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.41 | 0.16 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.41 | 0.10 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 3.3  | 0.57 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 0.82 | 0.21 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.41 | 0.14 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.41 | 0.09 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 0.82 | 0.22 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.41 | 0.13 | U         |
| 75-25-2    | Bromoform                 | ND      | 3.3  | 0.20 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.41 | 0.14 | U         |
| 71-43-2    | Benzene                   | ND      | 0.41 | 0.14 | U         |
| 108-88-3   | Toluene                   | ND      | 0.82 | 0.45 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 0.82 | 0.12 | U         |
| 74-87-3    | Chloromethane             | ND      | 3.3  | 0.77 | U         |
| 74-83-9    | Bromomethane              | ND      | 1.6  | 0.48 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 0.82 | 0.28 | U         |
| 75-00-3    | Chloroethane              | ND      | 1.6  | 0.37 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 0.82 | 0.20 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A06  
 Sample Amount : 6.8 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/28/19 09:43  
 Dilution Factor : 1  
 Analyst : AD  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : 89  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | 0.43    | 1.2  | 0.11 | J         |
| 79-01-6     | Trichloroethene             | ND      | 0.41 | 0.11 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 1.6  | 0.12 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 1.6  | 0.12 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 1.6  | 0.14 | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 1.6  | 0.16 | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 1.6  | 0.46 | U         |
| 95-47-6     | o-Xylene                    | ND      | 0.82 | 0.24 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 0.82 | 0.14 | U         |
| 100-42-5    | Styrene                     | ND      | 0.82 | 0.16 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 8.2  | 0.75 | U         |
| 67-64-1     | Acetone                     | ND      | 8.2  | 4.0  | U         |
| 75-15-0     | Carbon disulfide            | ND      | 8.2  | 3.7  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 8.2  | 1.8  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 8.2  | 1.0  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 8.2  | 0.97 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 0.82 | 0.23 | U         |
| 104-51-8    | n-Butylbenzene              | 0.77    | 0.82 | 0.14 | J         |
| 135-98-8    | sec-Butylbenzene            | 0.17    | 0.82 | 0.12 | J         |
| 98-06-6     | tert-Butylbenzene           | ND      | 1.6  | 0.10 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 2.5  | 0.82 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 0.82 | 0.09 | U         |
| 99-87-6     | p-Isopropyltoluene          | 0.31    | 0.82 | 0.09 | J         |
| 91-20-3     | Naphthalene                 | 9.0     | 3.3  | 0.53 |           |
| 103-65-1    | n-Propylbenzene             | ND      | 0.82 | 0.14 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-01                   | Date Collected   | : 12/20/19 10:10 |
| Client ID             | : TANK-EAST-122019 (10')        | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/28/19 09:43 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                       | Analyst          | : AD             |
| Lab File ID           | : VC191228A06                   | Instrument ID    | : CHARLIE        |
| Sample Amount         | : 6.8 g                         | GC Column        | : RTX-VMS        |
| Level                 | : LOW                           | %Solids          | : 89             |
| Extract Volume (MeOH) | : N/A                           | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 1.6 | 0.22 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.20    | 1.6 | 0.16 | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 1.2     | 1.6 | 0.27 | J         |
| 79-20-9  | Methyl Acetate         | ND      | 3.3 | 0.78 | U         |
| 110-82-7 | Cyclohexane            | ND      | 8.2 | 0.45 | U         |
| 76-13-1  | Freon-113              | ND      | 3.3 | 0.57 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 3.3 | 0.50 | U         |



# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-01                   | Date Collected   | : 12/20/19 10:10 |
| Client ID             | : TANK-EAST-122019 (10')        | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/28/19 09:43 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                       | Analyst          | : AD             |
| Lab File ID           | : VC191228A06                   | Instrument ID    | : CHARLIE        |
| Sample Amount         | :                               | GC Column        | : RTX-VMS        |
| Level                 | :                               | %Solids          | : 89             |
| Extract Volume (MeOH) | : NA                            | Injection Volume | : 1              |

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number  | Compound Name       | RT    | EST. CONC. | Qualifier |
|-------------|---------------------|-------|------------|-----------|
| 001120-21-4 | Undecane            | 12.60 | 93.9       | NJ        |
|             | Unknown Alkane      | 13.60 | 124        | J         |
|             | Unknown Alkane      | 13.76 | 48.8       | J         |
|             | Unknown Benzene     | 13.84 | 58         | J         |
|             | Unknown             | 14.14 | 90.5       | J         |
|             | Unknown Alkane      | 14.46 | 209        | J         |
|             | Unknown             | 14.96 | 52.4       | J         |
|             | Unknown Alkane      | 15.10 | 95.2       | J         |
|             | Unknown Alkane      | 15.22 | 160        | J         |
|             | Unknown Aromatic    | 15.47 | 111        | J         |
|             | Unknown Aromatic    | 15.62 | 54.6       | J         |
|             | Unknown Alkane      | 15.75 | 50.1       | J         |
|             | Unknown Alkane      | 16.01 | 67.3       | J         |
|             | Unknown Naphthalene | 16.46 | 59.6       | J         |
|             | Unknown Naphthalene | 16.60 | 64         | J         |
|             | Total TIC Compounds |       | 1340J      | J         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02D  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A12  
 Sample Amount : 6.6 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:55  
 Dilution Factor : 2  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 81  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 580 | 260 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 120 | 17. | U         |
| 67-66-3    | Chloroform                | ND      | 170 | 16. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 120 | 26. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 120 | 14. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 120 | 16. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 120 | 31. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 58  | 23. | U         |
| 108-90-7   | Chlorobenzene             | ND      | 58  | 15. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 460 | 80. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 120 | 30. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 58  | 19. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 58  | 13. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 120 | 32. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 58  | 18. | U         |
| 75-25-2    | Bromoform                 | ND      | 460 | 28. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 58  | 19. | U         |
| 71-43-2    | Benzene                   | ND      | 58  | 19. | U         |
| 108-88-3   | Toluene                   | ND      | 120 | 63. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 120 | 16. | U         |
| 74-87-3    | Chloromethane             | ND      | 460 | 110 | U         |
| 74-83-9    | Bromomethane              | ND      | 230 | 67. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 120 | 39. | U         |
| 75-00-3    | Chloroethane              | ND      | 230 | 52. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 120 | 28. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02D  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A12  
 Sample Amount : 6.6 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:55  
 Dilution Factor : 2  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 81  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |     | Qualifier |
|-------------|-----------------------------|---------|------|-----|-----------|
|             |                             | Results | RL   | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 170  | 16. | U         |
| 79-01-6     | Trichloroethene             | ND      | 58   | 16. | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 230  | 17. | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 230  | 17. | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 230  | 20. | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 230  | 23. | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 230  | 65. | U         |
| 95-47-6     | o-Xylene                    | ND      | 120  | 34. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 120  | 20. | U         |
| 100-42-5    | Styrene                     | ND      | 120  | 23. | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 1200 | 100 | U         |
| 67-64-1     | Acetone                     | ND      | 1200 | 560 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 1200 | 530 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 1200 | 260 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 1200 | 150 | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 1200 | 140 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 120  | 32. | U         |
| 104-51-8    | n-Butylbenzene              | 31      | 120  | 19. | J         |
| 135-98-8    | sec-Butylbenzene            | ND      | 120  | 17. | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 230  | 14. | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 350  | 120 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 120  | 13. | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 120  | 13. | U         |
| 91-20-3     | Naphthalene                 | 1600    | 460  | 75. |           |
| 103-65-1    | n-Propylbenzene             | ND      | 120  | 20. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.               | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL        | Project Number : 2182207        |
| Lab ID : L1961284-02D                           | Date Collected : 12/20/19 10:30 |
| Client ID : TANK-BOT-122019 (11')               | Date Received : 12/20/19        |
| Sample Location : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed : 12/27/19 09:55  |
| Sample Matrix : SOIL                            | Dilution Factor : 2             |
| Analytical Method : 1,8260C                     | Analyst : MV                    |
| Lab File ID : V11191227A12                      | Instrument ID : VOA111          |
| Sample Amount : 6.6 g                           | GC Column : RTX-VMS             |
| Level : HIGH                                    | %Solids : 81                    |
| Extract Volume (MeOH) : 5 ml                    | Injection Volume : N/A          |

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 230  | 31. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 230  | 22. | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 230  | 39. | U         |
| 79-20-9  | Methyl Acetate         | ND      | 460  | 110 | U         |
| 110-82-7 | Cyclohexane            | ND      | 1200 | 63. | U         |
| 76-13-1  | Freon-113              | ND      | 460  | 80. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 460  | 70. | U         |



# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-02D                  | Date Collected   | : 12/20/19 10:30 |
| Client ID             | : TANK-BOT-122019 (11')         | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/27/19 09:55 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 2              |
| Analytical Method     | : 1,8260C                       | Analyst          | : MV             |
| Lab File ID           | : V11191227A12                  | Instrument ID    | : VOA111         |
| Sample Amount         | :                               | GC Column        | : RTX-VMS        |
| Level                 | :                               | %Solids          | : 81             |
| Extract Volume (MeOH) | : NA                            | Injection Volume | : 0.05 g         |

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name       | RT    | EST. CONC. | Qualifier |
|-------------|---------------------|-------|------------|-----------|
| 000112-40-3 | Dodecane            | 13.07 | 2640       | NJ        |
|             | Unknown Benzene     | 13.26 | 1970       | J         |
|             | Unknown Benzene     | 13.59 | 2640       | J         |
|             | Unknown Naphthalene | 14.26 | 2140       | J         |
|             | Unknown Aromatic    | 14.42 | 1650       | J         |
|             | Unknown Aromatic    | 14.88 | 6040       | J         |
|             | Unknown Aromatic    | 15.01 | 3380       | J         |
|             | Unknown Naphthalene | 15.76 | 3630       | J         |
|             | Unknown Naphthalene | 15.88 | 3370       | J         |
|             | Unknown Naphthalene | 15.91 | 1780       | J         |
|             | Total TIC Compounds |       | 29200J     | J         |

# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A10  
 Sample Amount : 6.3 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:05  
 Dilution Factor : 4  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |     | Qualifier |
|------------|---------------------------|---------|------|-----|-----------|
|            |                           | Results | RL   | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 1200 | 530 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 230  | 34. | U         |
| 67-66-3    | Chloroform                | ND      | 350  | 33. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 230  | 54. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 230  | 29. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 230  | 33. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 230  | 62. | U         |
| 127-18-4   | Tetrachloroethene         | 79      | 120  | 46. | J         |
| 108-90-7   | Chlorobenzene             | ND      | 120  | 30. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 930  | 160 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 230  | 60. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 120  | 39. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 120  | 25. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 230  | 64. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 120  | 37. | U         |
| 75-25-2    | Bromoform                 | ND      | 930  | 57. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 120  | 39. | U         |
| 71-43-2    | Benzene                   | ND      | 120  | 39. | U         |
| 108-88-3   | Toluene                   | ND      | 230  | 130 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 230  | 33. | U         |
| 74-87-3    | Chloromethane             | ND      | 930  | 220 | U         |
| 74-83-9    | Bromomethane              | ND      | 470  | 140 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 230  | 78. | U         |
| 75-00-3    | Chloroethane              | ND      | 470  | 100 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 230  | 55. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A10  
 Sample Amount : 6.3 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 09:05  
 Dilution Factor : 4  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 350  | 32.  | U         |
| 79-01-6     | Trichloroethene             | 150     | 120  | 32.  |           |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 470  | 34.  | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 470  | 34.  | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 470  | 40.  | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 470  | 47.  | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 470  | 130  | U         |
| 95-47-6     | o-Xylene                    | ND      | 230  | 68.  | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 230  | 41.  | U         |
| 100-42-5    | Styrene                     | ND      | 230  | 46.  | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 2300 | 210  | U         |
| 67-64-1     | Acetone                     | ND      | 2300 | 1100 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 2300 | 1100 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 2300 | 520  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 2300 | 300  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 2300 | 270  | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 230  | 65.  | U         |
| 104-51-8    | n-Butylbenzene              | 980     | 230  | 39.  |           |
| 135-98-8    | sec-Butylbenzene            | 270     | 230  | 34.  |           |
| 98-06-6     | tert-Butylbenzene           | ND      | 470  | 27.  | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 700  | 230  | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 230  | 25.  | U         |
| 99-87-6     | p-Isopropyltoluene          | 440     | 230  | 25.  |           |
| 91-20-3     | Naphthalene                 | 6300    | 930  | 150  |           |
| 103-65-1    | n-Propylbenzene             | 60      | 230  | 40.  | J         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.               | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL        | Project Number : 2182207        |
| Lab ID : L1961284-03D                           | Date Collected : 12/20/19 10:40 |
| Client ID : TANK-WEST-122019 (8')               | Date Received : 12/20/19        |
| Sample Location : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed : 12/27/19 09:05  |
| Sample Matrix : SOIL                            | Dilution Factor : 4             |
| Analytical Method : 1,8260C                     | Analyst : MV                    |
| Lab File ID : V11191227A10                      | Instrument ID : VOA111          |
| Sample Amount : 6.3 g                           | GC Column : RTX-VMS             |
| Level : HIGH                                    | %Solids : 83                    |
| Extract Volume (MeOH) : 5 ml                    | Injection Volume : N/A          |

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 470  | 63. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 440     | 470  | 45. | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 2500    | 470  | 78. |           |
| 79-20-9  | Methyl Acetate         | ND      | 930  | 220 | U         |
| 110-82-7 | Cyclohexane            | ND      | 2300 | 130 | U         |
| 76-13-1  | Freon-113              | ND      | 930  | 160 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 930  | 140 | U         |

# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-03D                  | Date Collected   | : 12/20/19 10:40 |
| Client ID             | : TANK-WEST-122019 (8')         | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/27/19 09:05 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 4              |
| Analytical Method     | : 1,8260C                       | Analyst          | : MV             |
| Lab File ID           | : V11191227A10                  | Instrument ID    | : VOA111         |
| Sample Amount         | :                               | GC Column        | : RTX-VMS        |
| Level                 | :                               | %Solids          | : 83             |
| Extract Volume (MeOH) | : NA                            | Injection Volume | : 0.025 g        |

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name                  | RT    | EST. CONC. | Qualifier |
|-------------|--------------------------------|-------|------------|-----------|
|             | Unknown                        | 13.07 | 15200      | J         |
|             | Unknown Benzene                | 13.24 | 15000      | J         |
|             | Unknown Benzene                | 13.26 | 13800      | J         |
| 056253-64-6 | Benzene, (2-methyl-1-butenyl)- | 13.59 | 23500      | NJ        |
|             | Unknown Benzene                | 13.67 | 12800      | J         |
|             | Unknown Aromatic               | 14.26 | 14300      | J         |
|             | Unknown Aromatic               | 14.56 | 9120       | J         |
|             | Unknown Aromatic               | 14.88 | 20600      | J         |
|             | Unknown Aromatic               | 15.01 | 9740       | J         |
|             | Unknown Naphthalene            | 15.76 | 9450       | J         |
|             | Total TIC Compounds            |       | 144000J    | J         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A13  
 Sample Amount : 7.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/30/19 10:39  
 Dilution Factor : 2  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 87  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 480 | 220 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 97  | 14. | U         |
| 67-66-3    | Chloroform                | ND      | 140 | 14. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 97  | 22. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 97  | 12. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 97  | 14. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 97  | 26. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 48  | 19. | U         |
| 108-90-7   | Chlorobenzene             | ND      | 48  | 12. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 390 | 67. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 97  | 25. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 48  | 16. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 48  | 10. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 97  | 26. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 48  | 15. | U         |
| 75-25-2    | Bromoform                 | ND      | 390 | 24. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 48  | 16. | U         |
| 71-43-2    | Benzene                   | ND      | 48  | 16. | U         |
| 108-88-3   | Toluene                   | ND      | 97  | 52. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 97  | 14. | U         |
| 74-87-3    | Chloromethane             | ND      | 390 | 90. | U         |
| 74-83-9    | Bromomethane              | ND      | 190 | 56. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 97  | 32. | U         |
| 75-00-3    | Chloroethane              | ND      | 190 | 44. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 97  | 23. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A13  
 Sample Amount : 7.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/30/19 10:39  
 Dilution Factor : 2  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 87  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |     |     | Qualifier |
|-------------|-----------------------------|---------|-----|-----|-----------|
|             |                             | Results | RL  | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 140 | 13. | U         |
| 79-01-6     | Trichloroethene             | 31      | 48  | 13. | J         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 190 | 14. | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 190 | 14. | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 190 | 16. | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 190 | 19. | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 190 | 54. | U         |
| 95-47-6     | o-Xylene                    | ND      | 97  | 28. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 97  | 17. | U         |
| 100-42-5    | Styrene                     | ND      | 97  | 19. | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 970 | 88. | U         |
| 67-64-1     | Acetone                     | ND      | 970 | 460 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 970 | 440 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 970 | 210 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 970 | 120 | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 970 | 110 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 97  | 27. | U         |
| 104-51-8    | n-Butylbenzene              | 380     | 97  | 16. |           |
| 135-98-8    | sec-Butylbenzene            | 49      | 97  | 14. | J         |
| 98-06-6     | tert-Butylbenzene           | ND      | 190 | 11. | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 290 | 97. | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 97  | 10. | U         |
| 99-87-6     | p-Isopropyltoluene          | 90      | 97  | 10. | J         |
| 91-20-3     | Naphthalene                 | 2200    | 390 | 63. |           |
| 103-65-1    | n-Propylbenzene             | ND      | 97  | 16. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-04D                  | Date Collected   | : 12/20/19 11:15 |
| Client ID             | : TANK-SOUTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/30/19 10:39 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 2              |
| Analytical Method     | : 1,8260C                       | Analyst          | : JC             |
| Lab File ID           | : V11191230A13                  | Instrument ID    | : VOA111         |
| Sample Amount         | : 7.0 g                         | GC Column        | : RTX-VMS        |
| Level                 | : HIGH                          | %Solids          | : 87             |
| Extract Volume (MeOH) | : 5 ml                          | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 190 | 26. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 58      | 190 | 19. | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 380     | 190 | 32. |           |
| 79-20-9  | Methyl Acetate         | ND      | 390 | 92. | U         |
| 110-82-7 | Cyclohexane            | ND      | 970 | 53. | U         |
| 76-13-1  | Freon-113              | ND      | 390 | 67. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 390 | 58. | U         |





# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-04D                  | Date Collected   | : 12/20/19 11:15 |
| Client ID             | : TANK-SOUTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/30/19 10:39 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 2              |
| Analytical Method     | : 1,8260C                       | Analyst          | : JC             |
| Lab File ID           | : V11191230A13                  | Instrument ID    | : VOA111         |
| Sample Amount         | :                               | GC Column        | : RTX-VMS        |
| Level                 | :                               | %Solids          | : 87             |
| Extract Volume (MeOH) | : NA                            | Injection Volume | : 0.05 g         |

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT    | EST. CONC. | Qualifier |
|------------|---------------------|-------|------------|-----------|
|            | Unknown Benzene     | 13.24 | 4420       | J         |
|            | Unknown Benzene     | 13.26 | 3720       | J         |
|            | Unknown Benzene     | 13.59 | 7080       | J         |
|            | Unknown Aromatic    | 13.67 | 4470       | J         |
|            | Unknown Naphthalene | 14.26 | 4640       | J         |
|            | Unknown Aromatic    | 14.42 | 3160       | J         |
|            | Unknown Aromatic    | 14.56 | 2810       | J         |
|            | Unknown Aromatic    | 14.88 | 7590       | J         |
|            | Unknown Aromatic    | 15.01 | 3670       | J         |
|            | Unknown Naphthalene | 15.76 | 3290       | J         |
|            | Total TIC Compounds |       | 44900J     | J         |

# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A15  
 Sample Amount : 7.2 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 11:11  
 Dilution Factor : 1  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 4.2  | 1.9  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 0.83 | 0.12 | U         |
| 67-66-3    | Chloroform                | 0.29    | 1.2  | 0.12 | J         |
| 56-23-5    | Carbon tetrachloride      | ND      | 0.83 | 0.19 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 0.83 | 0.10 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 0.83 | 0.12 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 0.83 | 0.22 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.42 | 0.16 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.42 | 0.10 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 3.3  | 0.58 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 0.83 | 0.21 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.42 | 0.14 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.42 | 0.09 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 0.83 | 0.23 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.42 | 0.13 | U         |
| 75-25-2    | Bromoform                 | ND      | 3.3  | 0.20 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.42 | 0.14 | U         |
| 71-43-2    | Benzene                   | ND      | 0.42 | 0.14 | U         |
| 108-88-3   | Toluene                   | ND      | 0.83 | 0.45 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 0.83 | 0.12 | U         |
| 74-87-3    | Chloromethane             | ND      | 3.3  | 0.78 | U         |
| 74-83-9    | Bromomethane              | ND      | 1.7  | 0.48 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 0.83 | 0.28 | U         |
| 75-00-3    | Chloroethane              | ND      | 1.7  | 0.38 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 0.83 | 0.20 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A15  
 Sample Amount : 7.2 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 11:11  
 Dilution Factor : 1  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 83  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 1.2  | 0.11 | U         |
| 79-01-6     | Trichloroethene             | 0.82    | 0.42 | 0.11 |           |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 1.7  | 0.12 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 1.7  | 0.12 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 1.7  | 0.14 | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 1.7  | 0.17 | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 1.7  | 0.47 | U         |
| 95-47-6     | o-Xylene                    | ND      | 0.83 | 0.24 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 0.83 | 0.14 | U         |
| 100-42-5    | Styrene                     | ND      | 0.83 | 0.16 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 8.3  | 0.76 | U         |
| 67-64-1     | Acetone                     | 64      | 8.3  | 4.0  |           |
| 75-15-0     | Carbon disulfide            | ND      | 8.3  | 3.8  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 8.3  | 1.8  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 8.3  | 1.1  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 8.3  | 0.98 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 0.83 | 0.23 | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 0.83 | 0.14 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 0.83 | 0.12 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 1.7  | 0.10 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 2.5  | 0.83 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 0.83 | 0.09 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 0.83 | 0.09 | U         |
| 91-20-3     | Naphthalene                 | ND      | 3.3  | 0.54 | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 0.83 | 0.14 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-05                   | Date Collected   | : 12/20/19 11:30 |
| Client ID             | : TANK-NORTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/27/19 11:11 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                       | Analyst          | : JC             |
| Lab File ID           | : V11191227A15                  | Instrument ID    | : VOA111         |
| Sample Amount         | : 7.2 g                         | GC Column        | : RTX-VMS        |
| Level                 | : LOW                           | %Solids          | : 83             |
| Extract Volume (MeOH) | : N/A                           | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 1.7 | 0.23 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 1.7 | 0.16 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 1.7 | 0.28 | U         |
| 79-20-9  | Methyl Acetate         | 1.6     | 3.3 | 0.79 | J         |
| 110-82-7 | Cyclohexane            | ND      | 8.3 | 0.45 | U         |
| 76-13-1  | Freon-113              | ND      | 3.3 | 0.58 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 3.3 | 0.50 | U         |

# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-05                   | Date Collected   | : 12/20/19 11:30 |
| Client ID             | : TANK-NORTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/27/19 11:11 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                       | Analyst          | : JC             |
| Lab File ID           | : V11191227A15                  | Instrument ID    | : VOA111         |
| Sample Amount         | :                               | GC Column        | : RTX-VMS        |
| Level                 | :                               | %Solids          | : 83             |
| Extract Volume (MeOH) | : NA                            | Injection Volume | : 1              |

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name           | RT    | EST. CONC. | Qualifier |
|-------------|-------------------------|-------|------------|-----------|
|             | Unknown Alkane          | 12.01 | 6.59       | J         |
| 000112-40-3 | Dodecane                | 13.06 | 10.5       | NJ        |
| 017301-23-4 | Undecane, 2,6-dimethyl- | 13.23 | 6.09       | NJ        |
|             | Unknown                 | 13.59 | 9.91       | J         |
|             | Unknown Aromatic        | 13.66 | 4.34       | J         |
| 000629-50-5 | Tridecane               | 13.94 | 10.7       | NJ        |
|             | Unknown Alkane          | 14.71 | 10.3       | J         |
| 000629-62-9 | Pentadecane             | 15.43 | 5.9        | NJ        |
|             | Unknown Naphthalene     | 15.76 | 5.72       | J         |
|             | Unknown Naphthalene     | 15.88 | 4.64       | J         |
|             | Total TIC Compounds     |       | 74.7J      | J         |

# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A14  
 Sample Amount : 6.4 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 10:45  
 Dilution Factor : 4  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 88  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |     | Qualifier |
|------------|---------------------------|---------|------|-----|-----------|
|            |                           | Results | RL   | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 1000 | 470 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 200  | 30. | U         |
| 67-66-3    | Chloroform                | ND      | 310  | 29. | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 200  | 47. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 200  | 26. | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 200  | 29. | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 200  | 55. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 100  | 40. | U         |
| 108-90-7   | Chlorobenzene             | ND      | 100  | 26. | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 820  | 140 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 200  | 52. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 100  | 34. | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 100  | 22. | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 200  | 56. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 100  | 32. | U         |
| 75-25-2    | Bromoform                 | ND      | 820  | 50. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 100  | 34. | U         |
| 71-43-2    | Benzene                   | ND      | 100  | 34. | U         |
| 108-88-3   | Toluene                   | ND      | 200  | 110 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 200  | 29. | U         |
| 74-87-3    | Chloromethane             | ND      | 820  | 190 | U         |
| 74-83-9    | Bromomethane              | ND      | 410  | 120 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 200  | 68. | U         |
| 75-00-3    | Chloroethane              | ND      | 410  | 92. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 200  | 49. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A14  
 Sample Amount : 6.4 g  
 Level : HIGH  
 Extract Volume (MeOH) : 5 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/27/19 10:45  
 Dilution Factor : 4  
 Analyst : JC  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : 88  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |     | Qualifier |
|-------------|-----------------------------|---------|------|-----|-----------|
|             |                             | Results | RL   | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 310  | 28. | U         |
| 79-01-6     | Trichloroethene             | ND      | 100  | 28. | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 410  | 29. | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 410  | 30. | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 410  | 35. | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 410  | 41. | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 410  | 110 | U         |
| 95-47-6     | o-Xylene                    | ND      | 200  | 60. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 200  | 36. | U         |
| 100-42-5    | Styrene                     | ND      | 200  | 40. | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 2000 | 190 | U         |
| 67-64-1     | Acetone                     | ND      | 2000 | 980 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 2000 | 930 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 2000 | 450 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 2000 | 260 | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 2000 | 240 | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 200  | 57. | U         |
| 104-51-8    | n-Butylbenzene              | 1400    | 200  | 34. |           |
| 135-98-8    | sec-Butylbenzene            | 200     | 200  | 30. |           |
| 98-06-6     | tert-Butylbenzene           | ND      | 410  | 24. | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 610  | 200 | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 200  | 22. | U         |
| 99-87-6     | p-Isopropyltoluene          | 390     | 200  | 22. |           |
| 91-20-3     | Naphthalene                 | 10000   | 820  | 130 |           |
| 103-65-1    | n-Propylbenzene             | 47      | 200  | 35. | J         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-06D                  | Date Collected   | : 12/20/19 00:00 |
| Client ID             | : DUP-01-122019                 | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/27/19 10:45 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 4              |
| Analytical Method     | : 1,8260C                       | Analyst          | : JC             |
| Lab File ID           | : V11191227A14                  | Instrument ID    | : VOA111         |
| Sample Amount         | : 6.4 g                         | GC Column        | : RTX-VMS        |
| Level                 | : HIGH                          | %Solids          | : 88             |
| Extract Volume (MeOH) | : 5 ml                          | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 410  | 56. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | 250     | 410  | 39. | J         |
| 95-63-6  | 1,2,4-Trimethylbenzene | 1800    | 410  | 68. |           |
| 79-20-9  | Methyl Acetate         | ND      | 820  | 190 | U         |
| 110-82-7 | Cyclohexane            | ND      | 2000 | 110 | U         |
| 76-13-1  | Freon-113              | ND      | 820  | 140 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 820  | 120 | U         |



# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                                 |                  |                  |
|-----------------------|---------------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID                | : L1961284-06D                  | Date Collected   | : 12/20/19 00:00 |
| Client ID             | : DUP-01-122019                 | Date Received    | : 12/20/19       |
| Sample Location       | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/27/19 10:45 |
| Sample Matrix         | : SOIL                          | Dilution Factor  | : 4              |
| Analytical Method     | : 1,8260C                       | Analyst          | : JC             |
| Lab File ID           | : V11191227A14                  | Instrument ID    | : VOA111         |
| Sample Amount         | :                               | GC Column        | : RTX-VMS        |
| Level                 | :                               | %Solids          | : 88             |
| Extract Volume (MeOH) | : NA                            | Injection Volume | : 0.025 g        |

Number TICS found: 11

Concentration Units: ug/Kg

| CAS Number  | Compound Name           | RT    | EST. CONC. | Qualifier |
|-------------|-------------------------|-------|------------|-----------|
|             | Unknown Alkane          | 12.37 | 10800      | J         |
|             | Unknown Cyclohexane     | 12.58 | 10700      | J         |
| 000112-40-3 | Dodecane                | 13.07 | 48000      | NJ        |
| 017301-23-4 | Undecane, 2,6-dimethyl- | 13.23 | 26200      | NJ        |
|             | Unknown                 | 13.31 | 11300      | J         |
|             | Unknown Benzene         | 13.59 | 36300      | J         |
|             | Unknown Aromatic        | 13.66 | 17800      | J         |
|             | Unknown Naphthalene     | 14.26 | 15600      | J         |
|             | Unknown Aromatic        | 14.88 | 24400      | J         |
|             | Unknown Aromatic        | 15.01 | 11300      | J         |
|             | Total TIC Compounds     |       | 212000J    | J         |

# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325623-5  
 Client ID : WG1325623-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A05  
 Sample Amount : 5.0 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/28/19 09:16  
 Dilution Factor : 1  
 Analyst : MKS  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 5.0  | 2.3  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 1.0  | 0.14 | U         |
| 67-66-3    | Chloroform                | ND      | 1.5  | 0.14 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 1.0  | 0.23 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 1.0  | 0.12 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 1.0  | 0.14 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 1.0  | 0.27 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.50 | 0.20 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.50 | 0.13 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 4.0  | 0.70 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 1.0  | 0.26 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.50 | 0.17 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.50 | 0.11 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 1.0  | 0.27 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.50 | 0.16 | U         |
| 75-25-2    | Bromoform                 | ND      | 4.0  | 0.25 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.50 | 0.17 | U         |
| 71-43-2    | Benzene                   | ND      | 0.50 | 0.17 | U         |
| 108-88-3   | Toluene                   | ND      | 1.0  | 0.54 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 1.0  | 0.14 | U         |
| 74-87-3    | Chloromethane             | 1.3     | 4.0  | 0.93 | J         |
| 74-83-9    | Bromomethane              | 12      | 2.0  | 0.58 |           |
| 75-01-4    | Vinyl chloride            | ND      | 1.0  | 0.34 | U         |
| 75-00-3    | Chloroethane              | ND      | 2.0  | 0.45 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 1.0  | 0.24 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325623-5  
 Client ID : WG1325623-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : VC191228A05  
 Sample Amount : 5.0 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/28/19 09:16  
 Dilution Factor : 1  
 Analyst : MKS  
 Instrument ID : CHARLIE  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 1.5  | 0.14 | U         |
| 79-01-6     | Trichloroethene             | ND      | 0.50 | 0.14 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 2.0  | 0.14 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 2.0  | 0.15 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 2.0  | 0.17 | U         |
| 1634-04-4   | Methyl tert butyl ether     | ND      | 2.0  | 0.20 | U         |
| 179601-23-1 | p/m-Xylene                  | ND      | 2.0  | 0.56 | U         |
| 95-47-6     | o-Xylene                    | ND      | 1.0  | 0.29 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 1.0  | 0.18 | U         |
| 100-42-5    | Styrene                     | ND      | 1.0  | 0.20 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 10   | 0.92 | U         |
| 67-64-1     | Acetone                     | ND      | 10   | 4.8  | U         |
| 75-15-0     | Carbon disulfide            | ND      | 10   | 4.6  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 10   | 2.2  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 10   | 1.3  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 10   | 1.2  | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 1.0  | 0.28 | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 1.0  | 0.17 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 1.0  | 0.15 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 2.0  | 0.12 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 3.0  | 1.0  | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 1.0  | 0.11 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 1.0  | 0.11 | U         |
| 91-20-3     | Naphthalene                 | ND      | 4.0  | 0.65 | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 1.0  | 0.17 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325623-5               | Date Collected   | : NA             |
| Client ID             | : WG1325623-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/28/19 09:16 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MKS            |
| Lab File ID           | : VC191228A05               | Instrument ID    | : CHARLIE        |
| Sample Amount         | : 5.0 g                     | GC Column        | : RTX-VMS        |
| Level                 | : LOW                       | %Solids          | : NA             |
| Extract Volume (MeOH) | : N/A                       | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 2.0 | 0.27 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 2.0 | 0.19 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 2.0 | 0.33 | U         |
| 79-20-9  | Methyl Acetate         | ND      | 4.0 | 0.95 | U         |
| 110-82-7 | Cyclohexane            | ND      | 10  | 0.54 | U         |
| 76-13-1  | Freon-113              | ND      | 4.0 | 0.69 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 4.0 | 0.60 | U         |



# Tentatively Identified Compounds

## Form 1

### Volatile Organics by EPA 5035

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325623-5               | Date Collected   | : NA             |
| Client ID             | : WG1325623-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/28/19 09:16 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MKS            |
| Lab File ID           | : VC191228A05               | Instrument ID    | : CHARLIE        |
| Sample Amount         | :                           | GC Column        | : RTX-VMS        |
| Level                 | :                           | %Solids          | : NA             |
| Extract Volume (MeOH) | : NA                        | Injection Volume | : 1              |

Number TICS found: 5

Concentration Units: ug/Kg

| CAS Number          | Compound Name                 | RT    | EST. CONC. | Qualifier |
|---------------------|-------------------------------|-------|------------|-----------|
| 000541-05-9         | Cyclotrisiloxane, hexamethyl- | 8.18  | 4.97       | NJ        |
|                     | Unknown                       | 11.13 | 3.91       | J         |
|                     | Unknown                       | 13.06 | 4.77       | J         |
|                     | Unknown                       | 14.60 | 2.15       | J         |
| Total TIC Compounds |                               |       | 15.8J      | J         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325768-5  
 Client ID : WG1325768-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A05  
 Sample Amount : 5.0 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/27/19 07:00  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |      |      | Qualifier |
|------------|---------------------------|---------|------|------|-----------|
|            |                           | Results | RL   | MDL  |           |
| 75-09-2    | Methylene chloride        | ND      | 5.0  | 2.3  | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 1.0  | 0.14 | U         |
| 67-66-3    | Chloroform                | ND      | 1.5  | 0.14 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 1.0  | 0.23 | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 1.0  | 0.12 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 1.0  | 0.14 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 1.0  | 0.27 | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 0.50 | 0.20 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 0.50 | 0.13 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 4.0  | 0.70 | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 1.0  | 0.26 | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 0.50 | 0.17 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 0.50 | 0.11 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 1.0  | 0.27 | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 0.50 | 0.16 | U         |
| 75-25-2    | Bromoform                 | ND      | 4.0  | 0.25 | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 0.50 | 0.17 | U         |
| 71-43-2    | Benzene                   | ND      | 0.50 | 0.17 | U         |
| 108-88-3   | Toluene                   | ND      | 1.0  | 0.54 | U         |
| 100-41-4   | Ethylbenzene              | ND      | 1.0  | 0.14 | U         |
| 74-87-3    | Chloromethane             | ND      | 4.0  | 0.93 | U         |
| 74-83-9    | Bromomethane              | ND      | 2.0  | 0.58 | U         |
| 75-01-4    | Vinyl chloride            | ND      | 1.0  | 0.34 | U         |
| 75-00-3    | Chloroethane              | ND      | 2.0  | 0.45 | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 1.0  | 0.24 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325768-5  
 Client ID : WG1325768-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A05  
 Sample Amount : 5.0 g  
 Level : LOW  
 Extract Volume (MeOH) : N/A

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/27/19 07:00  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |      |      | Qualifier |
|-------------|-----------------------------|---------|------|------|-----------|
|             |                             | Results | RL   | MDL  |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 1.5  | 0.14 | U         |
| 79-01-6     | Trichloroethene             | ND      | 0.50 | 0.14 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 2.0  | 0.14 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 2.0  | 0.15 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 2.0  | 0.17 | U         |
| 1634-04-4   | Methyl tert butyl ether     | 0.21    | 2.0  | 0.20 | J         |
| 179601-23-1 | p/m-Xylene                  | ND      | 2.0  | 0.56 | U         |
| 95-47-6     | o-Xylene                    | ND      | 1.0  | 0.29 | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 1.0  | 0.18 | U         |
| 100-42-5    | Styrene                     | ND      | 1.0  | 0.20 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 10   | 0.92 | U         |
| 67-64-1     | Acetone                     | ND      | 10   | 4.8  | U         |
| 75-15-0     | Carbon disulfide            | ND      | 10   | 4.6  | U         |
| 78-93-3     | 2-Butanone                  | ND      | 10   | 2.2  | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 10   | 1.3  | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 10   | 1.2  | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 1.0  | 0.28 | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 1.0  | 0.17 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 1.0  | 0.15 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 2.0  | 0.12 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 3.0  | 1.0  | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 1.0  | 0.11 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 1.0  | 0.11 | U         |
| 91-20-3     | Naphthalene                 | ND      | 4.0  | 0.65 | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 1.0  | 0.17 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325768-5               | Date Collected   | : NA             |
| Client ID             | : WG1325768-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/27/19 07:00 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191227A05              | Instrument ID    | : VOA111         |
| Sample Amount         | : 5.0 g                     | GC Column        | : RTX-VMS        |
| Level                 | : LOW                       | %Solids          | : NA             |
| Extract Volume (MeOH) | : N/A                       | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |      | Qualifier |
|----------|------------------------|---------|-----|------|-----------|
|          |                        | Results | RL  | MDL  |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 2.0 | 0.27 | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 2.0 | 0.19 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 2.0 | 0.33 | U         |
| 79-20-9  | Methyl Acetate         | ND      | 4.0 | 0.95 | U         |
| 110-82-7 | Cyclohexane            | ND      | 10  | 0.54 | U         |
| 76-13-1  | Freon-113              | ND      | 4.0 | 0.69 | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 4.0 | 0.60 | U         |





**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325768-5               | Date Collected   | : NA             |
| Client ID             | : WG1325768-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/27/19 07:00 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191227A05              | Instrument ID    | : VOA111         |
| Sample Amount         | :                           | GC Column        | : RTX-VMS        |
| Level                 | :                           | %Solids          | : NA             |
| Extract Volume (MeOH) | : NA                        | Injection Volume | : 1              |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325770-5  
 Client ID : WG1325770-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/27/19 07:00  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 250 | 110 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 50  | 7.2 | U         |
| 67-66-3    | Chloroform                | ND      | 75  | 7.0 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 50  | 12. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 50  | 6.2 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 50  | 7.0 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 50  | 13. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 25  | 9.8 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 25  | 6.4 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 200 | 35. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 50  | 13. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 25  | 8.4 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 25  | 5.4 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 50  | 14. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 25  | 7.9 | U         |
| 75-25-2    | Bromoform                 | ND      | 200 | 12. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 25  | 8.3 | U         |
| 71-43-2    | Benzene                   | ND      | 25  | 8.3 | U         |
| 108-88-3   | Toluene                   | ND      | 50  | 27. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 50  | 7.0 | U         |
| 74-87-3    | Chloromethane             | ND      | 200 | 47. | U         |
| 74-83-9    | Bromomethane              | ND      | 100 | 29. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 50  | 17. | U         |
| 75-00-3    | Chloroethane              | ND      | 100 | 23. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 50  | 12. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325770-5  
 Client ID : WG1325770-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191227A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/27/19 07:00  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |     |     | Qualifier |
|-------------|-----------------------------|---------|-----|-----|-----------|
|             |                             | Results | RL  | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 75  | 6.8 | U         |
| 79-01-6     | Trichloroethene             | ND      | 25  | 6.8 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 100 | 7.2 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 100 | 7.4 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 100 | 8.6 | U         |
| 1634-04-4   | Methyl tert butyl ether     | 10      | 100 | 10. | J         |
| 179601-23-1 | p/m-Xylene                  | ND      | 100 | 28. | U         |
| 95-47-6     | o-Xylene                    | ND      | 50  | 14. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 50  | 8.8 | U         |
| 100-42-5    | Styrene                     | ND      | 50  | 9.8 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 500 | 46. | U         |
| 67-64-1     | Acetone                     | ND      | 500 | 240 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 500 | 230 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 500 | 110 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 500 | 64. | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 500 | 59. | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 50  | 14. | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 50  | 8.4 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 50  | 7.3 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 100 | 5.9 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 150 | 50. | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 50  | 5.4 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 50  | 5.4 | U         |
| 91-20-3     | Naphthalene                 | ND      | 200 | 32. | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 50  | 8.6 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325770-5               | Date Collected   | : NA             |
| Client ID             | : WG1325770-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/27/19 07:00 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191227A05              | Instrument ID    | : VOA111         |
| Sample Amount         | : 15.0 g                    | GC Column        | : RTX-VMS        |
| Level                 | : HIGH                      | %Solids          | : NA             |
| Extract Volume (MeOH) | : 15 ml                     | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 100 | 14. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 100 | 9.6 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 100 | 17. | U         |
| 79-20-9  | Methyl Acetate         | ND      | 200 | 48. | U         |
| 110-82-7 | Cyclohexane            | ND      | 500 | 27. | U         |
| 76-13-1  | Freon-113              | ND      | 200 | 35. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 200 | 30. | U         |



**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325770-5               | Date Collected   | : NA             |
| Client ID             | : WG1325770-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/27/19 07:00 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191227A05              | Instrument ID    | : VOA111         |
| Sample Amount         | :                           | GC Column        | : RTX-VMS        |
| Level                 | :                           | %Solids          | : NA             |
| Extract Volume (MeOH) | : NA                        | Injection Volume | : 0.1 g          |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325794-5  
 Client ID : WG1325794-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/30/19 07:20  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.    | Parameter                 | ug/Kg   |     |     | Qualifier |
|------------|---------------------------|---------|-----|-----|-----------|
|            |                           | Results | RL  | MDL |           |
| 75-09-2    | Methylene chloride        | ND      | 250 | 110 | U         |
| 75-34-3    | 1,1-Dichloroethane        | ND      | 50  | 7.2 | U         |
| 67-66-3    | Chloroform                | ND      | 75  | 7.0 | U         |
| 56-23-5    | Carbon tetrachloride      | ND      | 50  | 12. | U         |
| 78-87-5    | 1,2-Dichloropropane       | ND      | 50  | 6.2 | U         |
| 124-48-1   | Dibromochloromethane      | ND      | 50  | 7.0 | U         |
| 79-00-5    | 1,1,2-Trichloroethane     | ND      | 50  | 13. | U         |
| 127-18-4   | Tetrachloroethene         | ND      | 25  | 9.8 | U         |
| 108-90-7   | Chlorobenzene             | ND      | 25  | 6.4 | U         |
| 75-69-4    | Trichlorofluoromethane    | ND      | 200 | 35. | U         |
| 107-06-2   | 1,2-Dichloroethane        | ND      | 50  | 13. | U         |
| 71-55-6    | 1,1,1-Trichloroethane     | ND      | 25  | 8.4 | U         |
| 75-27-4    | Bromodichloromethane      | ND      | 25  | 5.4 | U         |
| 10061-02-6 | trans-1,3-Dichloropropene | ND      | 50  | 14. | U         |
| 10061-01-5 | cis-1,3-Dichloropropene   | ND      | 25  | 7.9 | U         |
| 75-25-2    | Bromoform                 | ND      | 200 | 12. | U         |
| 79-34-5    | 1,1,2,2-Tetrachloroethane | ND      | 25  | 8.3 | U         |
| 71-43-2    | Benzene                   | ND      | 25  | 8.3 | U         |
| 108-88-3   | Toluene                   | ND      | 50  | 27. | U         |
| 100-41-4   | Ethylbenzene              | ND      | 50  | 7.0 | U         |
| 74-87-3    | Chloromethane             | ND      | 200 | 47. | U         |
| 74-83-9    | Bromomethane              | ND      | 100 | 29. | U         |
| 75-01-4    | Vinyl chloride            | ND      | 50  | 17. | U         |
| 75-00-3    | Chloroethane              | ND      | 100 | 23. | U         |
| 75-35-4    | 1,1-Dichloroethene        | ND      | 50  | 12. | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1325794-5  
 Client ID : WG1325794-5BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8260C  
 Lab File ID : V11191230A05  
 Sample Amount : 15.0 g  
 Level : HIGH  
 Extract Volume (MeOH) : 15 ml

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/30/19 07:20  
 Dilution Factor : 1  
 Analyst : MV  
 Instrument ID : VOA111  
 GC Column : RTX-VMS  
 %Solids : NA  
 Injection Volume : N/A

| CAS NO.     | Parameter                   | ug/Kg   |     |     | Qualifier |
|-------------|-----------------------------|---------|-----|-----|-----------|
|             |                             | Results | RL  | MDL |           |
| 156-60-5    | trans-1,2-Dichloroethene    | ND      | 75  | 6.8 | U         |
| 79-01-6     | Trichloroethene             | ND      | 25  | 6.8 | U         |
| 95-50-1     | 1,2-Dichlorobenzene         | ND      | 100 | 7.2 | U         |
| 541-73-1    | 1,3-Dichlorobenzene         | ND      | 100 | 7.4 | U         |
| 106-46-7    | 1,4-Dichlorobenzene         | ND      | 100 | 8.6 | U         |
| 1634-04-4   | Methyl tert butyl ether     | 13      | 100 | 10. | J         |
| 179601-23-1 | p/m-Xylene                  | ND      | 100 | 28. | U         |
| 95-47-6     | o-Xylene                    | ND      | 50  | 14. | U         |
| 156-59-2    | cis-1,2-Dichloroethene      | ND      | 50  | 8.8 | U         |
| 100-42-5    | Styrene                     | ND      | 50  | 9.8 | U         |
| 75-71-8     | Dichlorodifluoromethane     | ND      | 500 | 46. | U         |
| 67-64-1     | Acetone                     | ND      | 500 | 240 | U         |
| 75-15-0     | Carbon disulfide            | ND      | 500 | 230 | U         |
| 78-93-3     | 2-Butanone                  | ND      | 500 | 110 | U         |
| 108-10-1    | 4-Methyl-2-pentanone        | ND      | 500 | 64. | U         |
| 591-78-6    | 2-Hexanone                  | ND      | 500 | 59. | U         |
| 106-93-4    | 1,2-Dibromoethane           | ND      | 50  | 14. | U         |
| 104-51-8    | n-Butylbenzene              | ND      | 50  | 8.4 | U         |
| 135-98-8    | sec-Butylbenzene            | ND      | 50  | 7.3 | U         |
| 98-06-6     | tert-Butylbenzene           | ND      | 100 | 5.9 | U         |
| 96-12-8     | 1,2-Dibromo-3-chloropropane | ND      | 150 | 50. | U         |
| 98-82-8     | Isopropylbenzene            | ND      | 50  | 5.4 | U         |
| 99-87-6     | p-Isopropyltoluene          | ND      | 50  | 5.4 | U         |
| 91-20-3     | Naphthalene                 | ND      | 200 | 32. | U         |
| 103-65-1    | n-Propylbenzene             | ND      | 50  | 8.6 | U         |



# Results Summary

## Form 1

### Volatile Organics by EPA 5035

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325794-5               | Date Collected   | : NA             |
| Client ID             | : WG1325794-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/30/19 07:20 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191230A05              | Instrument ID    | : VOA111         |
| Sample Amount         | : 15.0 g                    | GC Column        | : RTX-VMS        |
| Level                 | : HIGH                      | %Solids          | : NA             |
| Extract Volume (MeOH) | : 15 ml                     | Injection Volume | : N/A            |

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND      | 100 | 14. | U         |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND      | 100 | 9.6 | U         |
| 95-63-6  | 1,2,4-Trimethylbenzene | ND      | 100 | 17. | U         |
| 79-20-9  | Methyl Acetate         | ND      | 200 | 48. | U         |
| 110-82-7 | Cyclohexane            | ND      | 500 | 27. | U         |
| 76-13-1  | Freon-113              | ND      | 200 | 35. | U         |
| 108-87-2 | Methyl cyclohexane     | ND      | 200 | 30. | U         |





**Tentatively Identified Compounds**  
**Form 1**  
**Volatile Organics by EPA 5035**

|                       |                             |                  |                  |
|-----------------------|-----------------------------|------------------|------------------|
| Client                | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name          | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID                | : WG1325794-5               | Date Collected   | : NA             |
| Client ID             | : WG1325794-5BLANK          | Date Received    | : NA             |
| Sample Location       | :                           | Date Analyzed    | : 12/30/19 07:20 |
| Sample Matrix         | : SOIL                      | Dilution Factor  | : 1              |
| Analytical Method     | : 1,8260C                   | Analyst          | : MV             |
| Lab File ID           | : V11191230A05              | Instrument ID    | : VOA111         |
| Sample Amount         | :                           | GC Column        | : RTX-VMS        |
| Level                 | :                           | %Solids          | : NA             |
| Extract Volume (MeOH) | : NA                        | Injection Volume | : 0.1 g          |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 30 11:57:08 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 241615   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 88.54%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 210360   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 94.96%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 113874   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 94.62%  |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 62311    | 19.374 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 96.87%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 70342    | 20.468 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 102.34% |          |
| 60) Toluene-d8               | 7.106          | 98   | 276954   | 18.880 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 94.40%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 117161   | 19.947 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.73%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0        |        | N.D.    |          |
| 3) Chloromethane             | 1.658          | 50   | 306      |        | N.D.    |          |
| 4) Vinyl chloride            | 0.000          |      | 0        |        | N.D.    |          |
| 5) Bromomethane              | 0.000          |      | 0        |        | N.D.    |          |
| 6) Chloroethane              | 0.000          |      | 0        |        | N.D.    |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0        |        | N.D.    |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0        |        | N.D.    |          |
| 11) Carbon disulfide         | 0.000          |      | 0        |        | N.D.    | d        |
| 12) Freon-113                | 0.000          |      | 0        |        | N.D.    |          |
| 15) Methylene chloride       | 3.100          | 84   | 523      | 0.151  | ug/L    | 87       |
| 17) Acetone                  | 0.000          |      | 0        |        | N.D.    | d        |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0        |        | N.D.    |          |
| 19) Methyl acetate           | 0.000          |      | 0        |        | N.D.    | d        |
| 20) Methyl tert-butyl ether  | 0.000          |      | 0        |        | N.D.    |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0        |        | N.D.    |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0        |        | N.D.    |          |
| 31) Cyclohexane              | 0.000          |      | 0        |        | N.D.    |          |
| 32) Chloroform               | 0.000          |      | 0        |        | N.D.    |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0        |        | N.D.    |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0        |        | N.D.    |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 30 11:57:08 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 39)  | 2-Butanone                | 0.000  |      | 0        | N.D.   |        |          |
| 41)  | Benzene                   | 5.056  | 78   | 97       | N.D.   |        |          |
| 44)  | 1,2-Dichloroethane        | 0.000  |      | 0        | N.D.   |        |          |
| 47)  | Methyl cyclohexane        | 0.000  |      | 0        | N.D.   |        |          |
| 48)  | Trichloroethene           | 5.627  | 95   | 1877     | 0.627  | ug/L   | 89       |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        | N.D.   |        |          |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        | N.D.   |        |          |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        | N.D.   |        |          |
| 61)  | Toluene                   | 0.000  |      | 0        | N.D.   |        |          |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        | N.D.   |        |          |
| 63)  | Tetrachloroethene         | 7.604  | 166  | 1087     | 0.341  | ug/L   | 90       |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        | N.D.   |        |          |
| 68)  | 1,1,2-Trichloroethane     | 7.835  | 83   | 236      | N.D.   |        |          |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        | N.D.   |        |          |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        | N.D.   |        |          |
| 72)  | 2-Hexanone                | 0.000  |      | 0        | N.D.   | d      |          |
| 73)  | Chlorobenzene             | 0.000  |      | 0        | N.D.   |        |          |
| 74)  | Ethylbenzene              | 8.915  | 91   | 548      | N.D.   |        |          |
| 76)  | p/m Xylene                | 9.166  | 106  | 52       | N.D.   |        |          |
| 77)  | o Xylene                  | 9.722  | 106  | 53       | N.D.   |        |          |
| 78)  | Styrene                   | 0.000  |      | 0        | N.D.   |        |          |
| 80)  | Bromoform                 | 0.000  |      | 0        | N.D.   |        |          |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 829      | N.D.   |        |          |
| 85)  | n-Propylbenzene           | 10.650 | 91   | 4858     | 0.258  | ug/L # | 89       |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        | N.D.   | d      |          |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 23862    | 1.894  | ug/L   | 96       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 929      | N.D.   |        |          |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 132703   | 10.732 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 18579    | 1.178  | ug/L   | 91       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 23743    | 1.879  | ug/L   | 92       |
| 100) | 1,3-Dichlorobenzene       | 11.667 | 146  | 50       | N.D.   |        |          |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 54       | N.D.   |        |          |
| 103) | n-Butylbenzene            | 12.061 | 91   | 55561M1  | 4.199  | ug/L   |          |
| 104) | 1,2-Dichlorobenzene       | 0.000  |      | 0        | N.D.   |        |          |
| 106) | 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.   | d      |          |
| 109) | 1,2,4-Trichlorobenzene    | 0.000  |      | 0        | N.D.   | d      |          |
| 110) | Naphthalene               | 13.938 | 128  | 236654   | 26.906 | ug/L   | 100      |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 30 11:57:08 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

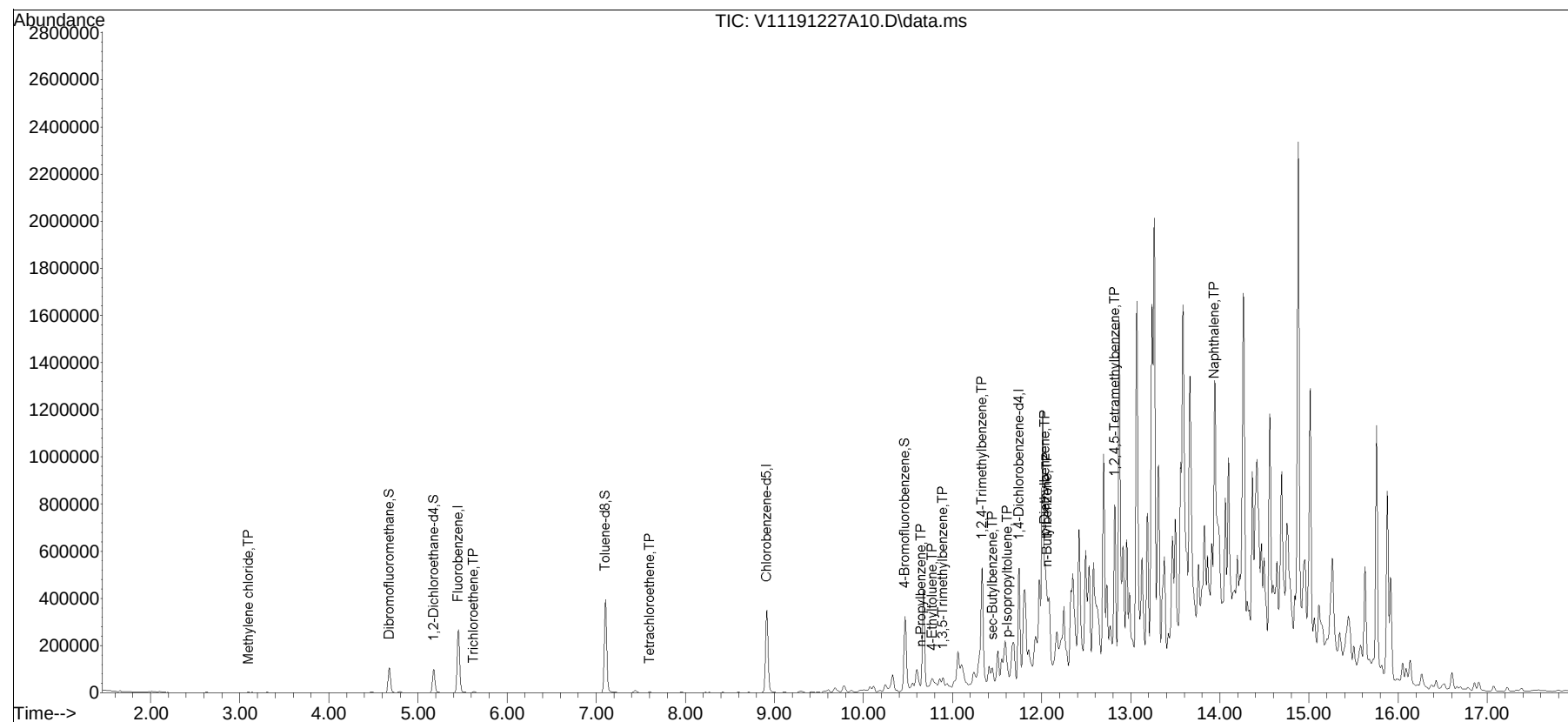
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

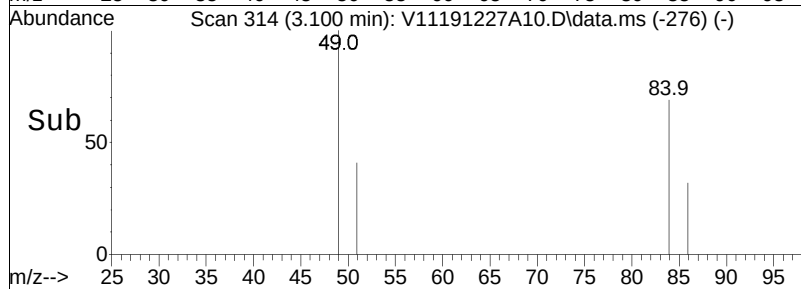
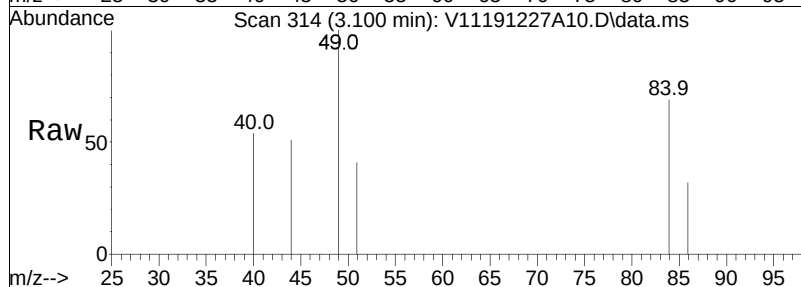
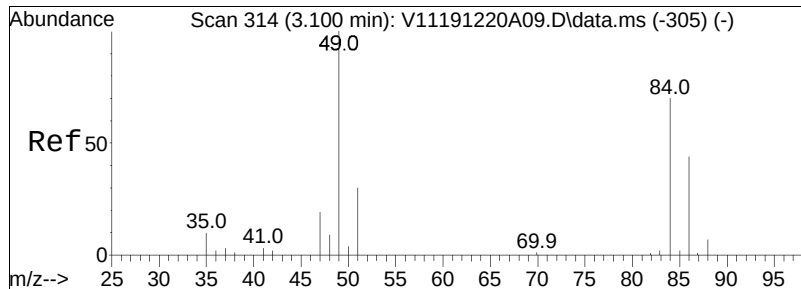
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D,31H,6.29,5,0.025,,a  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 30 11:57:08 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•





#15

Methylene chloride

Concen: 0.15 ug/L

RT: 3.100 min Scan# 314

Delta R.T. 0.000 min

Lab File: V11191227A10.D

Acq: 27 Dec 2019 09:05 am

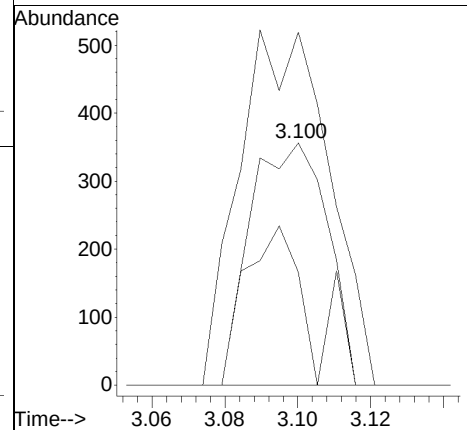
Tgt Ion: 84 Resp: 523

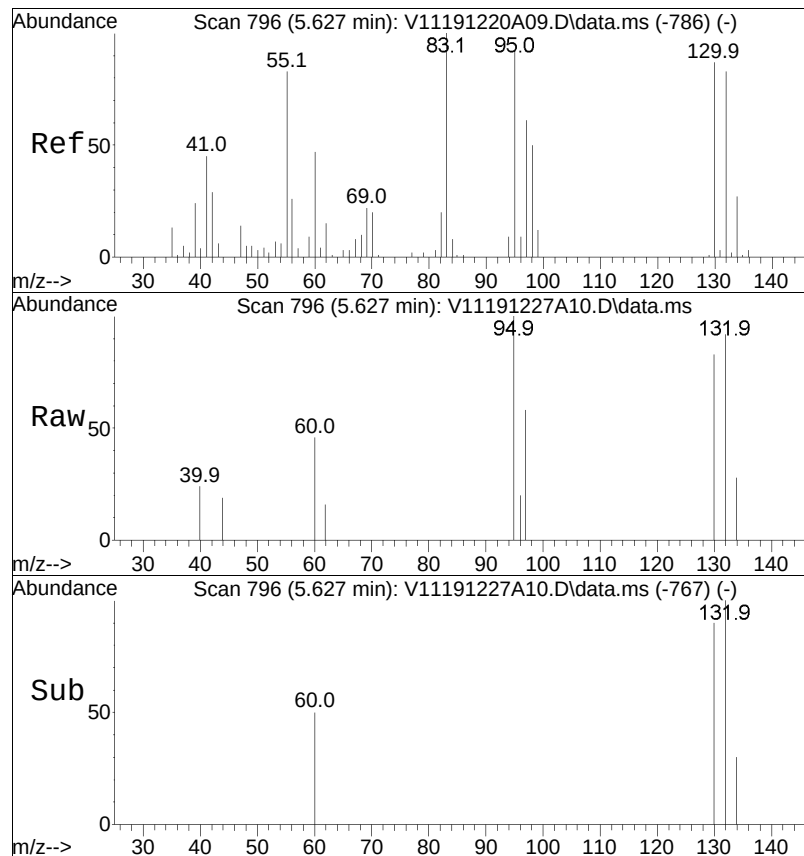
Ion Ratio Lower Upper

84 100

86 55.3 41.1 85.3

49 170.6 124.2 258.0





#48

Trichloroethene

Concen: 0.63 ug/L

RT: 5.627 min Scan# 796

Delta R.T. 0.000 min

Lab File: V11191227A10.D

Acq: 27 Dec 2019 09:05 am

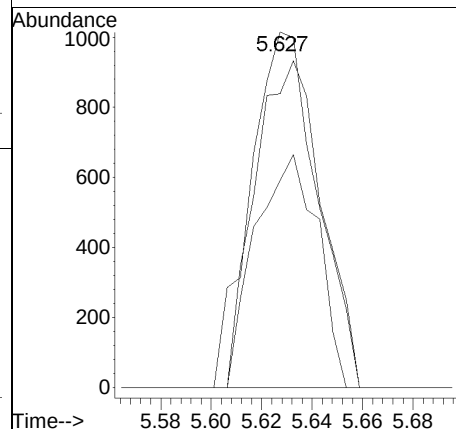
Tgt Ion: 95 Resp: 1877

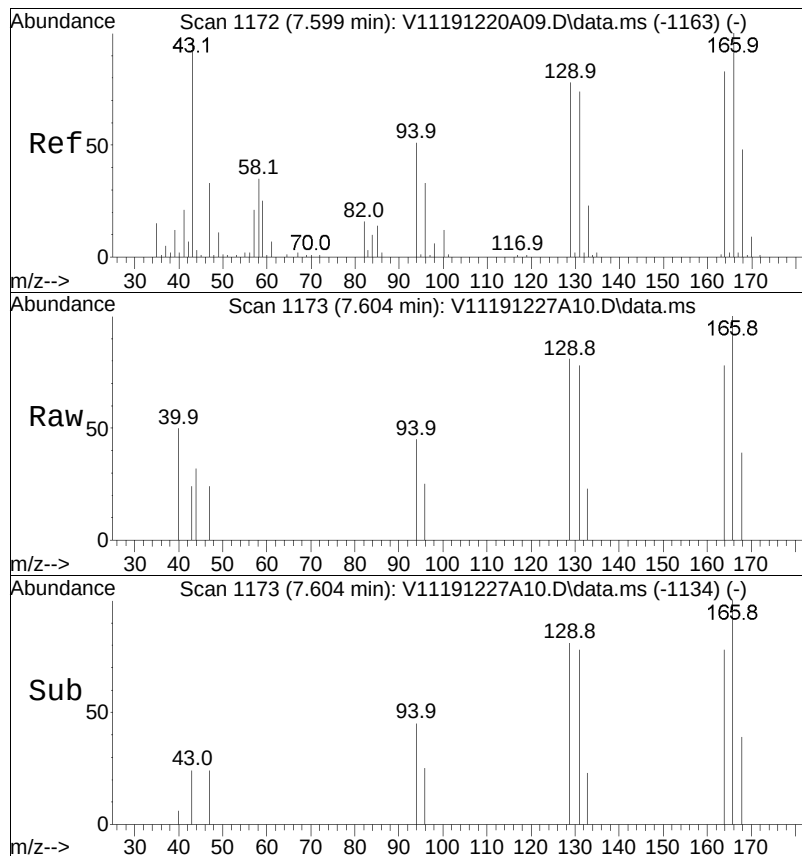
Ion Ratio Lower Upper

95 100

97 60.8 54.3 81.5

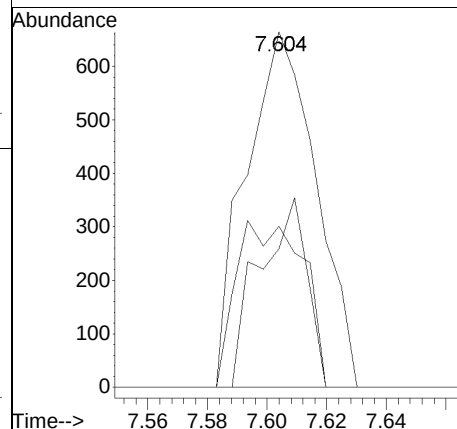
130 92.2 84.6 126.8



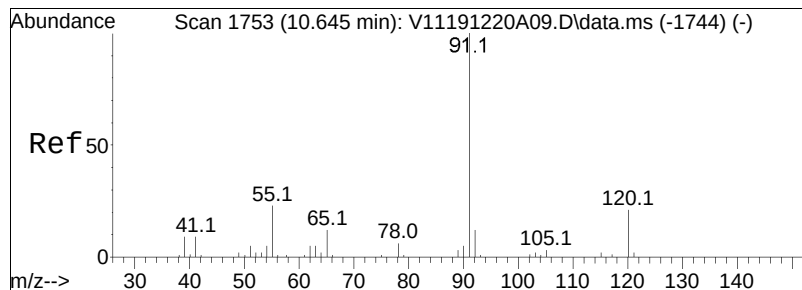


#63  
 Tetrachloroethene  
 Concen: 0.34 ug/L  
 RT: 7.604 min Scan# 1173  
 Delta R.T. 0.005 min  
 Lab File: V11191227A10.D  
 Acq: 27 Dec 2019 09:05 am

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 166   | Resp: | 1087 |
| Ion Ratio | Lower | Upper |      |
| 166       | 100   |       |      |
| 168       | 36.2  | 28.2  | 68.2 |
| 94        | 44.4  | 26.3  | 66.3 |

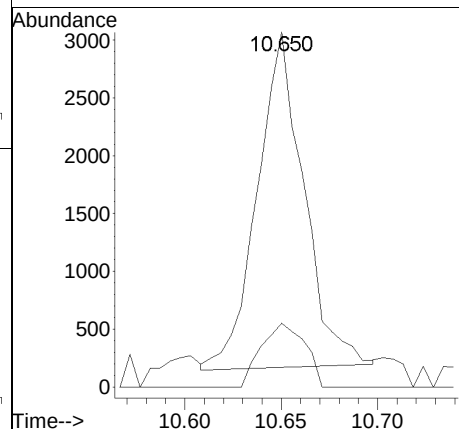
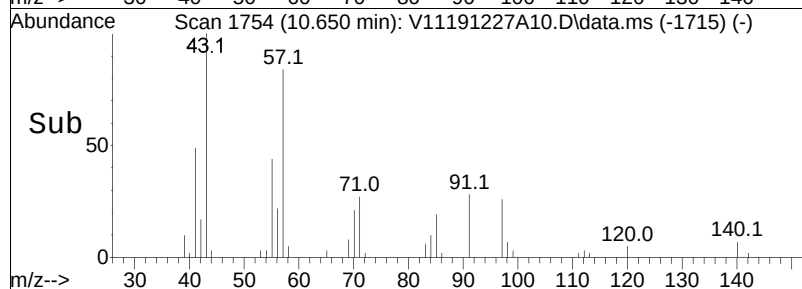
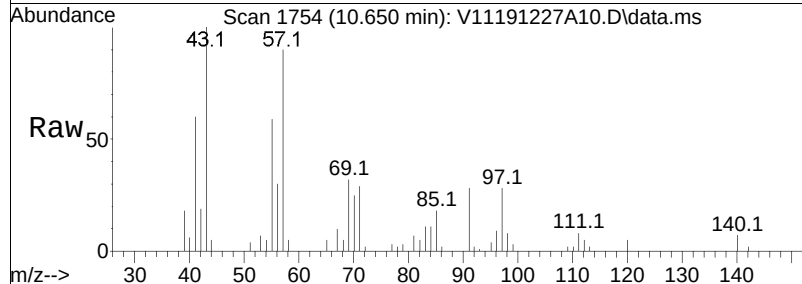


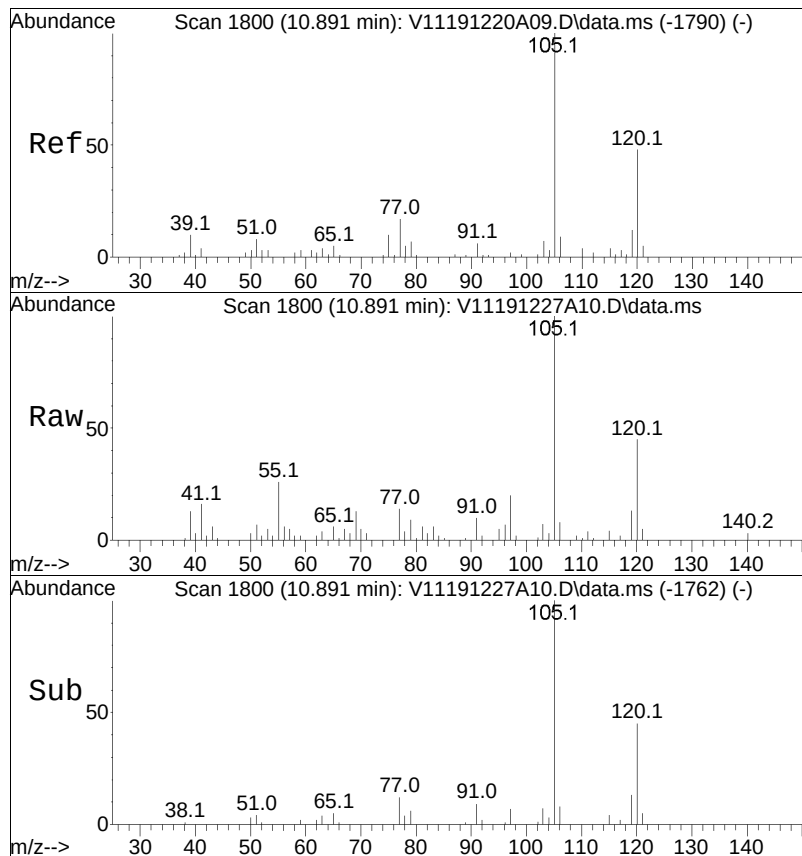




#85  
 n-Propylbenzene  
 Concen: 0.26 ug/L  
 RT: 10.650 min Scan# 1754  
 Delta R.T. 0.005 min  
 Lab File: V11191227A10.D  
 Acq: 27 Dec 2019 09:05 am

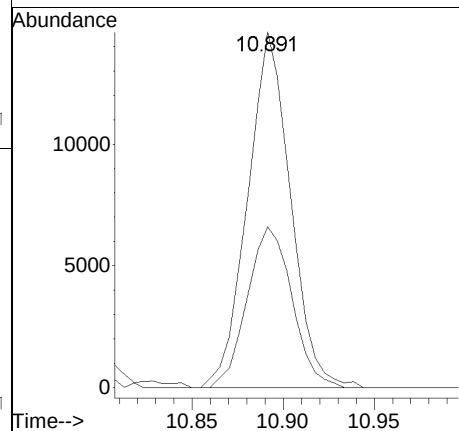
Tgt Ion: 91 Resp: 4858  
 Ion Ratio Lower Upper  
 91 100  
 120 18.1 18.6 27.8#

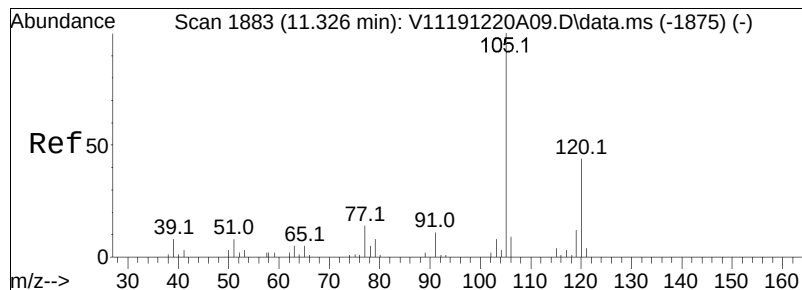




#90  
 1,3,5-Trimethylbenzene  
 Concen: 1.89 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A10.D  
 Acq: 27 Dec 2019 09:05 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.1  | 39.8  | 59.8  |





#97

1,2,4-Trimethylbenzene

Concen: 10.73 ug/L

RT: 11.332 min Scan# 1884

Delta R.T. 0.006 min

Lab File: V11191227A10.D

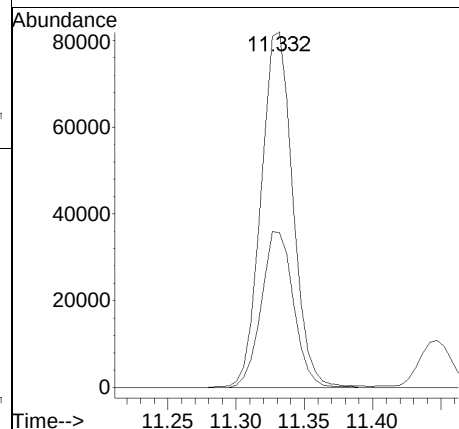
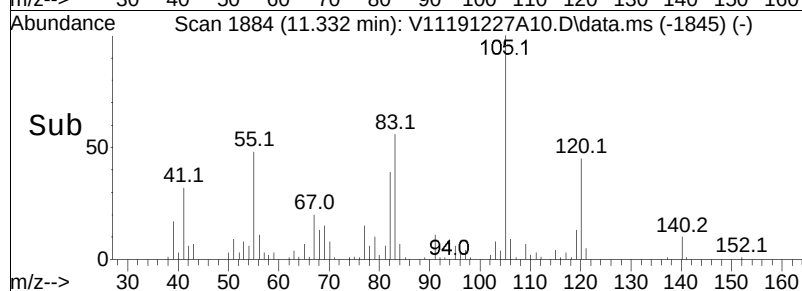
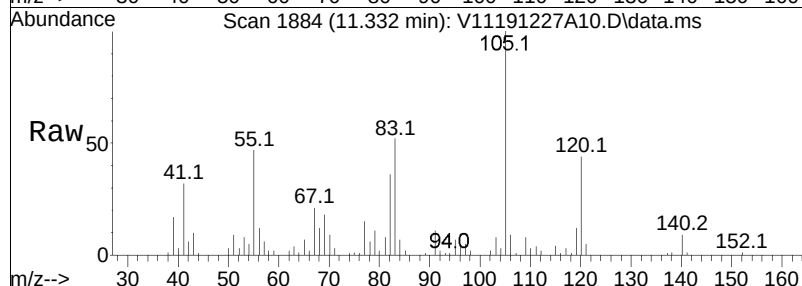
Acq: 27 Dec 2019 09:05 am

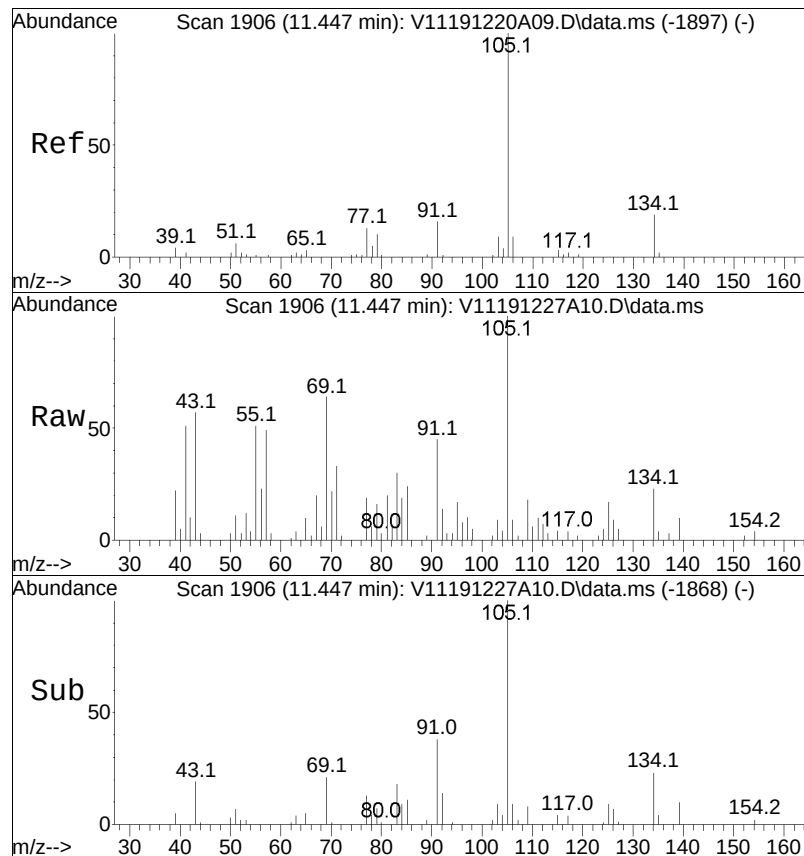
Tgt Ion:105 Resp: 132703

Ion Ratio Lower Upper

105 100

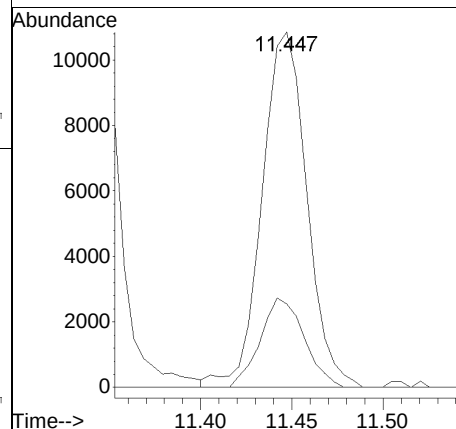
120 44.4 37.4 56.0

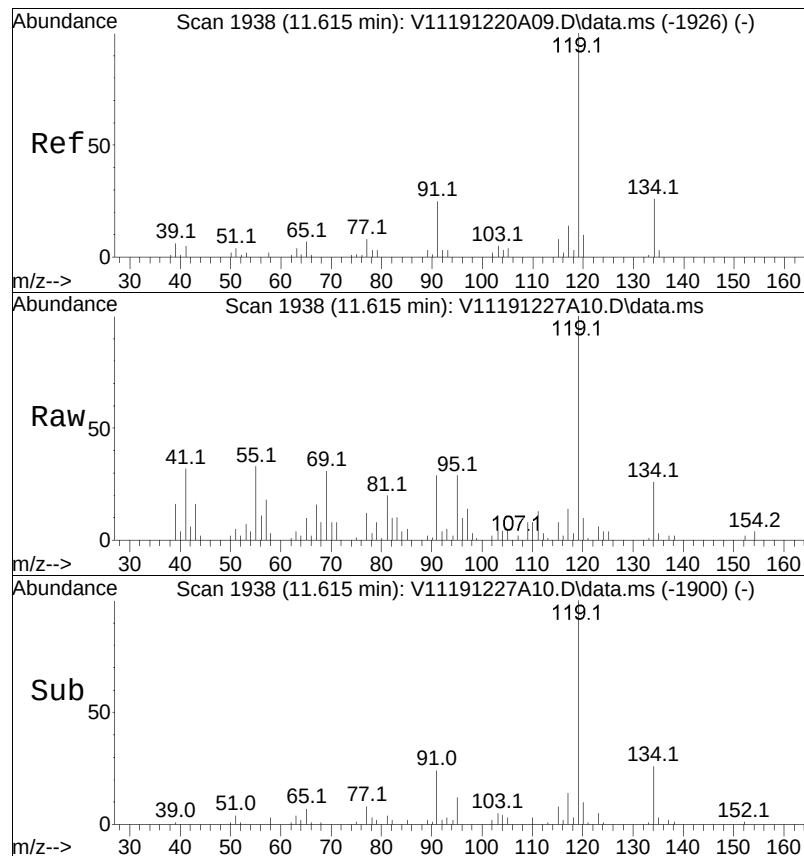




#98  
 sec-Butylbenzene  
 Concen: 1.18 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191227A10.D  
 Acq: 27 Dec 2019 09:05 am

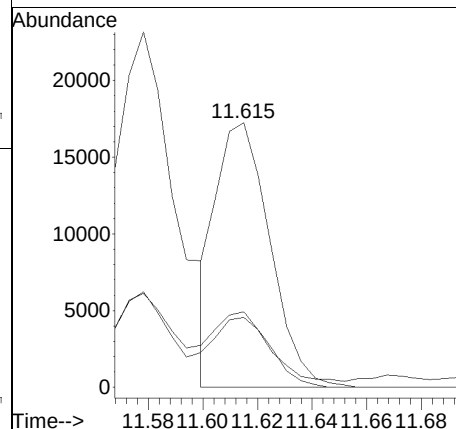
Tgt Ion:105 Resp: 18579  
 Ion Ratio Lower Upper  
 105 100  
 134 24.6 13.2 27.4

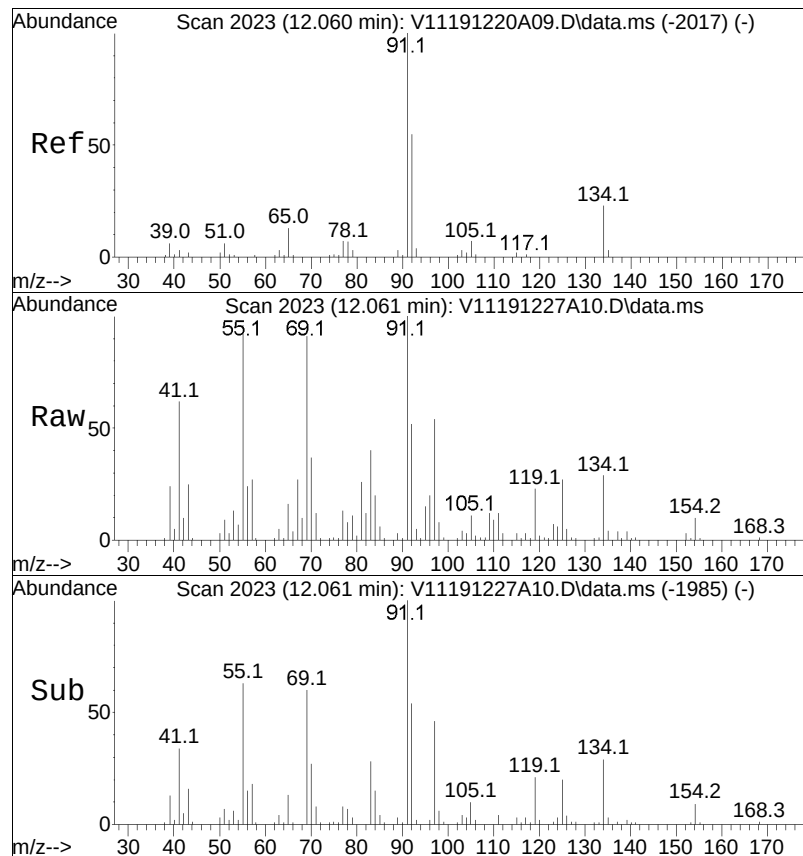




#99  
 p-Isopropyltoluene  
 Concen: 1.88 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. -0.000 min  
 Lab File: V11191227A10.D  
 Acq: 27 Dec 2019 09:05 am

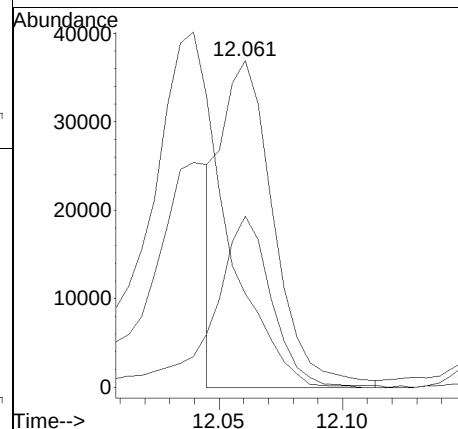
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 29.7  | 17.1  | 35.5  |
| 91      | 28.4  | 15.3  | 31.9  |

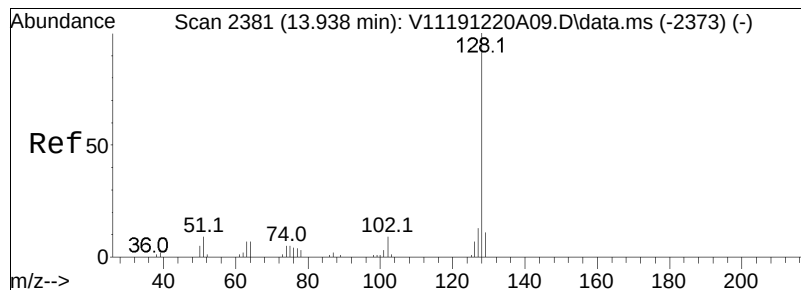




#103  
 n-Butylbenzene  
 Concen: 4.20 ug/L M1  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A10.D  
 Acq: 27 Dec 2019 09:05 am

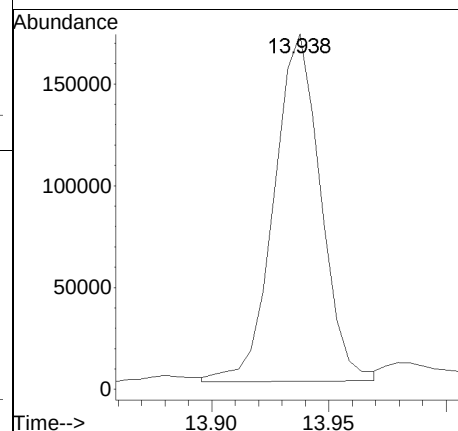
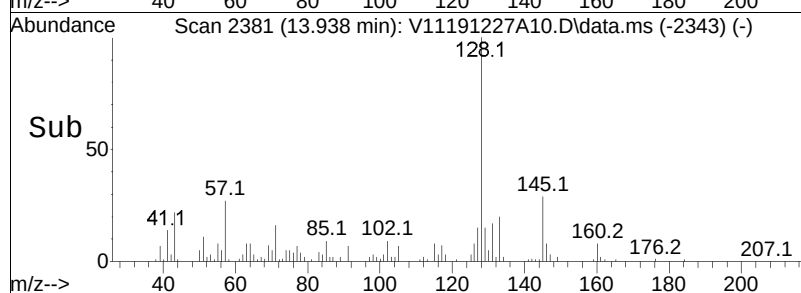
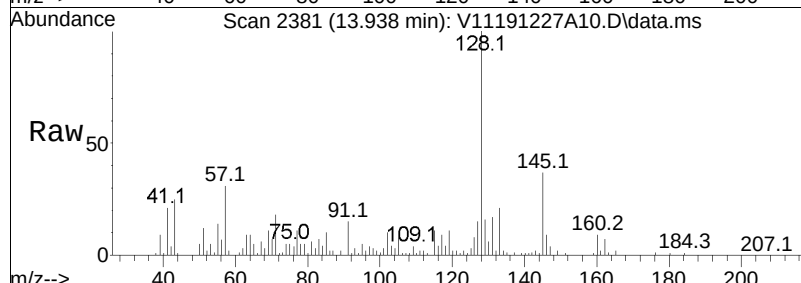
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 58.1  | 43.3  | 64.9  |
| 134     | 154.3 | 21.4  | 32.0  |





#110  
Naphthalene  
Concen: 26.91 ug/L  
RT: 13.938 min Scan# 2381  
Delta R.T. -0.000 min  
Lab File: V11191227A10.D  
Acq: 27 Dec 2019 09:05 am

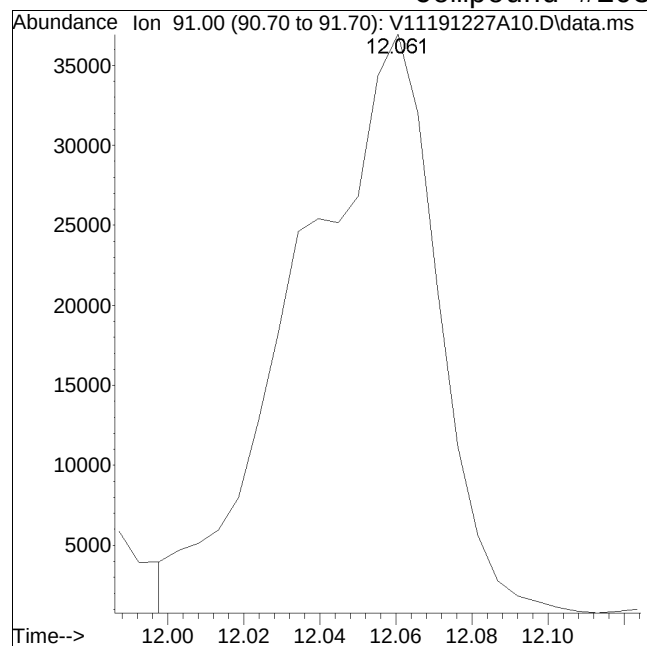
Tgt Ion:128 Resp: 236654



# Manual Integration Report

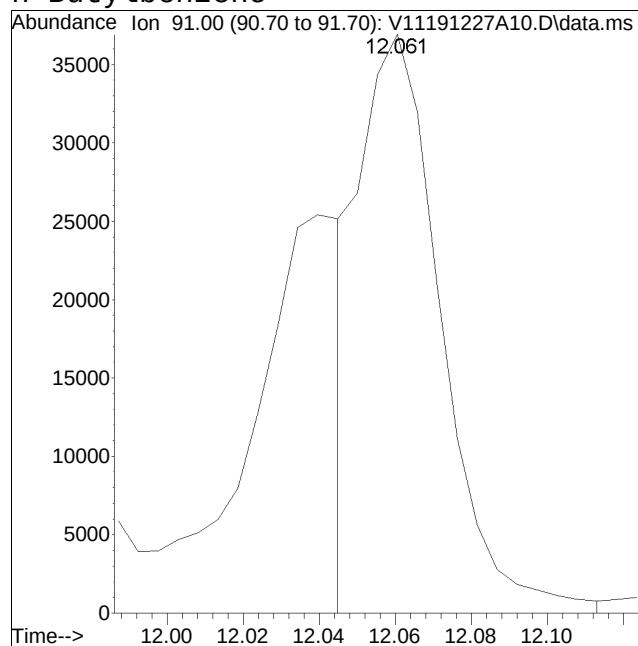
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A10.D Operator : VOA111:MV  
Date Inj'd : 12/27/2019 9:05 am Instrument : VOA111  
Sample : l1961284-03D,31H,6.29,5,0.Quant Date : 12/27/2019 10:54 am

## Compound #103: n-Butylbenzene



Original Peak Response = 91138

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



Manual Peak Response = 55561 M1



## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: V11191227A10.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.678       | 605           | 615         | 630          | rBV      | 105928         | 202819        | 5.38%           | 0.306%        |
| 2         | 5.176       | 700           | 710         | 728          | rVB      | 98491          | 192228        | 5.10%           | 0.290%        |
| 3         | 5.454       | 754           | 763         | 777          | rBV      | 265897         | 522685        | 13.86%          | 0.788%        |
| 4         | 7.106       | 1069          | 1078        | 1107         | rBV      | 396021         | 757119        | 20.08%          | 1.142%        |
| 5         | 8.915       | 1411          | 1423        | 1455         | rBV      | 350323         | 702983        | 18.64%          | 1.060%        |
| 6         | 10.325      | 1684          | 1692        | 1706         | rVB2     | 71173          | 175208        | 4.65%           | 0.264%        |
| 7         | 10.467      | 1707          | 1719        | 1729         | rBV      | 318486         | 644943        | 17.10%          | 0.973%        |
| 8         | 10.598      | 1738          | 1744        | 1752         | rVV3     | 70751          | 138095        | 3.66%           | 0.208%        |
| 9         | 10.671      | 1752          | 1758        | 1766         | rVB      | 409375         | 688045        | 18.25%          | 1.038%        |
| 10        | 11.059      | 1819          | 1832        | 1837         | rBV3     | 151509         | 367024        | 9.73%           | 0.554%        |
| 11        | 11.332      | 1872          | 1884        | 1893         | rVB3     | 483918         | 1014949       | 26.92%          | 1.531%        |
| 12        | 11.505      | 1911          | 1917        | 1922         | rBV2     | 128967         | 209384        | 5.55%           | 0.316%        |
| 13        | 11.589      | 1929          | 1933        | 1942         | rVB4     | 151824         | 316707        | 8.40%           | 0.478%        |
| 14        | 11.683      | 1942          | 1951        | 1957         | rVB5     | 156324         | 399158        | 10.59%          | 0.602%        |
| 15        | 11.746      | 1957          | 1963        | 1968         | rBV      | 469725         | 748549        | 19.85%          | 1.129%        |
| 16        | 11.809      | 1968          | 1975        | 1981         | rBV2     | 331820         | 766322        | 20.32%          | 1.156%        |
| 17        | 11.930      | 1992          | 1998        | 2002         | rBV4     | 127945         | 285102        | 7.56%           | 0.430%        |
| 18        | 11.971      | 2002          | 2006        | 2009         | rVV      | 278130         | 397623        | 10.54%          | 0.600%        |
| 19        | 12.013      | 2009          | 2014        | 2025         | rVV3     | 865334         | 1643150       | 43.58%          | 2.479%        |
| 20        | 12.171      | 2037          | 2044        | 2048         | rBV3     | 129309         | 263487        | 6.99%           | 0.397%        |
| 21        | 12.249      | 2055          | 2059        | 2069         | rVB      | 251436         | 464243        | 12.31%          | 0.700%        |
| 22        | 12.349      | 2069          | 2078        | 2086         | rBV2     | 391044         | 1206010       | 31.98%          | 1.819%        |
| 23        | 12.417      | 2086          | 2091        | 2100         | rVV      | 539448         | 927216        | 24.59%          | 1.399%        |
| 24        | 12.491      | 2100          | 2105        | 2109         | rVV2     | 434385         | 707826        | 18.77%          | 1.068%        |
| 25        | 12.532      | 2110          | 2113        | 2118         | rVB3     | 367635         | 501173        | 13.29%          | 0.756%        |
| 26        | 12.580      | 2118          | 2122        | 2138         | rVB9     | 387293         | 1154841       | 30.63%          | 1.742%        |
| 27        | 12.695      | 2138          | 2144        | 2148         | rBV2     | 848593         | 1259008       | 33.39%          | 1.899%        |
| 28        | 12.732      | 2148          | 2151        | 2155         | rVB2     | 233317         | 277868        | 7.37%           | 0.419%        |

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 29 | 12.821 | 2162 | 2168 | 2172 | rVB  | 600557  | 794511  | 21.07%  | 1.199% |
| 30 | 12.868 | 2172 | 2177 | 2182 | rVV  | 1395964 | 2012598 | 53.37%  | 3.036% |
| 31 | 12.915 | 2183 | 2186 | 2190 | rVV2 | 427268  | 586174  | 15.54%  | 0.884% |
| 32 | 12.952 | 2190 | 2193 | 2197 | rVV  | 454895  | 605560  | 16.06%  | 0.914% |
| 33 | 12.983 | 2197 | 2199 | 2209 | rVV2 | 231934  | 311440  | 8.26%   | 0.470% |
| 34 | 13.067 | 2209 | 2215 | 2222 | rVV4 | 1468265 | 2437218 | 64.63%  | 3.677% |
| 35 | 13.125 | 2222 | 2226 | 2232 | rVV3 | 381832  | 623026  | 16.52%  | 0.940% |
| 36 | 13.188 | 2232 | 2238 | 2242 | rVV2 | 570789  | 837943  | 22.22%  | 1.264% |
| 37 | 13.235 | 2242 | 2247 | 2250 | rVV2 | 1458419 | 2408750 | 63.88%  | 3.634% |
| 38 | 13.261 | 2250 | 2252 | 2257 | rVV  | 1825991 | 2220819 | 58.89%  | 3.350% |
| 39 | 13.308 | 2257 | 2261 | 2266 | rVV3 | 778520  | 1260243 | 33.42%  | 1.901% |
| 40 | 13.377 | 2266 | 2274 | 2279 | rVB2 | 390606  | 813626  | 21.58%  | 1.227% |
| 41 | 13.466 | 2285 | 2291 | 2294 | rBV2 | 433766  | 677710  | 17.97%  | 1.022% |
| 42 | 13.497 | 2294 | 2297 | 2304 | rVV  | 483373  | 671512  | 17.81%  | 1.013% |
| 43 | 13.586 | 2304 | 2314 | 2324 | rVV8 | 1369271 | 3770835 | 100.00% | 5.688% |
| 44 | 13.665 | 2324 | 2329 | 2342 | rVB6 | 1026091 | 2060791 | 54.65%  | 3.109% |
| 45 | 13.759 | 2342 | 2347 | 2351 | rBV4 | 222587  | 324845  | 8.61%   | 0.490% |
| 46 | 13.828 | 2356 | 2360 | 2364 | rVV2 | 385540  | 635377  | 16.85%  | 0.958% |
| 47 | 13.859 | 2364 | 2366 | 2372 | rVV3 | 246905  | 377808  | 10.02%  | 0.570% |
| 48 | 13.906 | 2372 | 2375 | 2378 | rVV3 | 290105  | 404307  | 10.72%  | 0.610% |
| 49 | 13.943 | 2378 | 2382 | 2397 | rVV5 | 960564  | 2274976 | 60.33%  | 3.432% |
| 50 | 14.058 | 2400 | 2404 | 2407 | rVV2 | 444315  | 545680  | 14.47%  | 0.823% |
| 51 | 14.095 | 2407 | 2411 | 2418 | rVB2 | 599985  | 874261  | 23.18%  | 1.319% |
| 52 | 14.195 | 2427 | 2430 | 2433 | rBV2 | 161703  | 190609  | 5.05%   | 0.288% |
| 53 | 14.263 | 2437 | 2443 | 2449 | rVB4 | 1349873 | 2297899 | 60.94%  | 3.466% |
| 54 | 14.362 | 2458 | 2462 | 2466 | rBV2 | 631201  | 903798  | 23.97%  | 1.363% |
| 55 | 14.415 | 2466 | 2472 | 2479 | rVB4 | 521765  | 1358700 | 36.03%  | 2.050% |
| 56 | 14.493 | 2485 | 2487 | 2495 | rVB5 | 310500  | 470812  | 12.49%  | 0.710% |
| 57 | 14.556 | 2495 | 2499 | 2505 | rBV3 | 920708  | 1465233 | 38.86%  | 2.210% |
| 58 | 14.640 | 2512 | 2515 | 2518 | rVB3 | 206161  | 229746  | 6.09%   | 0.347% |
| 59 | 14.693 | 2519 | 2525 | 2532 | rVV3 | 596946  | 1106227 | 29.34%  | 1.669% |
| 60 | 14.750 | 2532 | 2536 | 2550 | rVB7 | 448061  | 1224235 | 32.47%  | 1.847% |

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 61 | 14.876 | 2550 | 2560 | 2568 | rBV  | 2065810 | 3304645 | 87.64% | 4.985% |
| 62 | 14.950 | 2568 | 2574 | 2579 | rVV5 | 286440  | 642021  | 17.03% | 0.969% |
| 63 | 15.012 | 2579 | 2586 | 2592 | rVB  | 1030712 | 1564182 | 41.48% | 2.360% |
| 64 | 15.112 | 2600 | 2605 | 2617 | rVB6 | 171011  | 431281  | 11.44% | 0.651% |
| 65 | 15.259 | 2625 | 2633 | 2644 | rVB3 | 394406  | 996062  | 26.41% | 1.503% |
| 66 | 15.343 | 2645 | 2649 | 2656 | rVB2 | 98760   | 173504  | 4.60%  | 0.262% |
| 67 | 15.442 | 2660 | 2668 | 2676 | rVB6 | 186198  | 563403  | 14.94% | 0.850% |
| 68 | 15.500 | 2676 | 2679 | 2685 | rVB2 | 81654   | 114631  | 3.04%  | 0.173% |
| 69 | 15.579 | 2688 | 2694 | 2698 | rBV8 | 68292   | 129485  | 3.43%  | 0.195% |
| 70 | 15.626 | 2698 | 2703 | 2710 | rVB  | 397034  | 617317  | 16.37% | 0.931% |
| 71 | 15.757 | 2722 | 2728 | 2737 | rVB  | 1029837 | 1518100 | 40.26% | 2.290% |
| 72 | 15.878 | 2744 | 2751 | 2755 | rBV  | 779685  | 1245758 | 33.04% | 1.879% |
| 73 | 15.914 | 2755 | 2758 | 2768 | rVB  | 437486  | 662037  | 17.56% | 0.999% |
| 74 | 16.051 | 2778 | 2784 | 2788 | rBV  | 74059   | 115263  | 3.06%  | 0.174% |
| 75 | 16.134 | 2795 | 2800 | 2812 | rVB2 | 107774  | 211937  | 5.62%  | 0.320% |
| 76 | 16.260 | 2819 | 2824 | 2839 | rVB2 | 63936   | 161335  | 4.28%  | 0.243% |
| 77 | 16.601 | 2882 | 2889 | 2896 | rBV  | 68027   | 127747  | 3.39%  | 0.193% |

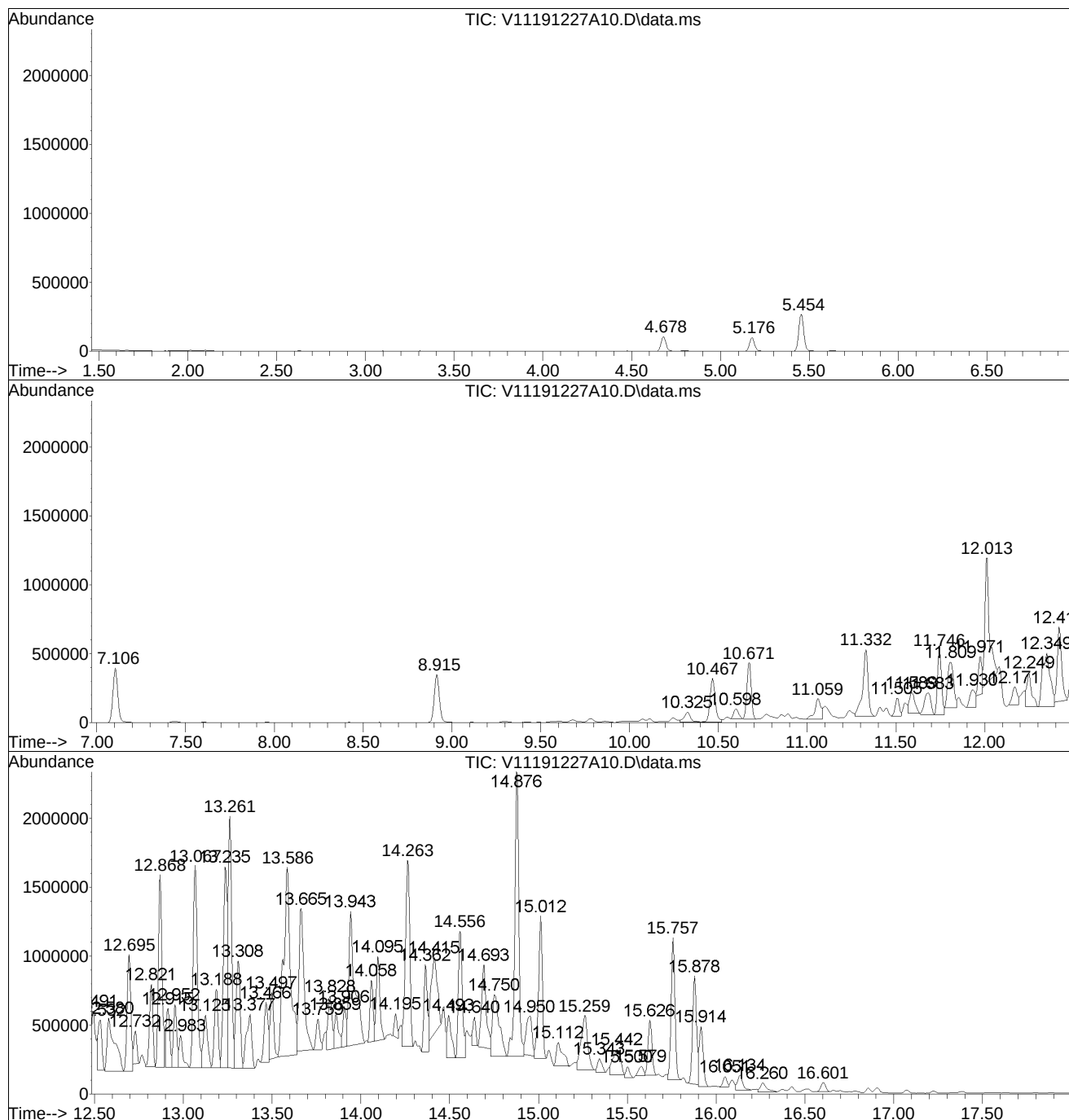
Sum of corrected areas: 66289742

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : 11961284-03D,31H,6.29,5,0.025,,a  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

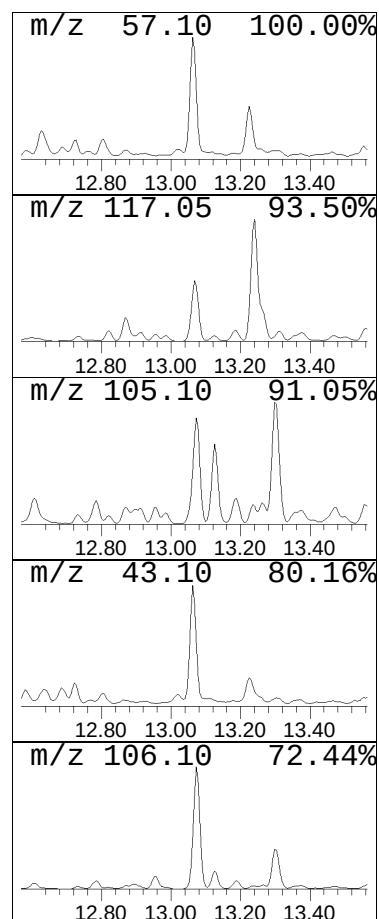
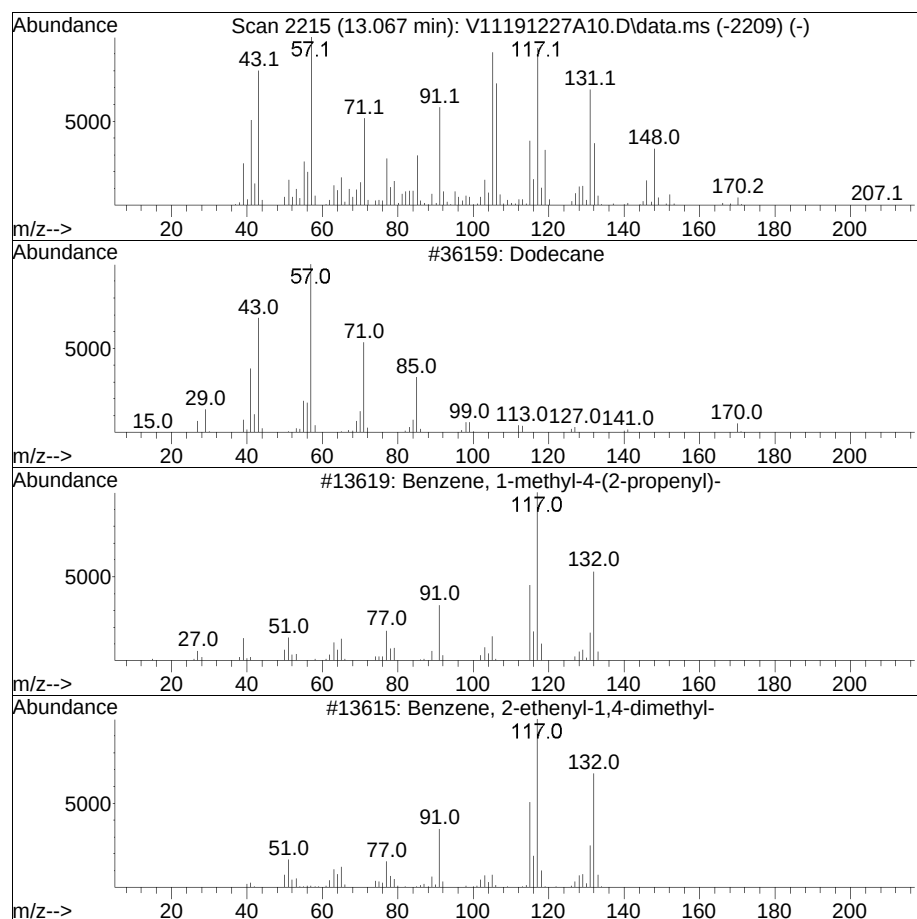
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 1 Unknown Concentration Rank 3

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.067 | 65.12 ug/L | 2437220 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------------------|--------------|-----|---------|-------------|------|
| 1       | Dodecane                          |              | 170 | C12H26  | 000112-40-3 | 59   |
| 2       | Benzene, 1-methyl-4-(2-propenyl)- |              | 132 | C10H12  | 003333-13-9 | 52   |
| 3       | Benzene, 2-ethenyl-1,4-dimethyl-  |              | 132 | C10H12  | 002039-89-6 | 46   |
| 4       | Benzene, 1-methyl-2-(2-propenyl)- |              | 132 | C10H12  | 001587-04-8 | 46   |
| 5       | Benzene, 2-butenyl-               |              | 132 | C10H12  | 001560-06-1 | 46   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : 11961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

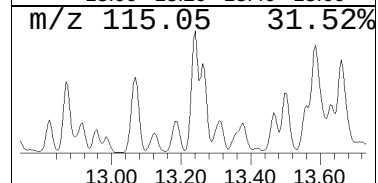
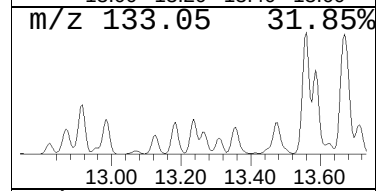
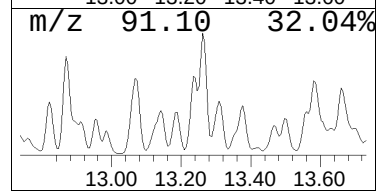
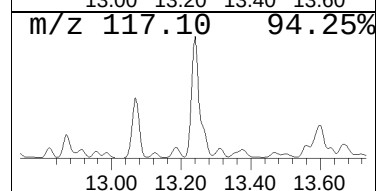
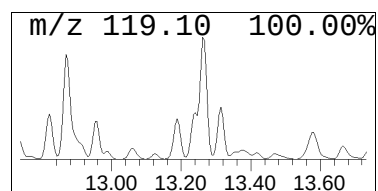
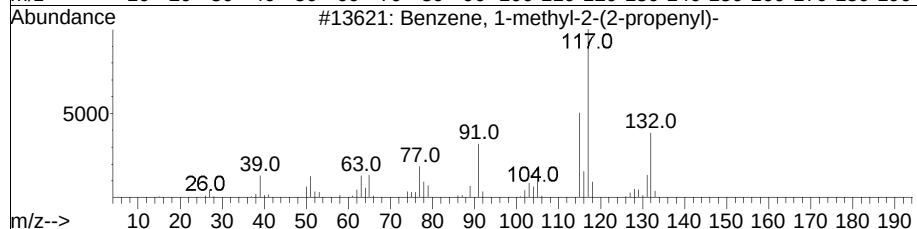
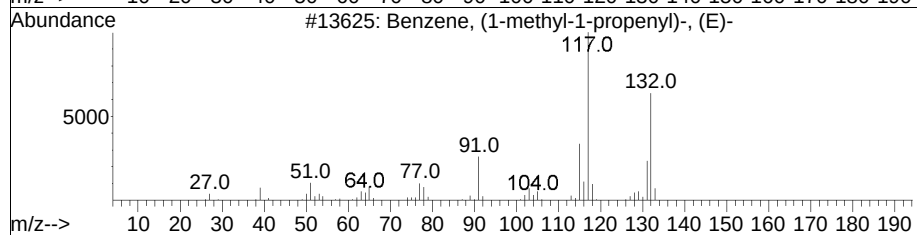
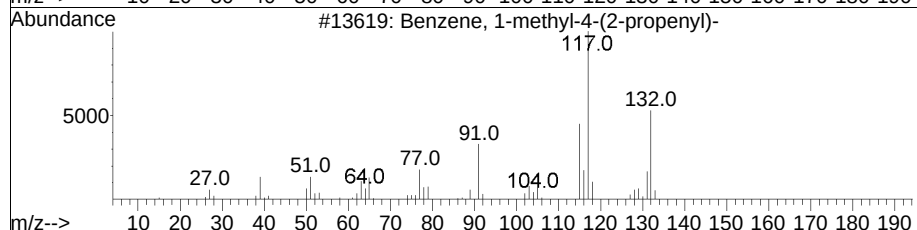
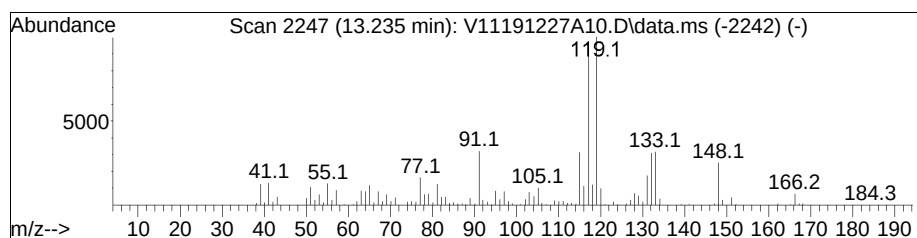
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 2 Unknown Benzene Concentration Rank 4

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.235 | 64.36 ug/L | 2408750 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-methyl-4-(2-propenyl)-   | 132 | C10H12  | 003333-13-9 | 91   |
| 2       |   | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3 | 70   |
| 3       |   | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 70   |
| 4       |   | Benzene, 2-ethenyl-1,3-dimethyl-    | 132 | C10H12  | 002039-90-9 | 55   |
| 5       |   | 3-Phenylbut-1-ene                   | 132 | C10H12  | 000934-10-1 | 55   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : 11961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

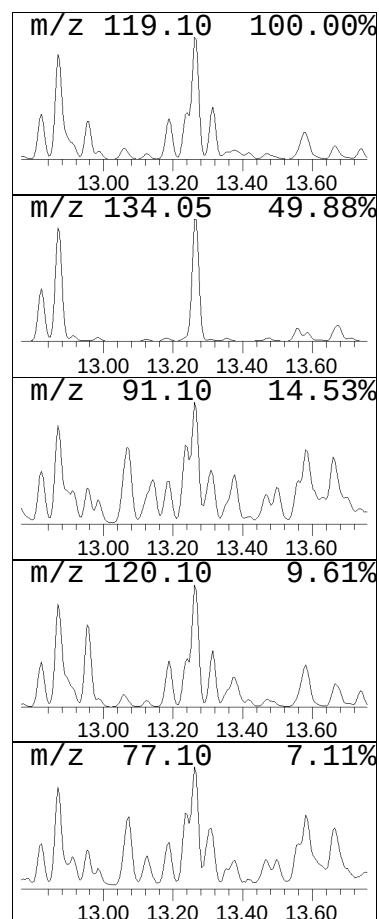
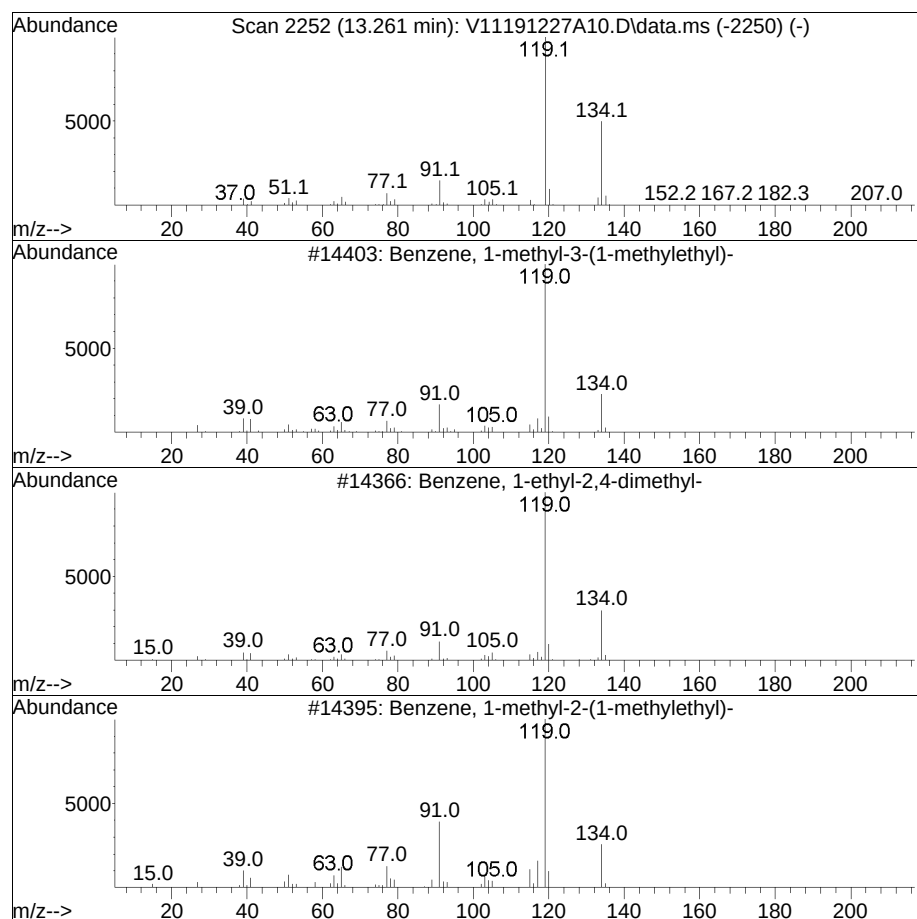
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 3 Unknown Benzene Concentration Rank 6

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.261 | 59.34 ug/L | 2220820 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 91   |
| 2    |    |   | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 91   |
| 3    |    |   | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14  | 000527-84-4 | 91   |
| 4    |    |   | Benzene, 1,2,3,5-tetramethyl-       | 134 | C10H14  | 000527-53-7 | 91   |
| 5    |    |   | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14  | 000099-87-6 | 91   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

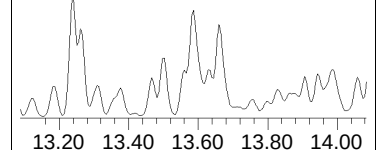
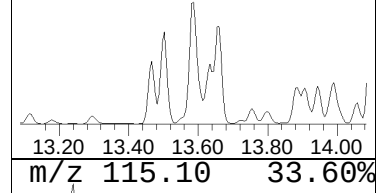
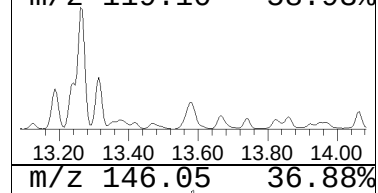
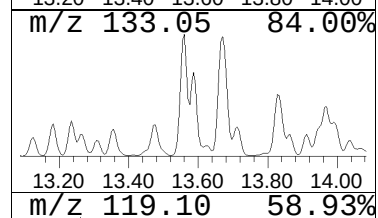
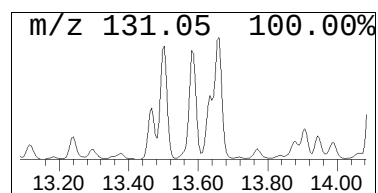
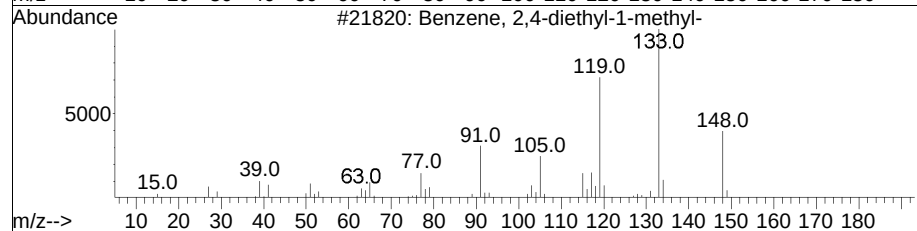
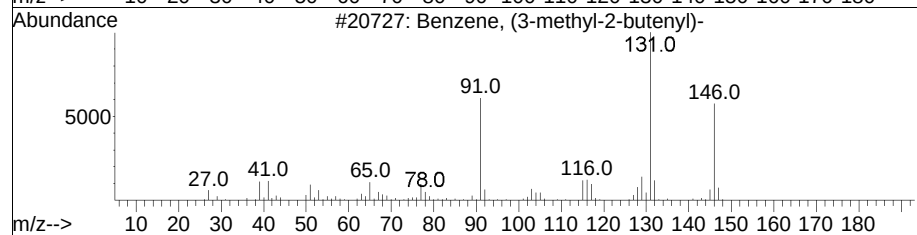
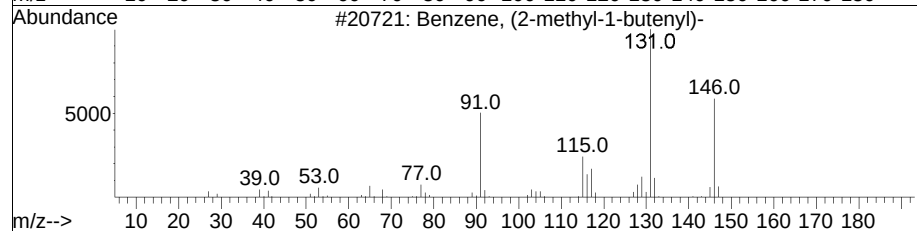
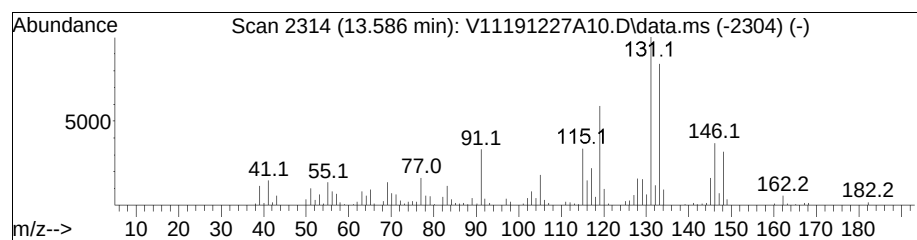
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 4 Benzene, (2-methyl-1-butenyl)- Concentration Rank 1

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.586 | 100.75 ug/L | 3770840 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 87   |
| 2    |    |   | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 83   |
| 3    |    |   | Benzene, 2,4-diethyl-1-methyl-      | 148 | C11H16  | 001758-85-6 | 55   |
| 4    |    |   | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16  | 002050-24-0 | 55   |
| 5    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 46   |





## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : 11961284-03D, 31H, 6.29, 5, 0.025, , a  
Misc : WG1325770, ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

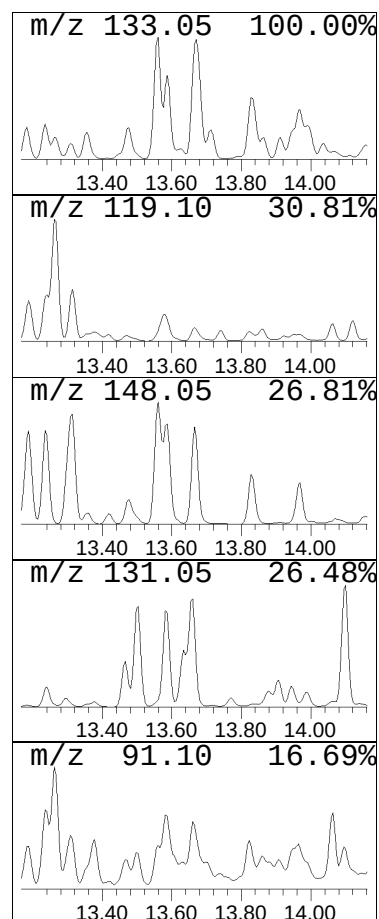
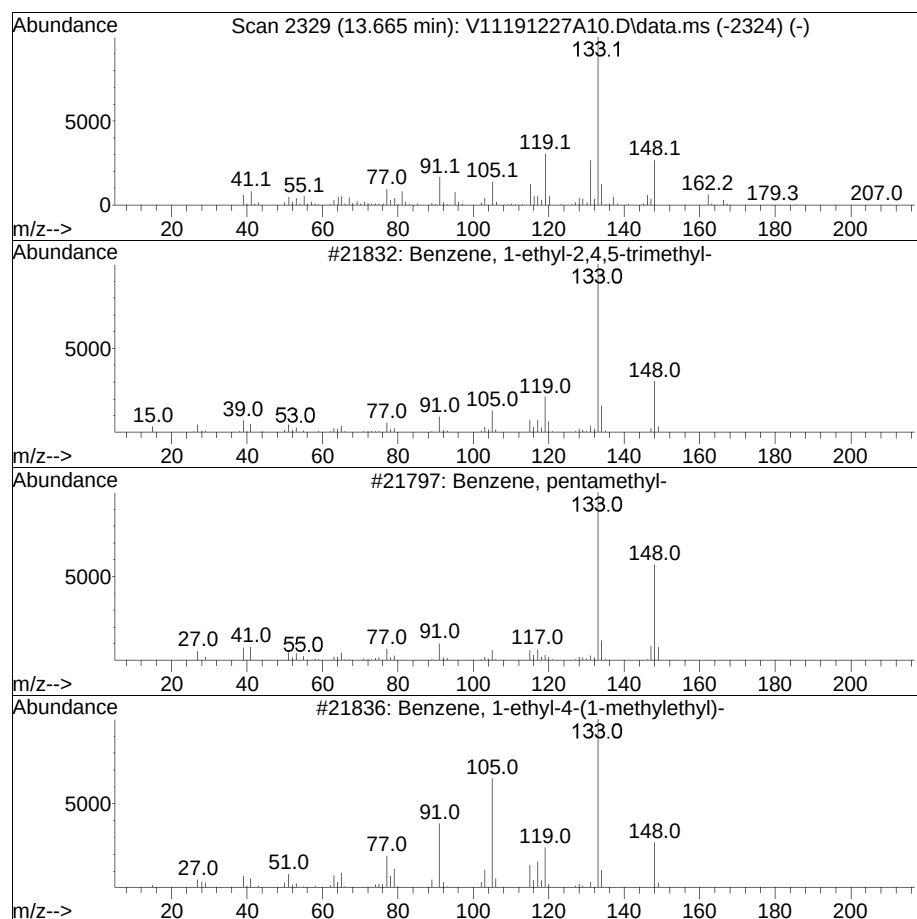
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 5 Unknown Benzene Concentration Rank 7

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.665 | 55.06 ug/L | 2060790 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-ethyl-2,4,5-trimethyl-   | 148 | C11H16  | 017851-27-3 | 68   |
| 2       |   | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 62   |
| 3       |   | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 59   |
| 4       |   | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16  | 004706-90-5 | 58   |
| 5       |   | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16  | 004132-72-3 | 52   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

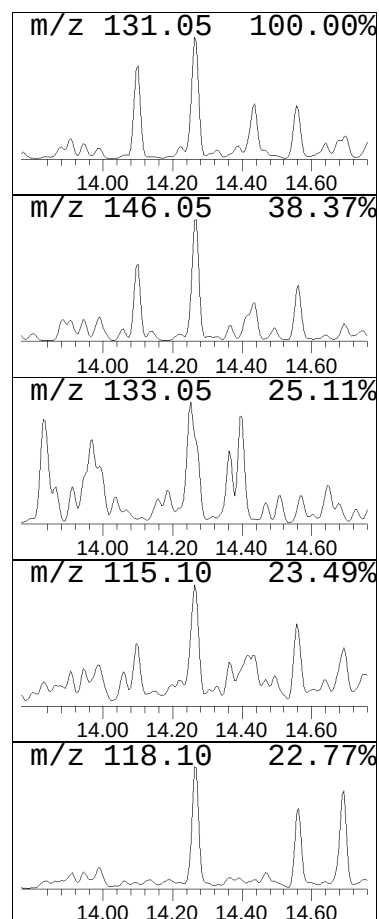
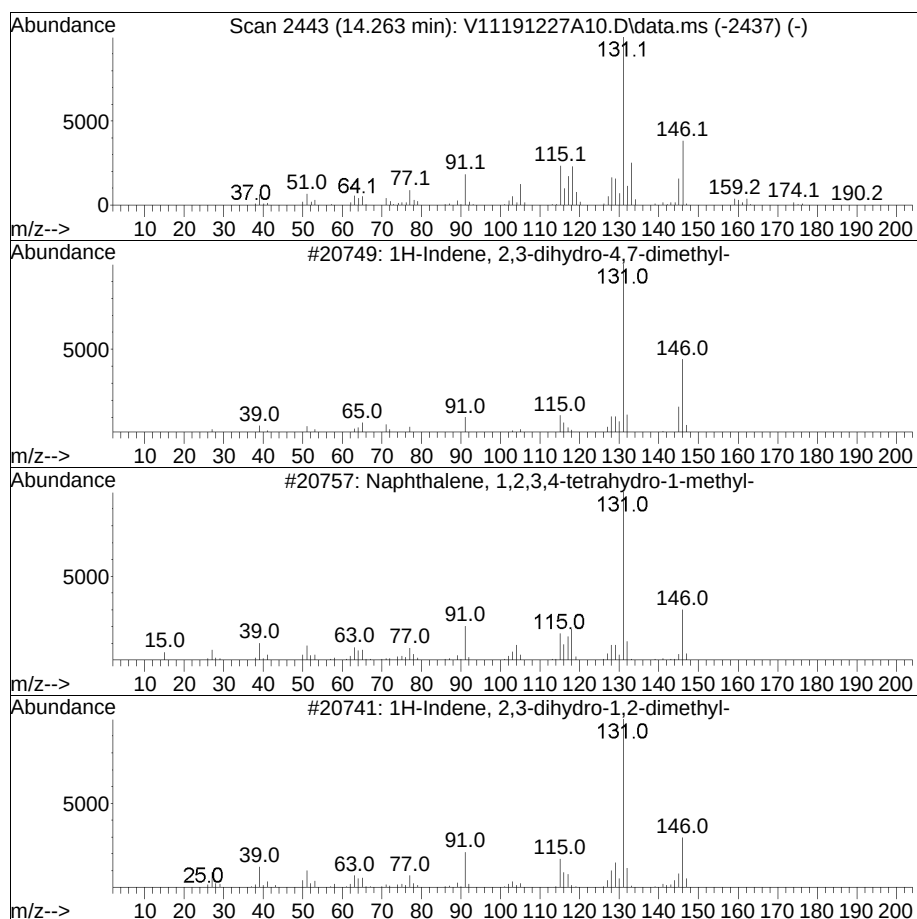
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 6 Unknown Aromatic Concentration Rank 5

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.263 | 61.40 ug/L | 2297900 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146          | C11H14 | 006682-71-9 | 89   |      |
| 2       | Naphthalene, 1,2,3,4-tetrahydro-... | 146          | C11H14 | 001559-81-5 | 87   |      |
| 3       | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146          | C11H14 | 017057-82-8 | 81   |      |
| 4       | Benzene, (2-methyl-1-butenyl)-      | 146          | C11H14 | 056253-64-6 | 76   |      |
| 5       | Benzene, (1-methyl-1-butenyl)-      | 146          | C11H14 | 053172-84-2 | 76   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

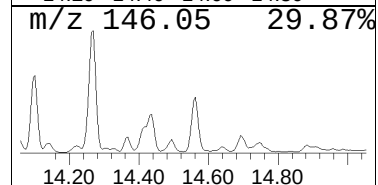
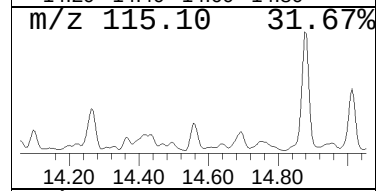
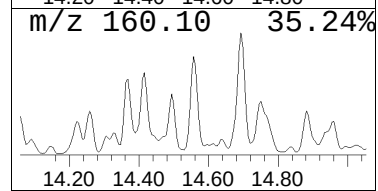
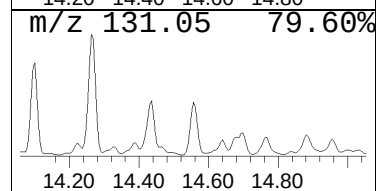
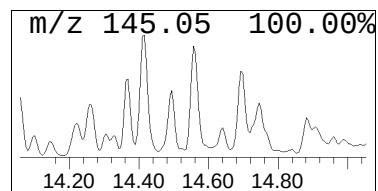
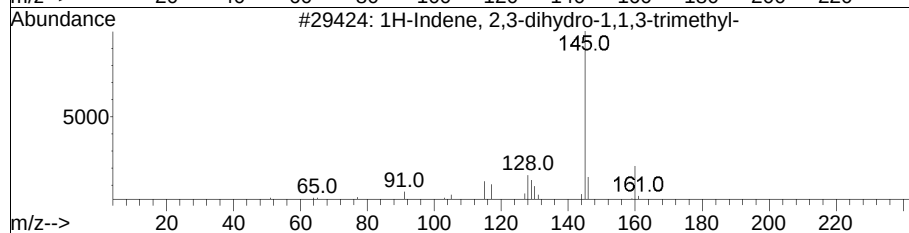
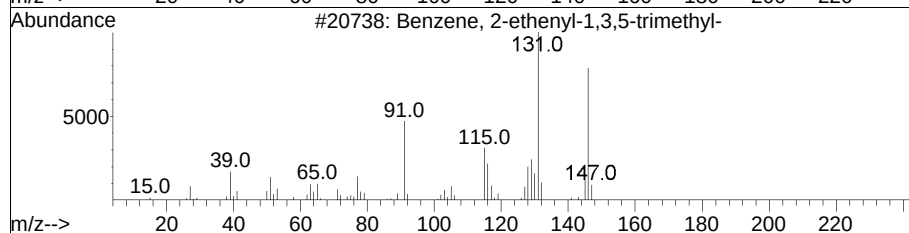
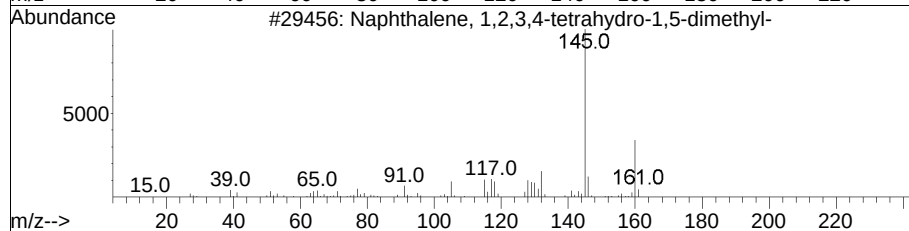
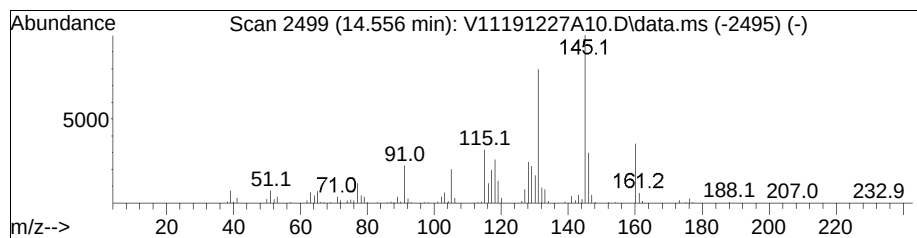
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 7 Unknown Aromatic Concentration Rank 10

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.556 | 39.15 ug/L | 1465230 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 021564-91-0 | 60   |
| 2       |   | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 55   |
| 3       |   | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16  | 002613-76-5 | 55   |
| 4       |   | 1H-Indene, 2,3-dihydro-1,4,7-tri... | 160 | C12H16  | 054340-87-3 | 50   |
| 5       |   | 1H-Indene, 2,3-dihydro-1,5,7-tri... | 160 | C12H16  | 054340-88-4 | 50   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

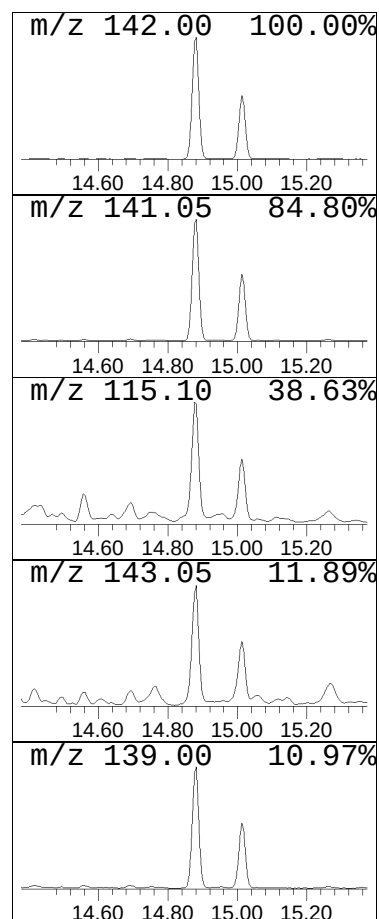
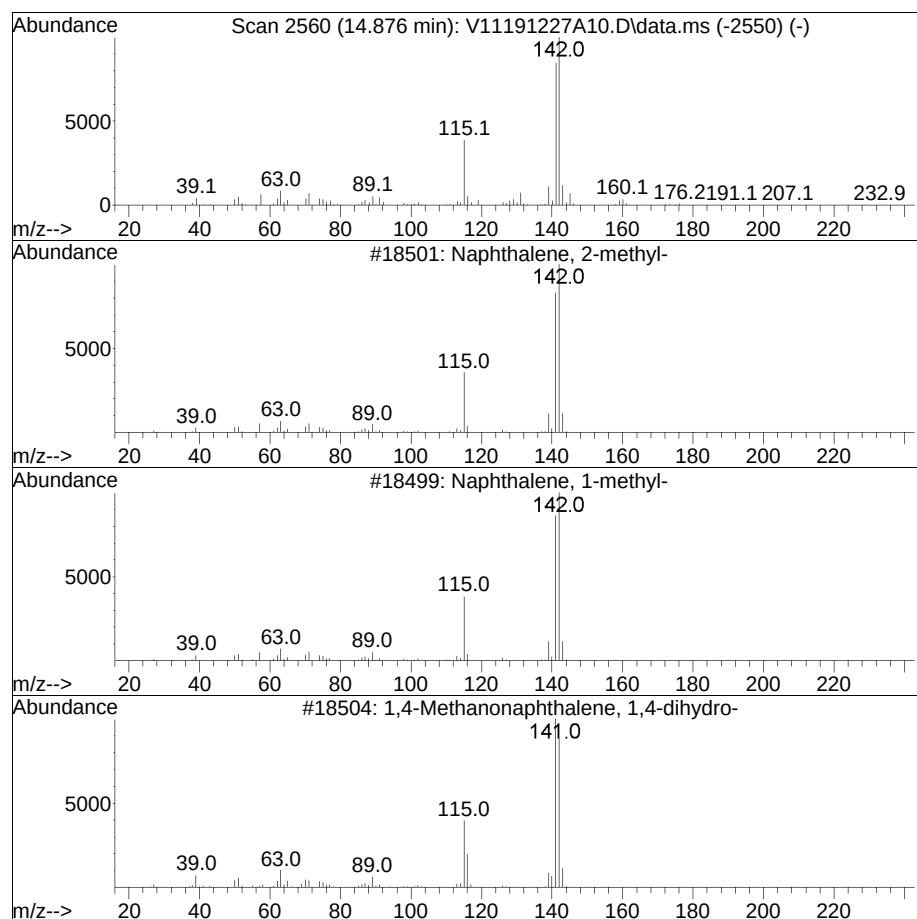
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 8 Unknown Aromatic Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.876 | 88.29 ug/L | 3304650 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 93   |
| 4       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 87   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 58   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

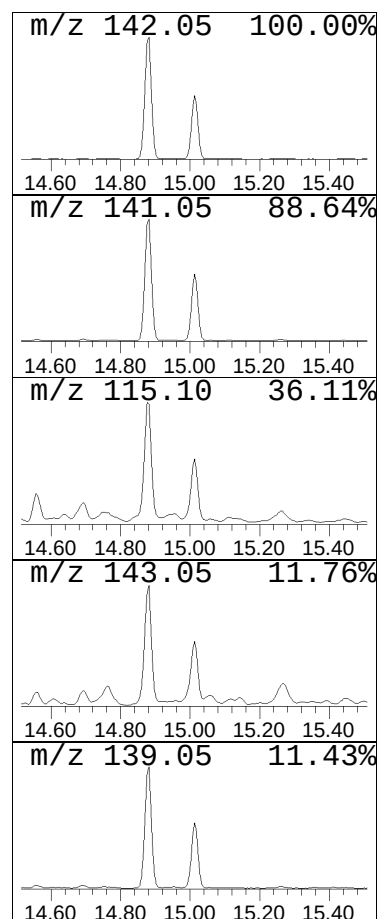
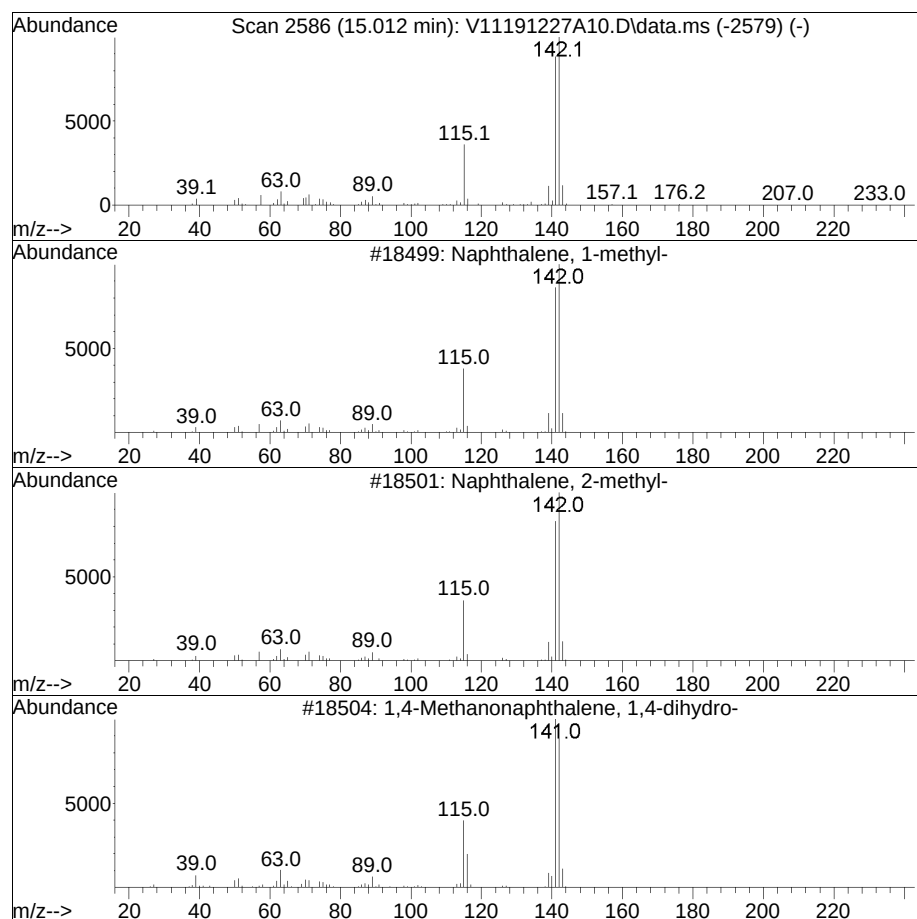
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 9 Unknown Aromatic Concentration Rank 8

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.012 | 41.79 ug/L | 1564180 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 94   |
| 4       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A10.D  
Acq On : 27 Dec 2019 09:05 am  
Operator : VOA111:MV  
Sample : l1961284-03D,31H,6.29,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 10 Sample Multiplier: 1

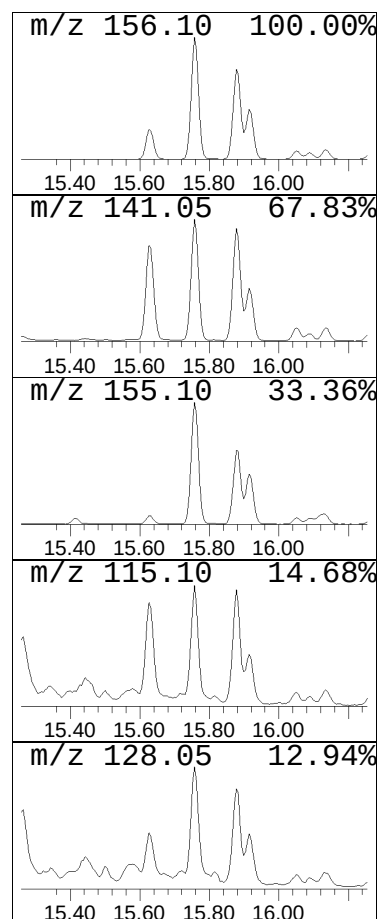
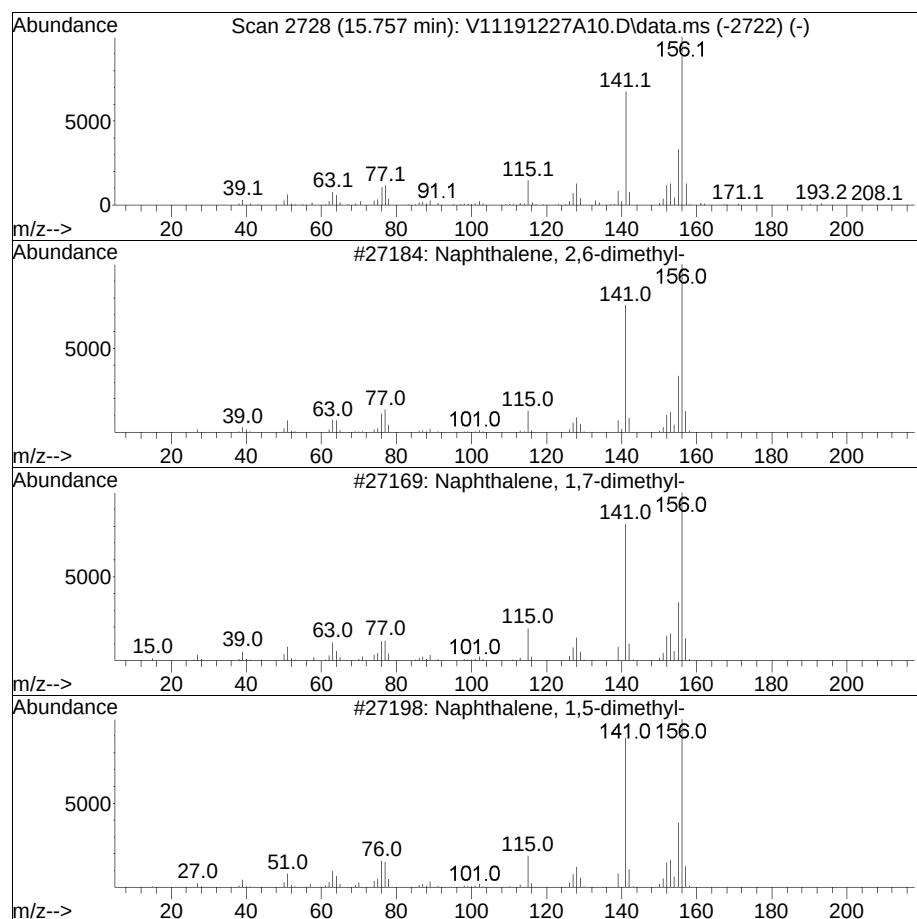
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 10 Unknown Naphthalene Concentration Rank 9

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.757 | 40.56 ug/L | 1518100 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 2    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 3    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 98   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A10.D  
 Acq On : 27 Dec 2019 09:05 am  
 Operator : VOA111:MV  
 Sample : l1961284-03D, 31H, 6.29, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 10 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard--- |        |        |      |
|--------------------|--------|---------|-------|----------|------------------------|--------|--------|------|
|                    |        |         |       |          | #                      | RT     | Resp   | Conc |
| Unknown            | 13.067 | 65.1    | ug/L  | 2437220  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Benzene    | 13.235 | 64.4    | ug/L  | 2408750  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Benzene    | 13.261 | 59.3    | ug/L  | 2220820  | 3                      | 11.746 | 748549 | 20.0 |
| Benzene, (2-met... | 13.586 | 100.8   | ug/L  | 3770840  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Benzene    | 13.665 | 55.1    | ug/L  | 2060790  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Aromatic   | 14.263 | 61.4    | ug/L  | 2297900  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Aromatic   | 14.556 | 39.1    | ug/L  | 1465230  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Aromatic   | 14.876 | 88.3    | ug/L  | 3304650  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Aromatic   | 15.012 | 41.8    | ug/L  | 1564180  | 3                      | 11.746 | 748549 | 20.0 |
| Unknown Naphtha... | 15.757 | 40.6    | ug/L  | 1518100  | 3                      | 11.746 | 748549 | 20.0 |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 27 10:58:26 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc      | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|-----------|---------|----------|
| -----                        |                |      |          |           |         |          |
| Internal Standards           |                |      |          |           |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 225865   | 20.000    | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =         | 82.77%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 176697   | 20.000    | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =         | 79.77%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 109486   | 20.000    | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =         | 90.97%  |          |
| System Monitoring Compounds  |                |      |          |           |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 62913    | 20.925    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 104.63% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 78340    | 24.384    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 121.92% |          |
| 60) Toluene-d8               | 7.106          | 98   | 244011   | 19.803    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 99.02%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 102251   | 18.106    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 90.53%  |          |
| Target Compounds             |                |      |          |           |         |          |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0        | N.D.      |         |          |
| 3) Chloromethane             | 1.658          | 50   | 191      | N.D.      |         |          |
| 4) Vinyl chloride            | 0.000          |      | 0        | N.D.      |         |          |
| 5) Bromomethane              | 1.957          | 94   | 57       | Below Cal | #       | 3        |
| 6) Chloroethane              | 0.000          |      | 0        | N.D.      |         |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0        | N.D.      |         |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0        | N.D.      |         |          |
| 11) Carbon disulfide         | 0.000          |      | 0        | N.D.      | d       |          |
| 12) Freon-113                | 0.000          |      | 0        | N.D.      |         |          |
| 15) Methylene chloride       | 3.095          | 84   | 339      | 0.105     | ug/L #  | 52       |
| 17) Acetone                  | 3.132          | 43   | 671      | 0.916     | ug/L #  | 68       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0        | N.D.      |         |          |
| 19) Methyl acetate           | 0.000          |      | 0        | N.D.      | d       |          |
| 20) Methyl tert-butyl ether  | 0.000          |      | 0        | N.D.      |         |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0        | N.D.      |         |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0        | N.D.      |         |          |
| 31) Cyclohexane              | 0.000          |      | 0        | N.D.      |         |          |
| 32) Chloroform               | 0.000          |      | 0        | N.D.      |         |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0        | N.D.      |         |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0        | N.D.      |         |          |



# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 27 10:58:26 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                       | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 39) 2-Butanone                 | 0.000  |      | 0        |        | N.D.  |          |
| 41) Benzene                    | 0.000  |      | 0        |        | N.D.  |          |
| 44) 1,2-Dichloroethane         | 0.000  |      | 0        |        | N.D.  |          |
| 47) Methyl cyclohexane         | 0.000  |      | 0        |        | N.D.  |          |
| 48) Trichloroethene            | 0.000  |      | 0        |        | N.D.  |          |
| 51) 1,2-Dichloropropane        | 0.000  |      | 0        |        | N.D.  |          |
| 54) Bromodichloromethane       | 0.000  |      | 0        |        | N.D.  |          |
| 58) cis-1,3-Dichloropropene    | 0.000  |      | 0        |        | N.D.  |          |
| 61) Toluene                    | 0.000  |      | 0        |        | N.D.  |          |
| 62) 4-Methyl-2-pentanone       | 0.000  |      | 0        |        | N.D.  |          |
| 63) Tetrachloroethene          | 0.000  |      | 0        |        | N.D.  |          |
| 65) trans-1,3-Dichloropropene  | 0.000  |      | 0        |        | N.D.  |          |
| 68) 1,1,2-Trichloroethane      | 0.000  |      | 0        |        | N.D.  |          |
| 69) Chlorodibromomethane       | 0.000  |      | 0        |        | N.D.  |          |
| 71) 1,2-Dibromoethane          | 0.000  |      | 0        |        | N.D.  |          |
| 72) 2-Hexanone                 | 0.000  |      | 0        |        | N.D.  |          |
| 73) Chlorobenzene              | 0.000  |      | 0        |        | N.D.  |          |
| 74) Ethylbenzene               | 8.910  | 91   | 70       |        | N.D.  |          |
| 76) p/m Xylene                 | 0.000  |      | 0        |        | N.D.  |          |
| 77) o Xylene                   | 0.000  |      | 0        |        | N.D.  |          |
| 78) Styrene                    | 0.000  |      | 0        |        | N.D.  |          |
| 80) Bromoform                  | 0.000  |      | 0        |        | N.D.  |          |
| 82) Isopropylbenzene           | 0.000  |      | 0        |        | N.D.  |          |
| 85) n-Propylbenzene            | 10.472 | 91   | 153      |        | N.D.  |          |
| 87) 1,1,2,2-Tetrachloroethane  | 0.000  |      | 0        |        | N.D.  | d        |
| 90) 1,3,5-Trimethylbenzene     | 10.907 | 105  | 56       |        | N.D.  |          |
| 94) tert-Butylbenzene          | 11.321 | 119  | 293      |        | N.D.  |          |
| 97) 1,2,4-Trimethylbenzene     | 11.337 | 105  | 3069     | 0.258  | ug/L  | 94       |
| 98) sec-Butylbenzene           | 11.447 | 105  | 180      |        | N.D.  |          |
| 99) p-Isopropyltoluene         | 11.615 | 119  | 838      |        | N.D.  |          |
| 100) 1,3-Dichlorobenzene       | 11.762 | 146  | 55       |        | N.D.  |          |
| 101) 1,4-Dichlorobenzene       | 11.762 | 146  | 55       |        | N.D.  |          |
| 103) n-Butylbenzene            | 12.061 | 91   | 3392M3   | 0.267  | ug/L  |          |
| 104) 1,2-Dichlorobenzene       | 0.000  |      | 0        |        | N.D.  |          |
| 106) 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        |        | N.D.  |          |
| 109) 1,2,4-Trichlorobenzene    | 13.639 | 180  | 225      |        | N.D.  |          |
| 110) Naphthalene               | 13.938 | 128  | 116443   | 13.769 | ug/L  | 100      |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 27 10:58:26 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

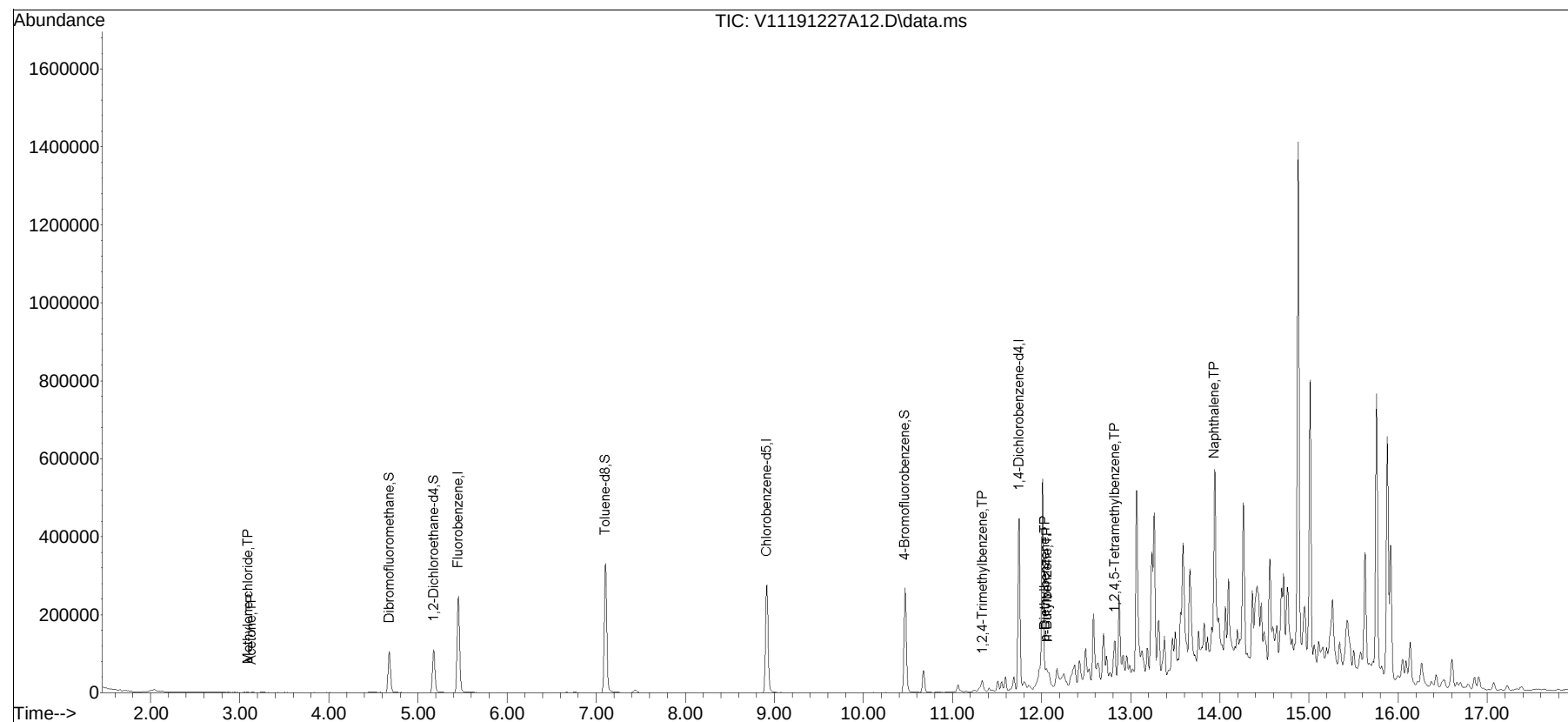
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

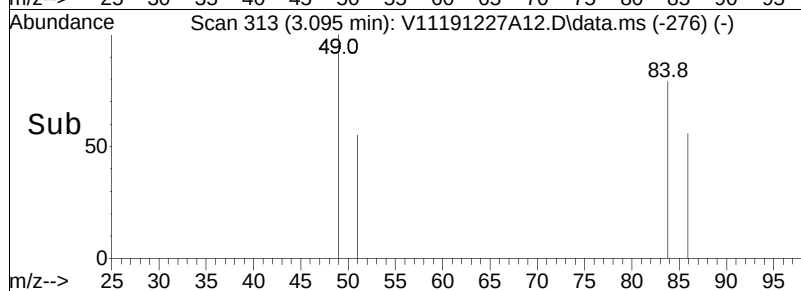
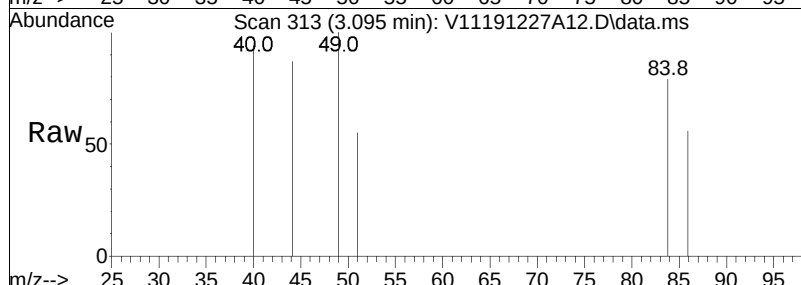
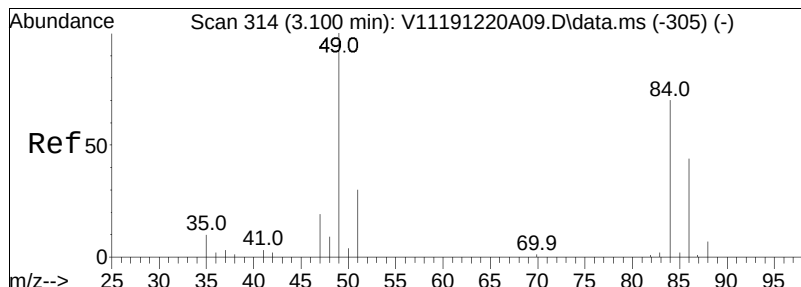
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D,31H,6.62,5,0.050,,a  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 27 10:58:26 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

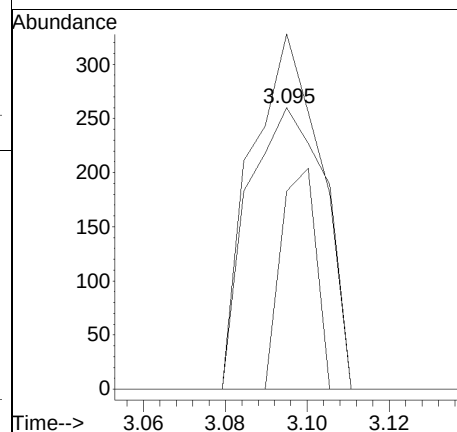
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

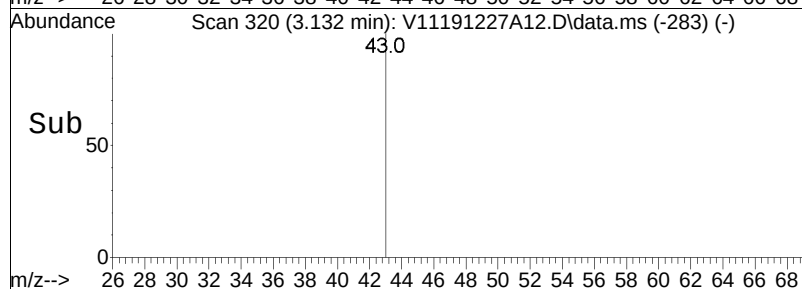
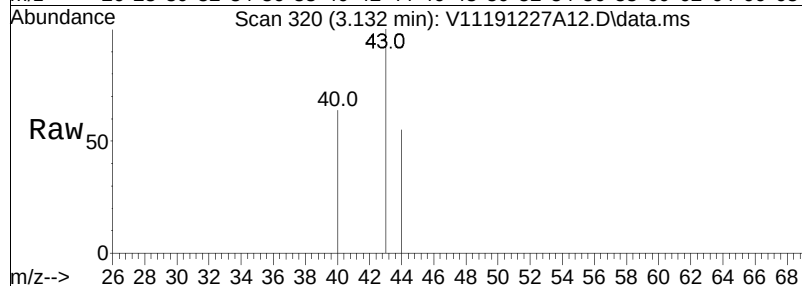
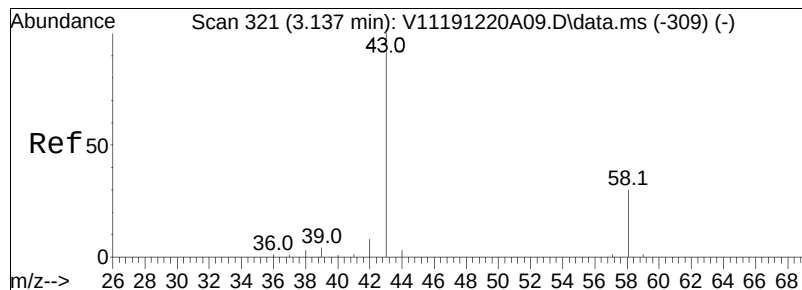




#15  
Methylene chloride  
Concen: 0.10 ug/L  
RT: 3.095 min Scan# 313  
Delta R.T. -0.005 min  
Lab File: V11191227A12.D  
Acq: 27 Dec 2019 09:55 am

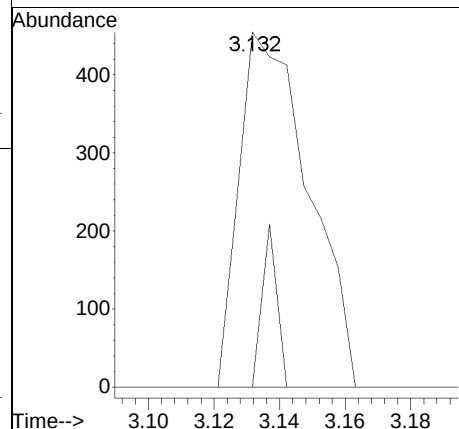
Tgt Ion: 84 Resp: 339  
Ion Ratio Lower Upper  
84 100  
86 36.0 41.1 85.3#  
49 113.3 124.2 258.0#

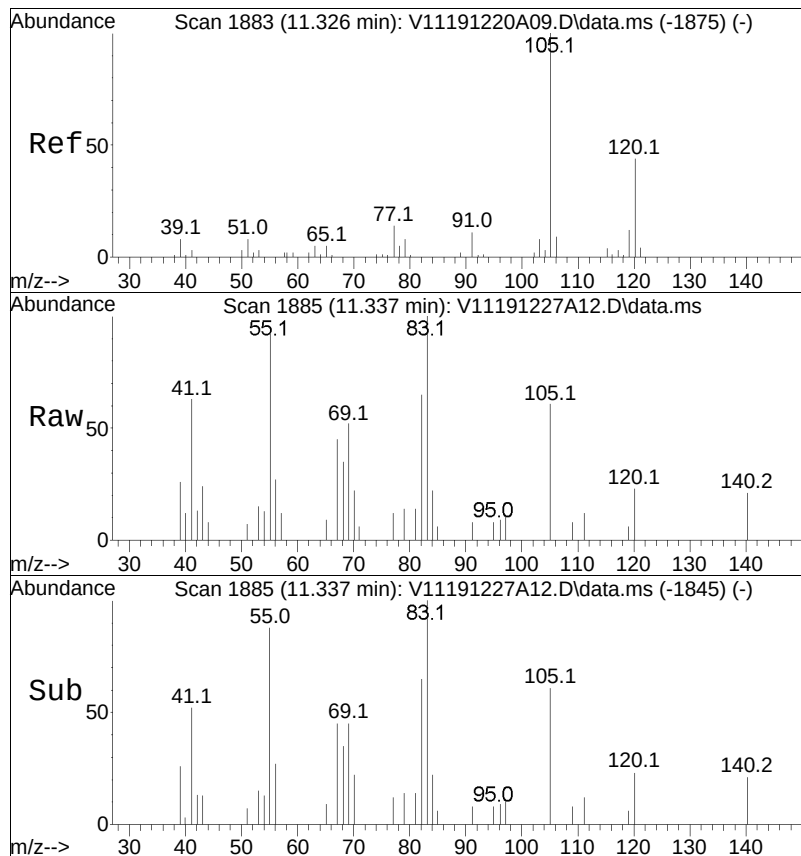




#17  
 Acetone  
 Concen: 0.92 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.005 min  
 Lab File: V11191227A12.D  
 Acq: 27 Dec 2019 09:55 am

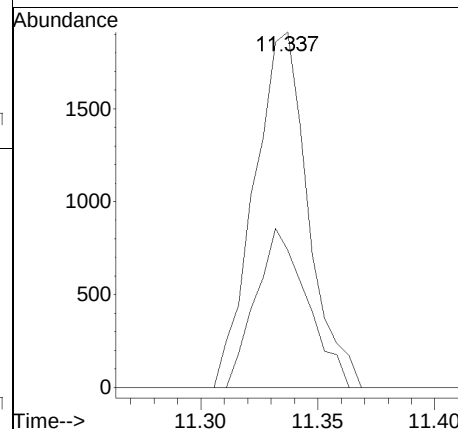
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 9.8   | 20.8  | 31.2# |

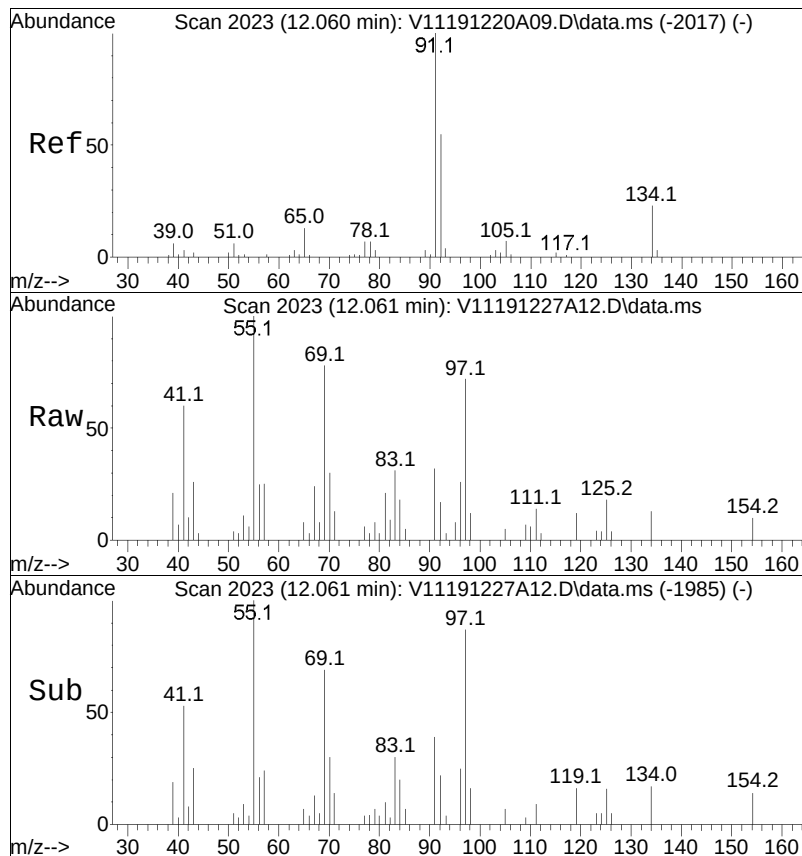




#97  
 1,2,4-Trimethylbenzene  
 Concen: 0.26 ug/L  
 RT: 11.337 min Scan# 1885  
 Delta R.T. 0.011 min  
 Lab File: V11191227A12.D  
 Acq: 27 Dec 2019 09:55 am

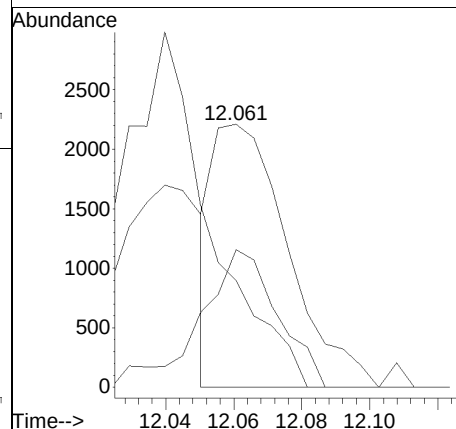
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 42.5 | 37.4  | 56.0  |       |

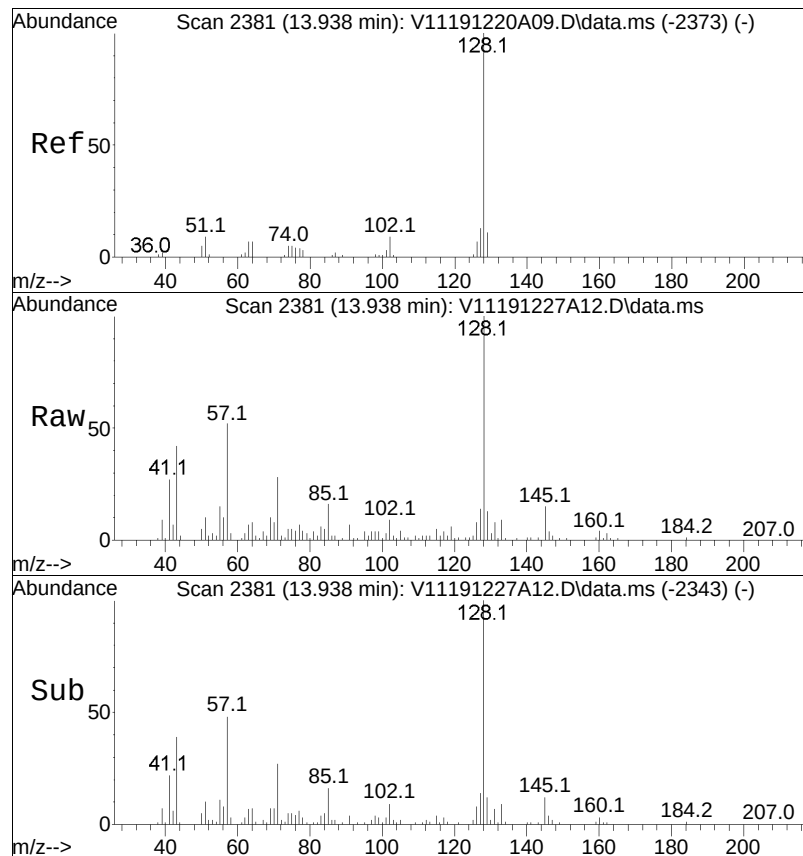




#103  
 n-Butylbenzene  
 Concen: 0.27 ug/L M3  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A12.D  
 Acq: 27 Dec 2019 09:55 am

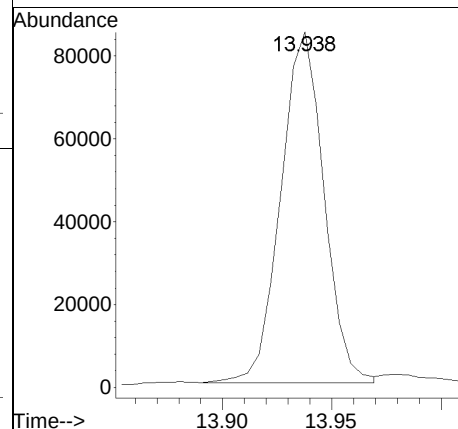
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 54.5  | 43.3  | 64.9  |
| 134     | 169.6 | 21.4  | 32.0  |





#110  
 Naphthalene  
 Concen: 13.77 ug/L  
 RT: 13.938 min Scan# 2381  
 Delta R.T. -0.000 min  
 Lab File: V11191227A12.D  
 Acq: 27 Dec 2019 09:55 am

Tgt Ion:128 Resp: 116443

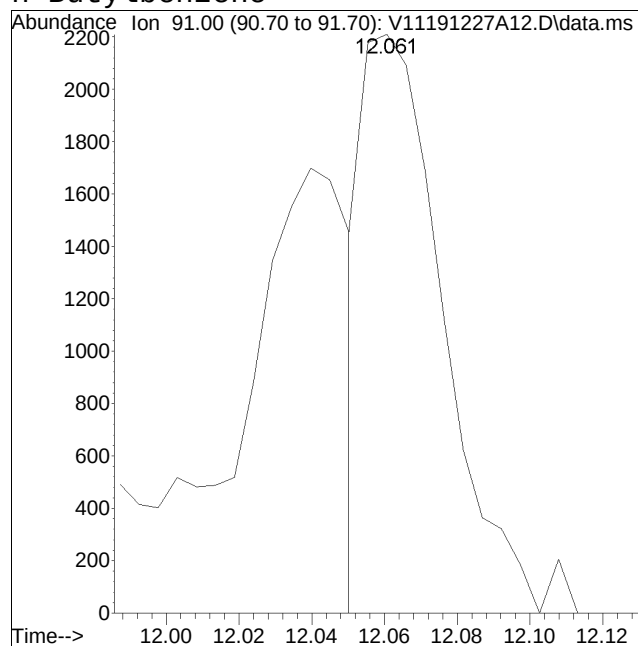
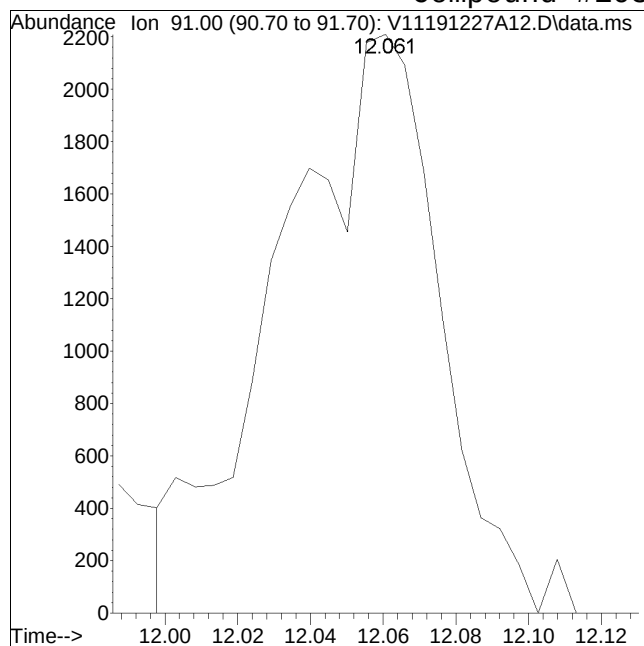




# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\10Method : V111\_191220A\_8260.m  
Data File : V11191227A12.D Operator : VOA111:MV  
Date Inj'd : 12/27/2019 9:55 am Instrument : VOA111  
Sample : l1961284-02D,31H,6.62,5,0.Quant Date : 12/27/2019 10:54 am

## Compound #103: n-Butylbenzene



Original Peak Response = 6790

Manual Peak Response = 3392 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: V11191227A12.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.678       | 603           | 615         | 637          | rBV      | 105680         | 206212        | 11.68%          | 0.956%        |
| 2         | 5.176       | 702           | 710         | 728          | rBV      | 110169         | 213213        | 12.08%          | 0.989%        |
| 3         | 5.454       | 752           | 763         | 790          | rBV      | 246760         | 481693        | 27.28%          | 2.234%        |
| 4         | 7.106       | 1068          | 1078        | 1105         | rBV      | 331293         | 653673        | 37.02%          | 3.032%        |
| 5         | 8.915       | 1412          | 1423        | 1444         | rBV      | 276593         | 552081        | 31.27%          | 2.561%        |
| 6         | 10.467      | 1711          | 1719        | 1738         | rBV      | 268024         | 488522        | 27.67%          | 2.266%        |
| 7         | 10.676      | 1751          | 1759        | 1771         | rBV      | 57282          | 98143         | 5.56%           | 0.455%        |
| 8         | 11.332      | 1872          | 1884        | 1893         | rVB7     | 27997          | 67697         | 3.83%           | 0.314%        |
| 9         | 11.688      | 1940          | 1952        | 1956         | rBV2     | 35701          | 65072         | 3.69%           | 0.302%        |
| 10        | 11.746      | 1956          | 1963        | 1970         | rBV      | 438662         | 675927        | 38.28%          | 3.135%        |
| 11        | 12.008      | 1992          | 2013        | 2019         | rBV      | 539677         | 934938        | 52.95%          | 4.336%        |
| 12        | 12.171      | 2037          | 2044        | 2051         | rBV3     | 46083          | 102423        | 5.80%           | 0.475%        |
| 13        | 12.370      | 2069          | 2082        | 2087         | rBV4     | 51698          | 153558        | 8.70%           | 0.712%        |
| 14        | 12.422      | 2087          | 2092        | 2099         | rBV3     | 57197          | 106852        | 6.05%           | 0.496%        |
| 15        | 12.491      | 2099          | 2105        | 2110         | rBV4     | 80991          | 133227        | 7.55%           | 0.618%        |
| 16        | 12.580      | 2117          | 2122        | 2128         | rBV2     | 170962         | 266434        | 15.09%          | 1.236%        |
| 17        | 12.695      | 2138          | 2144        | 2147         | rBV2     | 119325         | 183293        | 10.38%          | 0.850%        |
| 18        | 12.727      | 2148          | 2150        | 2155         | rVB2     | 52905          | 59377         | 3.36%           | 0.275%        |
| 19        | 12.821      | 2161          | 2168        | 2172         | rBV2     | 92953          | 147560        | 8.36%           | 0.684%        |
| 20        | 12.868      | 2172          | 2177        | 2183         | rBV      | 196058         | 295716        | 16.75%          | 1.372%        |
| 21        | 13.067      | 2209          | 2215        | 2223         | rBV3     | 464756         | 771838        | 43.71%          | 3.580%        |
| 22        | 13.183      | 2233          | 2237        | 2241         | rBV2     | 61289          | 84394         | 4.78%           | 0.391%        |
| 23        | 13.235      | 2241          | 2247        | 2249         | rVV3     | 309448         | 472958        | 26.79%          | 2.194%        |
| 24        | 13.261      | 2249          | 2252        | 2257         | rVV      | 411272         | 575998        | 32.62%          | 2.672%        |
| 25        | 13.314      | 2257          | 2262        | 2267         | rVV3     | 137802         | 237758        | 13.47%          | 1.103%        |
| 26        | 13.377      | 2267          | 2274        | 2279         | rVB3     | 99721          | 165575        | 9.38%           | 0.768%        |
| 27        | 13.466      | 2286          | 2291        | 2294         | rBV3     | 83845          | 130379        | 7.38%           | 0.605%        |
| 28        | 13.497      | 2294          | 2297        | 2302         | rVV      | 93107          | 128224        | 7.26%           | 0.595%        |

## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 29 | 13.586 | 2304 | 2314 | 2324 | rVV7 | 310483  | 772721  | 43.76%  | 3.584% |
| 30 | 13.660 | 2324 | 2328 | 2343 | rVB6 | 238194  | 472085  | 26.74%  | 2.190% |
| 31 | 13.759 | 2343 | 2347 | 2351 | rBV3 | 78382   | 111855  | 6.33%   | 0.519% |
| 32 | 13.822 | 2355 | 2359 | 2363 | rVB2 | 71310   | 97483   | 5.52%   | 0.452% |
| 33 | 13.943 | 2372 | 2382 | 2388 | rBV3 | 466537  | 816608  | 46.25%  | 3.787% |
| 34 | 14.058 | 2400 | 2404 | 2407 | rBV2 | 112519  | 134083  | 7.59%   | 0.622% |
| 35 | 14.095 | 2407 | 2411 | 2422 | rVB2 | 184134  | 283145  | 16.04%  | 1.313% |
| 36 | 14.195 | 2427 | 2430 | 2433 | rVV  | 60259   | 74217   | 4.20%   | 0.344% |
| 37 | 14.263 | 2437 | 2443 | 2450 | rVB4 | 389237  | 624772  | 35.38%  | 2.898% |
| 38 | 14.362 | 2457 | 2462 | 2465 | rBV2 | 173414  | 238810  | 13.53%  | 1.108% |
| 39 | 14.415 | 2466 | 2472 | 2478 | rVV4 | 163442  | 483081  | 27.36%  | 2.241% |
| 40 | 14.462 | 2479 | 2481 | 2485 | rVB3 | 102349  | 108717  | 6.16%   | 0.504% |
| 41 | 14.556 | 2495 | 2499 | 2504 | rBV3 | 260817  | 414913  | 23.50%  | 1.924% |
| 42 | 14.693 | 2519 | 2525 | 2527 | rBV4 | 162502  | 263409  | 14.92%  | 1.222% |
| 43 | 14.756 | 2533 | 2537 | 2545 | rVB6 | 147755  | 270792  | 15.34%  | 1.256% |
| 44 | 14.876 | 2554 | 2560 | 2568 | rVV  | 1291011 | 1765681 | 100.00% | 8.189% |
| 45 | 14.950 | 2568 | 2574 | 2579 | rVB5 | 113321  | 209393  | 11.86%  | 0.971% |
| 46 | 15.013 | 2579 | 2586 | 2592 | rVB  | 705693  | 987743  | 55.94%  | 4.581% |
| 47 | 15.054 | 2592 | 2594 | 2600 | rVB6 | 45695   | 64932   | 3.68%   | 0.301% |
| 48 | 15.107 | 2600 | 2604 | 2608 | rBV3 | 54906   | 83213   | 4.71%   | 0.386% |
| 49 | 15.264 | 2625 | 2634 | 2644 | rVB2 | 166186  | 433676  | 24.56%  | 2.011% |
| 50 | 15.343 | 2644 | 2649 | 2656 | rVB4 | 59602   | 96273   | 5.45%   | 0.447% |
| 51 | 15.427 | 2656 | 2665 | 2675 | rBV6 | 115470  | 345349  | 19.56%  | 1.602% |
| 52 | 15.500 | 2676 | 2679 | 2686 | rVB3 | 47311   | 61023   | 3.46%   | 0.283% |
| 53 | 15.579 | 2689 | 2694 | 2697 | rBV6 | 36137   | 59616   | 3.38%   | 0.277% |
| 54 | 15.626 | 2697 | 2703 | 2710 | rVB  | 287361  | 466661  | 26.43%  | 2.164% |
| 55 | 15.757 | 2722 | 2728 | 2737 | rVB  | 705411  | 1061801 | 60.14%  | 4.925% |
| 56 | 15.878 | 2744 | 2751 | 2755 | rBV  | 610505  | 985497  | 55.81%  | 4.571% |
| 57 | 15.914 | 2755 | 2758 | 2767 | rVB  | 347124  | 520321  | 29.47%  | 2.413% |
| 58 | 16.051 | 2778 | 2784 | 2788 | rBV  | 46669   | 77523   | 4.39%   | 0.360% |
| 59 | 16.135 | 2795 | 2800 | 2811 | rVB  | 109390  | 201278  | 11.40%  | 0.934% |
| 60 | 16.260 | 2819 | 2824 | 2840 | rVB2 | 60474   | 139394  | 7.89%   | 0.647% |

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |       |        |       |        |
|----|--------|------|------|------|------|-------|--------|-------|--------|
| 61 | 16.423 | 2851 | 2855 | 2862 | rVB  | 31378 | 53703  | 3.04% | 0.249% |
| 62 | 16.512 | 2863 | 2872 | 2880 | rVB3 | 21000 | 56302  | 3.19% | 0.261% |
| 63 | 16.601 | 2881 | 2889 | 2896 | rBV  | 71723 | 139295 | 7.89% | 0.646% |
| 64 | 16.858 | 2931 | 2938 | 2943 | rBV  | 30450 | 58339  | 3.30% | 0.271% |
| 65 | 16.905 | 2943 | 2947 | 2964 | rVB2 | 34509 | 74255  | 4.21% | 0.344% |

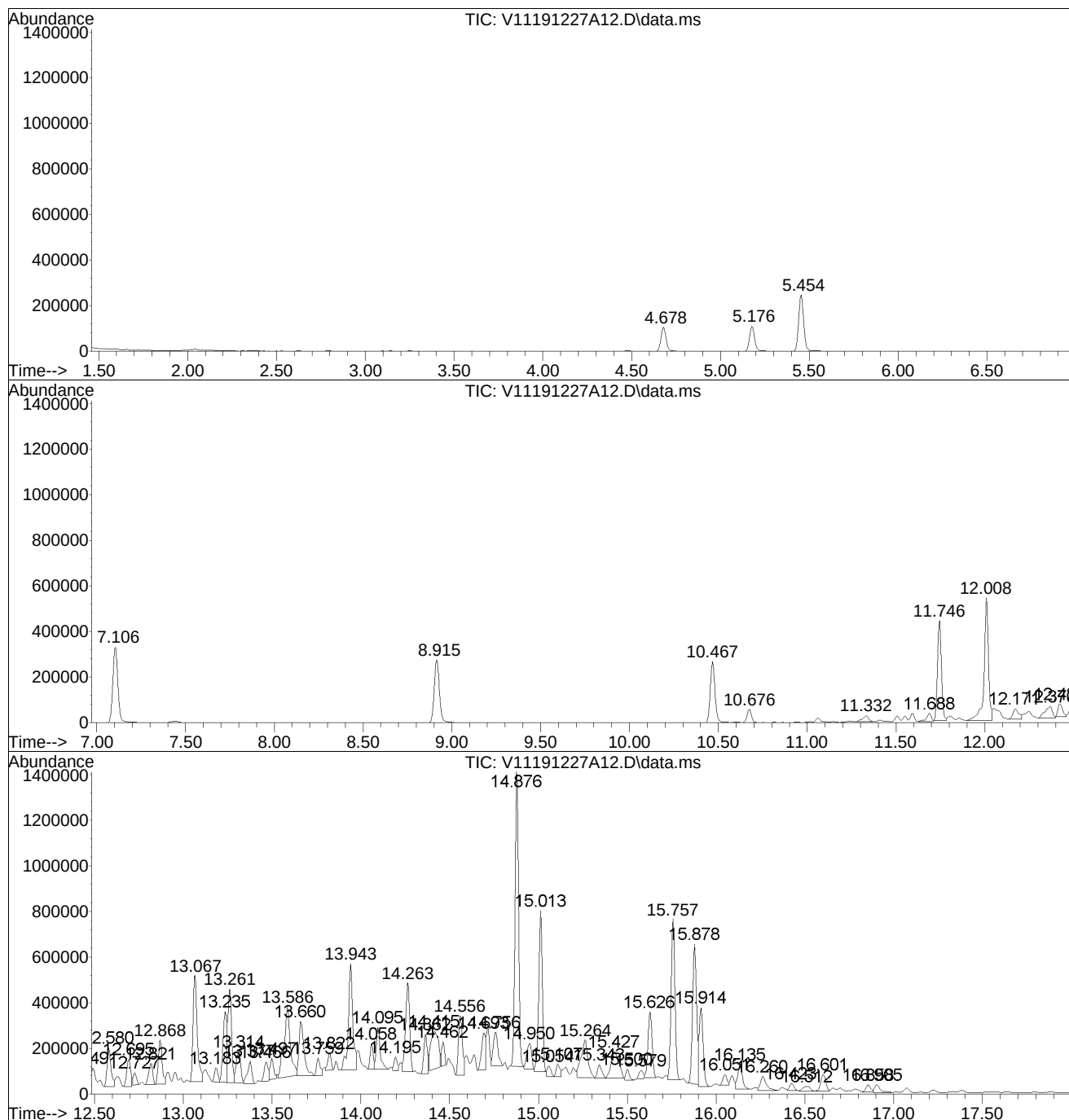
Sum of corrected areas: 21560694

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : 11961284-02D, 31H, 6.62, 5, 0.050, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

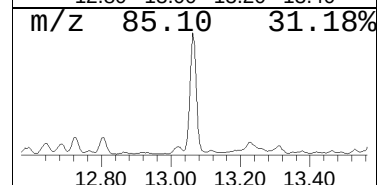
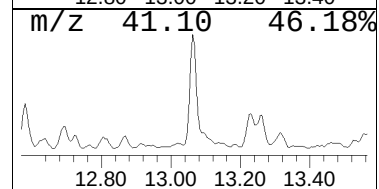
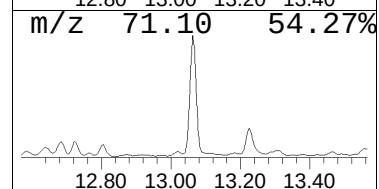
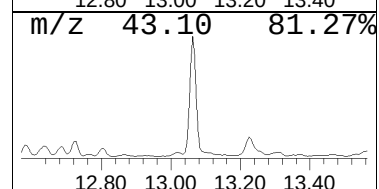
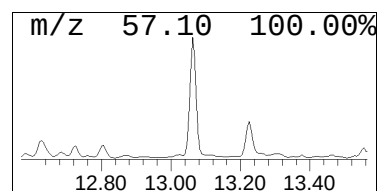
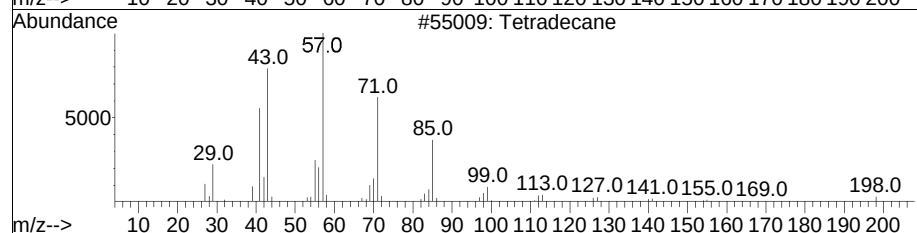
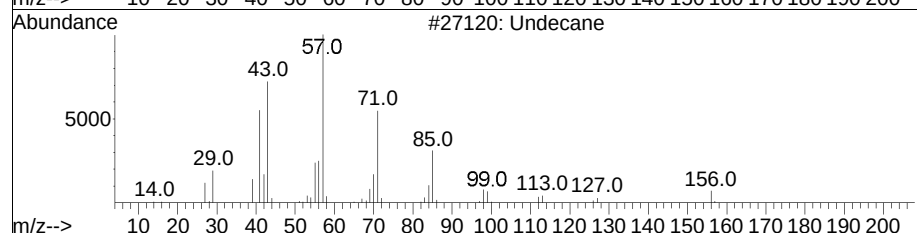
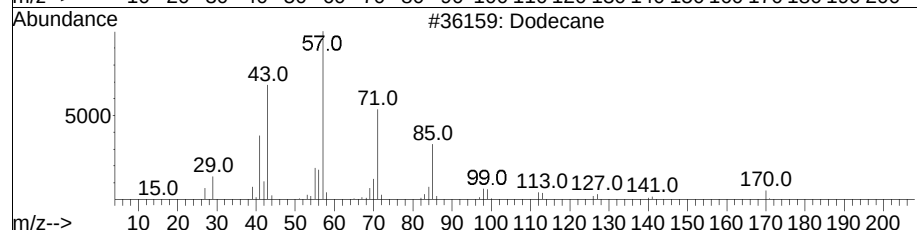
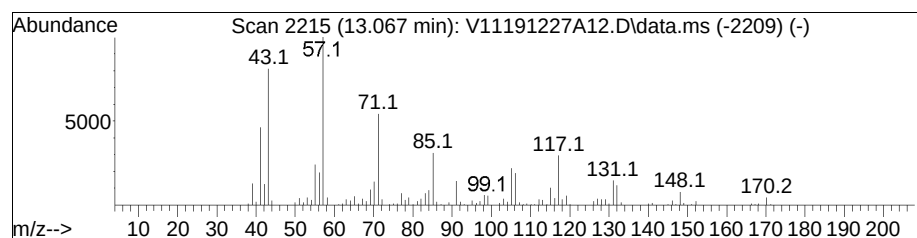
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 1 Dodecane Concentration Rank 6

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.067 | 22.84 ug/L | 771838 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Dodecane    |              | 170 | C12H26  | 000112-40-3 | 95   |
| 2       | Undecane    |              | 156 | C11H24  | 001120-21-4 | 46   |
| 3       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 46   |
| 4       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 43   |
| 5       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 43   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

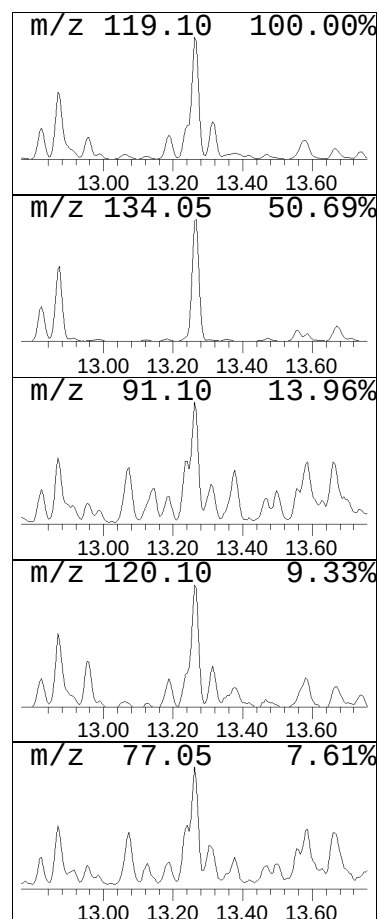
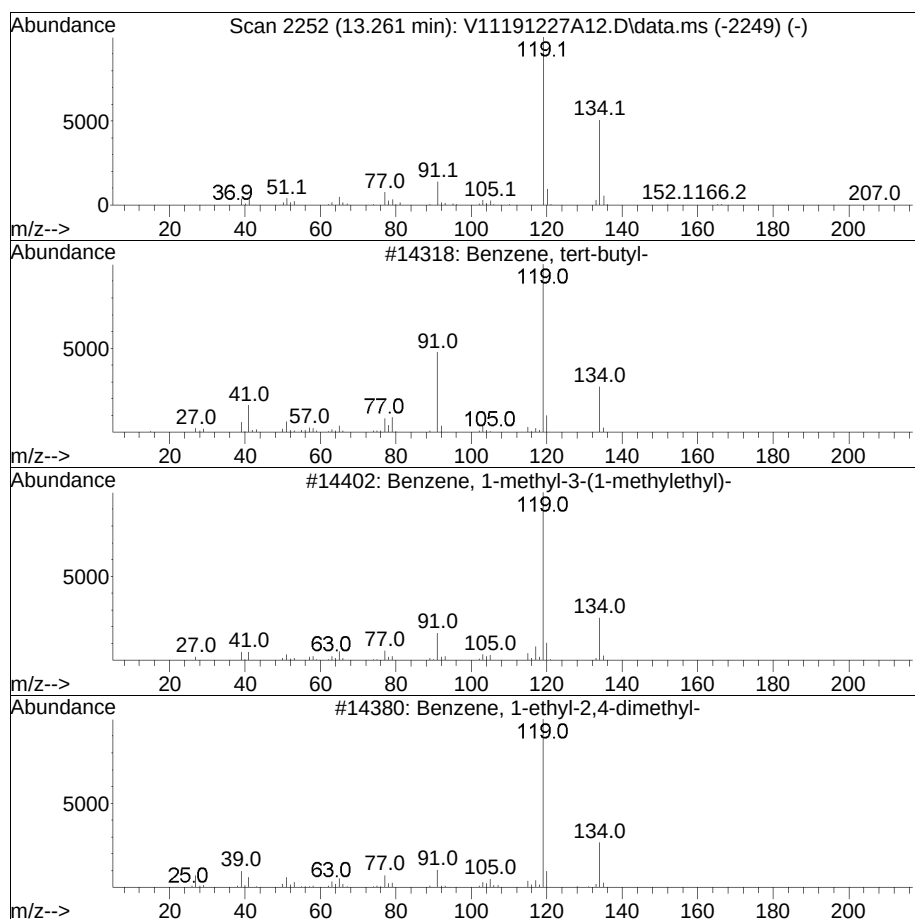
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 2 Unknown Benzene Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.261 | 17.04 ug/L | 575998 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | Benzene, tert-butyl-                | 134          | C10H14 | 000098-06-6 | 91   |      |
| 2       | Benzene, 1-methyl-3-(1-methyleth... | 134          | C10H14 | 000535-77-3 | 91   |      |
| 3       | Benzene, 1-ethyl-2,4-dimethyl-      | 134          | C10H14 | 000874-41-9 | 91   |      |
| 4       | Benzene, 1,2,3,5-tetramethyl-       | 134          | C10H14 | 000527-53-7 | 91   |      |
| 5       | Benzene, 1-methyl-2-(1-methyleth... | 134          | C10H14 | 000527-84-4 | 90   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

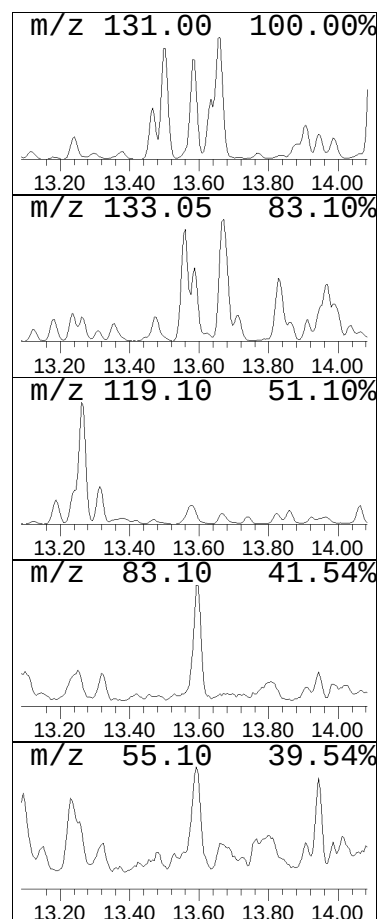
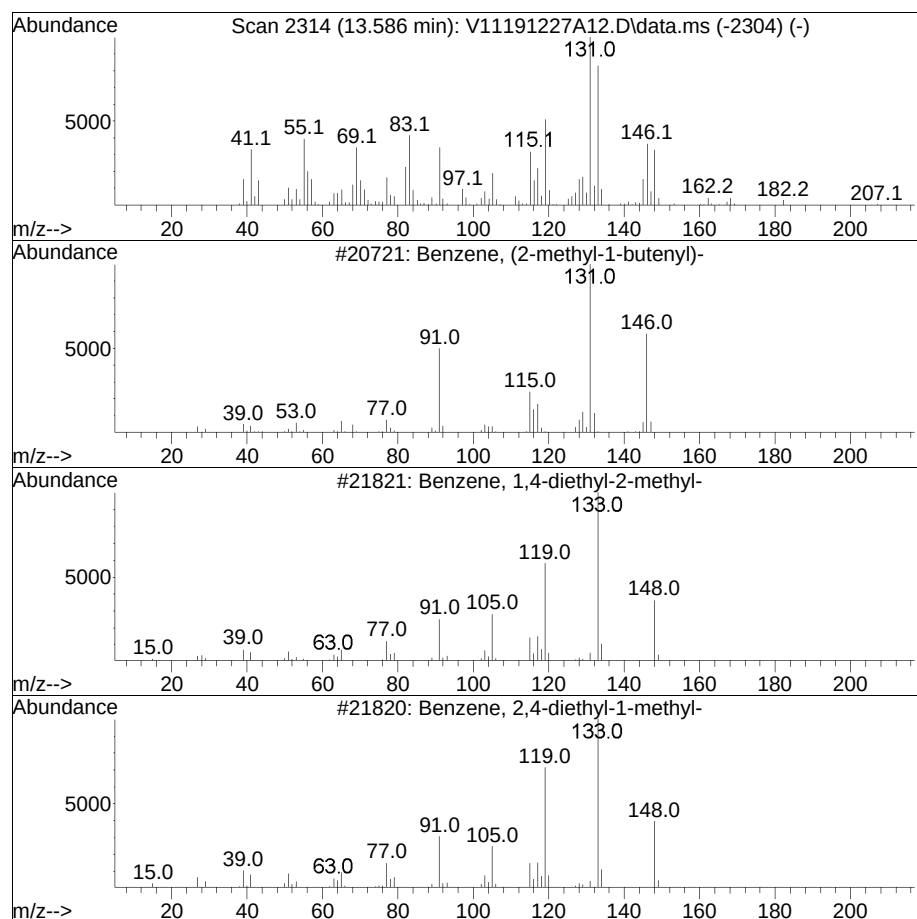
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 3 Unknown Benzene Concentration Rank 5

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.586 | 22.86 ug/L | 772721 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14  | 056253-64-6 | 80   |
| 2       |   | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16  | 013632-94-5 | 50   |
| 3       |   | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16  | 001758-85-6 | 50   |
| 4       |   | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16  | 002050-24-0 | 50   |
| 5       |   | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14  | 053172-84-2 | 47   |





## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

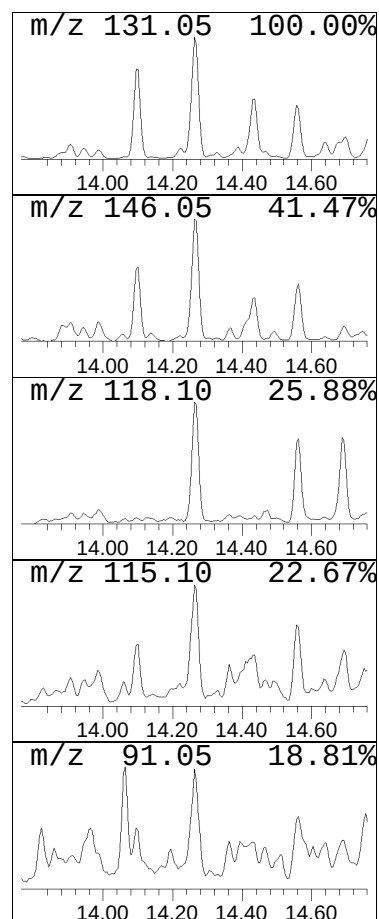
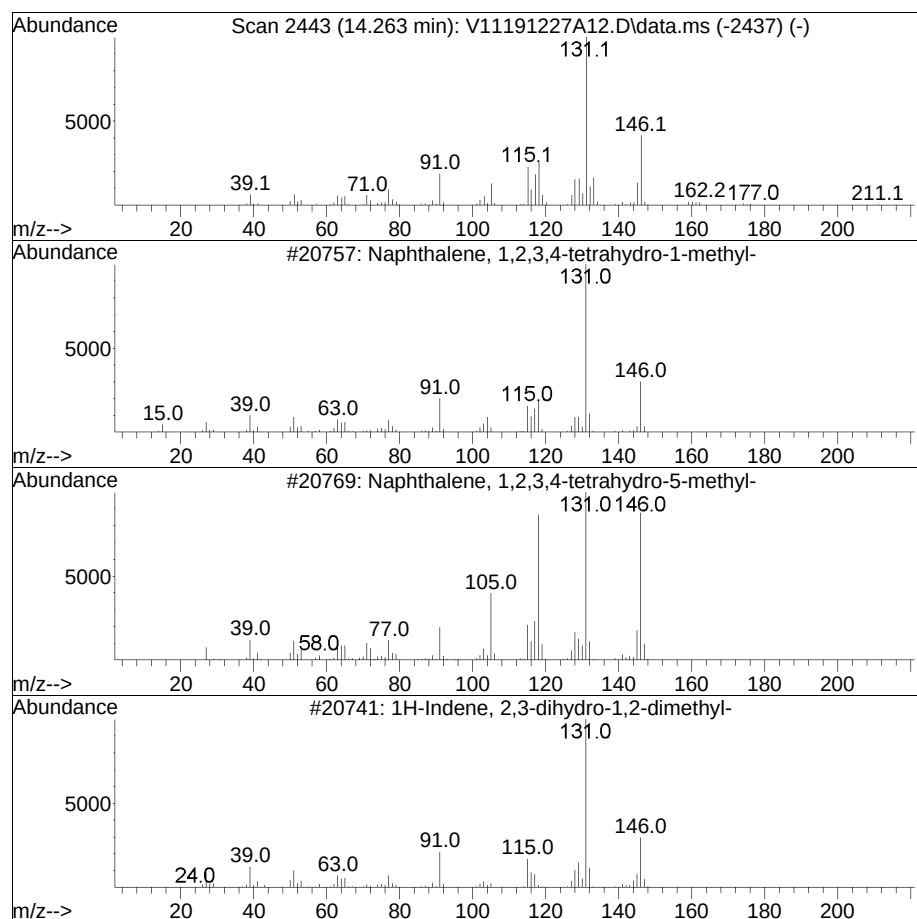
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 4 Unknown Naphthalene Concentration Rank 7

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.263 | 18.49 ug/L | 624772 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 1,2,3,4-tetrahydro-... | 146          | C11H14 | 001559-81-5 | 93   |      |
| 2       | Naphthalene, 1,2,3,4-tetrahydro-... | 146          | C11H14 | 002809-64-5 | 91   |      |
| 3       | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146          | C11H14 | 017057-82-8 | 81   |      |
| 4       | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146          | C11H14 | 006682-71-9 | 81   |      |
| 5       | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146          | C11H14 | 017059-48-2 | 81   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

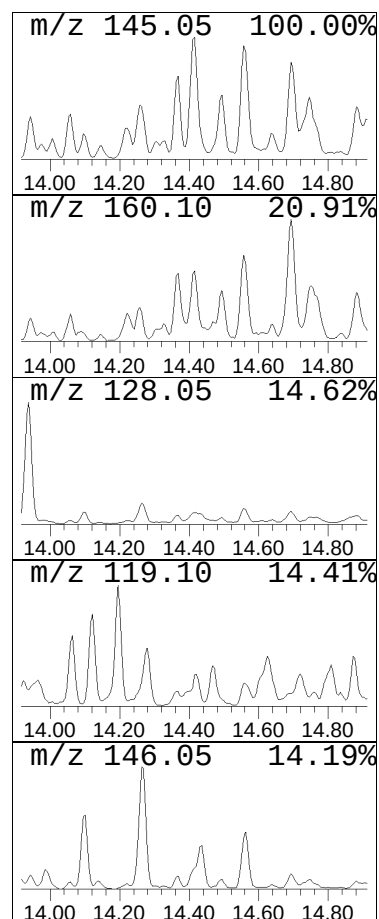
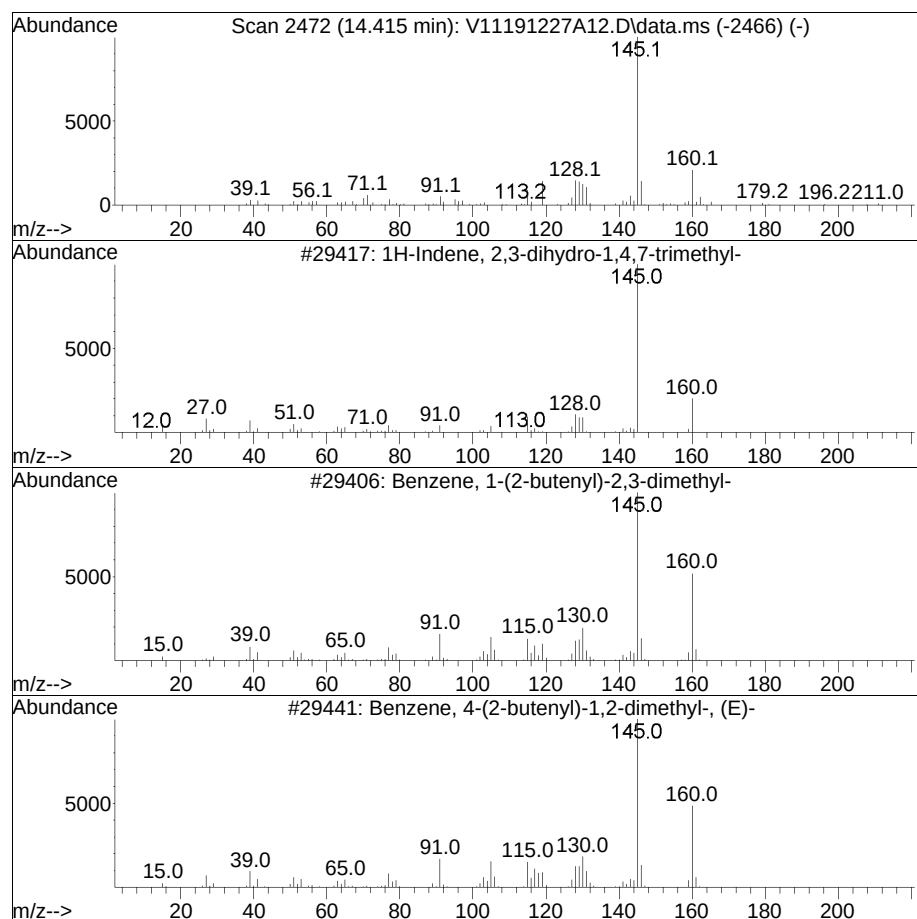
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 5 Unknown Aromatic Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.415 | 14.29 ug/L | 483081 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | 1H-Indene, 2,3-dihydro-1,4,7-tri... | 160 | C12H16  | 054340-87-3 | 93   |
| 2       |   | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16  | 054340-85-1 | 87   |
| 3       |   | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16  | 054340-86-2 | 87   |
| 4       |   | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160 | C12H16  | 040650-41-7 | 87   |
| 5       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 025419-33-4 | 87   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

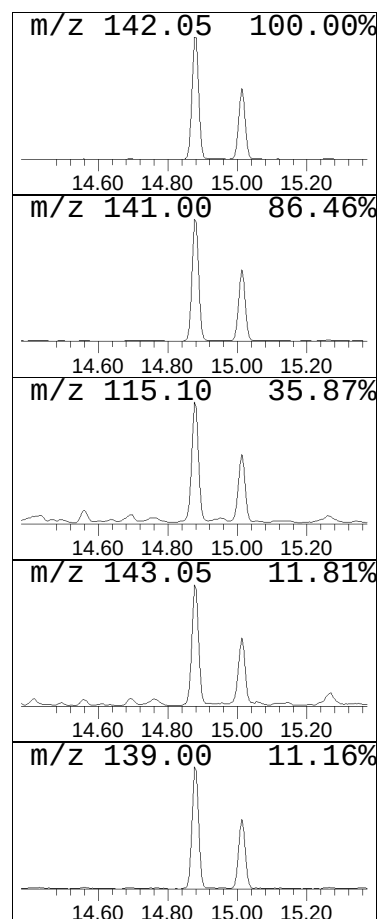
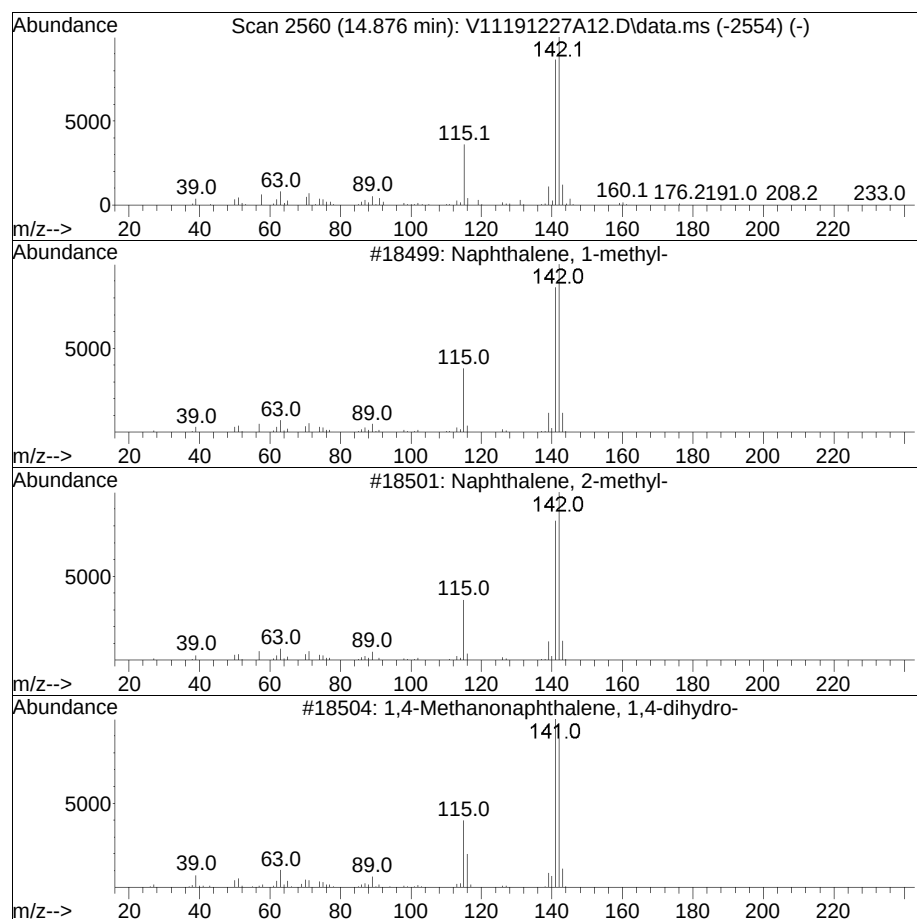
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 6 Unknown Aromatic Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.876 | 52.24 ug/L | 1765680 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 4       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

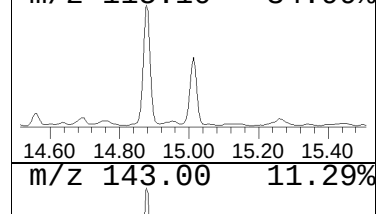
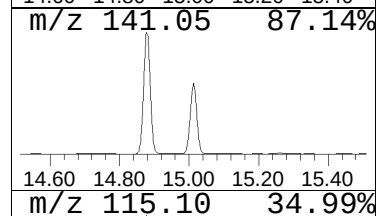
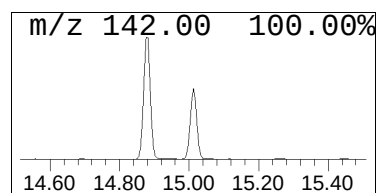
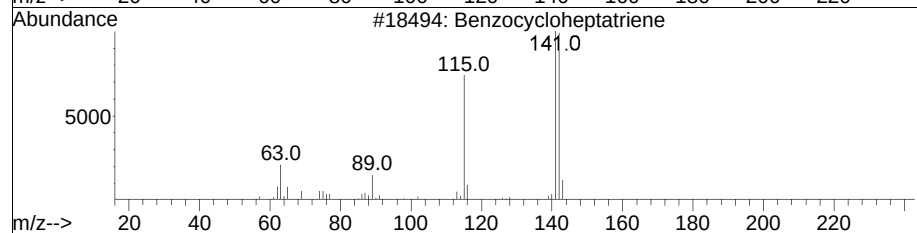
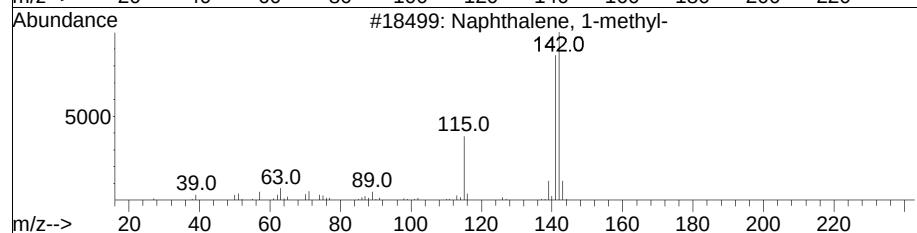
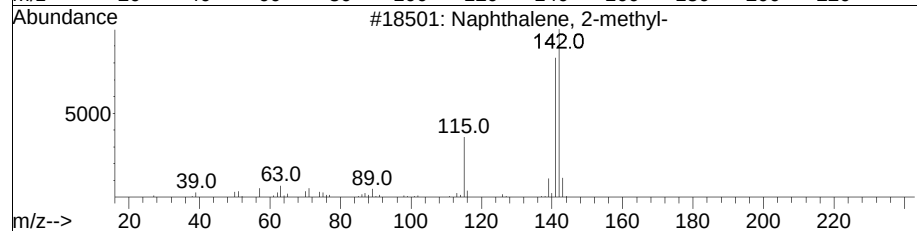
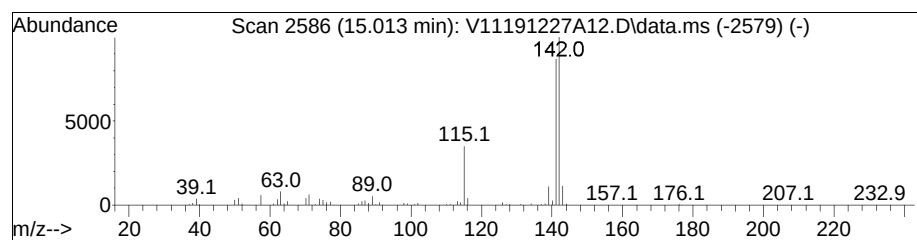
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 7 Unknown Aromatic Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.012 | 29.23 ug/L | 987743 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

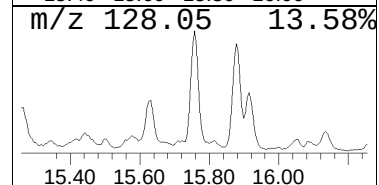
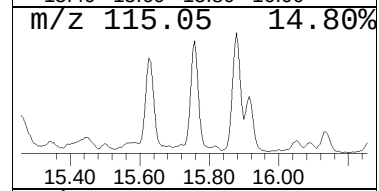
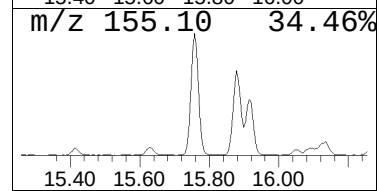
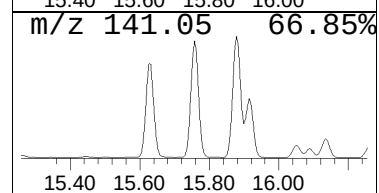
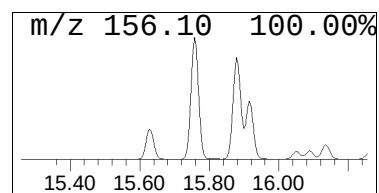
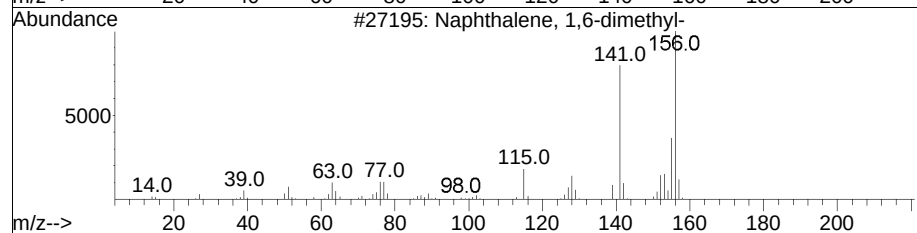
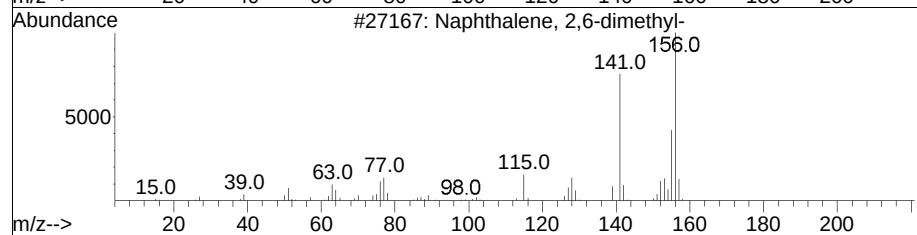
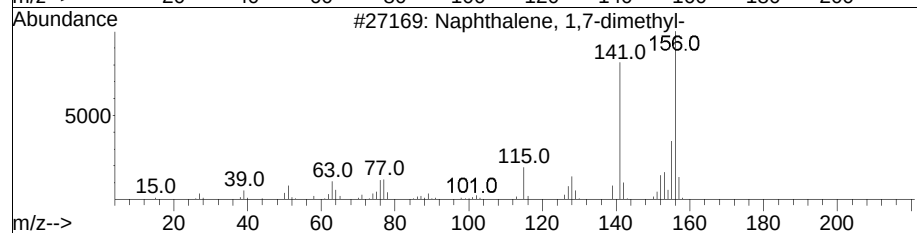
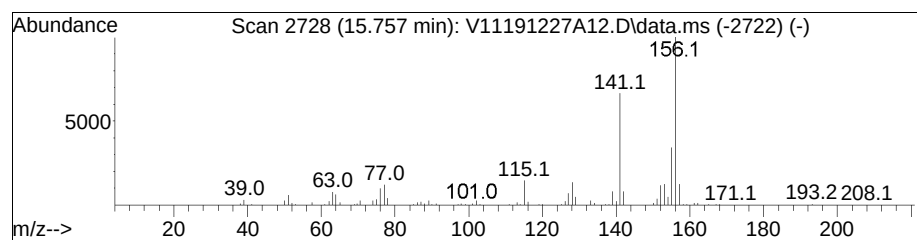
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 8 Unknown Naphthalene Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.757 | 31.42 ug/L | 1061800 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 2       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 3       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 4       |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 5       |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

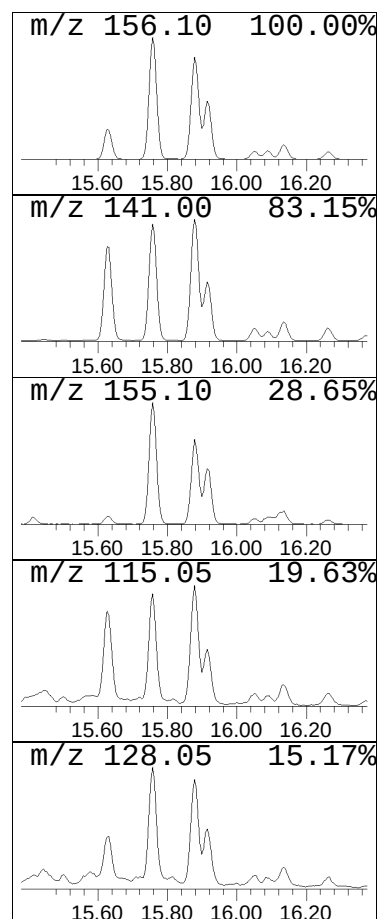
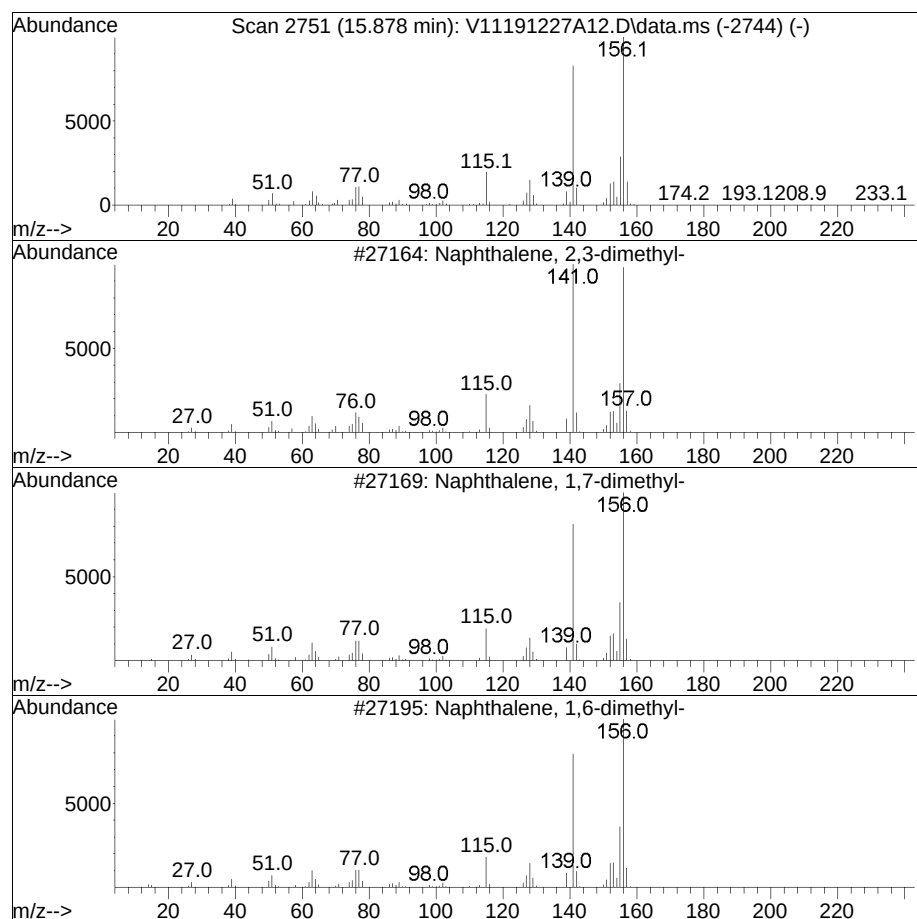
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 9 Unknown Naphthalene Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.878 | 29.16 ug/L | 985497 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 98   |      |
| 2       | Naphthalene, 1,7-dimethyl- | 156          | C12H12 | 000575-37-1 | 98   |      |
| 3       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 98   |      |
| 4       | Naphthalene, 1,4-dimethyl- | 156          | C12H12 | 000571-58-4 | 97   |      |
| 5       | Naphthalene, 1,3-dimethyl- | 156          | C12H12 | 000575-41-7 | 97   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A12.D  
Acq On : 27 Dec 2019 09:55 am  
Operator : VOA111:MV  
Sample : l1961284-02D,31H,6.62,5,0.050,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 12 Sample Multiplier: 1

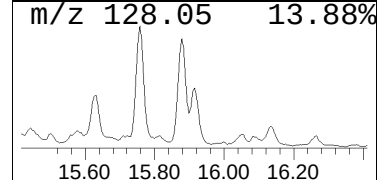
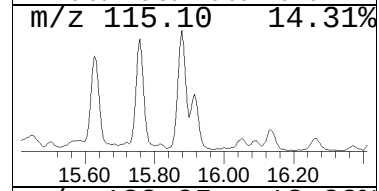
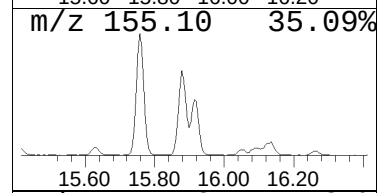
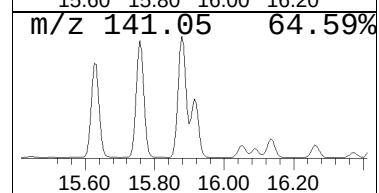
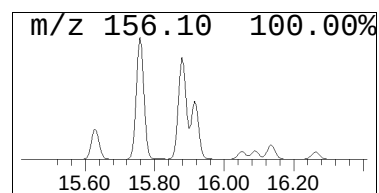
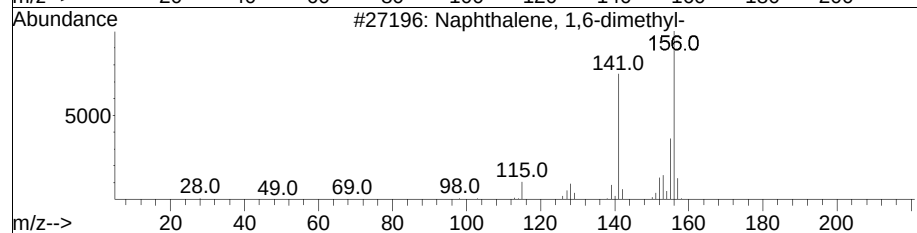
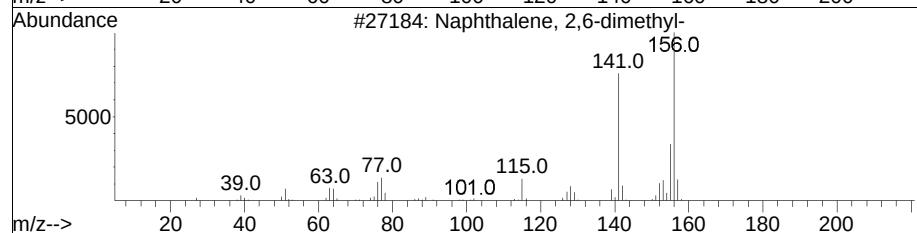
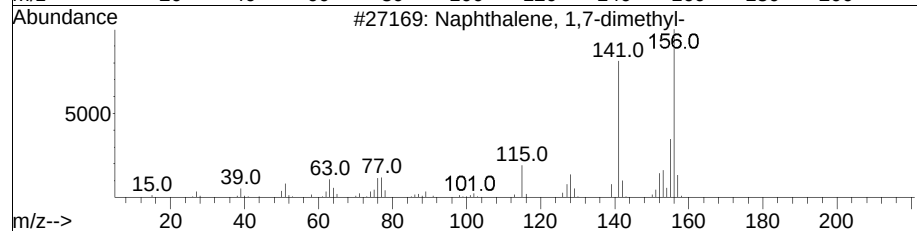
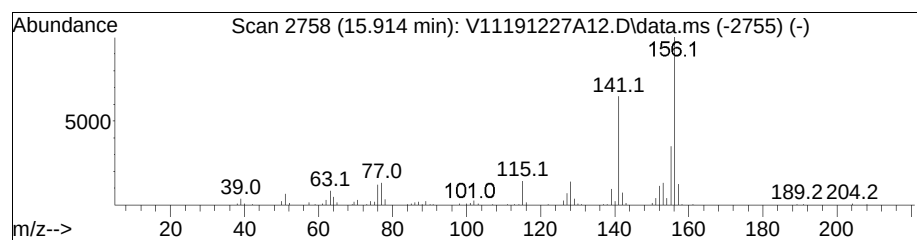
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 10 Unknown Naphthalene Concentration Rank 9

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.914 | 15.40 ug/L | 520321 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 2       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 3       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 4       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 5       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A12.D  
 Acq On : 27 Dec 2019 09:55 am  
 Operator : VOA111:MV  
 Sample : l1961284-02D, 31H, 6.62, 5, 0.050, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 12 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard--- |        |        |      |
|--------------------|--------|---------|-------|----------|------------------------|--------|--------|------|
|                    |        |         |       |          | #                      | RT     | Resp   | Conc |
| Dodecane           | 13.067 | 22.8    | ug/L  | 771838   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Benzene    | 13.261 | 17.0    | ug/L  | 575998   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Benzene    | 13.586 | 22.9    | ug/L  | 772721   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Naphtha... | 14.263 | 18.5    | ug/L  | 624772   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Aromatic   | 14.415 | 14.3    | ug/L  | 483081   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Aromatic   | 14.876 | 52.2    | ug/L  | 1765680  | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Aromatic   | 15.012 | 29.2    | ug/L  | 987743   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Naphtha... | 15.757 | 31.4    | ug/L  | 1061800  | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Naphtha... | 15.878 | 29.2    | ug/L  | 985497   | 3                      | 11.746 | 675927 | 20.0 |
| Unknown Naphtha... | 15.914 | 15.4    | ug/L  | 520321   | 3                      | 11.746 | 675927 | 20.0 |



# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D, 31H, 6.39, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 30 09:48:24 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 323255   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 118.45% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 269696   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 121.75% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 141131   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 117.27% |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 80947    | 18.812 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 94.06%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 84270    | 18.328 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 91.64%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 352181   | 18.726 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 93.63%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 151241   | 20.776 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 103.88% |          |
| Target Compounds             |                |      |          |        |         |          |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 48       | N.D.   |         |          |
| 3) Chloromethane             | 1.653          | 50   | 451      | N.D.   |         |          |
| 4) Vinyl chloride            | 0.000          |      | 0        | N.D.   |         |          |
| 5) Bromomethane              | 0.000          |      | 0        | N.D.   |         |          |
| 6) Chloroethane              | 0.000          |      | 0        | N.D.   |         |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0        | N.D.   |         |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0        | N.D.   |         |          |
| 11) Carbon disulfide         | 2.623          | 76   | 2917     | 0.216  | ug/L #  | 78       |
| 12) Freon-113                | 0.000          |      | 0        | N.D.   |         |          |
| 15) Methylene chloride       | 3.095          | 84   | 481      | 0.104  | ug/L    | 81       |
| 17) Acetone                  | 3.142          | 43   | 579      | 0.552  | ug/L #  | 49       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0        | N.D.   |         |          |
| 19) Methyl acetate           | 0.000          |      | 0        | N.D.   | d       |          |
| 20) Methyl tert-butyl ether  | 0.000          |      | 0        | N.D.   |         |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0        | N.D.   |         |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0        | N.D.   |         |          |
| 31) Cyclohexane              | 0.000          |      | 0        | N.D.   |         |          |
| 32) Chloroform               | 0.000          |      | 0        | N.D.   |         |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0        | N.D.   |         |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0        | N.D.   |         |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D, 31H, 6.39, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 30 09:48:24 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                       | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|--------|--------|----------|
| 39) 2-Butanone                 | 0.000  |      | 0        | N.D.   |        |          |
| 41) Benzene                    | 5.045  | 78   | 233      | N.D.   |        |          |
| 44) 1,2-Dichloroethane         | 0.000  |      | 0        | N.D.   |        |          |
| 47) Methyl cyclohexane         | 0.000  |      | 0        | N.D.   |        |          |
| 48) Trichloroethene            | 0.000  |      | 0        | N.D.   |        |          |
| 51) 1,2-Dichloropropane        | 0.000  |      | 0        | N.D.   |        |          |
| 54) Bromodichloromethane       | 0.000  |      | 0        | N.D.   |        |          |
| 58) cis-1,3-Dichloropropene    | 0.000  |      | 0        | N.D.   |        |          |
| 61) Toluene                    | 7.158  | 92   | 75       | N.D.   |        |          |
| 62) 4-Methyl-2-pentanone       | 0.000  |      | 0        | N.D.   |        |          |
| 63) Tetrachloroethene          | 0.000  |      | 0        | N.D.   |        |          |
| 65) trans-1,3-Dichloropropene  | 0.000  |      | 0        | N.D.   |        |          |
| 68) 1,1,2-Trichloroethane      | 0.000  |      | 0        | N.D.   | d      |          |
| 69) Chlorodibromomethane       | 0.000  |      | 0        | N.D.   |        |          |
| 71) 1,2-Dibromoethane          | 0.000  |      | 0        | N.D.   |        |          |
| 72) 2-Hexanone                 | 0.000  |      | 0        | N.D.   | d      |          |
| 73) Chlorobenzene              | 0.000  |      | 0        | N.D.   |        |          |
| 74) Ethylbenzene               | 8.988  | 91   | 50       | N.D.   |        |          |
| 76) p/m Xylene                 | 9.177  | 106  | 255      | N.D.   |        |          |
| 77) o Xylene                   | 9.706  | 106  | 55       | N.D.   |        |          |
| 78) Styrene                    | 0.000  |      | 0        | N.D.   |        |          |
| 80) Bromoform                  | 0.000  |      | 0        | N.D.   |        |          |
| 82) Isopropylbenzene           | 10.126 | 105  | 892      | N.D.   |        |          |
| 85) n-Propylbenzene            | 10.650 | 91   | 5426     | 0.232  | ug/L # | 89       |
| 87) 1,1,2,2-Tetrachloroethane  | 0.000  |      | 0        | N.D.   | d      |          |
| 90) 1,3,5-Trimethylbenzene     | 10.891 | 105  | 18792    | 1.203  | ug/L   | 96       |
| 94) tert-Butylbenzene          | 11.243 | 119  | 746      | N.D.   |        |          |
| 97) 1,2,4-Trimethylbenzene     | 11.332 | 105  | 132020   | 8.615  | ug/L   | 98       |
| 98) sec-Butylbenzene           | 11.447 | 105  | 18668    | 0.955  | ug/L   | 88       |
| 99) p-Isopropyltoluene         | 11.615 | 119  | 29779    | 1.902  | ug/L   | 96       |
| 100) 1,3-Dichlorobenzene       | 0.000  |      | 0        | N.D.   |        |          |
| 101) 1,4-Dichlorobenzene       | 0.000  |      | 0        | N.D.   |        |          |
| 103) n-Butylbenzene            | 12.060 | 91   | 114600   | 6.989  | ug/L # | 42       |
| 104) 1,2-Dichlorobenzene       | 0.000  |      | 0        | N.D.   |        |          |
| 106) 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.   | d      |          |
| 109) 1,2,4-Trichlorobenzene    | 0.000  |      | 0        | N.D.   | d      |          |
| 110) Naphthalene               | 13.937 | 128  | 550688   | 50.517 | ug/L   | 100      |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D, 31H, 6.39, 5, 0.025,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 30 09:48:24 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

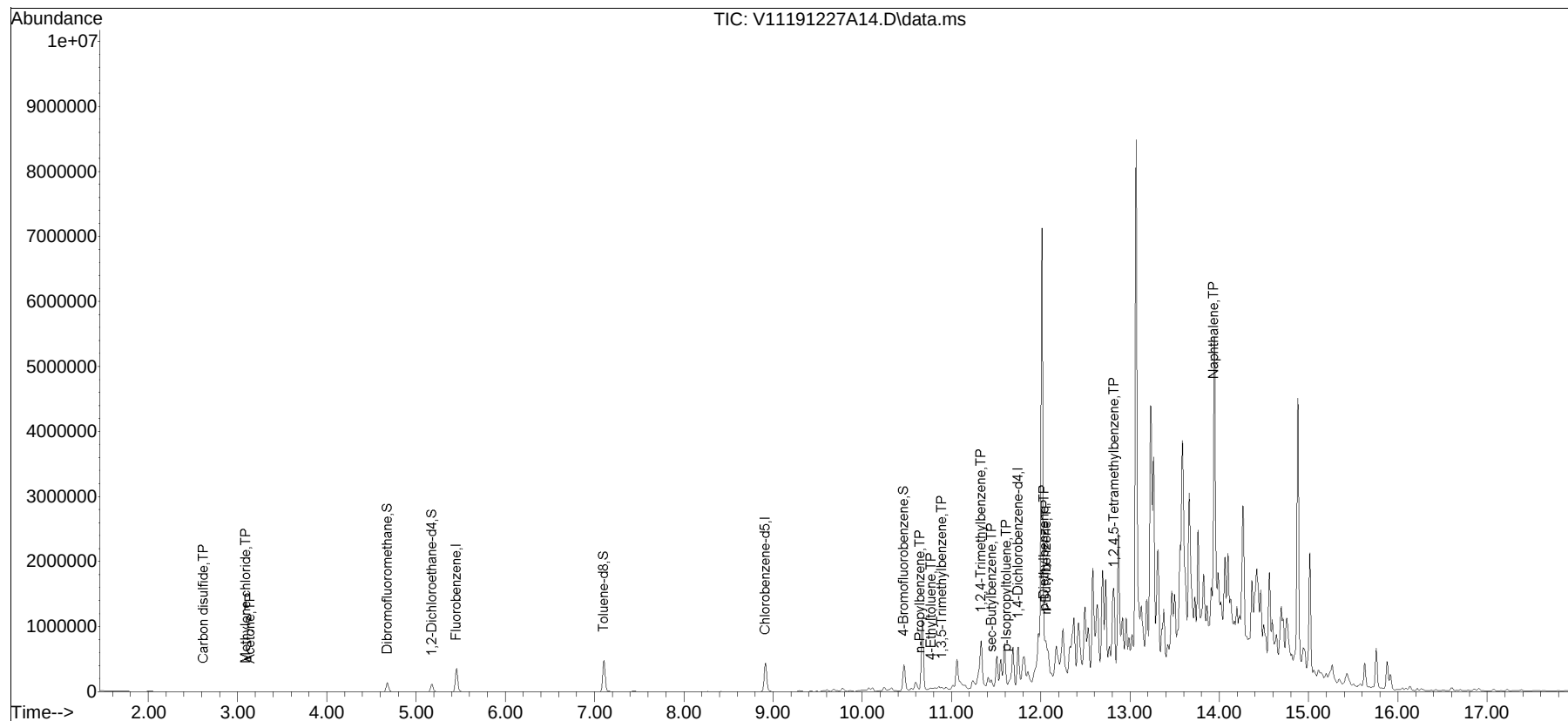
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

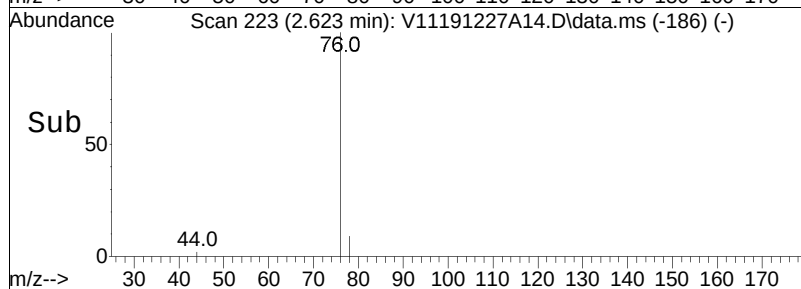
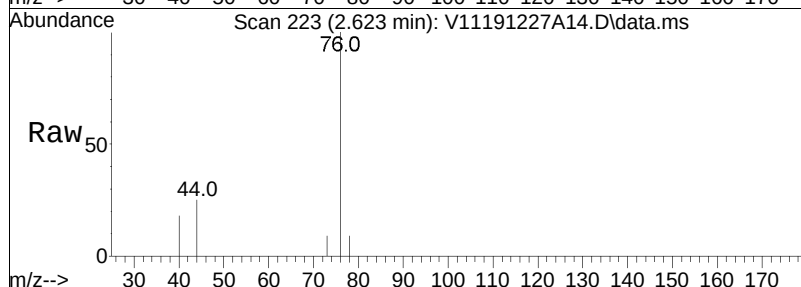
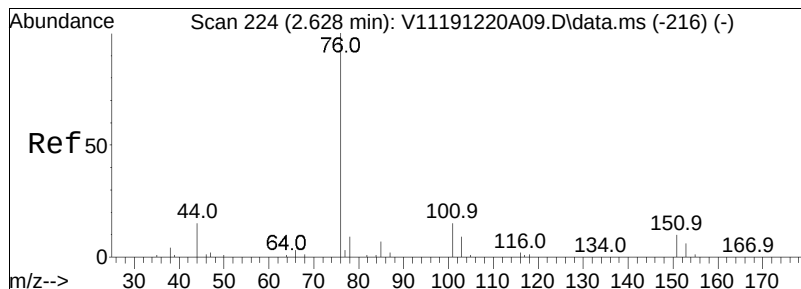
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D,31H,6.39,5,0.025,,a  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 30 09:48:24 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

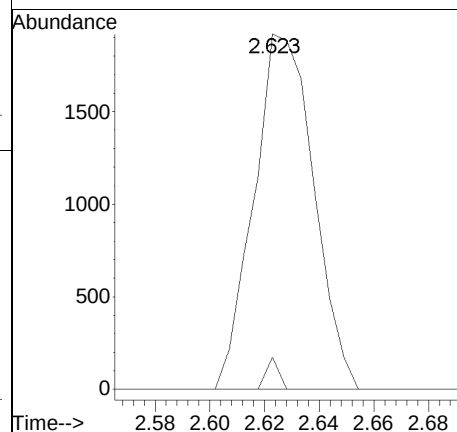
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

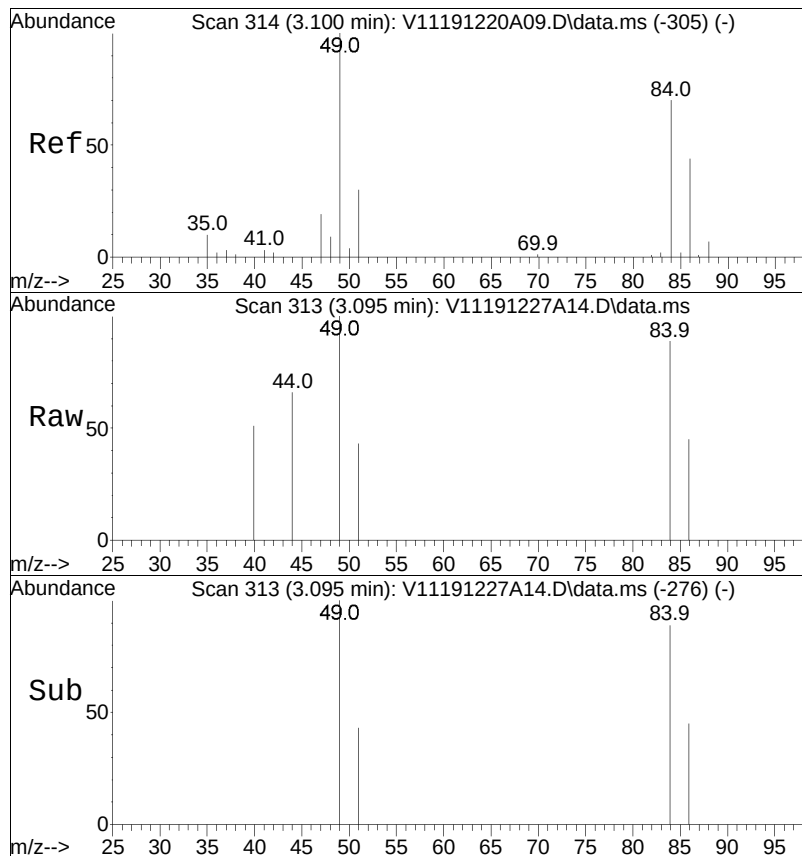




#11  
Carbon disulfide  
Concen: 0.22 ug/L  
RT: 2.623 min Scan# 223  
Delta R.T. -0.005 min  
Lab File: V11191227A14.D  
Acq: 27 Dec 2019 10:45 am

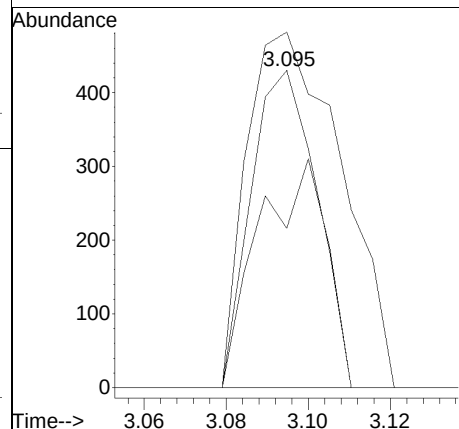
Tgt Ion: 76 Resp: 2917  
Ion Ratio Lower Upper  
76 100  
78 1.9 6.4 13.4#

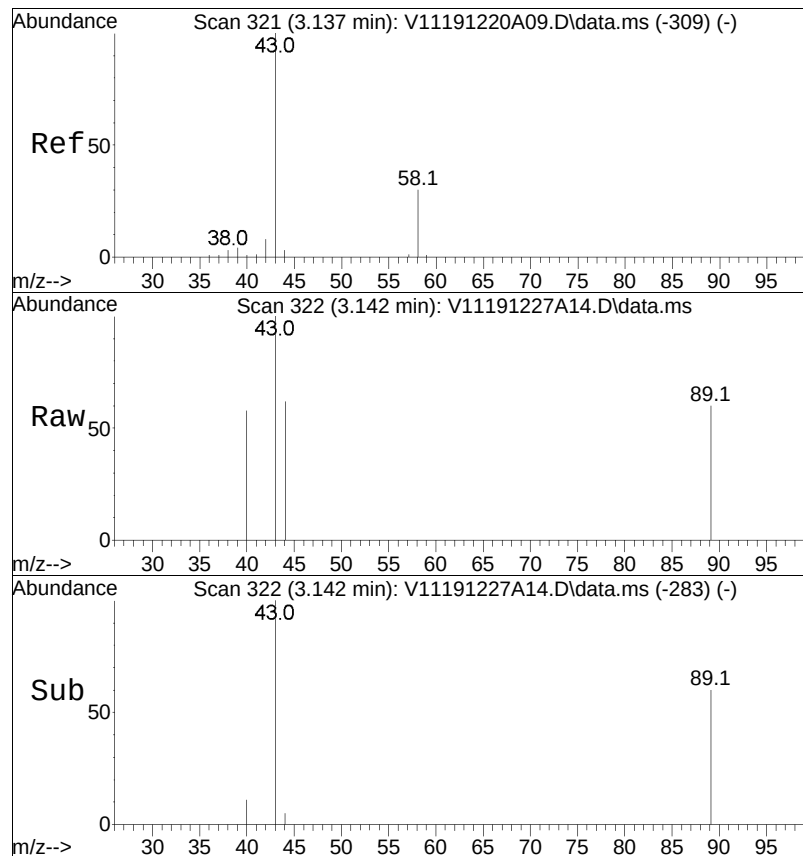




#15  
 Methylene chloride  
 Concen: 0.10 ug/L  
 RT: 3.095 min Scan# 313  
 Delta R.T. -0.005 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

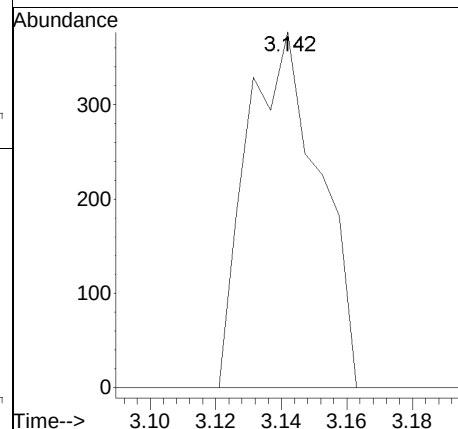
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 86      | 74.0  | 41.1  | 85.3  |
| 49      | 160.1 | 124.2 | 258.0 |

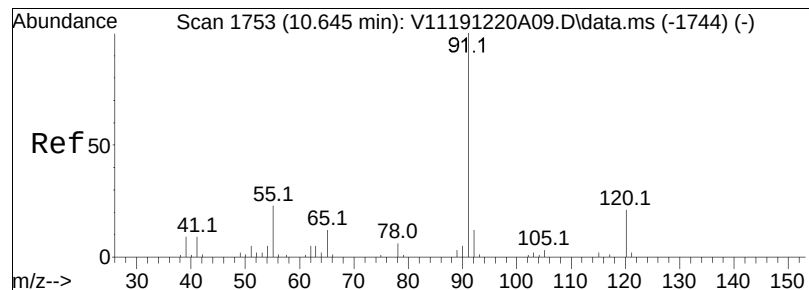




#17  
 Acetone  
 Concen: 0.55 ug/L  
 RT: 3.142 min Scan# 322  
 Delta R.T. 0.005 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

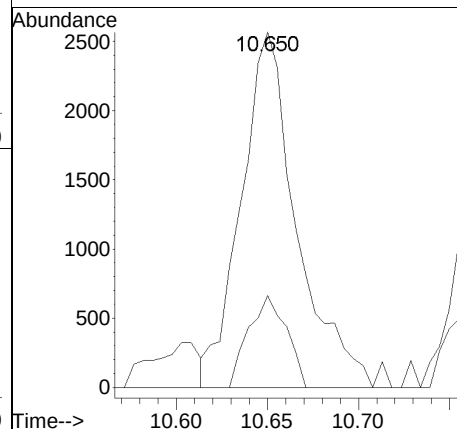
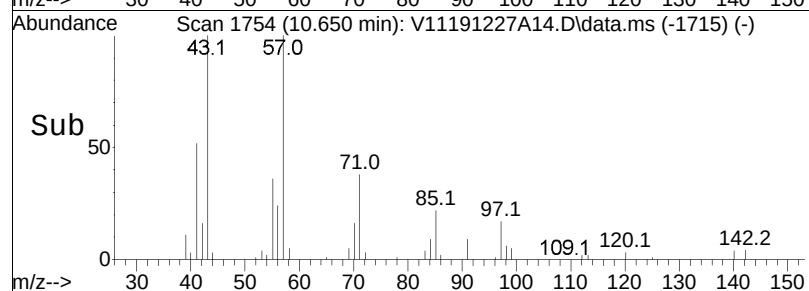
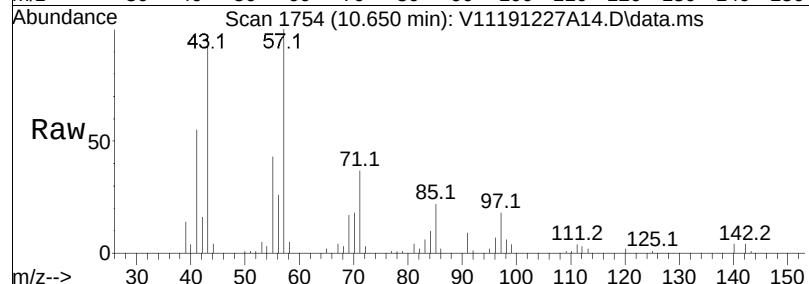
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 0.0   | 20.8  | 31.2# |



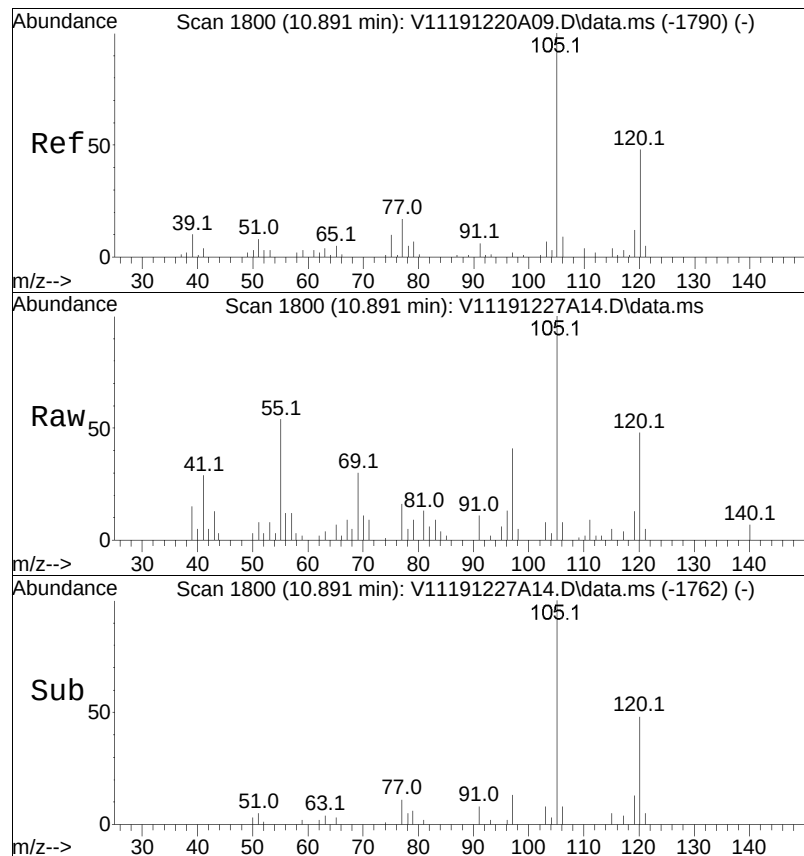


#85  
 n-Propylbenzene  
 Concen: 0.23 ug/L  
 RT: 10.650 min Scan# 1754  
 Delta R.T. 0.005 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 17.7  | 18.6  | 27.8# |

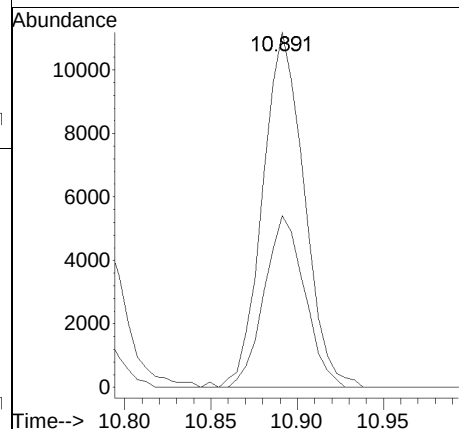


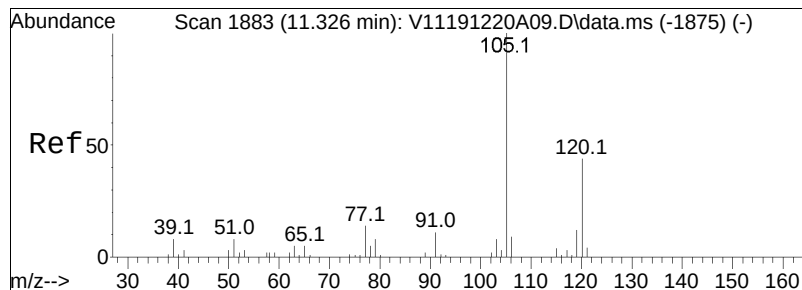




#90  
 1,3,5-Trimethylbenzene  
 Concen: 1.20 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

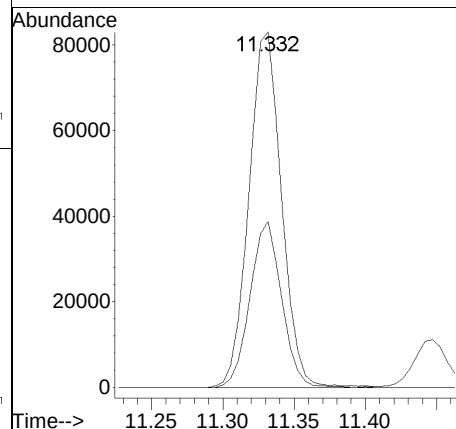
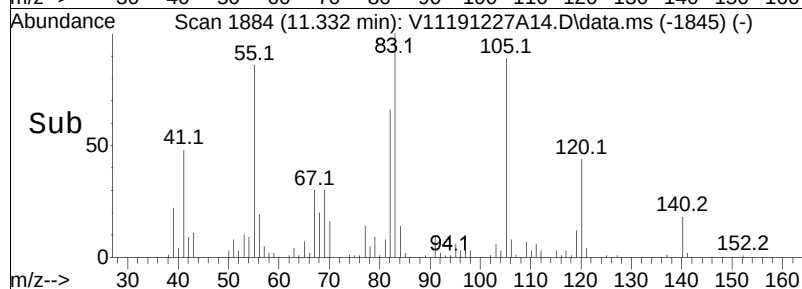
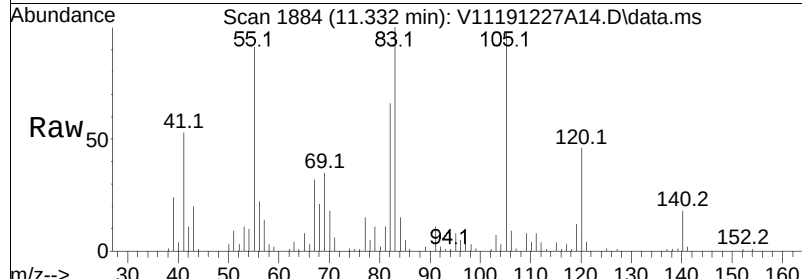
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.9  | 39.8  | 59.8  |

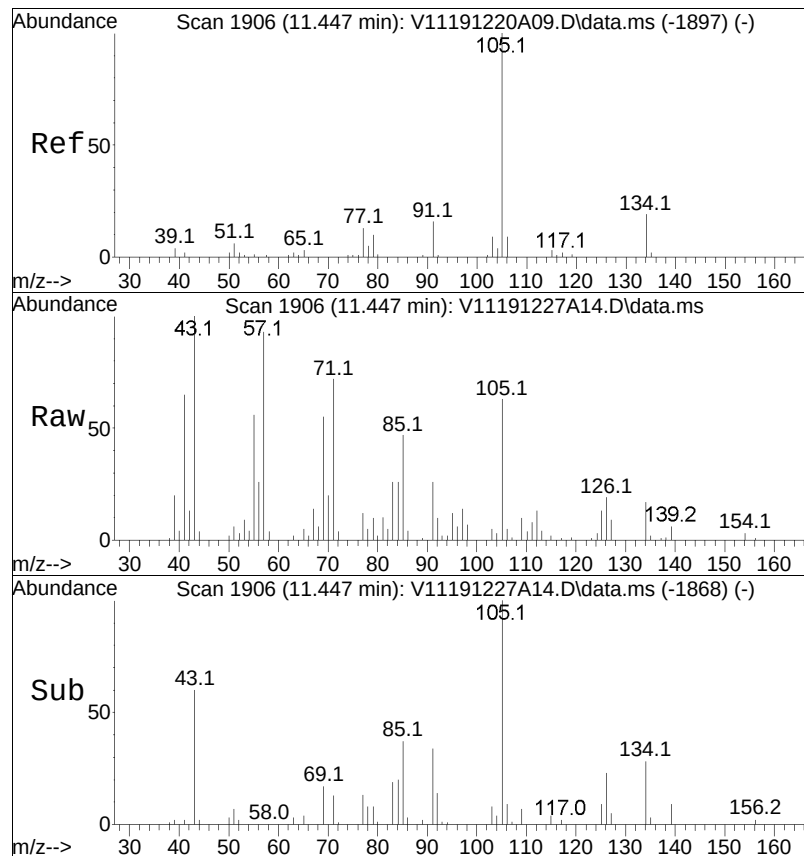




#97  
 1,2,4-Trimethylbenzene  
 Concen: 8.62 ug/L  
 RT: 11.332 min Scan# 1884  
 Delta R.T. 0.006 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

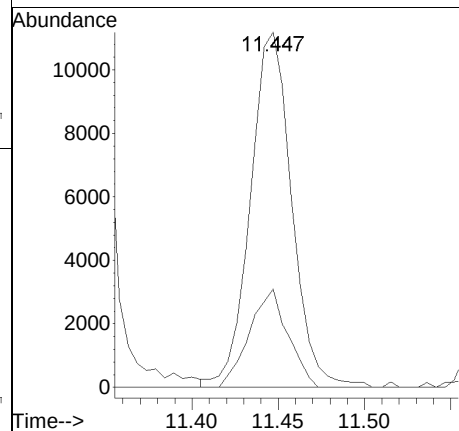
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.1  | 37.4  | 56.0  |

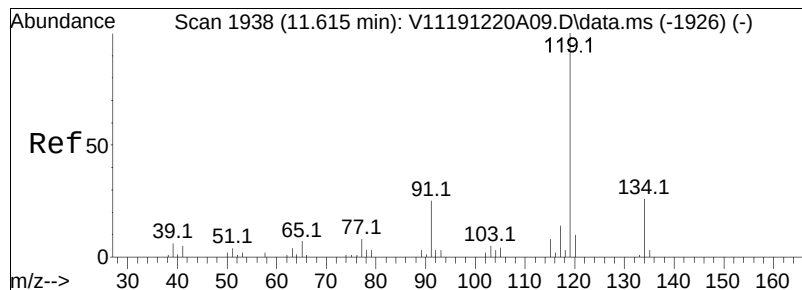




#98  
 sec-Butylbenzene  
 Concen: 0.95 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

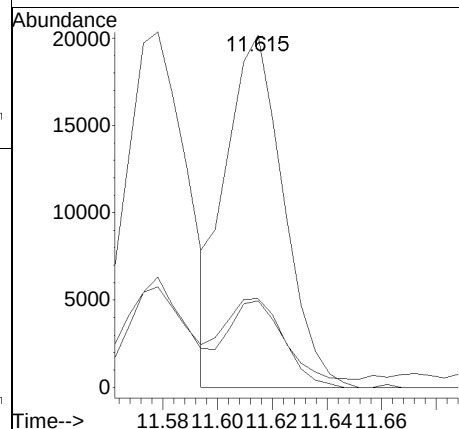
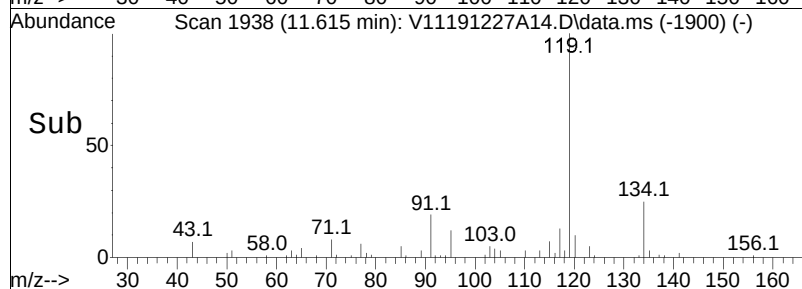
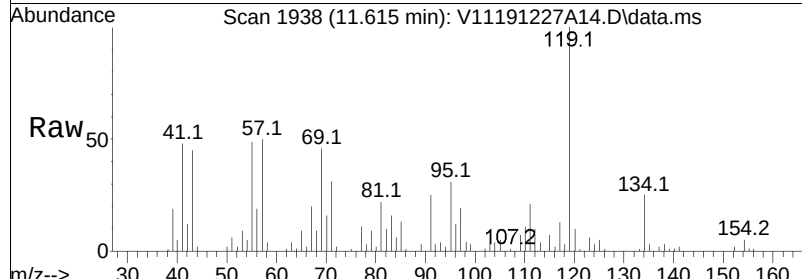
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 25.8  | 13.2  | 27.4  |

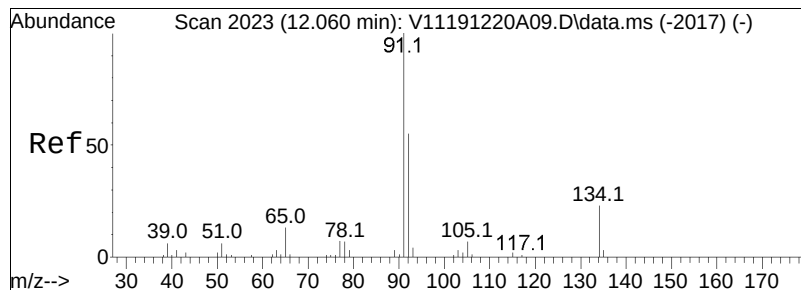




#99  
 p-Isopropyltoluene  
 Concen: 1.90 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. -0.000 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

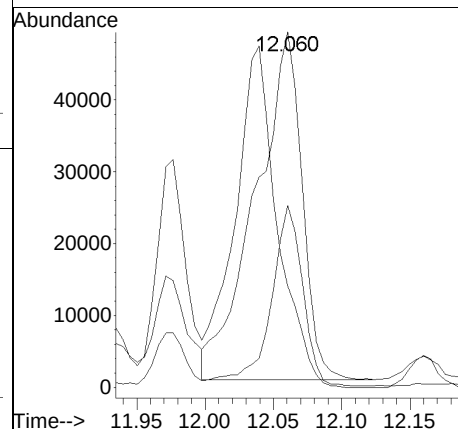
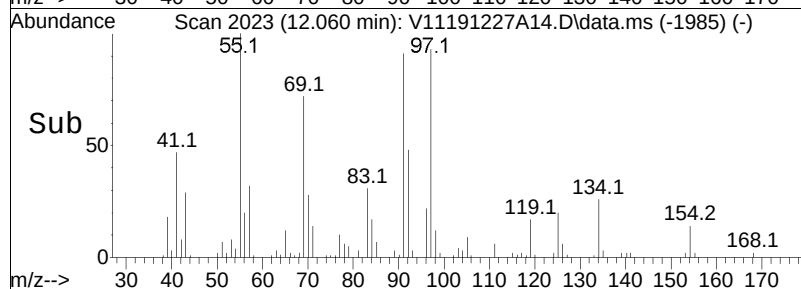
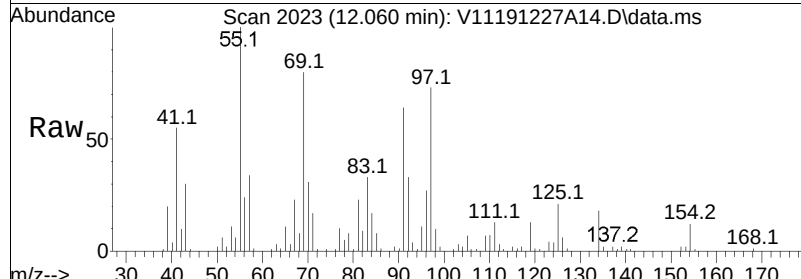
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 22.4  | 17.1  | 35.5  |
| 91      | 23.5  | 15.3  | 31.9  |

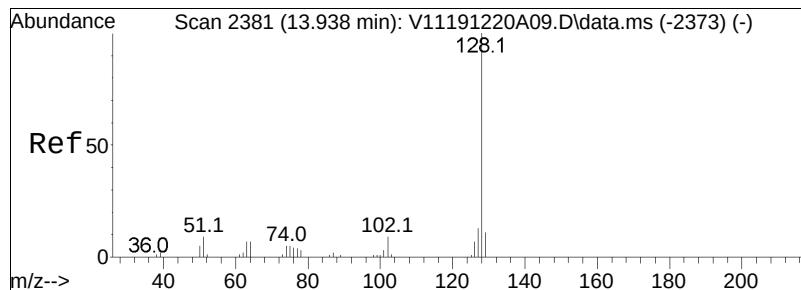




#103  
 n-Butylbenzene  
 Concen: 6.99 ug/L  
 RT: 12.060 min Scan# 2023  
 Delta R.T. 0.000 min  
 Lab File: V11191227A14.D  
 Acq: 27 Dec 2019 10:45 am

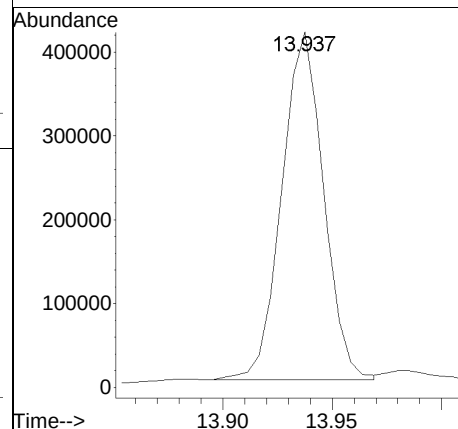
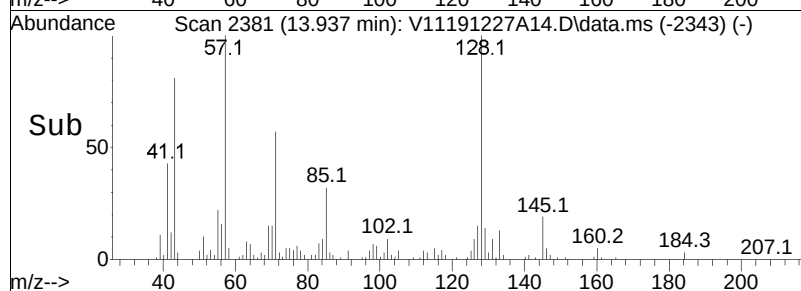
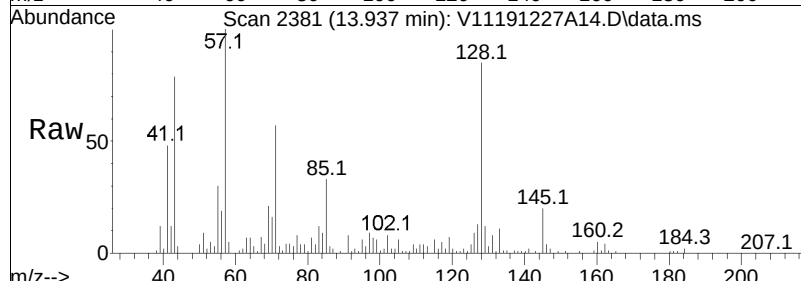
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 114600 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 35.8  | 43.3  | 64.9#  |
| 134       | 90.6  | 21.4  | 32.0#  |





#110  
Naphthalene  
Concen: 50.52 ug/L  
RT: 13.937 min Scan# 2381  
Delta R.T. -0.001 min  
Lab File: V11191227A14.D  
Acq: 27 Dec 2019 10:45 am

Tgt Ion:128 Resp: 550688



## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D, 31H, 6.39, 5, 0.025,, a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: V11191227A14.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.454       | 753           | 763         | 791          | rBV      | 355605         | 686729        | 4.79%           | 0.561%        |
| 2         | 7.106       | 1065          | 1078        | 1107         | rBV      | 480509         | 939186        | 6.56%           | 0.768%        |
| 3         | 8.915       | 1410          | 1423        | 1445         | rBV      | 444062         | 903321        | 6.31%           | 0.738%        |
| 4         | 10.467      | 1708          | 1719        | 1730         | rBV      | 410941         | 822629        | 5.74%           | 0.672%        |
| 5         | 10.671      | 1751          | 1758        | 1768         | rVB      | 1071777        | 1751961       | 12.23%          | 1.432%        |
| 6         | 11.059      | 1826          | 1832        | 1846         | rBV      | 416004         | 819652        | 5.72%           | 0.670%        |
| 7         | 11.332      | 1872          | 1884        | 1894         | rVB3     | 707007         | 1644594       | 11.48%          | 1.344%        |
| 8         | 11.505      | 1911          | 1917        | 1922         | rBV      | 469195         | 745478        | 5.20%           | 0.609%        |
| 9         | 11.552      | 1922          | 1926        | 1929         | rVV      | 398995         | 571967        | 3.99%           | 0.467%        |
| 10        | 11.594      | 1929          | 1934        | 1941         | rVB      | 627161         | 985026        | 6.88%           | 0.805%        |
| 11        | 11.688      | 1941          | 1952        | 1957         | rVB      | 586933         | 1058572       | 7.39%           | 0.865%        |
| 12        | 11.746      | 1957          | 1963        | 1968         | rBV      | 587348         | 960956        | 6.71%           | 0.785%        |
| 13        | 11.809      | 1968          | 1975        | 1981         | rVV2     | 351541         | 782867        | 5.47%           | 0.640%        |
| 14        | 12.013      | 1992          | 2014        | 2037         | rBV      | 6985435        | 14324612      | 100.00%         | 11.708%       |
| 15        | 12.171      | 2038          | 2044        | 2051         | rBV5     | 447267         | 1064942       | 7.43%           | 0.870%        |
| 16        | 12.249      | 2052          | 2059        | 2068         | rVB4     | 685316         | 1418776       | 9.90%           | 1.160%        |
| 17        | 12.370      | 2068          | 2082        | 2087         | rBV3     | 854921         | 2535029       | 17.70%          | 2.072%        |
| 18        | 12.422      | 2087          | 2092        | 2100         | rBV      | 672841         | 1272231       | 8.88%           | 1.040%        |
| 19        | 12.490      | 2100          | 2105        | 2109         | rBV      | 888711         | 1423222       | 9.94%           | 1.163%        |
| 20        | 12.527      | 2110          | 2112        | 2117         | rVB3     | 613163         | 815001        | 5.69%           | 0.666%        |
| 21        | 12.580      | 2117          | 2122        | 2127         | rBV3     | 1527313        | 2512116       | 17.54%          | 2.053%        |
| 22        | 12.632      | 2128          | 2132        | 2138         | rVB5     | 884167         | 1623880       | 11.34%          | 1.327%        |
| 23        | 12.690      | 2138          | 2143        | 2147         | rBV2     | 1409007        | 2283806       | 15.94%          | 1.867%        |
| 24        | 12.726      | 2147          | 2150        | 2155         | rVB2     | 1200005        | 1427804       | 9.97%           | 1.167%        |
| 25        | 12.815      | 2161          | 2167        | 2172         | rVB2     | 1154401        | 2213472       | 15.45%          | 1.809%        |
| 26        | 12.868      | 2172          | 2177        | 2182         | rBV      | 1998434        | 3002292       | 20.96%          | 2.454%        |
| 27        | 12.915      | 2183          | 2186        | 2190         | rVV2     | 548207         | 714244        | 4.99%           | 0.584%        |
| 28        | 12.957      | 2190          | 2194        | 2197         | rVV      | 490716         | 589430        | 4.11%           | 0.482%        |

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D, 31H, 6.39, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |          |        |        |
|----|--------|------|------|------|------|---------|----------|--------|--------|
| 29 | 13.067 | 2209 | 2215 | 2223 | rBV2 | 7794713 | 11282696 | 78.76% | 9.222% |
| 30 | 13.188 | 2233 | 2238 | 2241 | rBV2 | 734886  | 1040353  | 7.26%  | 0.850% |
| 31 | 13.230 | 2241 | 2246 | 2250 | rBV3 | 3551725 | 6151315  | 42.94% | 5.028% |
| 32 | 13.308 | 2257 | 2261 | 2267 | rVB3 | 1573811 | 2661270  | 18.58% | 2.175% |
| 33 | 13.376 | 2267 | 2274 | 2279 | rVB2 | 735709  | 1414492  | 9.87%  | 1.156% |
| 34 | 13.466 | 2286 | 2291 | 2294 | rBV3 | 887223  | 1345639  | 9.39%  | 1.100% |
| 35 | 13.497 | 2295 | 2297 | 2301 | rVV  | 783491  | 935368   | 6.53%  | 0.765% |
| 36 | 13.586 | 2304 | 2314 | 2324 | rVV9 | 3068697 | 8513326  | 59.43% | 6.958% |
| 37 | 13.660 | 2324 | 2328 | 2337 | rVV6 | 2154935 | 4191848  | 29.26% | 3.426% |
| 38 | 13.728 | 2338 | 2341 | 2343 | rVV  | 496747  | 536254   | 3.74%  | 0.438% |
| 39 | 13.759 | 2343 | 2347 | 2352 | rVV2 | 1475466 | 1858555  | 12.97% | 1.519% |
| 40 | 13.822 | 2355 | 2359 | 2364 | rVB3 | 729100  | 1049909  | 7.33%  | 0.858% |
| 41 | 13.911 | 2372 | 2376 | 2377 | rBV3 | 581614  | 649634   | 4.54%  | 0.531% |
| 42 | 13.943 | 2377 | 2382 | 2388 | rVV3 | 4094461 | 5607988  | 39.15% | 4.584% |
| 43 | 14.063 | 2400 | 2405 | 2408 | rBV2 | 965535  | 1274669  | 8.90%  | 1.042% |
| 44 | 14.095 | 2408 | 2411 | 2415 | rVB  | 794154  | 986877   | 6.89%  | 0.807% |
| 45 | 14.263 | 2438 | 2443 | 2454 | rVB4 | 2064873 | 3663920  | 25.58% | 2.995% |
| 46 | 14.362 | 2458 | 2462 | 2466 | rBV3 | 893515  | 1332948  | 9.31%  | 1.089% |
| 47 | 14.462 | 2479 | 2481 | 2485 | rVB3 | 726799  | 749479   | 5.23%  | 0.613% |
| 48 | 14.561 | 2495 | 2500 | 2504 | rBV3 | 1239499 | 1919626  | 13.40% | 1.569% |
| 49 | 14.692 | 2519 | 2525 | 2533 | rBV4 | 746198  | 1814640  | 12.67% | 1.483% |
| 50 | 14.755 | 2533 | 2537 | 2546 | rVB7 | 587963  | 1166965  | 8.15%  | 0.954% |
| 51 | 14.876 | 2554 | 2560 | 2568 | rVB  | 4055097 | 5722647  | 39.95% | 4.677% |
| 52 | 14.939 | 2568 | 2572 | 2579 | rVV4 | 324586  | 738669   | 5.16%  | 0.604% |
| 53 | 15.012 | 2580 | 2586 | 2592 | rVB  | 1850189 | 2645995  | 18.47% | 2.163% |
| 54 | 15.264 | 2631 | 2634 | 2644 | rVB  | 273538  | 475957   | 3.32%  | 0.389% |
| 55 | 15.427 | 2658 | 2665 | 2676 | rVB5 | 186862  | 509857   | 3.56%  | 0.417% |
| 56 | 15.626 | 2698 | 2703 | 2717 | rVB  | 371101  | 597491   | 4.17%  | 0.488% |
| 57 | 15.757 | 2722 | 2728 | 2737 | rVB  | 608389  | 926122   | 6.47%  | 0.757% |
| 58 | 15.877 | 2744 | 2751 | 2755 | rBV  | 422706  | 688548   | 4.81%  | 0.563% |



# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

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

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Title : VOLATILES BY GC/MS

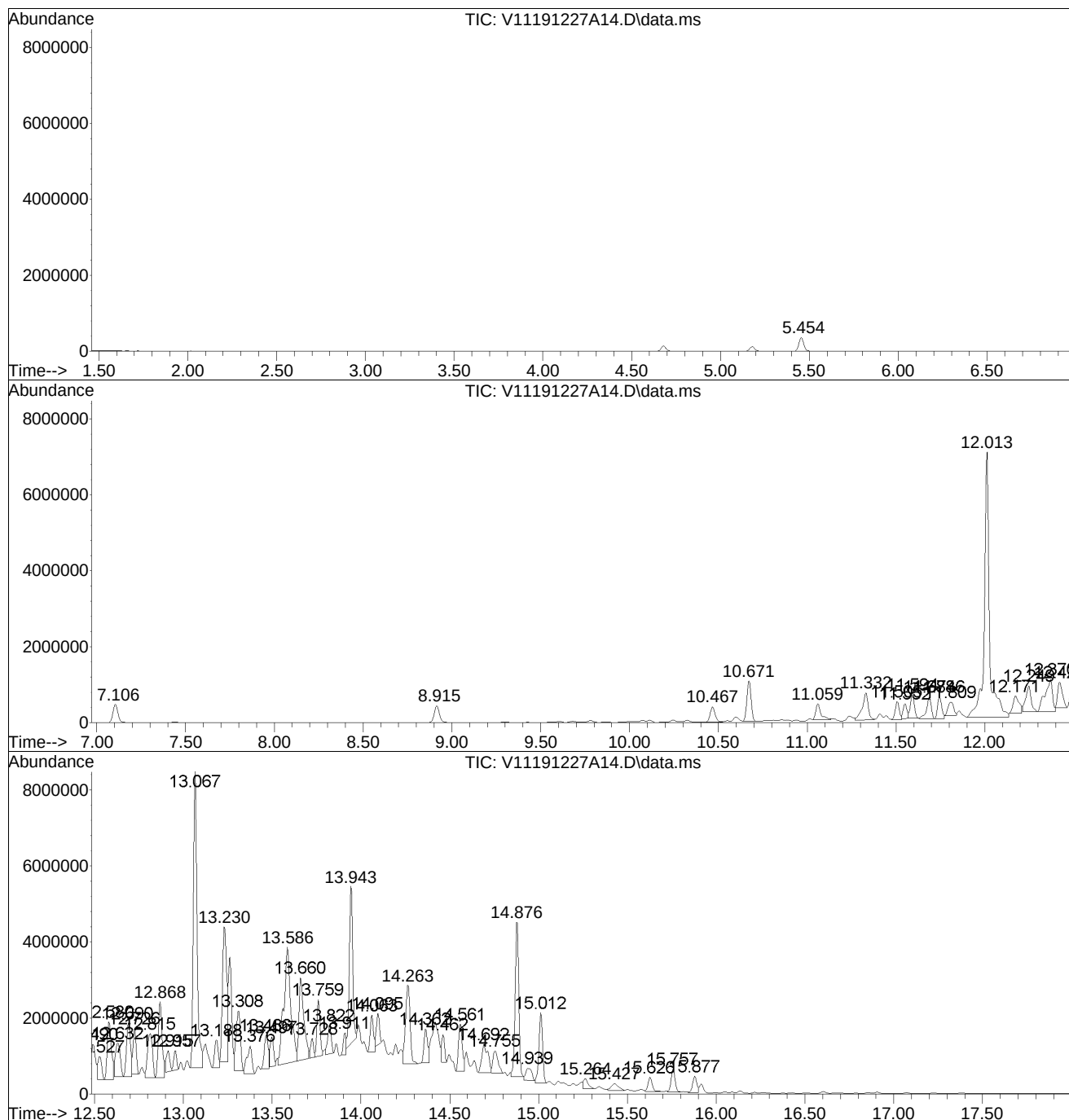
Sum of corrected areas: 122346852

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : 11961284-06D, 31H, 6.39, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : 11961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

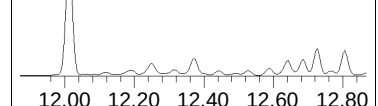
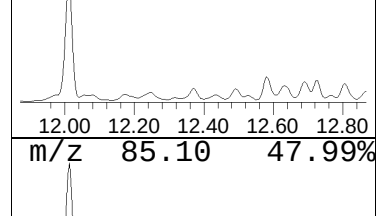
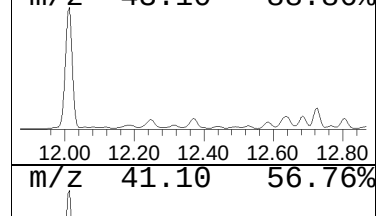
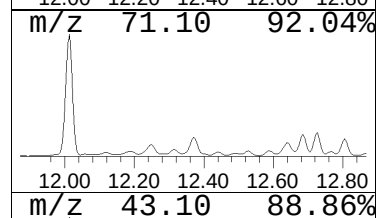
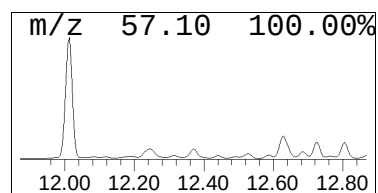
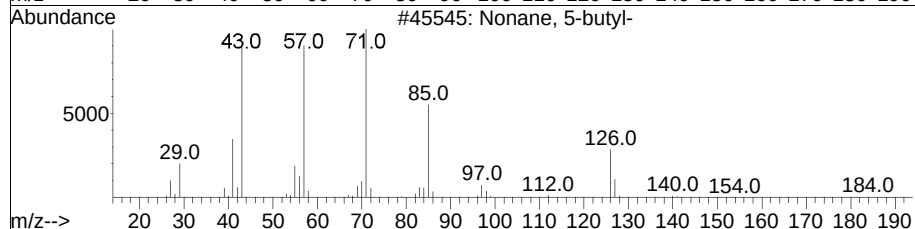
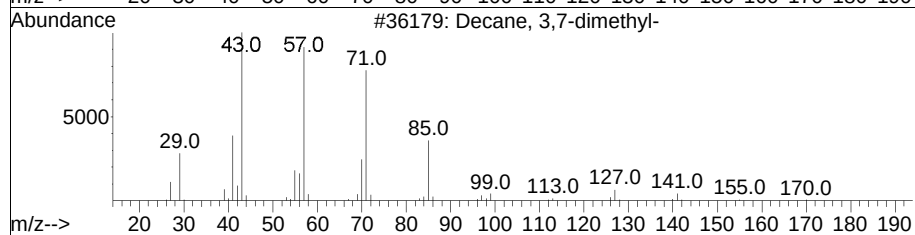
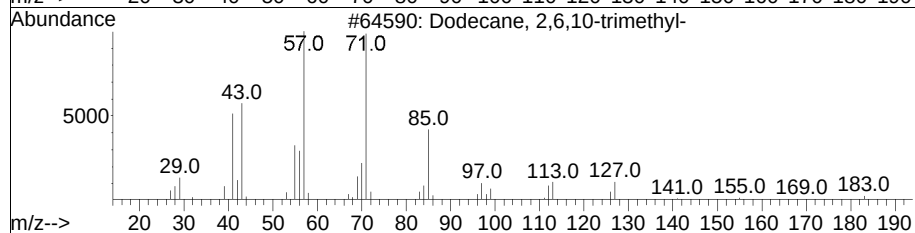
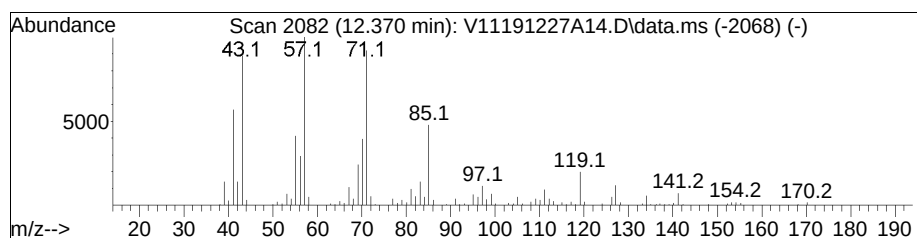
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 1 Unknown Alkane Concentration Rank 9

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 12.370 | 52.76 ug/L | 2535030 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                           | Tentative ID | MW      | MolForm      | CAS# | Qual |
|---------|-----------------------------|--------------|---------|--------------|------|------|
| 1       | Dodecane, 2,6,10-trimethyl- | 212          | C15H32  | 003891-98-3  | 72   |      |
| 2       | Decane, 3,7-dimethyl-       | 170          | C12H26  | 017312-54-8  | 64   |      |
| 3       | Nonane, 5-butyl-            | 184          | C13H28  | 017312-63-9  | 53   |      |
| 4       | 1-Iodo-2-methylnonane       | 268          | C10H21I | 1000101-47-9 | 53   |      |
| 5       | Nonane, 3,7-dimethyl-       | 156          | C11H24  | 017302-32-8  | 53   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

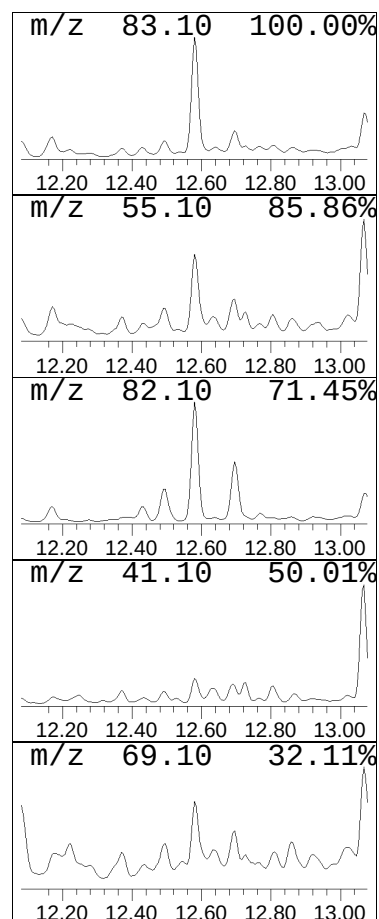
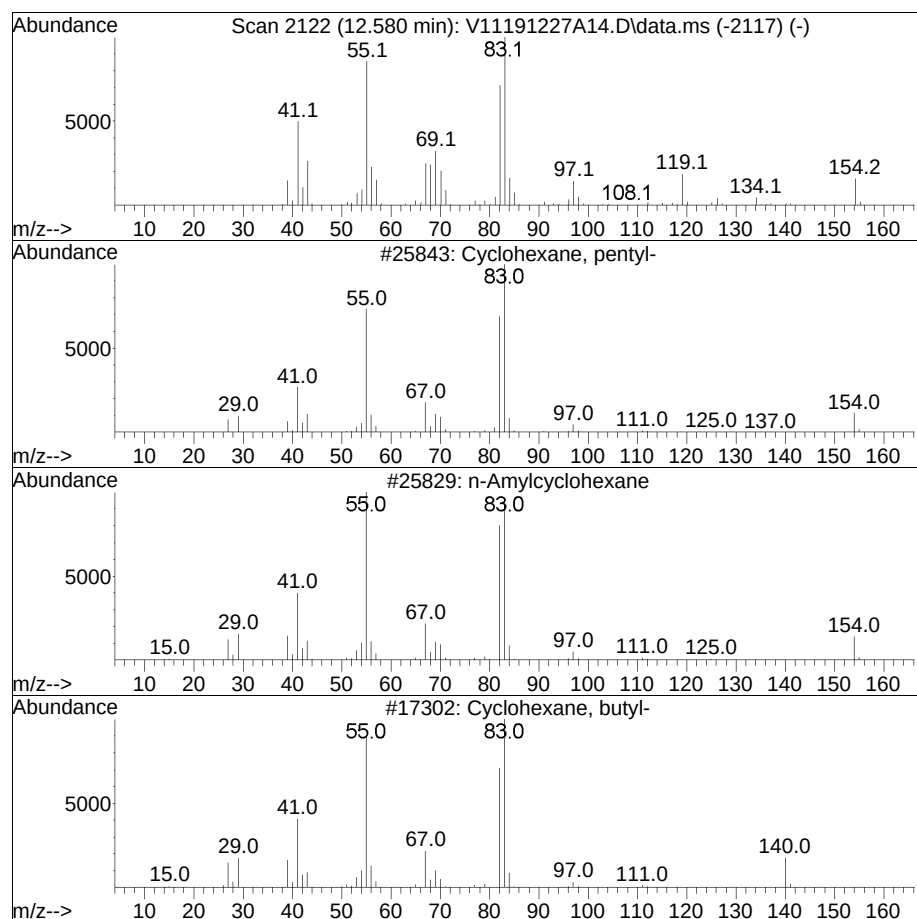
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 2 Unknown Cyclohexane Concentration Rank 10

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 12.579 | 52.28 ug/L | 2512120 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------|-----|---------|-------------|------|
| 1       |   | Cyclohexane, pentyl-          | 154 | C11H22  | 004292-92-6 | 68   |
| 2       |   | n-Amylcyclohexane             | 154 | C11H22  | 029949-27-7 | 58   |
| 3       |   | Cyclohexane, butyl-           | 140 | C10H20  | 001678-93-9 | 53   |
| 4       |   | Cyclohexane, propyl-          | 126 | C9H18   | 001678-92-8 | 53   |
| 5       |   | Cyclohexane, (1-methylethyl)- | 126 | C9H18   | 000696-29-7 | 49   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

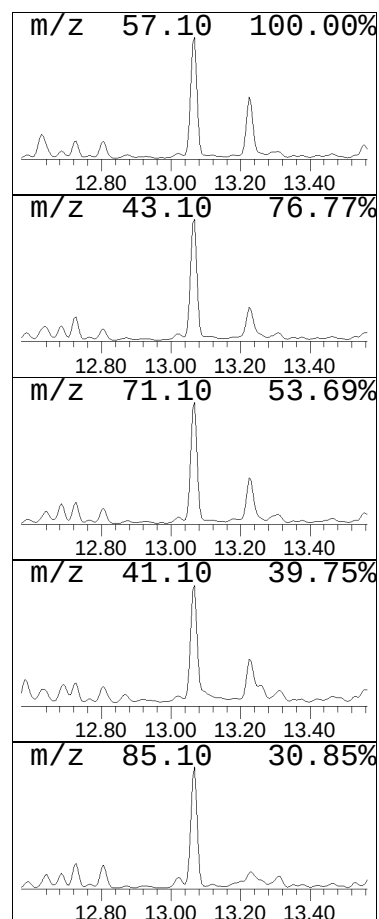
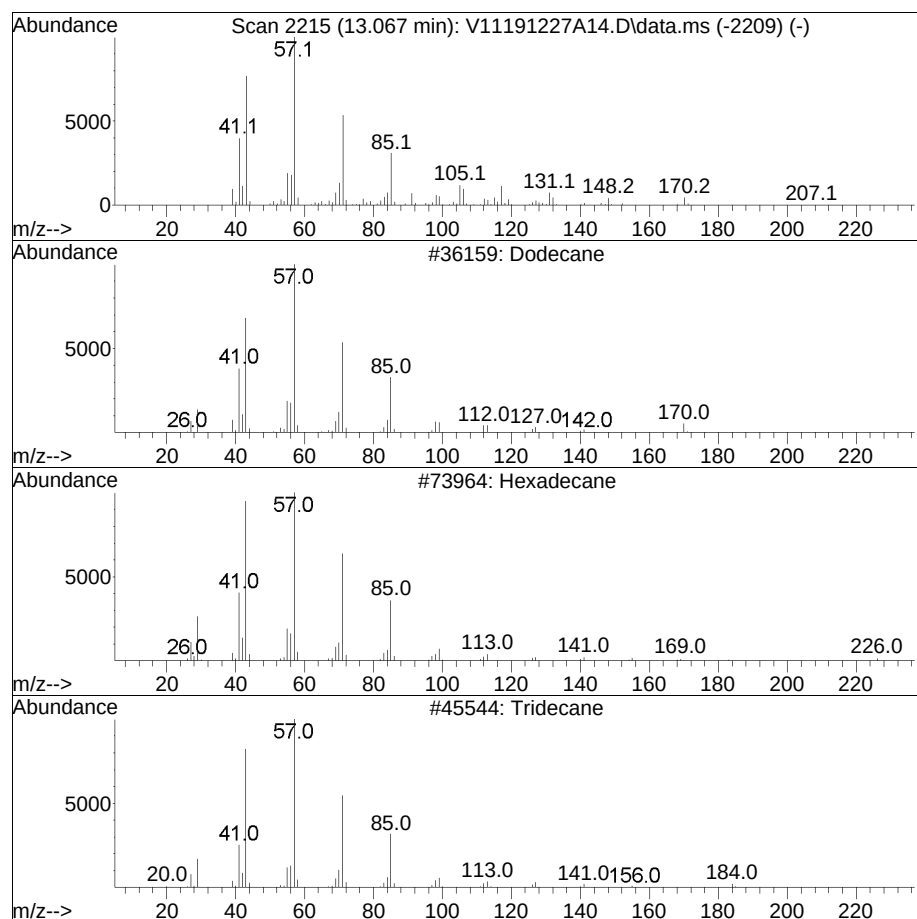
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 3 Dodecane Concentration Rank 1

| R.T.   | EstConc     | Area     | Relative to ISTD       | R.T.   |
|--------|-------------|----------|------------------------|--------|
| 13.067 | 234.82 ug/L | 11282700 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | Dodecane             |              | 170 | C12H26  | 000112-40-3 | 93   |
| 2       | Hexadecane           |              | 226 | C16H34  | 000544-76-3 | 49   |
| 3       | Tridecane            |              | 184 | C13H28  | 000629-50-5 | 49   |
| 4       | Undecane             |              | 156 | C11H24  | 001120-21-4 | 49   |
| 5       | Tetradecane, 1-iodo- |              | 324 | C14H29I | 019218-94-1 | 49   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

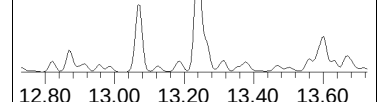
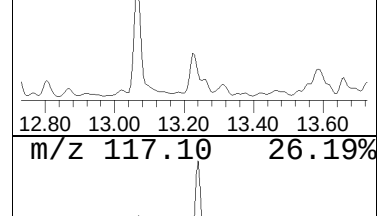
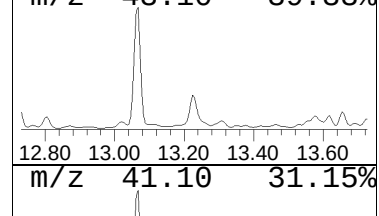
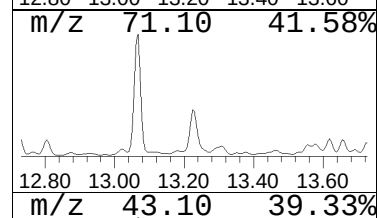
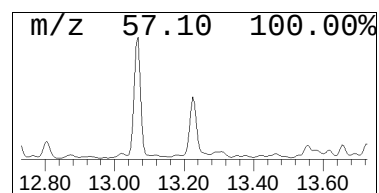
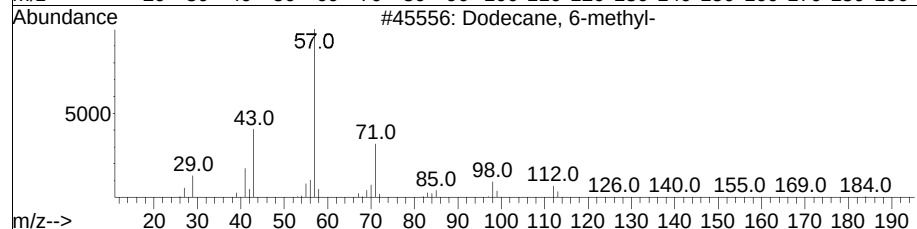
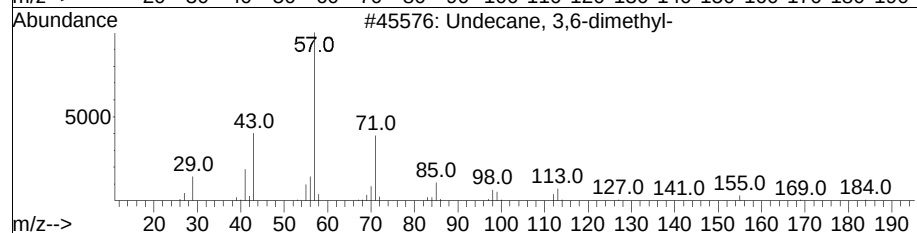
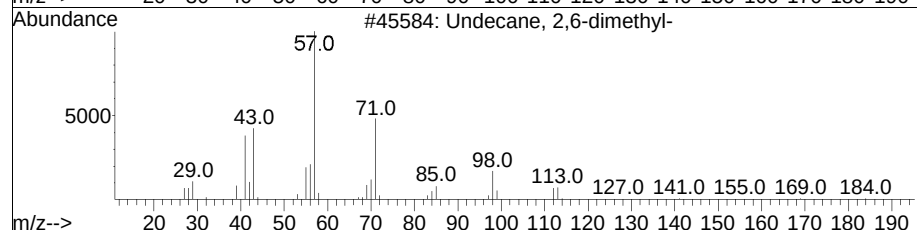
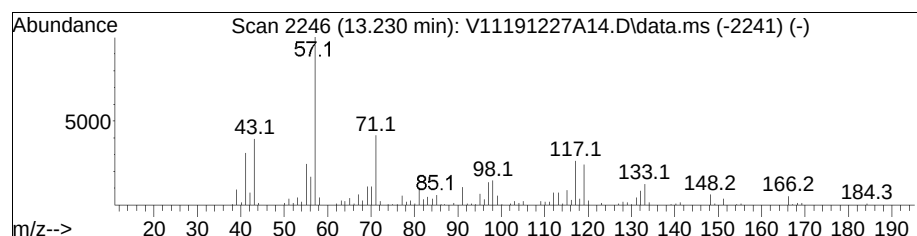
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 4 Undecane, 2,6-dimethyl- Concentration Rank 3

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.230 | 128.03 ug/L | 6151320 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                         | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|---------------------------|--------------|--------|-------------|------|------|
| 1       | Undecane, 2,6-dimethyl-   | 184          | C13H28 | 017301-23-4 | 90   |      |
| 2       | Undecane, 3,6-dimethyl-   | 184          | C13H28 | 017301-28-9 | 46   |      |
| 3       | Dodecane, 6-methyl-       | 184          | C13H28 | 006044-71-9 | 46   |      |
| 4       | Undecane, 2,5-dimethyl-   | 184          | C13H28 | 017301-22-3 | 41   |      |
| 5       | 3-Hexanone, 2,2-dimethyl- | 128          | C8H16O | 005405-79-8 | 27   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

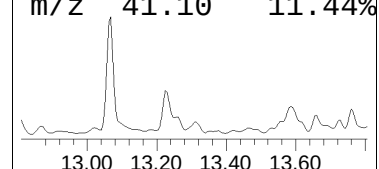
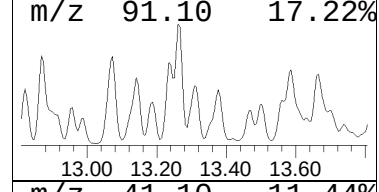
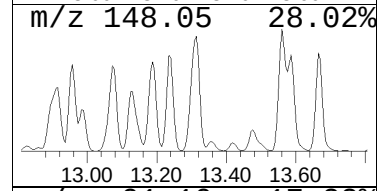
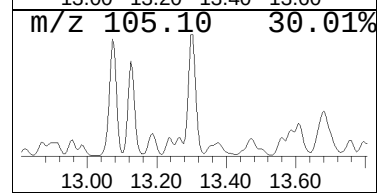
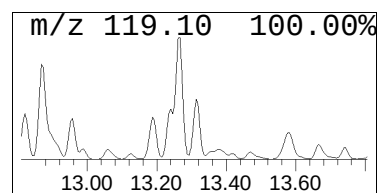
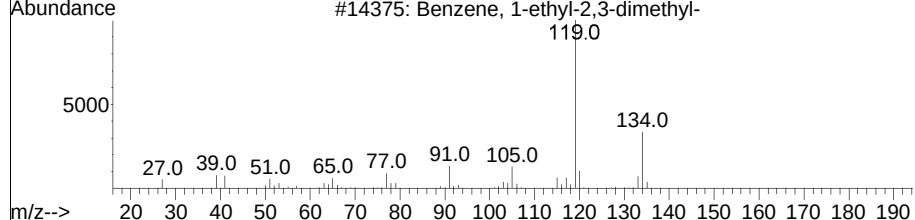
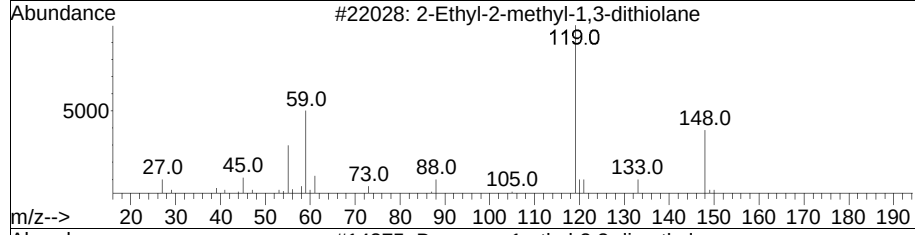
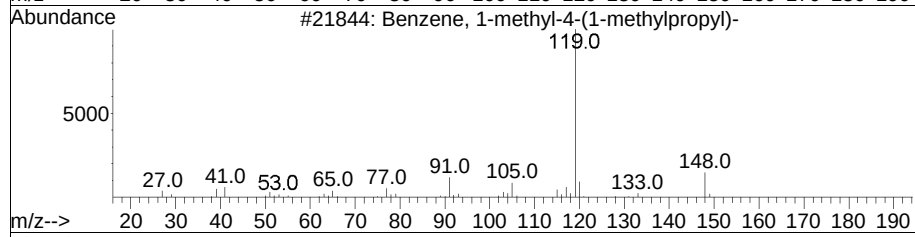
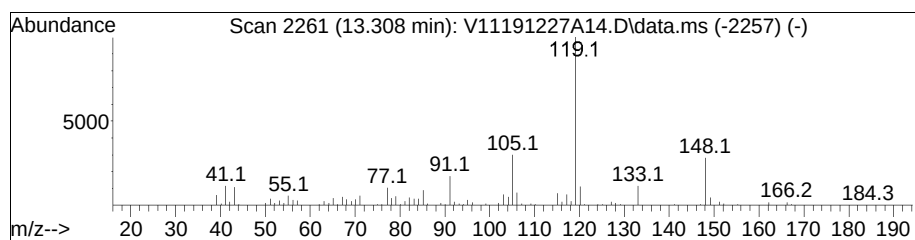
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 5 Unknown Concentration Rank 7

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.308 | 55.39 ug/L | 2661270 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16  | 001595-16-0 | 81   |
| 2       |   | 2-Ethyl-2-methyl-1,3-dithiolane     | 148 | C6H12S2 | 006008-81-7 | 64   |
| 3       |   | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 59   |
| 4       |   | Benzene, (1,1-dimethylpropyl)-      | 148 | C11H16  | 002049-95-8 | 59   |
| 5       |   | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 59   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

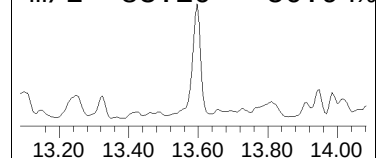
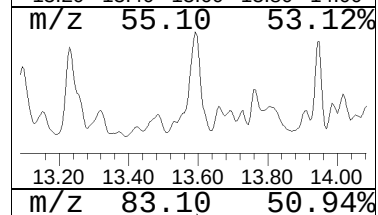
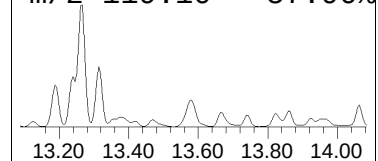
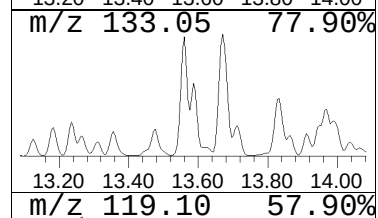
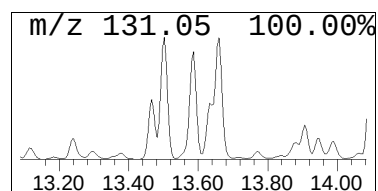
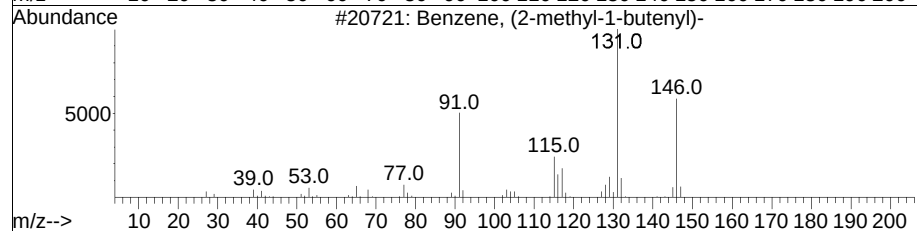
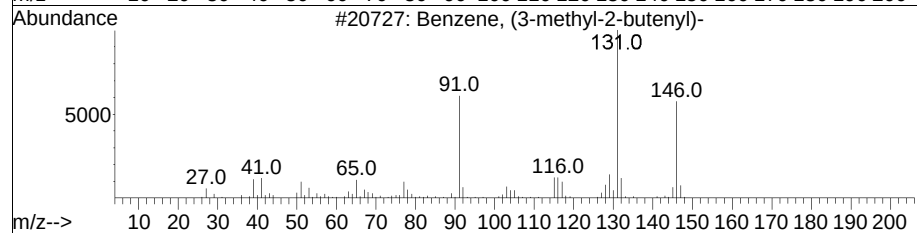
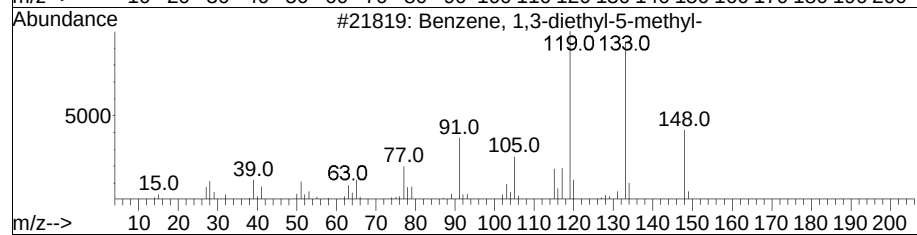
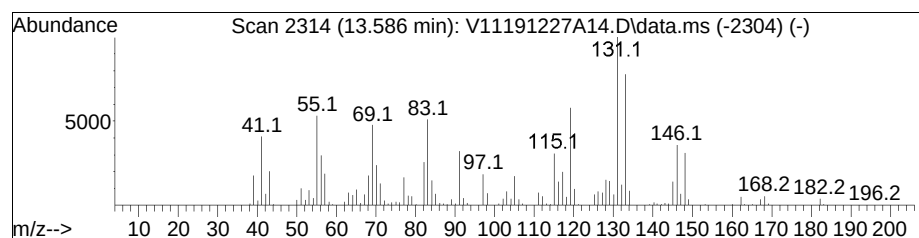
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 6 Unknown Benzene Concentration Rank 2

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.586 | 177.19 ug/L | 8513330 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16  | 002050-24-0 | 86   |
| 2       |   | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 83   |
| 3       |   | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 80   |
| 4       |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 80   |
| 5       |   | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 56   |





## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

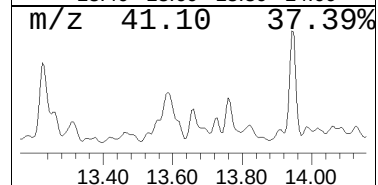
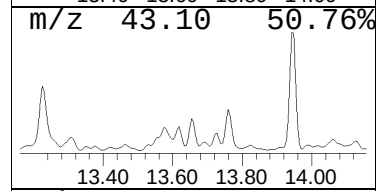
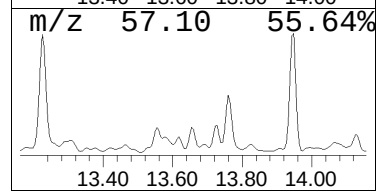
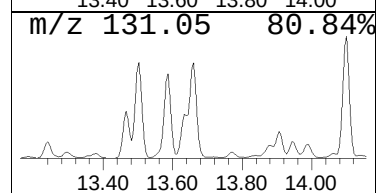
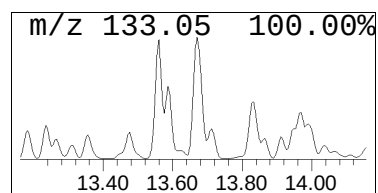
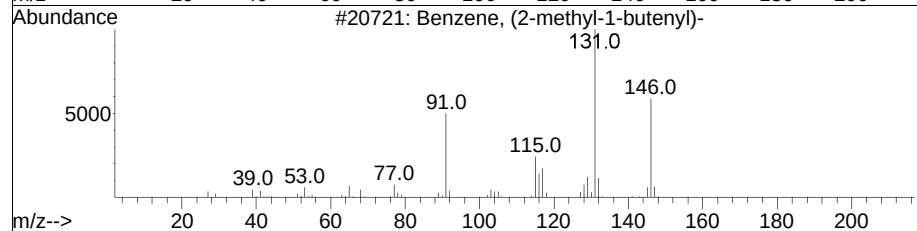
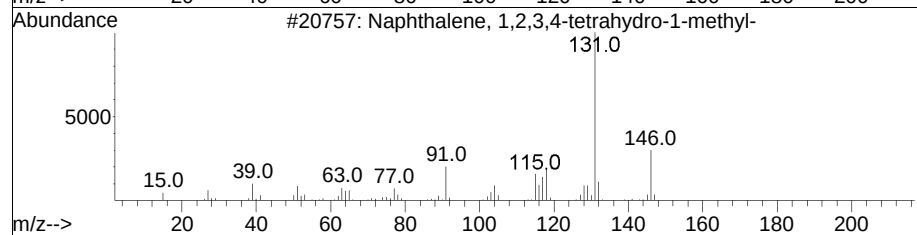
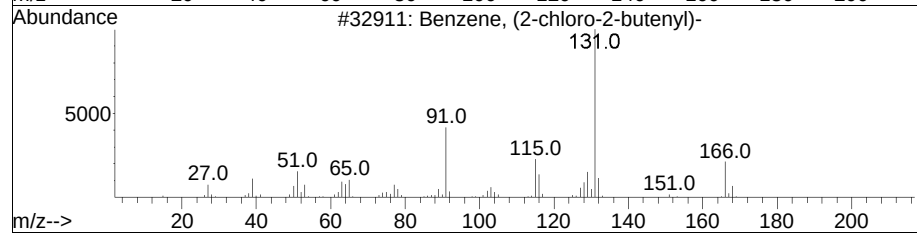
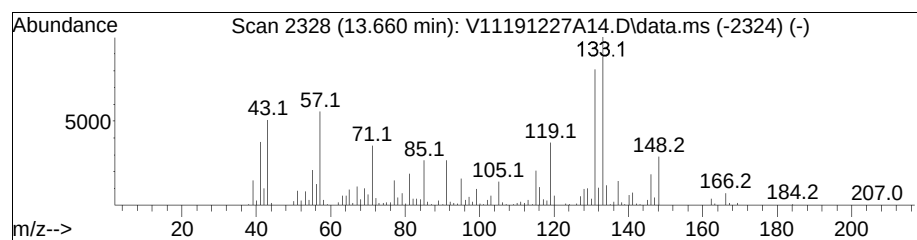
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 7 Unknown Aromatic Concentration Rank 5

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.660 | 87.24 ug/L | 4191850 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | Benzene, (2-chloro-2-butenyl)-      | 166 | C10H11Cl | 054411-12-0 | 72   |
| 2       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14   | 001559-81-5 | 42   |
| 3       |   | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14   | 056253-64-6 | 42   |
| 4       |   | Benzene, (1-methyl-1-butenyl)-      | 146 | C11H14   | 053172-84-2 | 42   |
| 5       |   | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14   | 017057-82-8 | 42   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

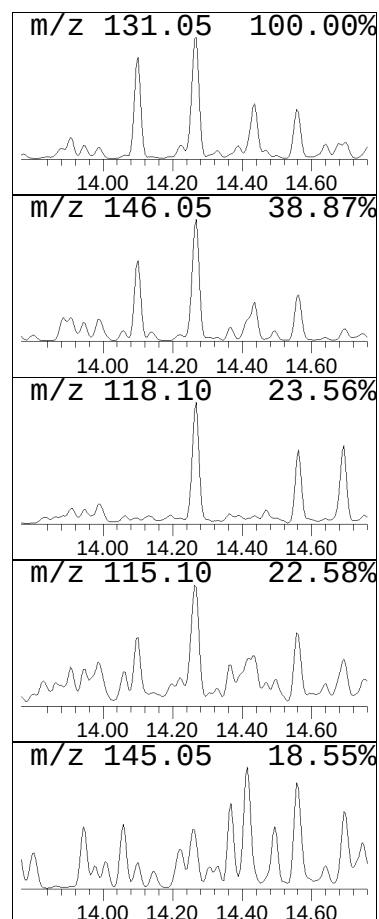
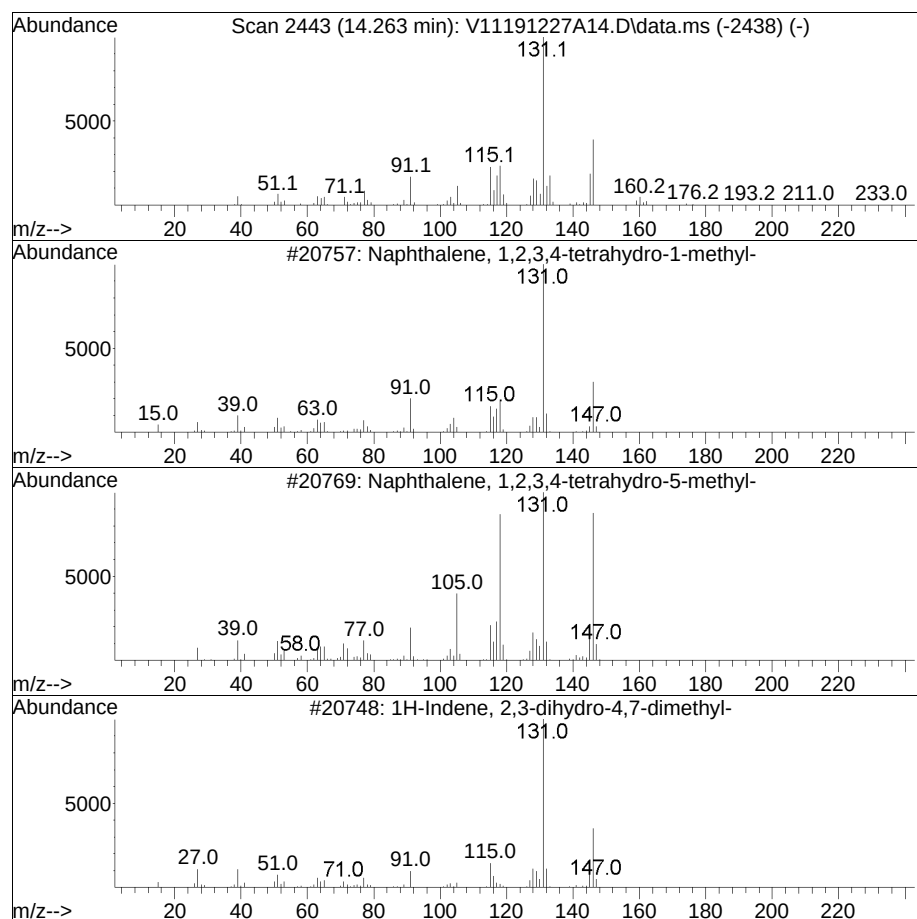
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 8 Unknown Naphthalene Concentration Rank 6

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.263 | 76.26 ug/L | 3663920 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 93   |
| 2       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 83   |
| 3       |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 81   |
| 4       |   | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 81   |
| 5       |   | 1H-Indene, 2,3-dihydro-4,6-dimet... | 146 | C11H14  | 001685-82-1 | 76   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

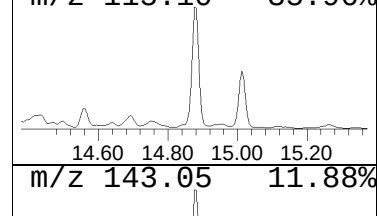
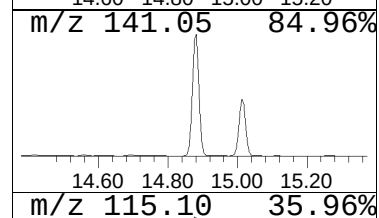
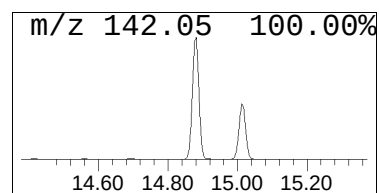
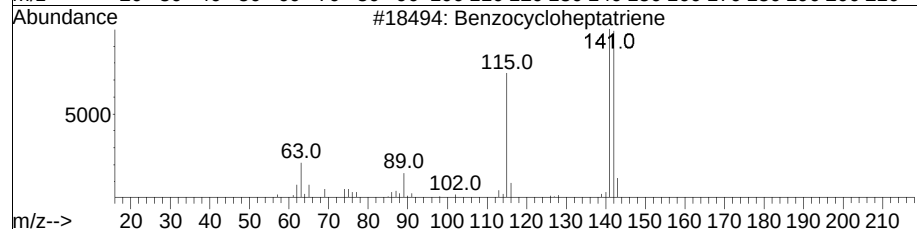
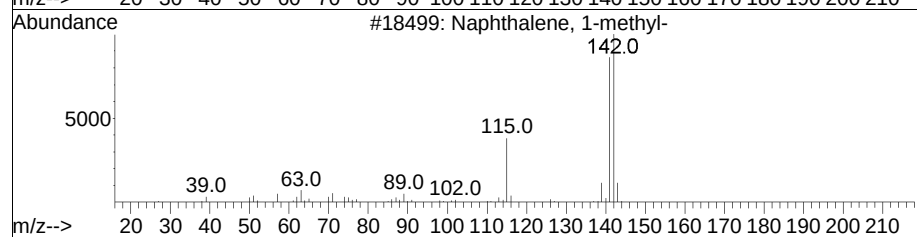
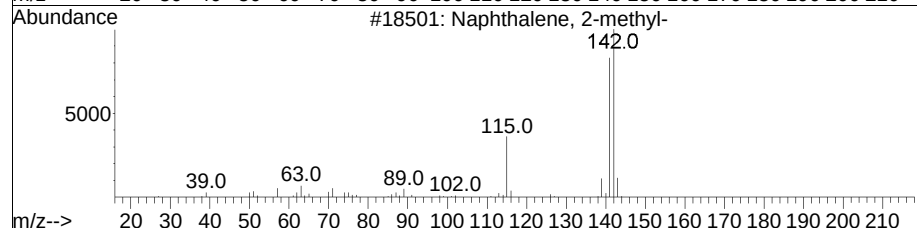
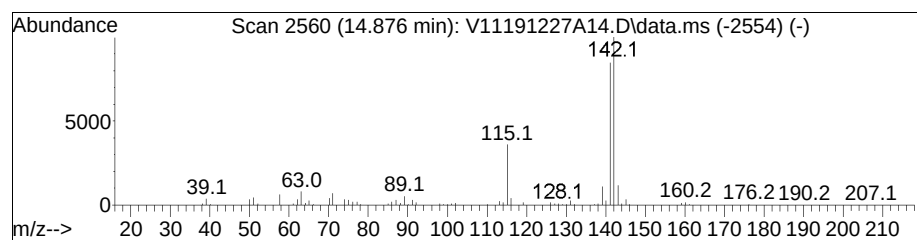
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 9 Unknown Aromatic Concentration Rank 4

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.876 | 119.10 ug/L | 5722650 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A14.D  
Acq On : 27 Dec 2019 10:45 am  
Operator : VOA111:JC  
Sample : l1961284-06D,31H,6.39,5,0.025,,a  
Misc : WG1325770,ICAL16383  
ALS Vial : 14 Sample Multiplier: 1

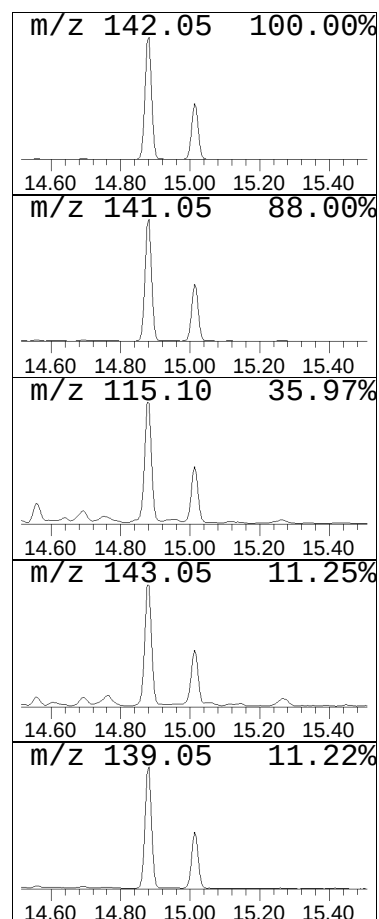
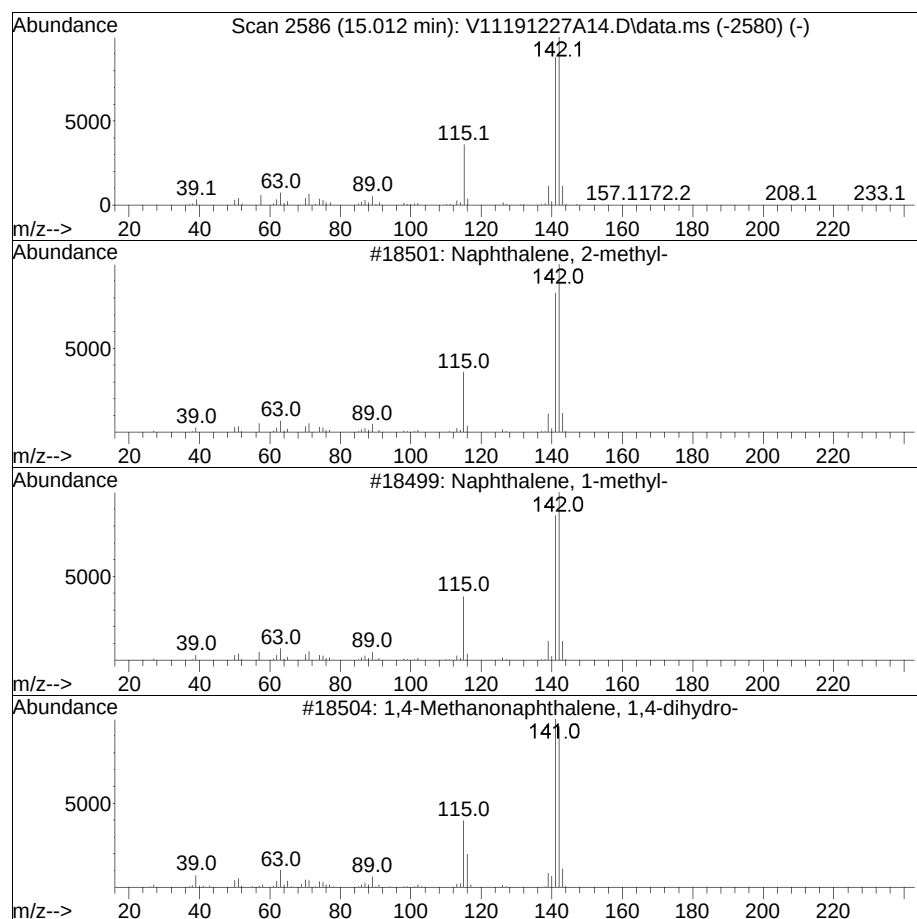
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 10 Unknown Aromatic Concentration Rank 8

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.012 | 55.07 ug/L | 2646000 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 3       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 4       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 72   |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A14.D  
 Acq On : 27 Dec 2019 10:45 am  
 Operator : VOA111:JC  
 Sample : l1961284-06D, 31H, 6.39, 5, 0.025, , a  
 Misc : WG1325770, ICAL16383  
 ALS Vial : 14 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard--- |        |        |      |
|--------------------|--------|---------|-------|----------|------------------------|--------|--------|------|
|                    |        |         |       |          | #                      | RT     | Resp   | Conc |
| Unknown Alkane     | 12.370 | 52.8    | ug/L  | 2535030  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown Cyclohe... | 12.579 | 52.3    | ug/L  | 2512120  | 3                      | 11.746 | 960956 | 20.0 |
| Dodecane           | 13.067 | 234.8   | ug/L  | 11282700 | 3                      | 11.746 | 960956 | 20.0 |
| Undecane, 2,6-d... | 13.230 | 128.0   | ug/L  | 6151320  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown            | 13.308 | 55.4    | ug/L  | 2661270  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown Benzene    | 13.586 | 177.2   | ug/L  | 8513330  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown Aromatic   | 13.660 | 87.2    | ug/L  | 4191850  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown Naphtha... | 14.263 | 76.3    | ug/L  | 3663920  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown Aromatic   | 14.876 | 119.1   | ug/L  | 5722650  | 3                      | 11.746 | 960956 | 20.0 |
| Unknown Aromatic   | 15.012 | 55.1    | ug/L  | 2646000  | 3                      | 11.746 | 960956 | 20.0 |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : 11961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 30 09:49:35 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Fluorobenzene             | 5.454          | 96   | 334973             | 20.000 | ug/L   | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery = 122.75% |        |        |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 279350             | 20.000 | ug/L   | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery = 126.11% |        |        |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 144898             | 20.000 | ug/L   | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery = 120.40% |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 86850              | 19.478 | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = 97.39%  |        |        |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 86474              | 18.149 | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = 90.75%  |        |        |          |
| 60) Toluene-d8               | 7.106          | 98   | 363957             | 18.683 | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = 93.42%  |        |        |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 146481             | 19.599 | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = 98.00%  |        |        |          |
| Target Compounds             |                |      |                    |        |        |          |
|                              |                |      |                    |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0                  | N.D.   |        |          |
| 3) Chloromethane             | 1.663          | 50   | 341                | N.D.   |        |          |
| 4) Vinyl chloride            | 0.000          |      | 0                  | N.D.   |        |          |
| 5) Bromomethane              | 0.000          |      | 0                  | N.D.   |        |          |
| 6) Chloroethane              | 0.000          |      | 0                  | N.D.   |        |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0                  | N.D.   |        |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0                  | N.D.   |        |          |
| 11) Carbon disulfide         | 2.628          | 76   | 2796               | 0.200  | ug/L # | 79       |
| 12) Freon-113                | 0.000          |      | 0                  | N.D.   |        |          |
| 15) Methylene chloride       | 3.095          | 84   | 708                | 0.148  | ug/L   | 71       |
| 17) Acetone                  | 3.131          | 43   | 83079              | 76.452 | ug/L # | 87       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0                  | N.D.   |        |          |
| 19) Methyl acetate           | 3.252          | 43   | 5650               | 1.948  | ug/L # | 85       |
| 20) Methyl tert-butyl ether  | 0.000          |      | 0                  | N.D.   |        |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0                  | N.D.   |        |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0                  | N.D.   |        |          |
| 31) Cyclohexane              | 0.000          |      | 0                  | N.D.   |        |          |
| 32) Chloroform               | 4.516          | 83   | 2690               | 0.348  | ug/L # | 79       |
| 34) Carbon tetrachloride     | 0.000          |      | 0                  | N.D.   |        |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0                  | N.D.   |        |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 30 09:49:35 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |    |
|------|---------------------------|--------|------|----------|-------|-------|----------|----|
| 39)  | 2-Butanone                | 4.804  | 43   | 1678     | 1.005 | ug/L  | #        | 55 |
| 41)  | Benzene                   | 5.061  | 78   | 231      | N.D.  |       |          |    |
| 44)  | 1,2-Dichloroethane        | 5.255  | 62   | 58       | N.D.  |       |          |    |
| 47)  | Methyl cyclohexane        | 0.000  |      | 0        | N.D.  |       |          |    |
| 48)  | Trichloroethene           | 5.632  | 95   | 4063     | 0.978 | ug/L  |          | 91 |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        | N.D.  |       |          |    |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        | N.D.  |       |          |    |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        | N.D.  |       |          |    |
| 61)  | Toluene                   | 7.163  | 92   | 992      | N.D.  |       |          |    |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        | N.D.  |       |          |    |
| 63)  | Tetrachloroethene         | 0.000  |      | 0        | N.D.  |       |          |    |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        | N.D.  |       |          |    |
| 68)  | 1,1,2-Trichloroethane     | 0.000  |      | 0        | N.D.  |       |          |    |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        | N.D.  |       |          |    |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        | N.D.  |       |          |    |
| 72)  | 2-Hexanone                | 0.000  |      | 0        | N.D.  |       |          |    |
| 73)  | Chlorobenzene             | 0.000  |      | 0        | N.D.  |       |          |    |
| 74)  | Ethylbenzene              | 8.909  | 91   | 489      | N.D.  |       |          |    |
| 76)  | p/m Xylene                | 0.000  |      | 0        | N.D.  |       |          |    |
| 77)  | o Xylene                  | 0.000  |      | 0        | N.D.  |       |          |    |
| 78)  | Styrene                   | 0.000  |      | 0        | N.D.  |       |          |    |
| 80)  | Bromoform                 | 0.000  |      | 0        | N.D.  |       |          |    |
| 82)  | Isopropylbenzene          | 0.000  |      | 0        | N.D.  |       |          |    |
| 85)  | n-Propylbenzene           | 10.461 | 91   | 303      | N.D.  |       |          |    |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        | N.D.  |       |          |    |
| 90)  | 1,3,5-Trimethylbenzene    | 0.000  |      | 0        | N.D.  |       |          |    |
| 94)  | tert-Butylbenzene         | 0.000  |      | 0        | N.D.  |       |          |    |
| 97)  | 1,2,4-Trimethylbenzene    | 11.337 | 105  | 61       | N.D.  |       |          |    |
| 98)  | sec-Butylbenzene          | 11.337 | 105  | 61       | N.D.  |       |          |    |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 315      | N.D.  |       |          |    |
| 100) | 1,3-Dichlorobenzene       | 11.756 | 146  | 54       | N.D.  |       |          |    |
| 101) | 1,4-Dichlorobenzene       | 11.756 | 146  | 54       | N.D.  |       |          |    |
| 103) | n-Butylbenzene            | 12.039 | 91   | 1492     | N.D.  |       |          |    |
| 104) | 1,2-Dichlorobenzene       | 0.000  |      | 0        | N.D.  |       |          |    |
| 106) | 1,2-Dibromo-3-chloropr... | 13.088 | 155  | 50       | N.D.  |       |          |    |
| 109) | 1,2,4-Trichlorobenzene    | 13.654 | 180  | 411      | N.D.  |       |          |    |
| 110) | Naphthalene               | 0.000  |      | 0        | N.D.  | d     |          |    |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 30 09:49:35 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

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

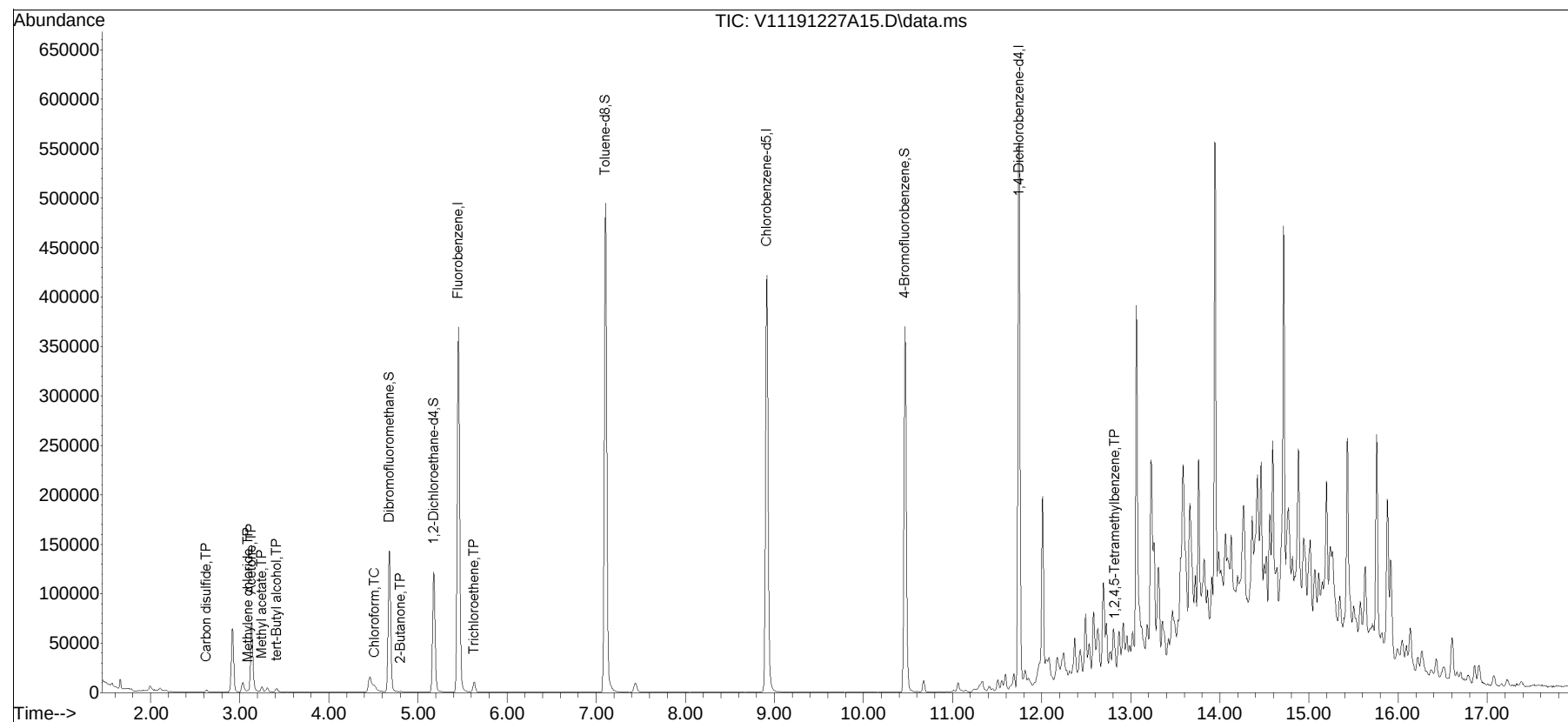


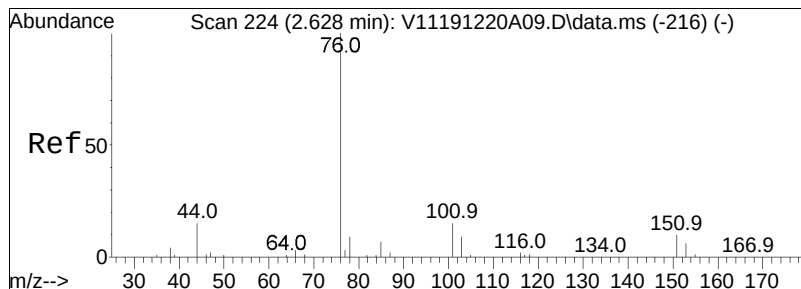
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 30 09:49:35 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

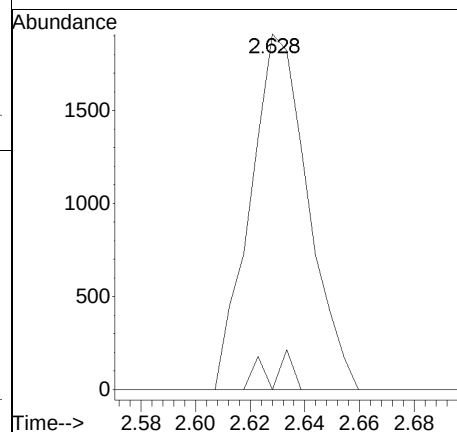
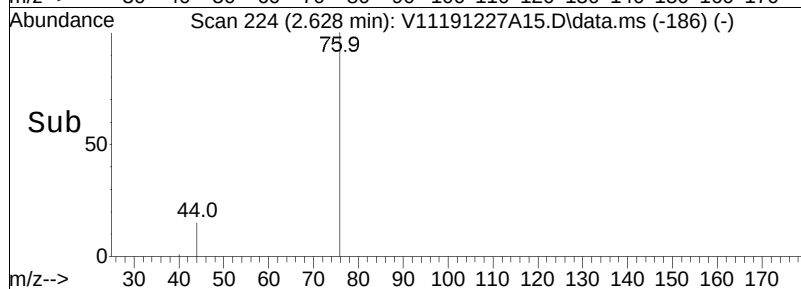
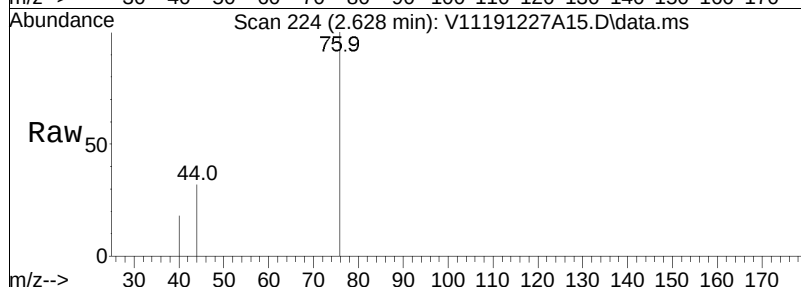
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

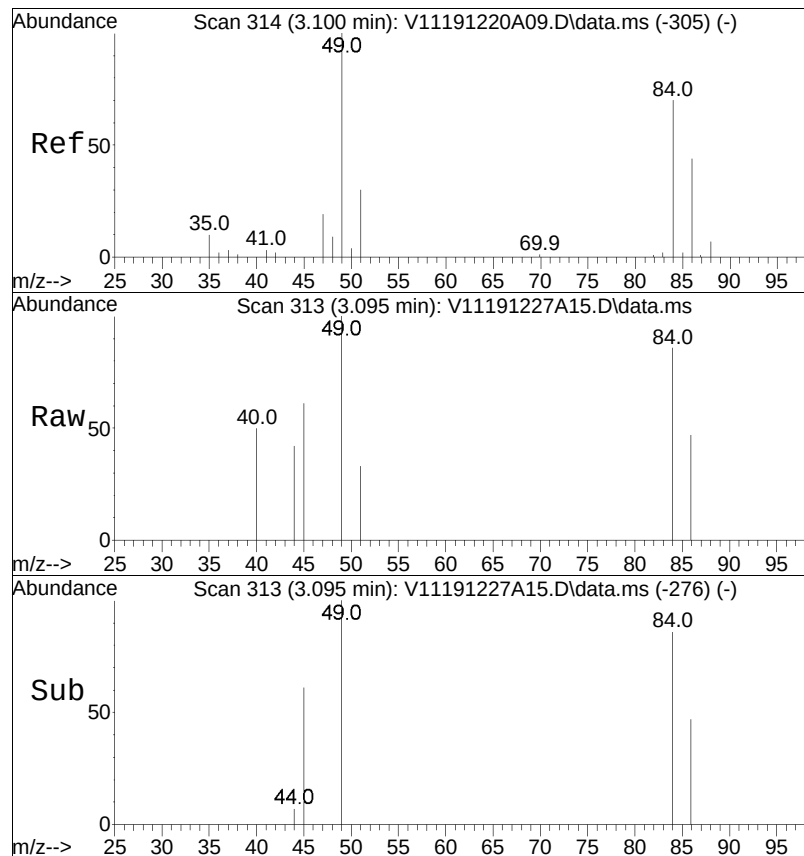




#11  
 Carbon disulfide  
 Concen: 0.20 ug/L  
 RT: 2.628 min Scan# 224  
 Delta R.T. 0.000 min  
 Lab File: V11191227A15.D  
 Acq: 27 Dec 2019 11:11 am

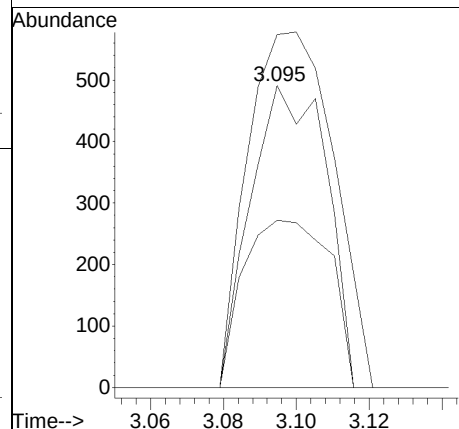
Tgt Ion: 76 Resp: 2796  
 Ion Ratio Lower Upper  
 76 100  
 78 2.0 6.4 13.4#

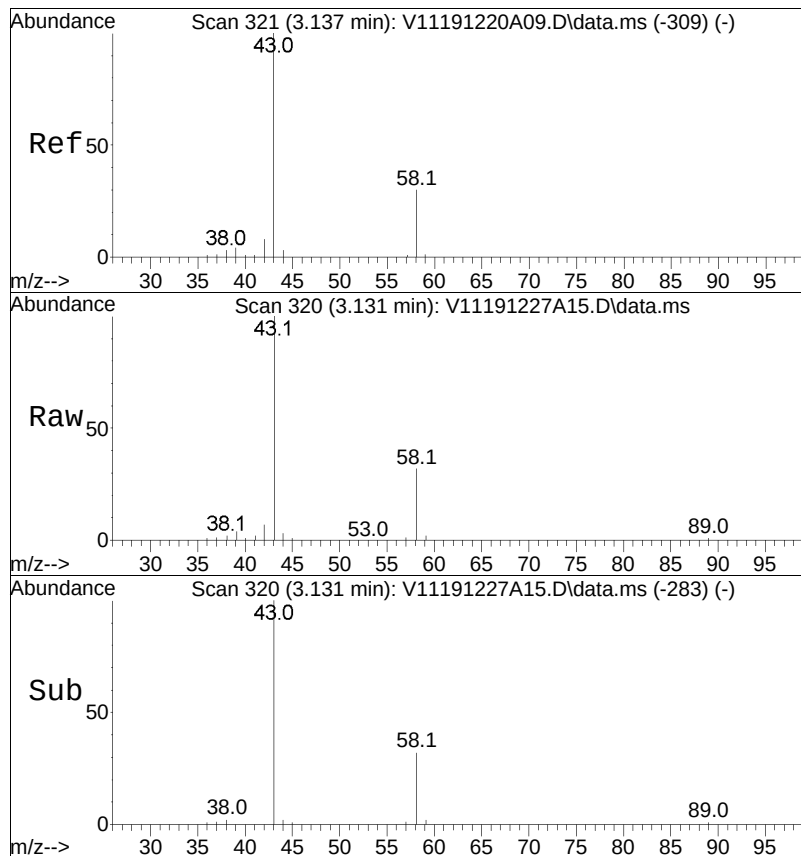




#15  
 Methylene chloride  
 Concen: 0.15 ug/L  
 RT: 3.095 min Scan# 313  
 Delta R.T. -0.005 min  
 Lab File: V11191227A15.D  
 Acq: 27 Dec 2019 11:11 am

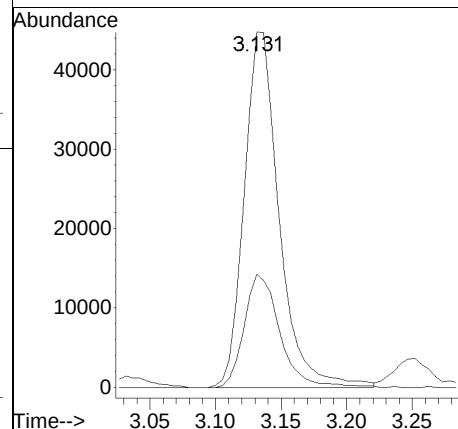
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 86      | 63.1  | 41.1  | 85.3  |
| 49      | 133.8 | 124.2 | 258.0 |

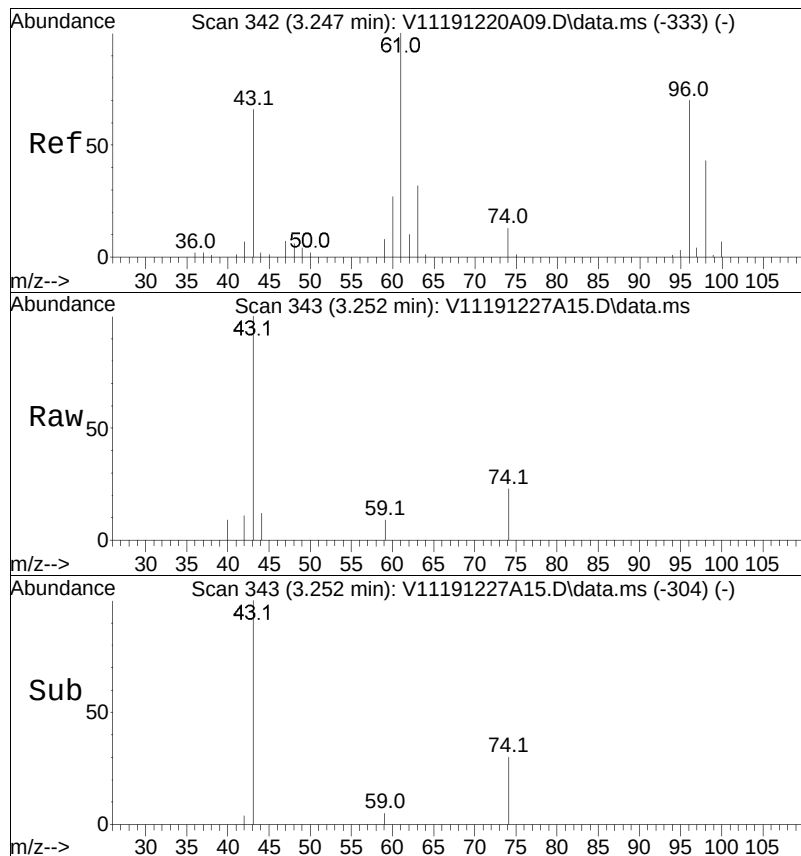




#17  
 Acetone  
 Concen: 76.45 ug/L  
 RT: 3.131 min Scan# 320  
 Delta R.T. -0.006 min  
 Lab File: V11191227A15.D  
 Acq: 27 Dec 2019 11:11 am

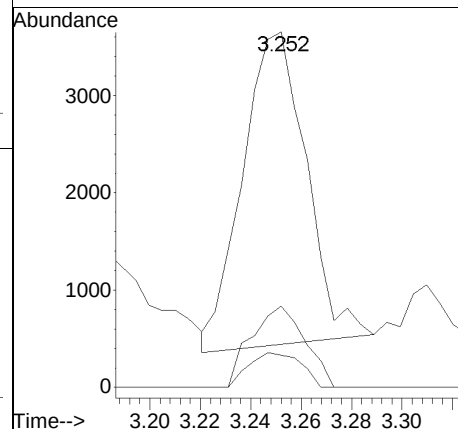
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 32.4  | 20.8  | 31.2# |

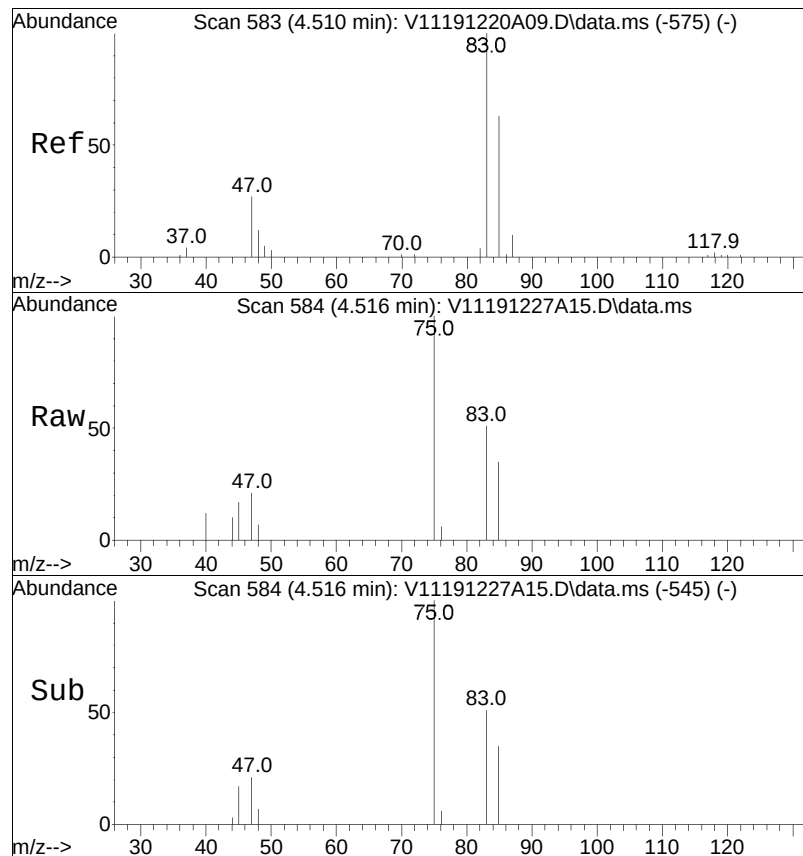




#19  
Methyl acetate  
Concen: 1.95 ug/L  
RT: 3.252 min Scan# 343  
Delta R.T. 0.005 min  
Lab File: V11191227A15.D  
Acq: 27 Dec 2019 11:11 am

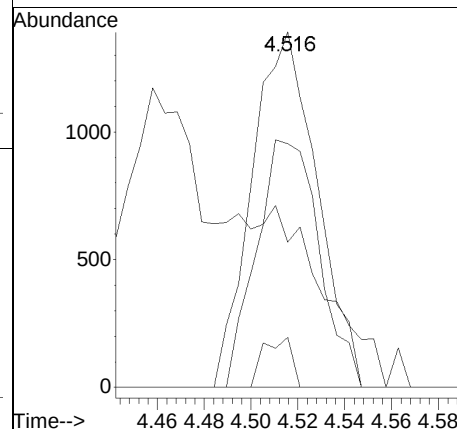
| Tgt Ion:  | 43    | Resp: | 5650  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 74        | 21.9  | 11.3  | 16.9# |
| 59        | 9.0   | 10.4  | 15.6# |

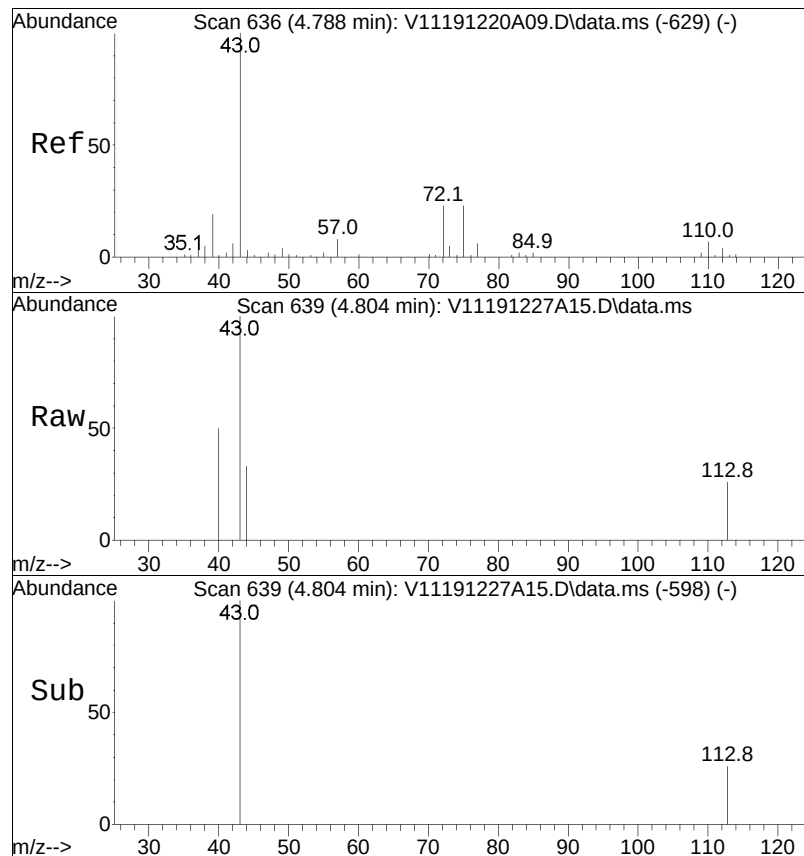




#32  
 Chloroform  
 Concen: 0.35 ug/L  
 RT: 4.516 min Scan# 584  
 Delta R.T. 0.006 min  
 Lab File: V11191227A15.D  
 Acq: 27 Dec 2019 11:11 am

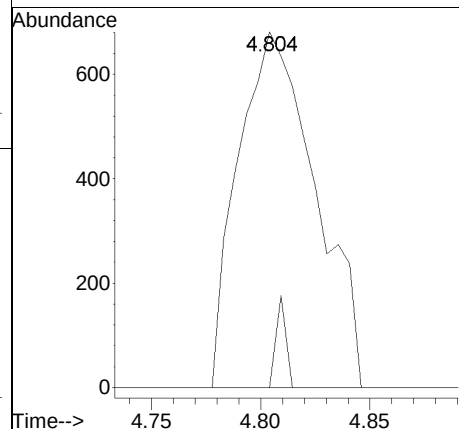
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 2690  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 66.8  | 41.9  | 87.1  |
| 47        | 0.0   | 20.9  | 43.3# |
| 48        | 6.1   | 9.9   | 20.5# |

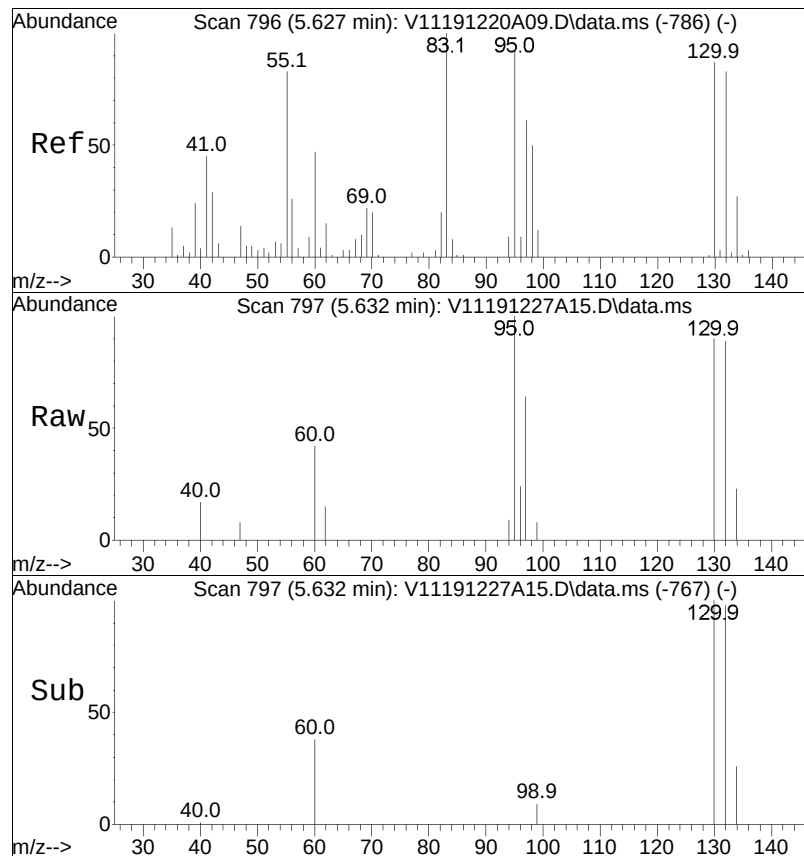




#39  
 2-Butanone  
 Concen: 1.01 ug/L  
 RT: 4.804 min Scan# 639  
 Delta R.T. 0.016 min  
 Lab File: V11191227A15.D  
 Acq: 27 Dec 2019 11:11 am

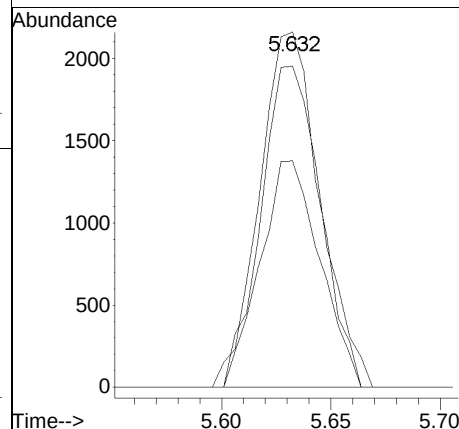
| Tgt | Ion | Resp | Lower | Upper |
|-----|-----|------|-------|-------|
| 43  | 100 | 1678 |       |       |
| 72  | 3.3 | 21.0 | 31.6# |       |





#48  
 Trichloroethene  
 Concen: 0.98 ug/L  
 RT: 5.632 min Scan# 797  
 Delta R.T. 0.005 min  
 Lab File: V11191227A15.D  
 Acq: 27 Dec 2019 11:11 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 64.5  | 54.3  | 81.5  |
| 130     | 94.0  | 84.6  | 126.8 |





# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A15.D Operator : VOA111:JC  
Date Inj'd : 12/27/2019 11:11 am Instrument : VOA111  
Sample : l1961284-05,31,7.20,5,,b Quant Date : 12/30/2019 9:38 am

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

## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: V11191227A15.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.922       | 270           | 280         | 295          | rBV      | 64542          | 119774        | 12.34%          | 0.920%        |
| 2         | 3.131       | 310           | 320         | 337          | rVV      | 69915          | 130138        | 13.41%          | 1.000%        |
| 3         | 4.463       | 563           | 574         | 581          | rBV      | 15724          | 44686         | 4.61%           | 0.343%        |
| 4         | 4.678       | 607           | 615         | 630          | rBV      | 142367         | 280560        | 28.91%          | 2.156%        |
| 5         | 5.176       | 702           | 710         | 733          | rVB      | 121537         | 240432        | 24.78%          | 1.848%        |
| 6         | 5.454       | 752           | 763         | 790          | rBV      | 369464         | 713502        | 73.53%          | 5.483%        |
| 7         | 7.106       | 1067          | 1078        | 1105         | rBV      | 494226         | 970313        | 100.00%         | 7.456%        |
| 8         | 8.915       | 1412          | 1423        | 1448         | rBV      | 422121         | 850078        | 87.61%          | 6.533%        |
| 9         | 10.467      | 1704          | 1719        | 1742         | rBV      | 369736         | 689924        | 71.10%          | 5.302%        |
| 10        | 11.337      | 1872          | 1885        | 1893         | rVB9     | 9741           | 29267         | 3.02%           | 0.225%        |
| 11        | 11.688      | 1940          | 1952        | 1956         | rBV6     | 15522          | 30461         | 3.14%           | 0.234%        |
| 12        | 11.746      | 1956          | 1963        | 1972         | rBV      | 550740         | 884743        | 91.18%          | 6.799%        |
| 13        | 12.008      | 1993          | 2013        | 2019         | rBV      | 190825         | 349946        | 36.07%          | 2.689%        |
| 14        | 12.176      | 2038          | 2045        | 2051         | rBV6     | 22066          | 52164         | 5.38%           | 0.401%        |
| 15        | 12.244      | 2051          | 2058        | 2068         | rVB4     | 23561          | 63880         | 6.58%           | 0.491%        |
| 16        | 12.370      | 2075          | 2082        | 2088         | rBV2     | 35919          | 55769         | 5.75%           | 0.429%        |
| 17        | 12.433      | 2088          | 2094        | 2099         | rBV4     | 23482          | 40103         | 4.13%           | 0.308%        |
| 18        | 12.490      | 2099          | 2105        | 2109         | rBV3     | 58321          | 90040         | 9.28%           | 0.692%        |
| 19        | 12.532      | 2110          | 2113        | 2118         | rVB3     | 25735          | 36258         | 3.74%           | 0.279%        |
| 20        | 12.580      | 2118          | 2122        | 2127         | rBV2     | 57980          | 96174         | 9.91%           | 0.739%        |
| 21        | 12.627      | 2128          | 2131        | 2138         | rVB5     | 39389          | 68039         | 7.01%           | 0.523%        |
| 22        | 12.695      | 2138          | 2144        | 2147         | rBV3     | 85042          | 137937        | 14.22%          | 1.060%        |
| 23        | 12.805      | 2161          | 2165        | 2172         | rVB2     | 38955          | 66167         | 6.82%           | 0.508%        |
| 24        | 12.868      | 2172          | 2177        | 2181         | rBV4     | 36114          | 61926         | 6.38%           | 0.476%        |
| 25        | 12.915      | 2181          | 2186        | 2190         | rVV5     | 34021          | 51155         | 5.27%           | 0.393%        |
| 26        | 13.062      | 2209          | 2214        | 2233         | rVB      | 347207         | 557881        | 57.49%          | 4.287%        |
| 27        | 13.182      | 2233          | 2237        | 2240         | rBV4     | 24449          | 34304         | 3.54%           | 0.264%        |
| 28        | 13.230      | 2240          | 2246        | 2250         | rBV3     | 181371         | 323372        | 33.33%          | 2.485%        |

## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |       |        |        |        |        |
|----|--------|------|------|------|-------|--------|--------|--------|--------|
| 29 | 13.308 | 2256 | 2261 | 2266 | rVB5  | 81316  | 140649 | 14.50% | 1.081% |
| 30 | 13.355 | 2267 | 2270 | 2279 | rVB7  | 34389  | 68407  | 7.05%  | 0.526% |
| 31 | 13.466 | 2286 | 2291 | 2300 | rBV8  | 32350  | 76641  | 7.90%  | 0.589% |
| 32 | 13.586 | 2301 | 2314 | 2324 | rBV10 | 169704 | 526011 | 54.21% | 4.042% |
| 33 | 13.660 | 2324 | 2328 | 2337 | rBV8  | 109480 | 230090 | 23.71% | 1.768% |
| 34 | 13.759 | 2343 | 2347 | 2353 | rBV   | 149075 | 188858 | 19.46% | 1.451% |
| 35 | 13.906 | 2372 | 2375 | 2378 | rBV4  | 41384  | 52342  | 5.39%  | 0.402% |
| 36 | 13.943 | 2378 | 2382 | 2387 | rVV   | 460889 | 567279 | 58.46% | 4.359% |
| 37 | 14.058 | 2401 | 2404 | 2408 | rBV3  | 48027  | 69851  | 7.20%  | 0.537% |
| 38 | 14.268 | 2438 | 2444 | 2453 | rVB4  | 98563  | 204866 | 21.11% | 1.574% |
| 39 | 14.362 | 2457 | 2462 | 2465 | rBV2  | 72902  | 108460 | 11.18% | 0.833% |
| 40 | 14.420 | 2470 | 2473 | 2477 | rVV3  | 111595 | 175895 | 18.13% | 1.352% |
| 41 | 14.462 | 2477 | 2481 | 2485 | rVB3  | 120232 | 155344 | 16.01% | 1.194% |
| 42 | 14.556 | 2495 | 2499 | 2502 | rBV3  | 89116  | 123775 | 12.76% | 0.951% |
| 43 | 14.593 | 2502 | 2506 | 2511 | rVB   | 139204 | 177042 | 18.25% | 1.360% |
| 44 | 14.713 | 2520 | 2529 | 2534 | rBV   | 372285 | 545250 | 56.19% | 4.190% |
| 45 | 14.766 | 2534 | 2539 | 2545 | rVB8  | 69700  | 152111 | 15.68% | 1.169% |
| 46 | 14.881 | 2555 | 2561 | 2567 | rVB2  | 141313 | 220483 | 22.72% | 1.694% |
| 47 | 14.939 | 2568 | 2572 | 2579 | rVB6  | 58594  | 117375 | 12.10% | 0.902% |
| 48 | 15.012 | 2580 | 2586 | 2591 | rVB3  | 72444  | 144989 | 14.94% | 1.114% |
| 49 | 15.065 | 2592 | 2596 | 2601 | rBV6  | 41089  | 67605  | 6.97%  | 0.520% |
| 50 | 15.107 | 2601 | 2604 | 2608 | rBV4  | 30572  | 37772  | 3.89%  | 0.290% |
| 51 | 15.196 | 2616 | 2621 | 2625 | rVB   | 104515 | 125104 | 12.89% | 0.961% |
| 52 | 15.238 | 2626 | 2629 | 2632 | rBV3  | 32983  | 49260  | 5.08%  | 0.379% |
| 53 | 15.348 | 2646 | 2650 | 2656 | rVB6  | 32229  | 49512  | 5.10%  | 0.380% |
| 54 | 15.432 | 2660 | 2666 | 2675 | rVB3  | 187535 | 313285 | 32.29% | 2.407% |
| 55 | 15.573 | 2689 | 2693 | 2698 | rBV6  | 29344  | 44704  | 4.61%  | 0.344% |
| 56 | 15.631 | 2699 | 2704 | 2710 | rVB   | 67243  | 111446 | 11.49% | 0.856% |
| 57 | 15.757 | 2723 | 2728 | 2736 | rVB   | 206093 | 303500 | 31.28% | 2.332% |
| 58 | 15.877 | 2745 | 2751 | 2755 | rBV   | 147220 | 246437 | 25.40% | 1.894% |
| 59 | 15.914 | 2756 | 2758 | 2768 | rVB   | 100496 | 151118 | 15.57% | 1.161% |
| 60 | 16.045 | 2779 | 2783 | 2788 | rVB5  | 17625  | 29142  | 3.00%  | 0.224% |

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 61 | 16.134 | 2796 | 2800 | 2811 | rVB3 | 42646 | 84029 | 8.66% | 0.646% |
| 62 | 16.265 | 2821 | 2825 | 2841 | rVB6 | 24876 | 62361 | 6.43% | 0.479% |
| 63 | 16.428 | 2851 | 2856 | 2863 | rVB  | 18805 | 34462 | 3.55% | 0.265% |
| 64 | 16.512 | 2865 | 2872 | 2881 | rVB6 | 11712 | 29993 | 3.09% | 0.230% |
| 65 | 16.606 | 2883 | 2890 | 2897 | rBV2 | 41295 | 82066 | 8.46% | 0.631% |
| 66 | 16.858 | 2933 | 2938 | 2942 | rVV2 | 18562 | 31715 | 3.27% | 0.244% |
| 67 | 16.910 | 2942 | 2948 | 2963 | rVB2 | 19576 | 44830 | 4.62% | 0.345% |

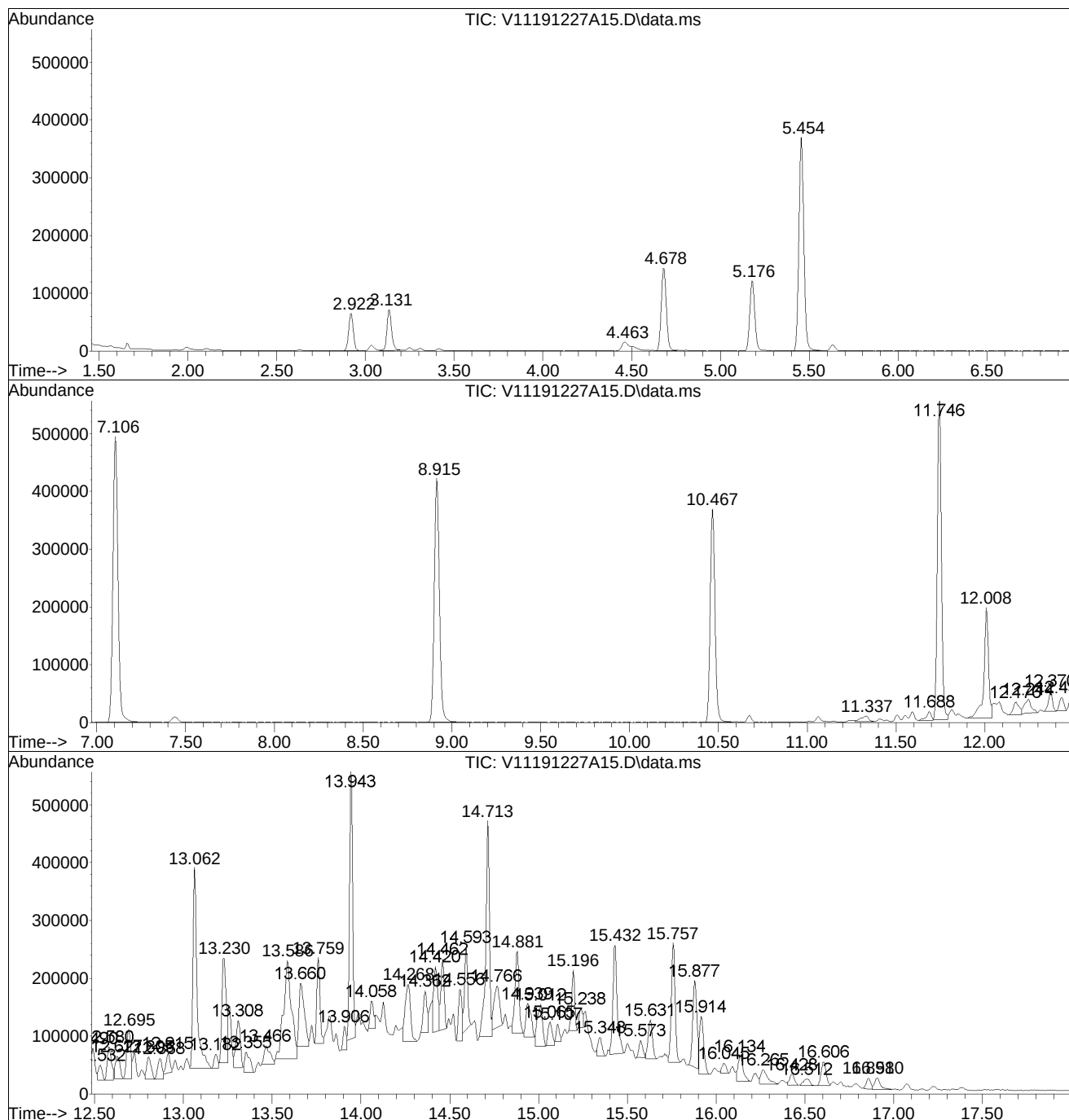
Sum of corrected areas: 13013052

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : 11961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

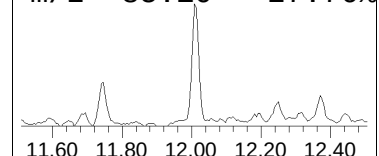
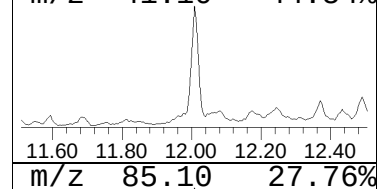
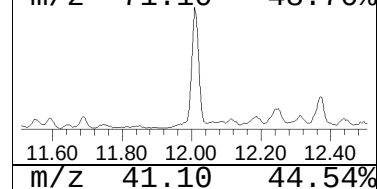
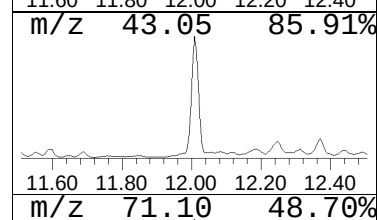
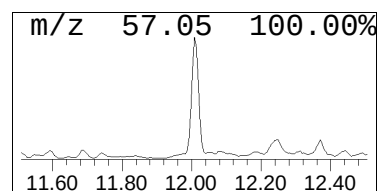
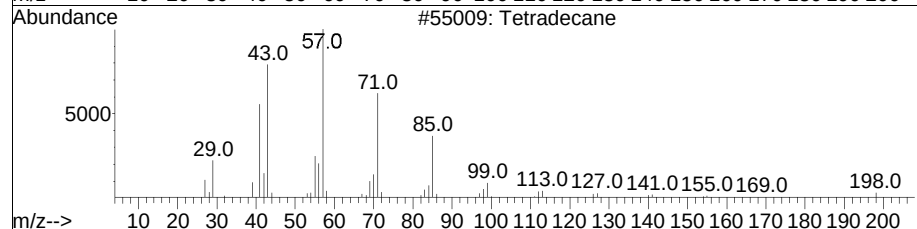
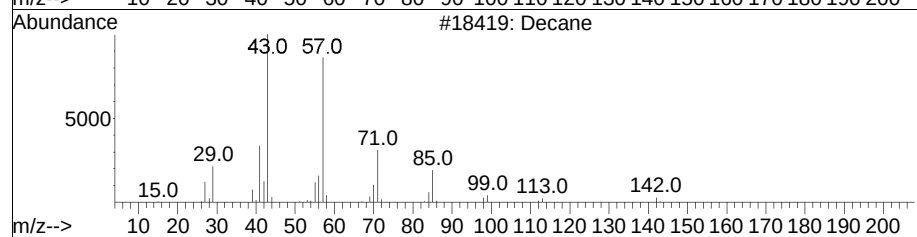
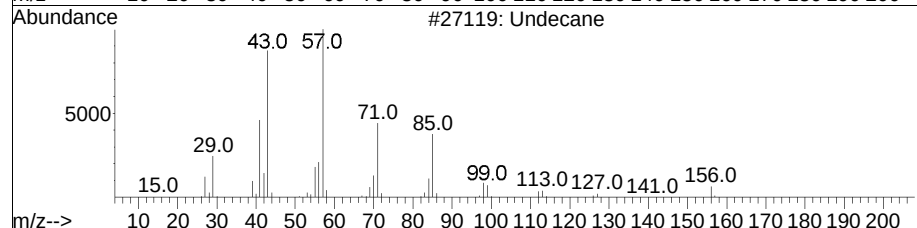
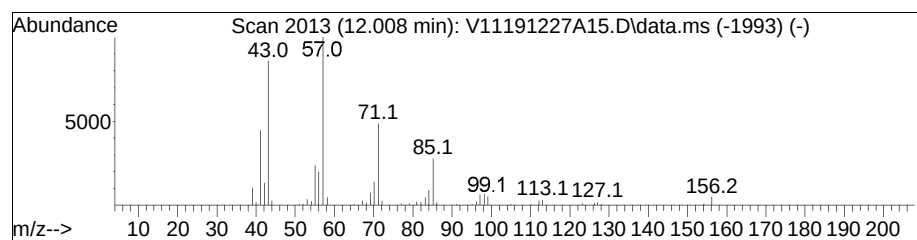
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 1 Unknown Alkane Concentration Rank 5

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 12.008 | 7.91 ug/L | 349946 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane                  |              | 156 | C11H24  | 001120-21-4 | 94   |
| 2       | Decane                    |              | 142 | C10H22  | 000124-18-5 | 86   |
| 3       | Tetradecane               |              | 198 | C14H30  | 000629-59-4 | 86   |
| 4       | Hexadecane                |              | 226 | C16H34  | 000544-76-3 | 72   |
| 5       | Decane, 6-ethyl-2-methyl- |              | 184 | C13H28  | 062108-21-8 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
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Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

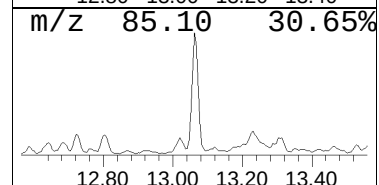
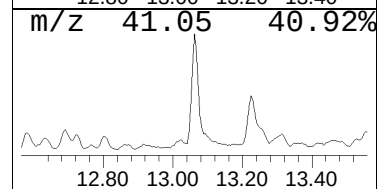
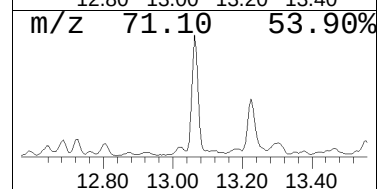
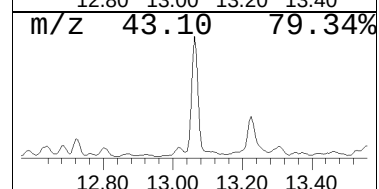
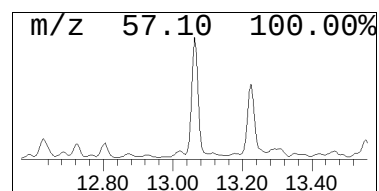
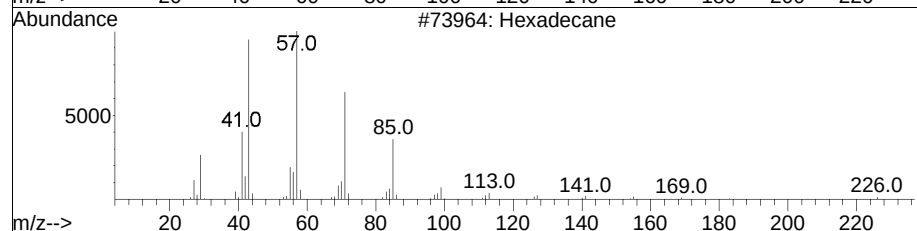
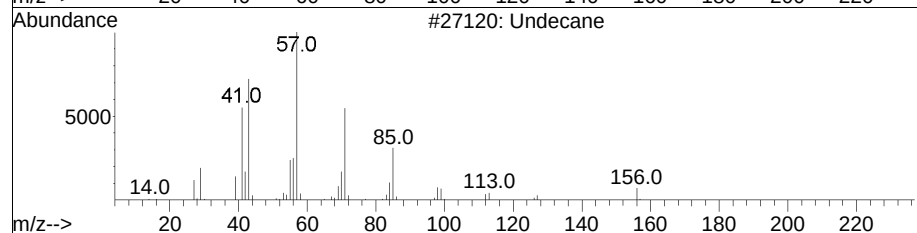
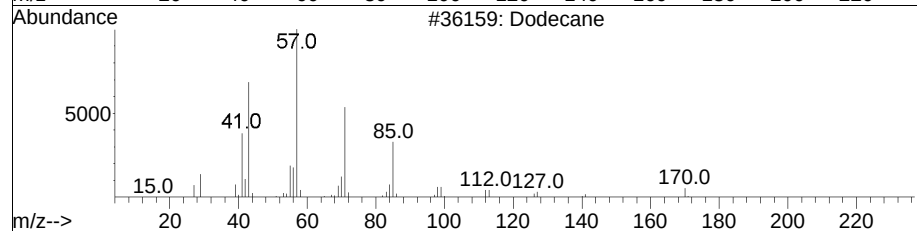
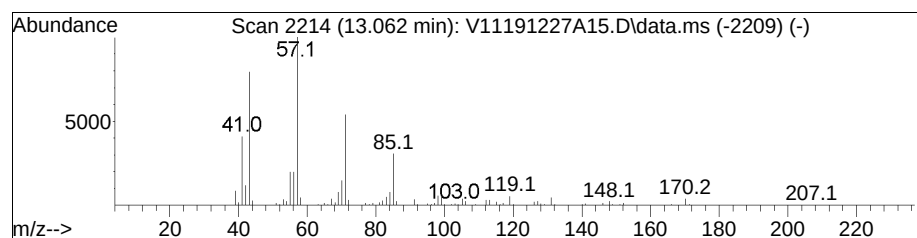
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 2 Dodecane Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.062 | 12.61 ug/L | 557881 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Dodecane    |              | 170 | C12H26  | 000112-40-3 | 95   |
| 2       | Undecane    |              | 156 | C11H24  | 001120-21-4 | 80   |
| 3       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 72   |
| 4       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 72   |
| 5       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

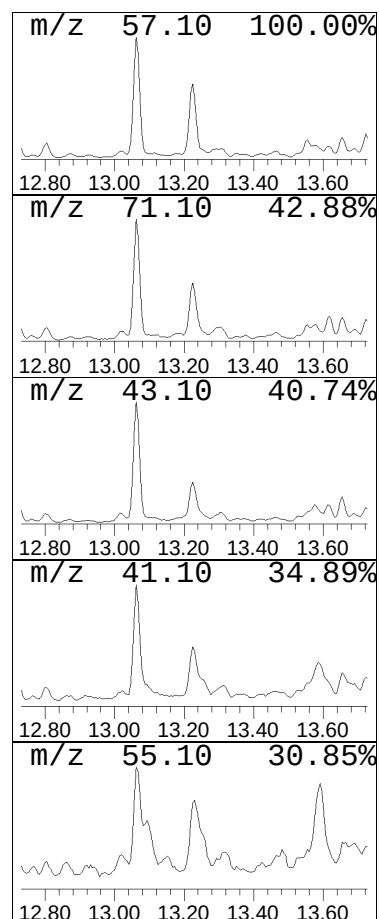
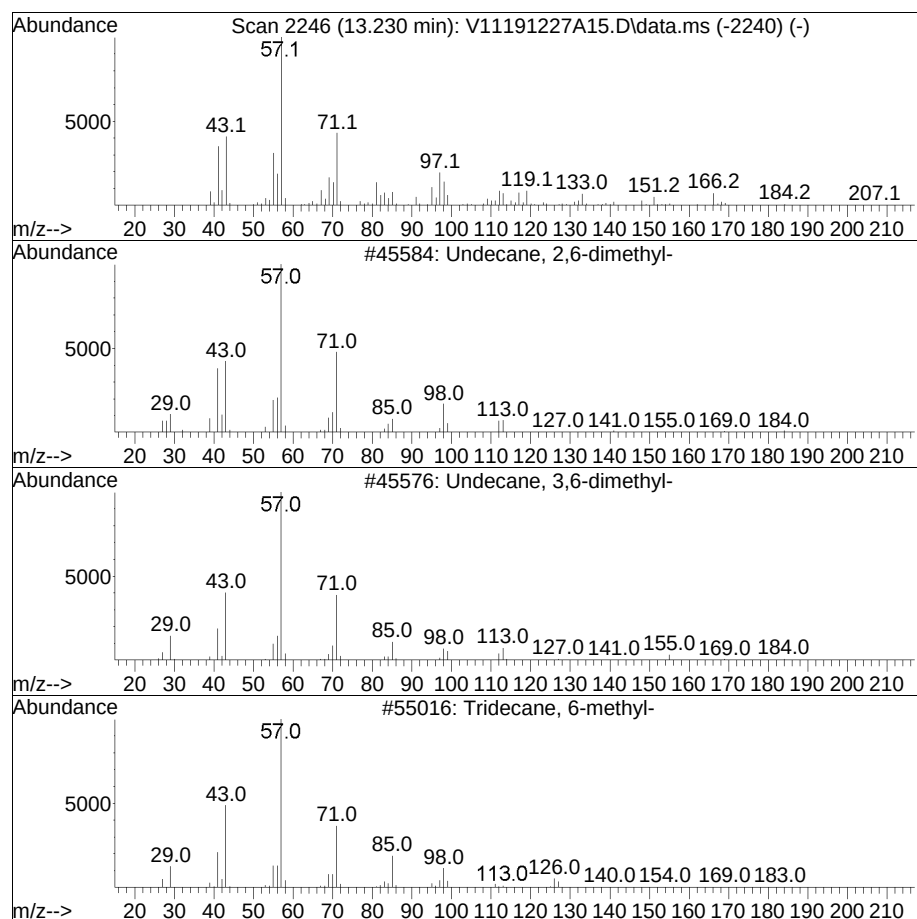
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 3 Undecane, 2,6-dimethyl- Concentration Rank 6

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.230 | 7.31 ug/L | 323372 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                       | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------|--------------|--------|-------------|------|------|
| 1       | Undecane, 2,6-dimethyl- | 184          | C13H28 | 017301-23-4 | 86   |      |
| 2       | Undecane, 3,6-dimethyl- | 184          | C13H28 | 017301-28-9 | 55   |      |
| 3       | Tridecane, 6-methyl-    | 198          | C14H30 | 013287-21-3 | 47   |      |
| 4       | Dodecane, 6-methyl-     | 184          | C13H28 | 006044-71-9 | 38   |      |
| 5       | Eicosane                | 282          | C20H42 | 000112-95-8 | 38   |      |





## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

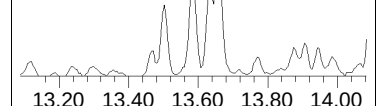
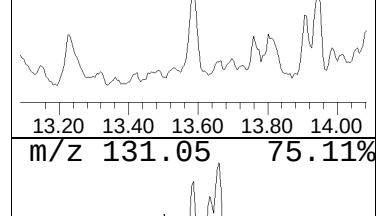
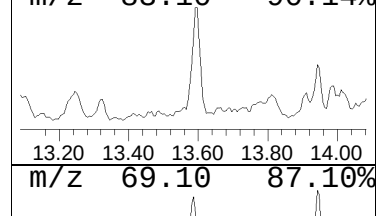
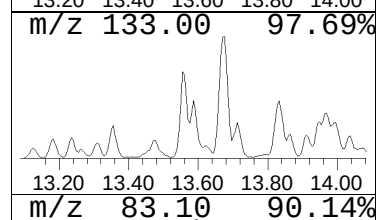
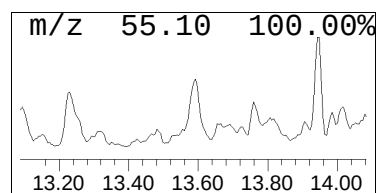
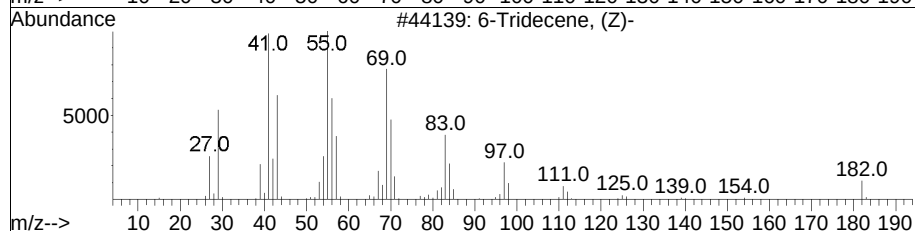
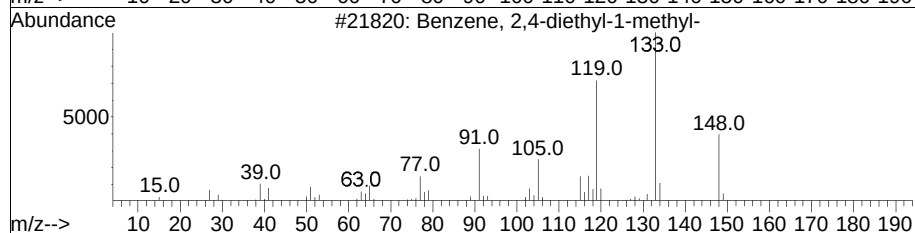
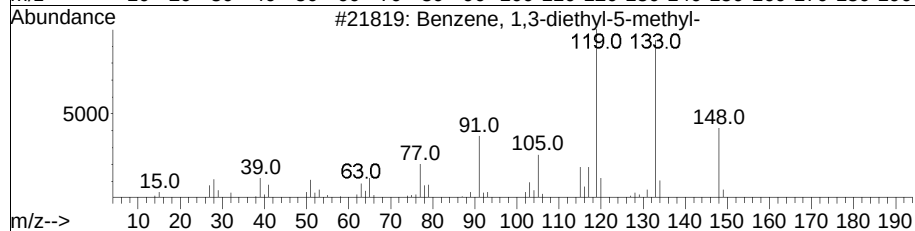
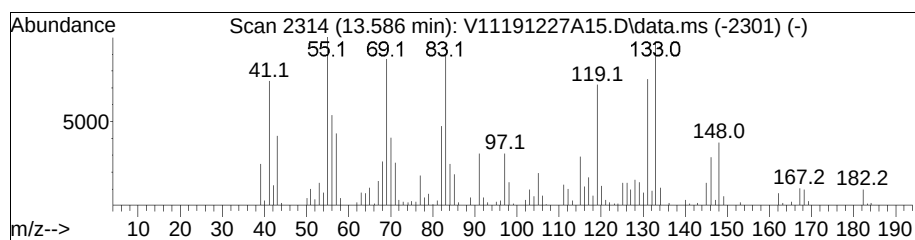
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 4 Unknown Concentration Rank 4

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.586 | 11.89 ug/L | 526011 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16  | 002050-24-0 | 68   |
| 2       |   | Benzene, 2,4-diethyl-1-methyl-      | 148 | C11H16  | 001758-85-6 | 62   |
| 3       |   | 6-Tridecene, (Z)-                   | 182 | C13H26  | 006508-77-6 | 35   |
| 4       |   | 6-Dodecene, (E)-                    | 168 | C12H24  | 007206-17-9 | 35   |
| 5       |   | Benzene, (1,1-dimethyl-2-propenyl)- | 146 | C11H14  | 018321-36-3 | 25   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

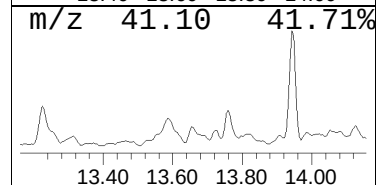
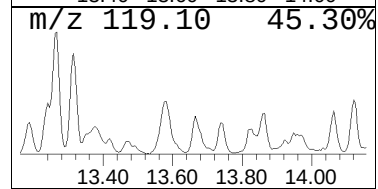
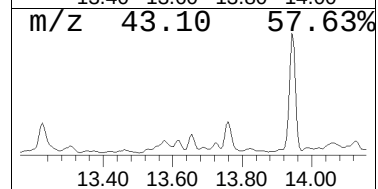
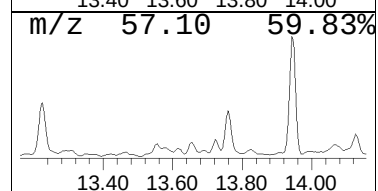
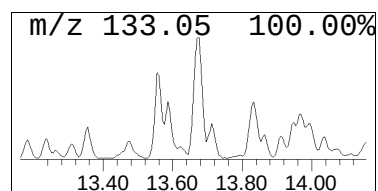
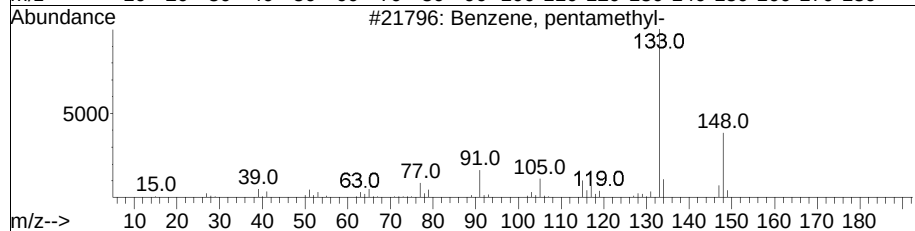
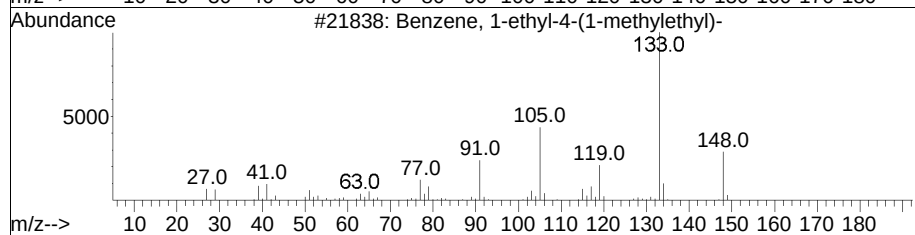
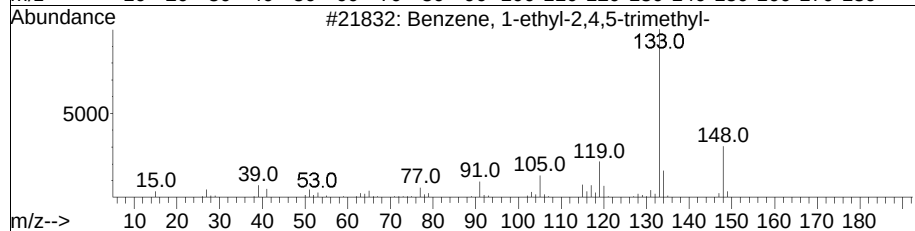
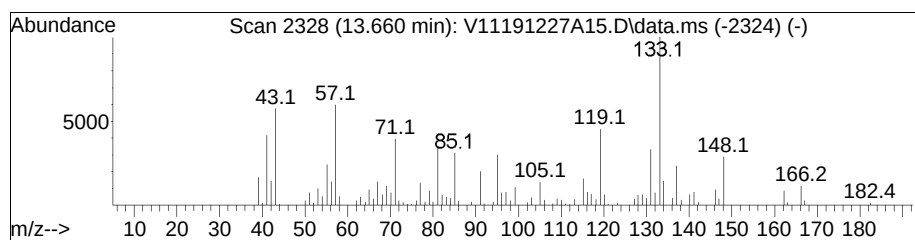
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 5 Unknown Aromatic Concentration Rank 10

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 13.660 | 5.20 ug/L | 230090 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-ethyl-2,4,5-trimethyl-   | 148 | C11H16  | 017851-27-3 | 38   |
| 2       |   | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16  | 004218-48-8 | 30   |
| 3       |   | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 30   |
| 4       |   | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16  | 004706-90-5 | 27   |
| 5       |   | 2-tert-Butyltoluene                 | 148 | C11H16  | 001074-92-6 | 25   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
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Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

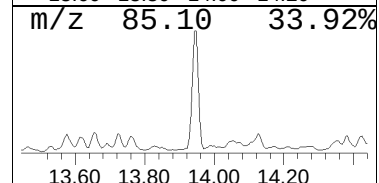
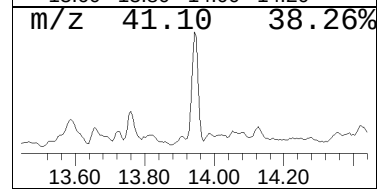
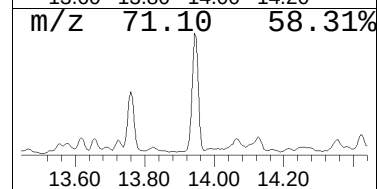
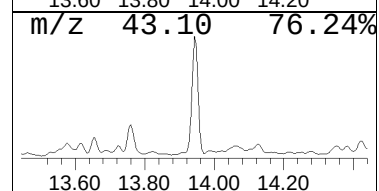
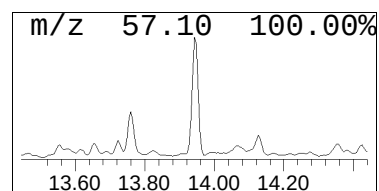
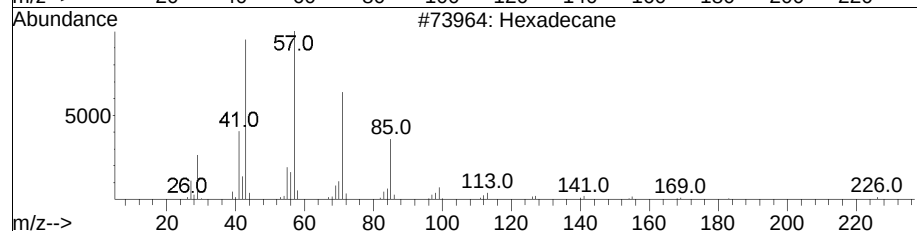
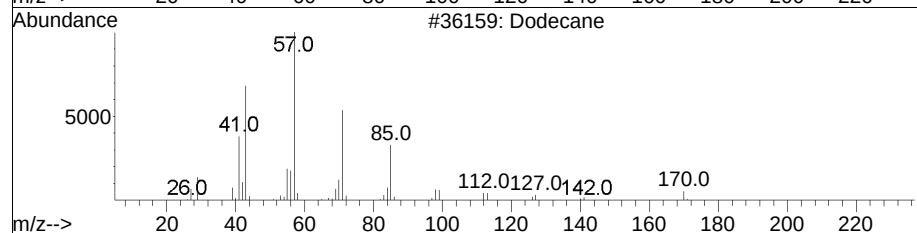
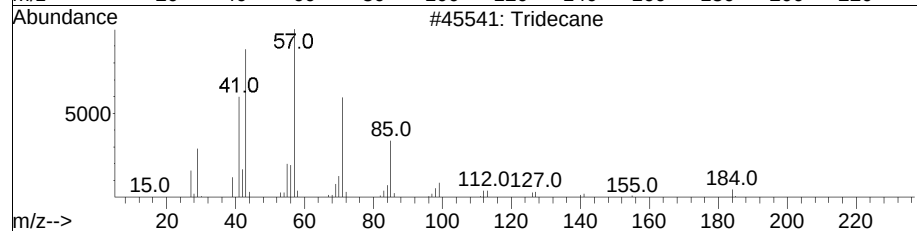
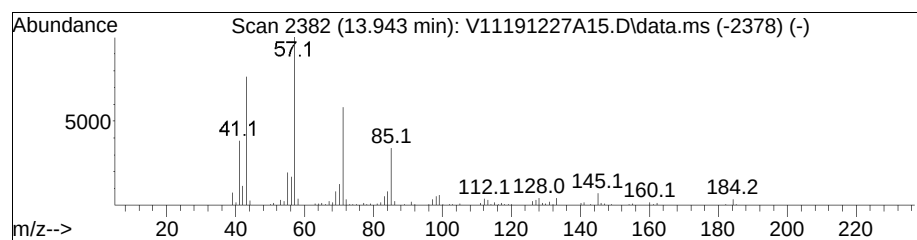
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 6 Tridecane Concentration Rank 1

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.943 | 12.82 ug/L | 567279 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------|--------------|-----|---------|-------------|------|
| 1       | Tridecane         |              | 184 | C13H28  | 000629-50-5 | 97   |
| 2       | Dodecane          |              | 170 | C12H26  | 000112-40-3 | 80   |
| 3       | Hexadecane        |              | 226 | C16H34  | 000544-76-3 | 74   |
| 4       | Octane, 2-methyl- |              | 128 | C9H20   | 003221-61-2 | 72   |
| 5       | Pentadecane       |              | 212 | C15H32  | 000629-62-9 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
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Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

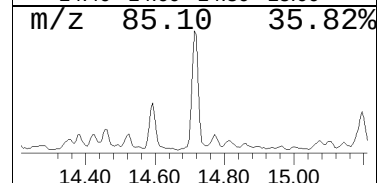
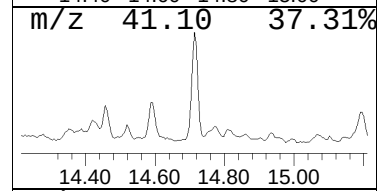
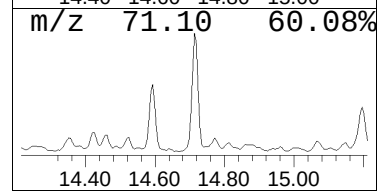
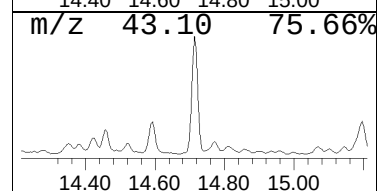
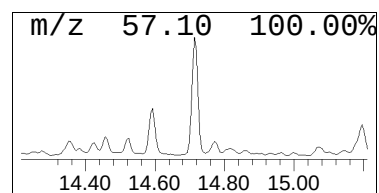
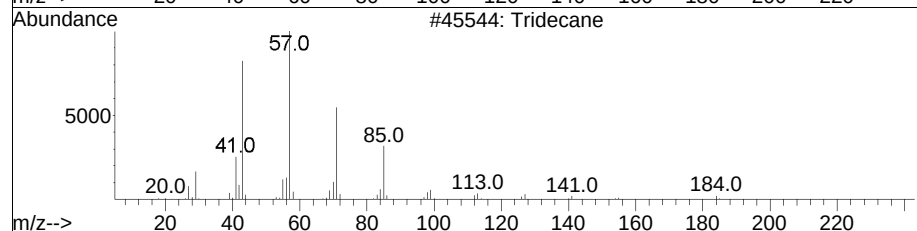
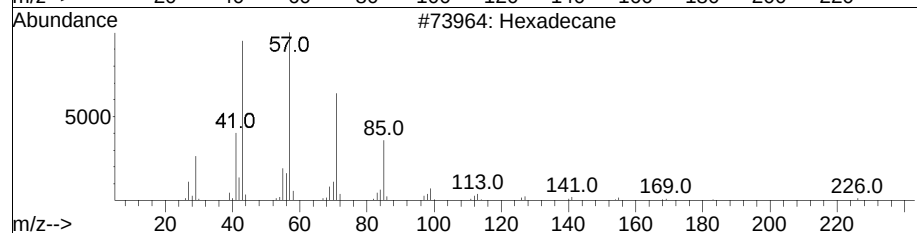
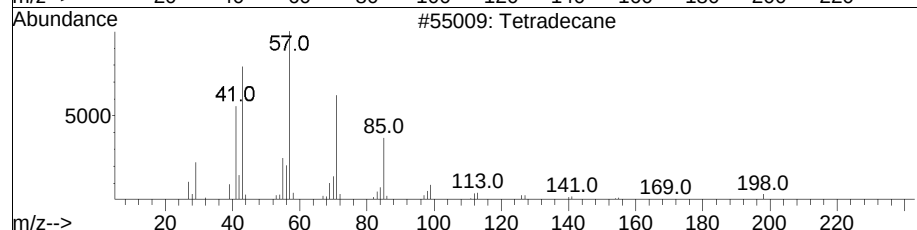
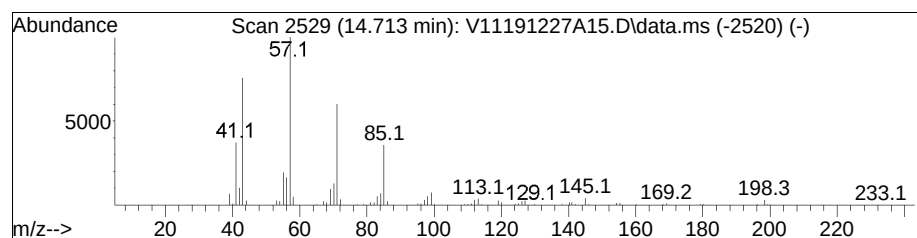
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 7 Unknown Alkane Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.713 | 12.33 ug/L | 545250 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------|-----|---------|-------------|------|
| 1       |   | Tetradecane        | 198 | C14H30  | 000629-59-4 | 98   |
| 2       |   | Hexadecane         | 226 | C16H34  | 000544-76-3 | 87   |
| 3       |   | Tridecane          | 184 | C13H28  | 000629-50-5 | 86   |
| 4       |   | Pentadecane        | 212 | C15H32  | 000629-62-9 | 86   |
| 5       |   | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

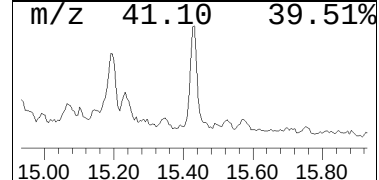
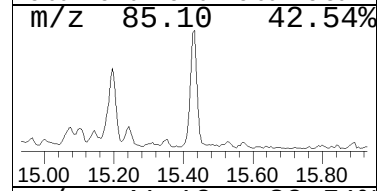
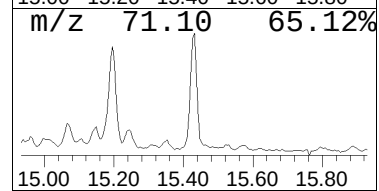
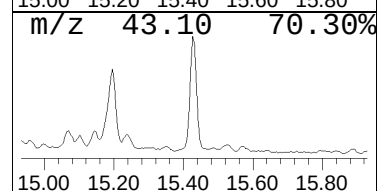
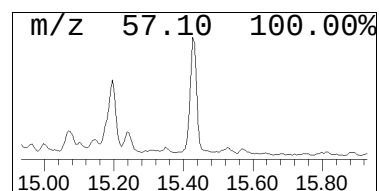
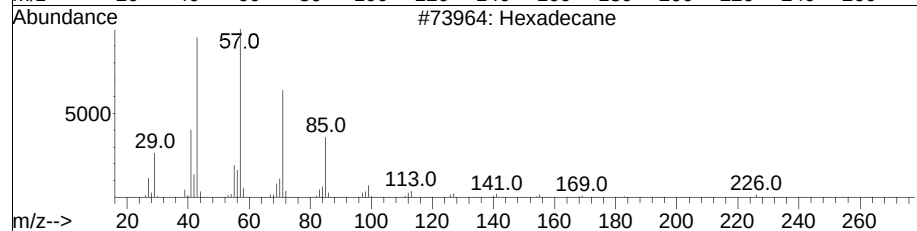
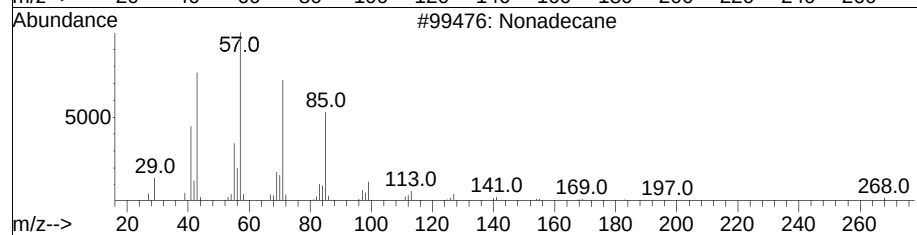
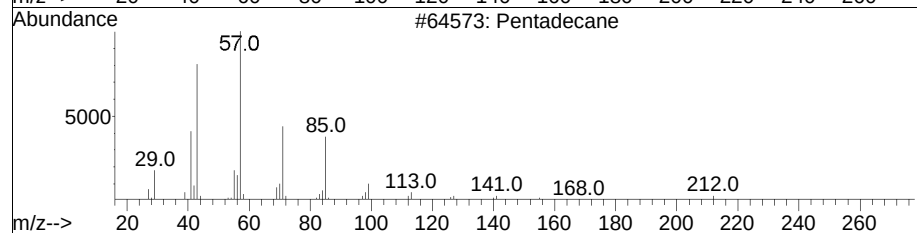
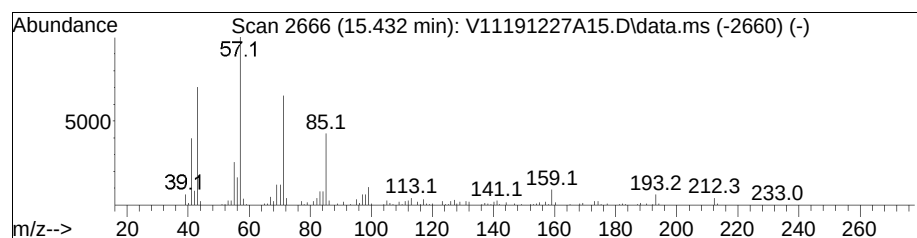
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 8 Pentadecane Concentration Rank 7

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.432 | 7.08 ug/L | 313285 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 96   |
| 2       | Nonadecane  |              | 268 | C19H40  | 000629-92-5 | 83   |
| 3       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 72   |
| 4       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 72   |
| 5       | Nonacosane  |              | 408 | C29H60  | 000630-03-5 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

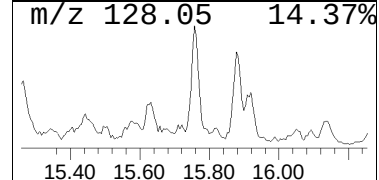
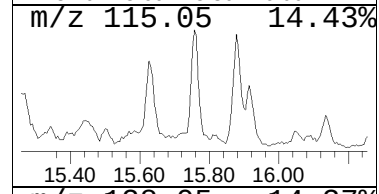
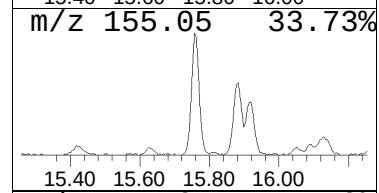
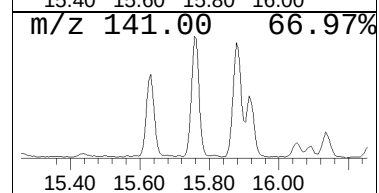
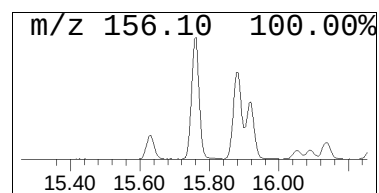
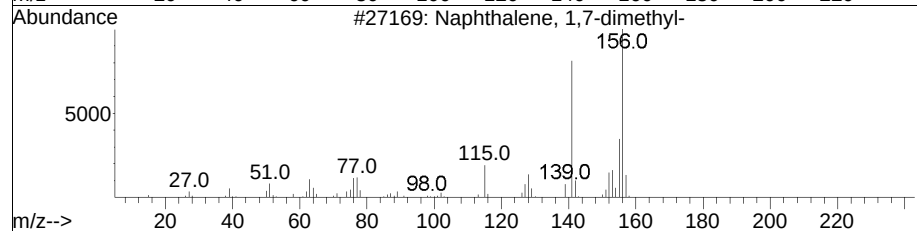
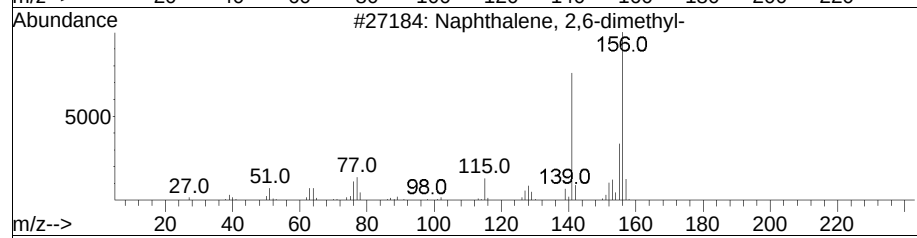
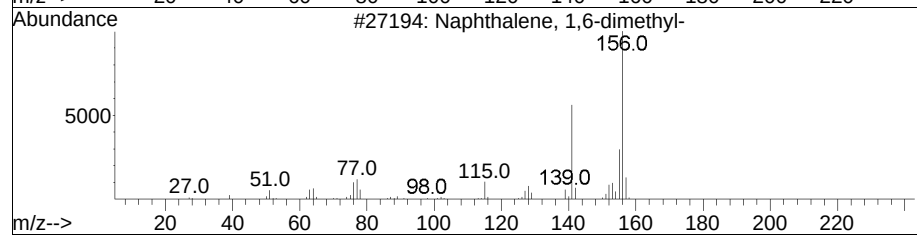
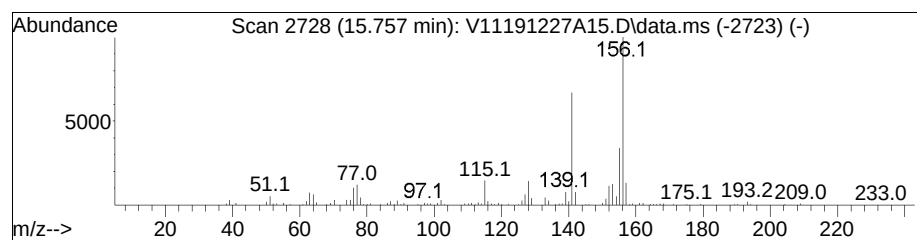
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 9 Unknown Naphthalene Concentration Rank 8

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.757 | 6.86 ug/L | 303500 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 98   |
| 2       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 3       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 4       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 5       |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 96   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A15.D  
Acq On : 27 Dec 2019 11:11 am  
Operator : VOA111:JC  
Sample : l1961284-05,31,7.20,5,,b  
Misc : WG1325768,ICAL16383  
ALS Vial : 15 Sample Multiplier: 1

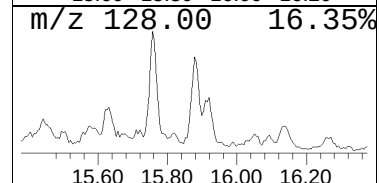
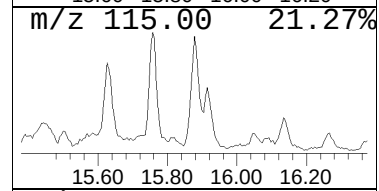
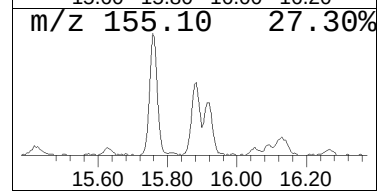
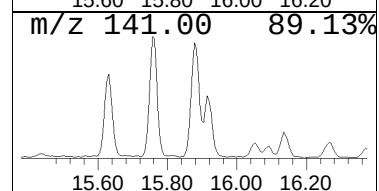
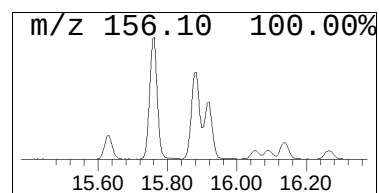
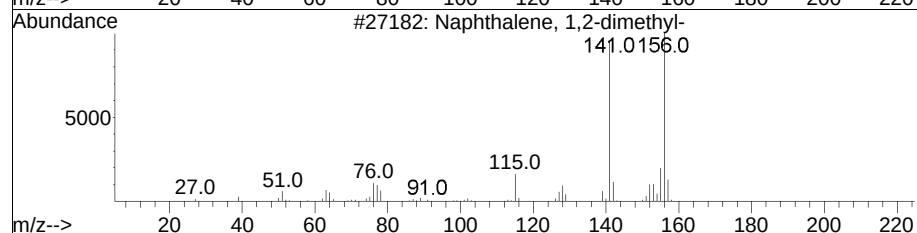
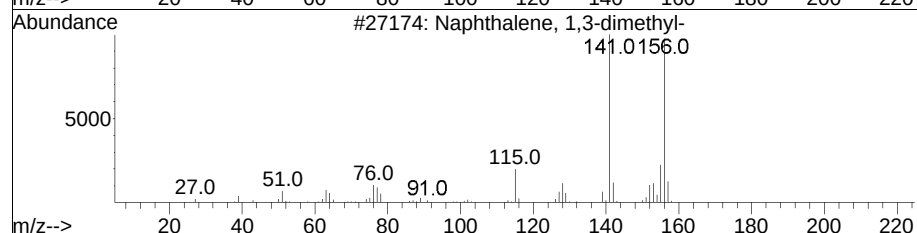
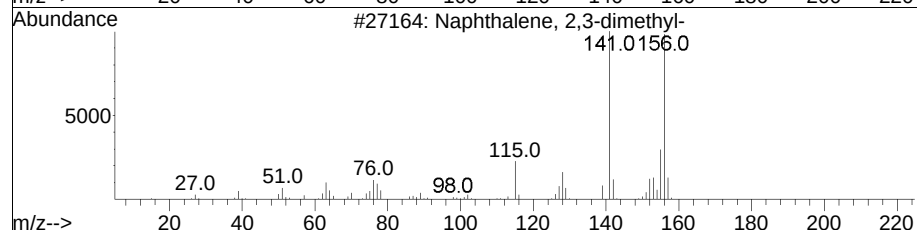
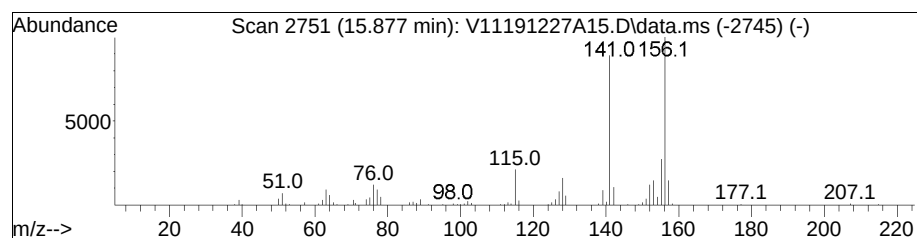
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 10 Unknown Naphthalene Concentration Rank 9

| R.T.   | EstConc   | Area   | Relative to ISTD       | R.T.   |
|--------|-----------|--------|------------------------|--------|
| 15.877 | 5.57 ug/L | 246437 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2       |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 3       |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 97   |
| 4       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 5       |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A15.D  
 Acq On : 27 Dec 2019 11:11 am  
 Operator : VOA111:JC  
 Sample : l1961284-05,31,7.20,5,,b  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard--- |        |        |      |
|--------------------|--------|---------|-------|----------|------------------------|--------|--------|------|
|                    |        |         |       |          | #                      | RT     | Resp   | Conc |
| Unknown Alkane     | 12.008 | 7.9     | ug/L  | 349946   | 3                      | 11.746 | 884743 | 20.0 |
| Dodecane           | 13.062 | 12.6    | ug/L  | 557881   | 3                      | 11.746 | 884743 | 20.0 |
| Undecane, 2,6-d... | 13.230 | 7.3     | ug/L  | 323372   | 3                      | 11.746 | 884743 | 20.0 |
| Unknown            | 13.586 | 11.9    | ug/L  | 526011   | 3                      | 11.746 | 884743 | 20.0 |
| Unknown Aromatic   | 13.660 | 5.2     | ug/L  | 230090   | 3                      | 11.746 | 884743 | 20.0 |
| Tridecane          | 13.943 | 12.8    | ug/L  | 567279   | 3                      | 11.746 | 884743 | 20.0 |
| Unknown Alkane     | 14.713 | 12.3    | ug/L  | 545250   | 3                      | 11.746 | 884743 | 20.0 |
| Pentadecane        | 15.432 | 7.1     | ug/L  | 313285   | 3                      | 11.746 | 884743 | 20.0 |
| Unknown Naphtha... | 15.757 | 6.9     | ug/L  | 303500   | 3                      | 11.746 | 884743 | 20.0 |
| Unknown Naphtha... | 15.877 | 5.6     | ug/L  | 246437   | 3                      | 11.746 | 884743 | 20.0 |



# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 03:37:19 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                        |                |      |            |           |        |          |
| Internal Standards           |                |      |            |           |        |          |
| 1) Fluorobenzene             | 6.211          | 96   | 74692      | 20.000    | ug/L   | 0.00     |
| Standard Area 1 = 92781      |                |      | Recovery = | 80.50%    |        |          |
| 59) Chlorobenzene-d5         | 9.760          | 117  | 56710      | 20.000    | ug/L   | 0.00     |
| Standard Area 1 = 71520      |                |      | Recovery = | 79.29%    |        |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.408         | 152  | 30029      | 20.000    | ug/L   | 0.00     |
| Standard Area 1 = 38760      |                |      | Recovery = | 77.47%    |        |          |
|                              |                |      |            |           |        |          |
| System Monitoring Compounds  |                |      |            |           |        |          |
| 36) Dibromofluoromethane     | 5.403          | 113  | 21705      | 20.486    | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.43%   |        |          |
| 43) 1,2-Dichloroethane-d4    | 5.928          | 65   | 24210      | 19.150    | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 95.75%    |        |          |
| 60) Toluene-d8               | 7.910          | 98   | 76352      | 19.711    | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 98.55%    |        |          |
| 83) 4-Bromofluorobenzene     | 11.223         | 95   | 30441      | 19.516    | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.58%    |        |          |
|                              |                |      |            |           |        |          |
| Target Compounds             |                |      |            |           |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0          | N.D.      |        |          |
| 3) Chloromethane             | 0.000          |      | 0          | N.D. d    |        |          |
| 4) Vinyl chloride            | 0.000          |      | 0          | N.D.      |        |          |
| 5) Bromomethane              | 2.331          | 94   | 265        | Below Cal | #      | 77       |
| 6) Chloroethane              | 0.000          |      | 0          | N.D.      |        |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0          | N.D.      |        |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0          | N.D.      |        |          |
| 11) Carbon disulfide         | 3.123          | 76   | 315        | 0.100     | ug/L # | 73       |
| 12) Freon-113                | 0.000          |      | 0          | N.D.      |        |          |
| 15) Methylene chloride       | 3.663          | 84   | 231        | 0.166     | ug/L # | 1        |
| 17) Acetone                  | 3.720          | 43   | 800        | 1.573     | ug/L # | 57       |
| 18) trans-1,2-Dichloroethene | 3.830          | 96   | 610        | 0.519     | ug/L # | 57       |
| 19) Methyl acetate           | 0.000          |      | 0          | N.D. d    |        |          |
| 20) Methyl tert-butyl ether  | 0.000          |      | 0          | N.D.      |        |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0          | N.D.      |        |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0          | N.D.      |        |          |
| 31) Cyclohexane              | 0.000          |      | 0          | N.D.      |        |          |
| 32) Chloroform               | 0.000          |      | 0          | N.D.      |        |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0          | N.D.      |        |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0          | N.D.      |        |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 03:37:19 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 39)  | 2-Butanone                | 0.000  |      | 0        |        | N.D.   |          |
| 41)  | Benzene                   | 0.000  |      | 0        |        | N.D.   |          |
| 44)  | 1,2-Dichloroethane        | 0.000  |      | 0        |        | N.D.   |          |
| 47)  | Methyl cyclohexane        | 0.000  |      | 0        |        | N.D.   |          |
| 48)  | Trichloroethene           | 6.389  | 95   | 47       |        | N.D.   |          |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        |        | N.D.   |          |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        |        | N.D.   |          |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        |        | N.D.   |          |
| 61)  | Toluene                   | 7.978  | 92   | 489      | 0.148  | ug/L   | 89       |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        |        | N.D.   |          |
| 63)  | Tetrachloroethene         | 0.000  |      | 0        |        | N.D.   |          |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        |        | N.D.   |          |
| 68)  | 1,1,2-Trichloroethane     | 0.000  |      | 0        |        | N.D.   |          |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        |        | N.D.   |          |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        |        | N.D.   |          |
| 72)  | 2-Hexanone                | 0.000  |      | 0        |        | N.D.   |          |
| 73)  | Chlorobenzene             | 0.000  |      | 0        |        | N.D.   |          |
| 74)  | Ethylbenzene              | 0.000  |      | 0        |        | N.D.   |          |
| 76)  | p/m Xylene                | 0.000  |      | 0        |        | N.D.   |          |
| 77)  | o Xylene                  | 0.000  |      | 0        |        | N.D.   |          |
| 78)  | Styrene                   | 0.000  |      | 0        |        | N.D.   |          |
| 80)  | Bromoform                 | 0.000  |      | 0        |        | N.D.   |          |
| 82)  | Isopropylbenzene          | 0.000  |      | 0        |        | N.D.   |          |
| 85)  | n-Propylbenzene           | 11.380 | 91   | 185      |        | N.D.   |          |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        |        | N.D. d |          |
| 90)  | 1,3,5-Trimethylbenzene    | 11.585 | 105  | 1275     | 0.241  | ug/L # | 73       |
| 94)  | tert-Butylbenzene         | 0.000  |      | 0        |        | N.D. d |          |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 7955     | 1.501  | ug/L   | 95       |
| 98)  | sec-Butylbenzene          | 12.109 | 105  | 1388     | 0.210  | ug/L # | 81       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 2117     | 0.381  | ug/L # | 87       |
| 100) | 1,3-Dichlorobenzene       | 0.000  |      | 0        |        | N.D.   |          |
| 101) | 1,4-Dichlorobenzene       | 0.000  |      | 0        |        | N.D.   |          |
| 103) | n-Butylbenzene            | 12.681 | 91   | 5034     | 0.935  | ug/L # | 76       |
| 104) | 1,2-Dichlorobenzene       | 0.000  |      | 0        |        | N.D.   |          |
| 106) | 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        |        | N.D. d |          |
| 109) | 1,2,4-Trichlorobenzene    | 0.000  |      | 0        |        | N.D. d |          |
| 110) | Naphthalene               | 14.526 | 128  | 60610    | 11.015 | ug/L   | 100      |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 03:37:19 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

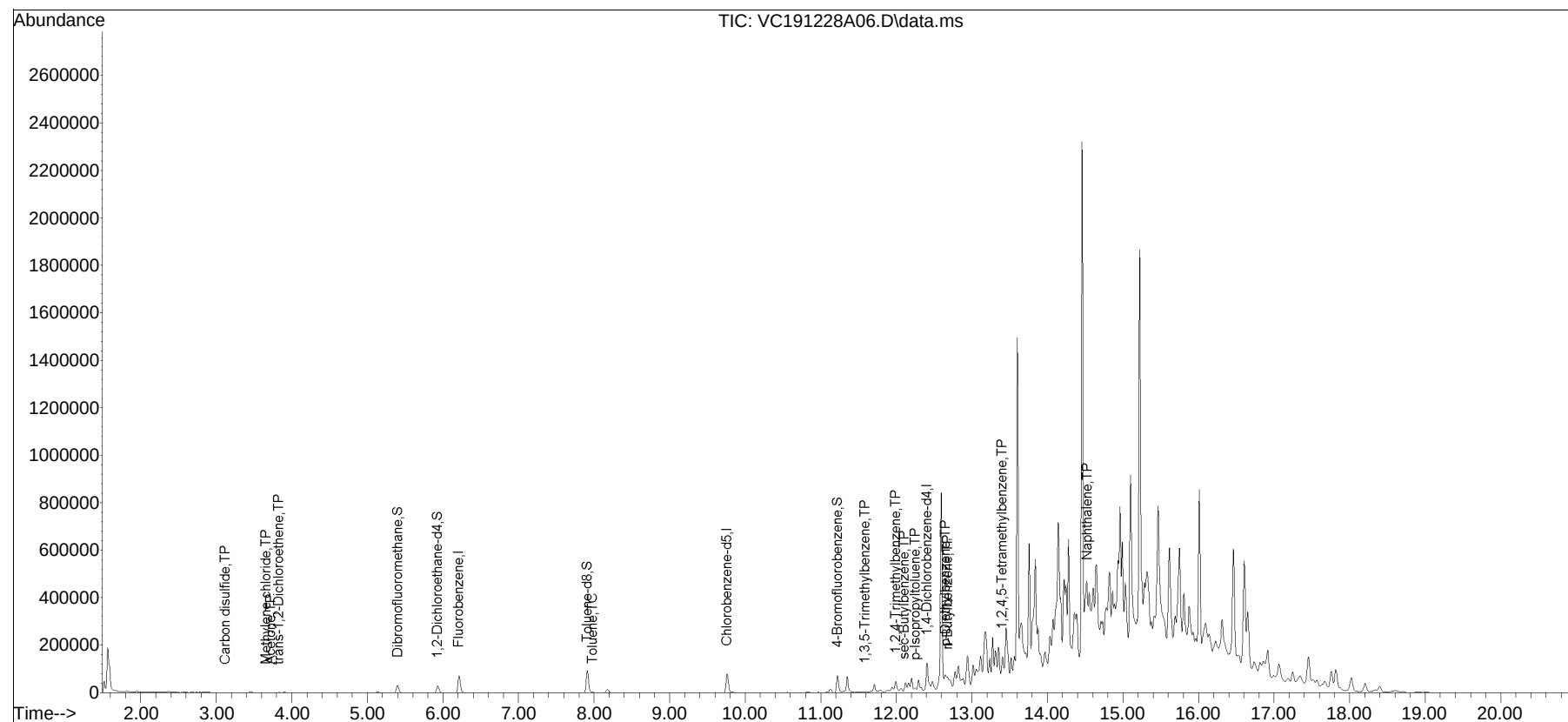
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

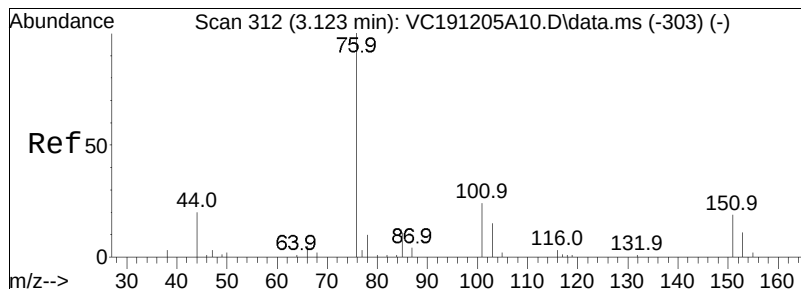
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 03:37:19 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

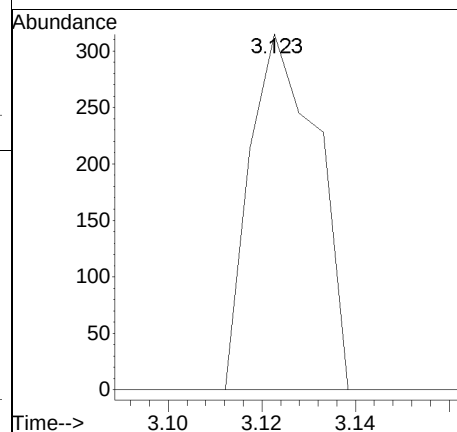
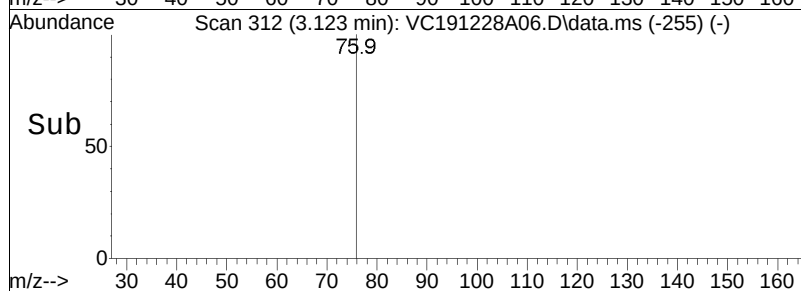
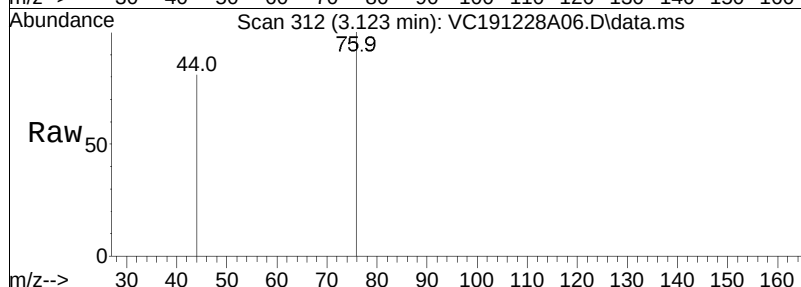
Sub List : 8260-CurveSoil - Megamix plus Diox28A\VC191228A01.D•

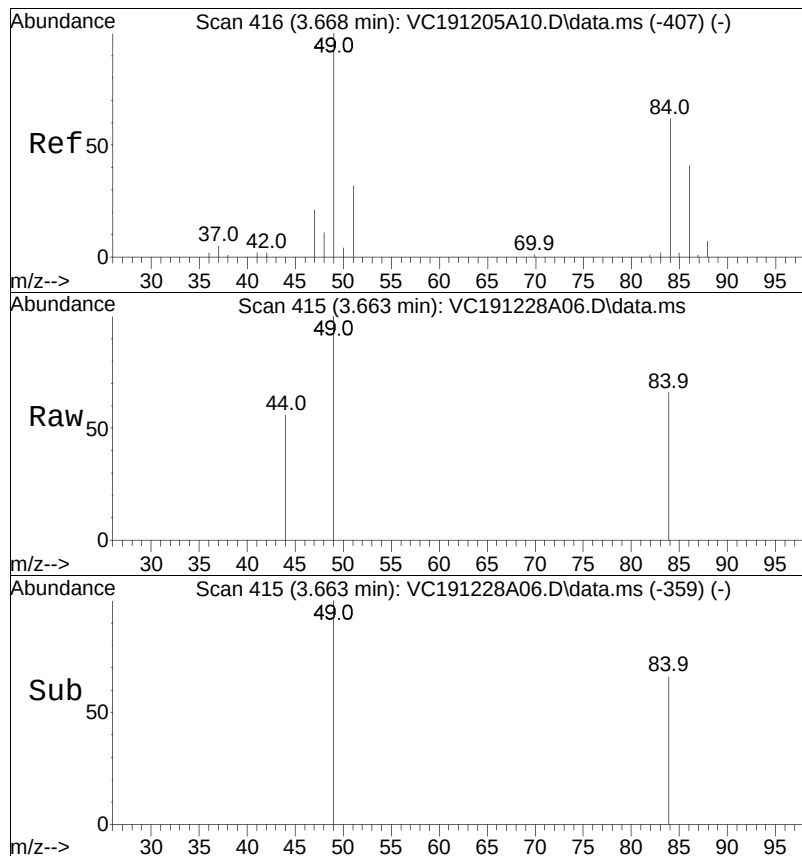




#11  
 Carbon disulfide  
 Concen: 0.10 ug/L  
 RT: 3.123 min Scan# 312  
 Delta R.T. -0.000 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

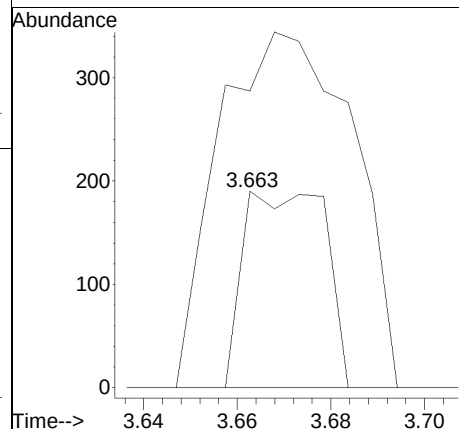
Tgt Ion: 76 Resp: 315  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 6.5 13.5#

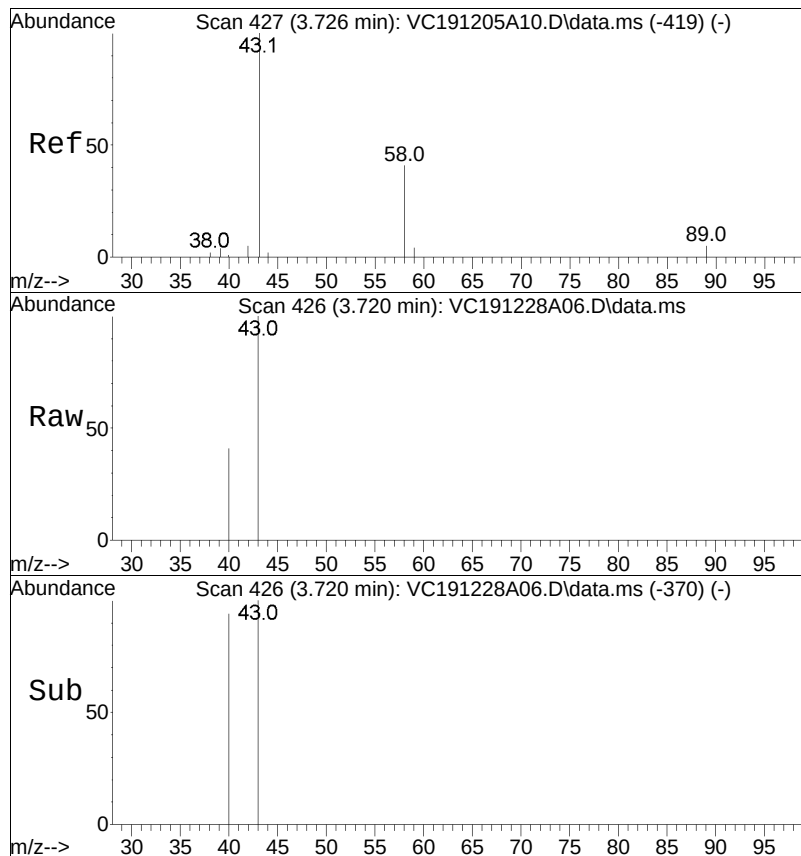




#15  
Methylene chloride  
Concen: 0.17 ug/L  
RT: 3.663 min Scan# 415  
Delta R.T. -0.005 min  
Lab File: VC191228A06.D  
Acq: 28 Dec 2019 9:43 am

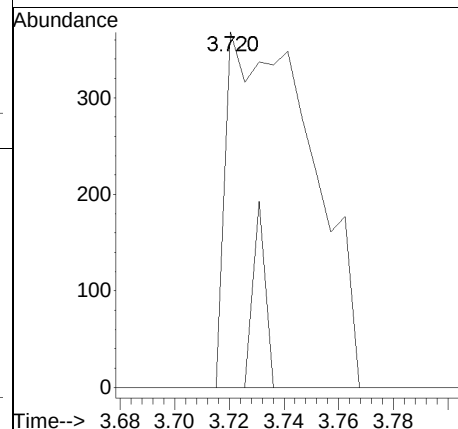
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 84    | Resp: | 231    |
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 0.0   | 41.9  | 86.9#  |
| 49        | 294.8 | 70.3  | 146.1# |

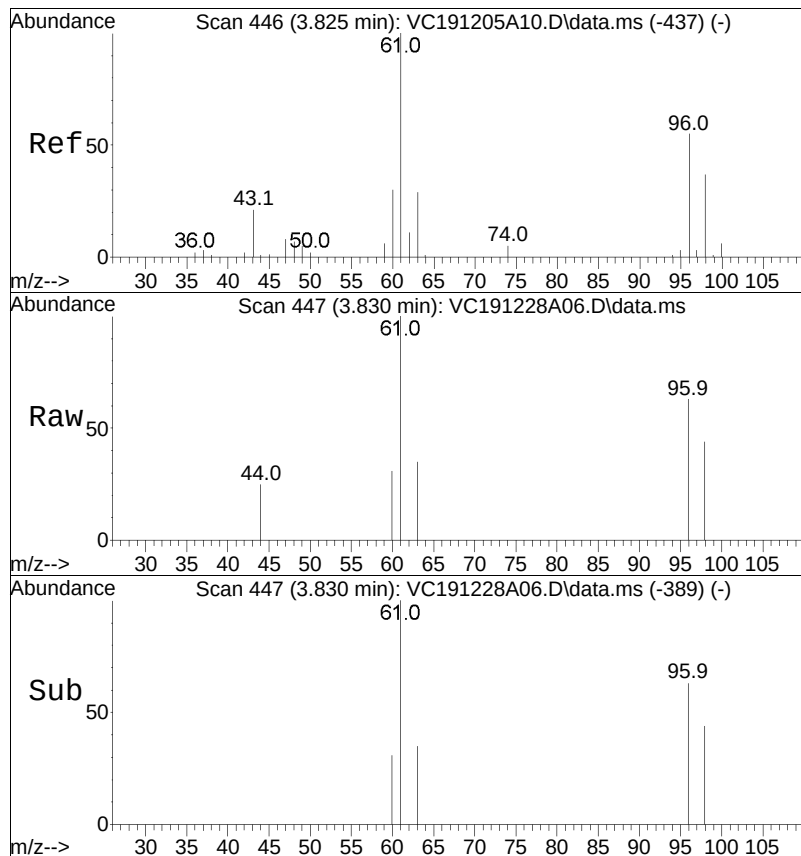




#17  
 Acetone  
 Concen: 1.57 ug/L  
 RT: 3.720 min Scan# 426  
 Delta R.T. -0.006 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

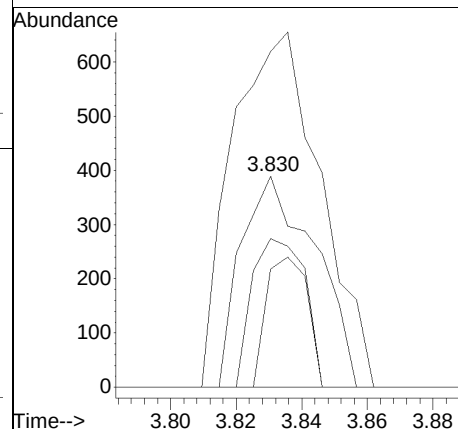
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 7.6   | 25.4  | 38.2# |



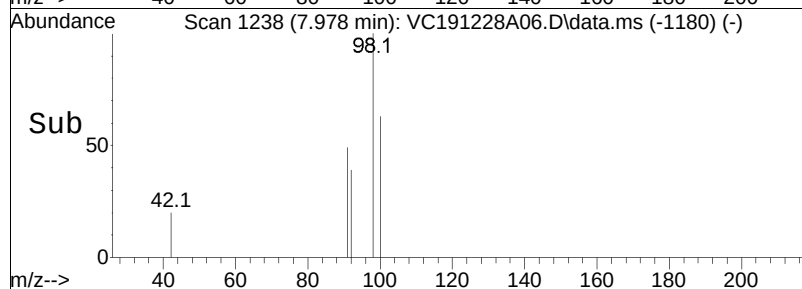
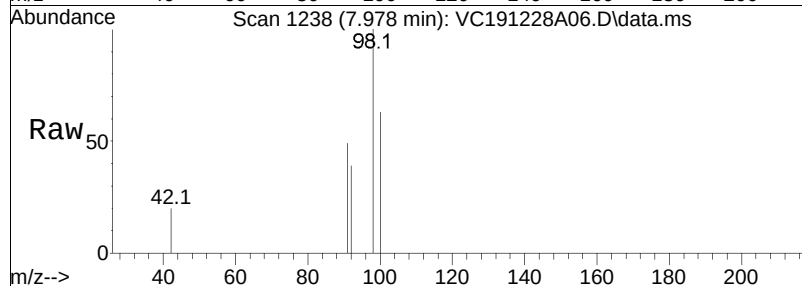
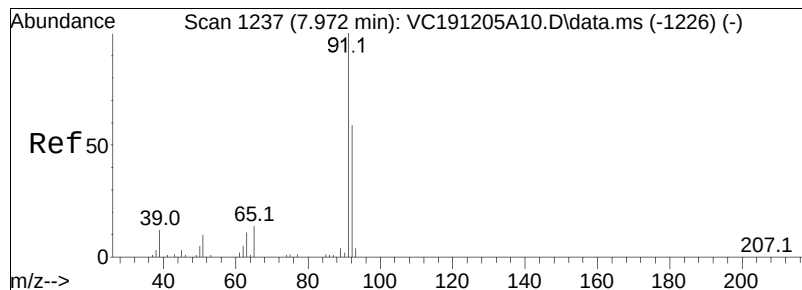


#18  
 trans-1,2-Dichloroethene  
 Concen: 0.52 ug/L  
 RT: 3.830 min Scan# 447  
 Delta R.T. 0.005 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 610    |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 200.5 | 81.6  | 169.4# |
| 98        | 50.0  | 41.5  | 86.1   |
| 63        | 34.3  | 26.1  | 54.1   |

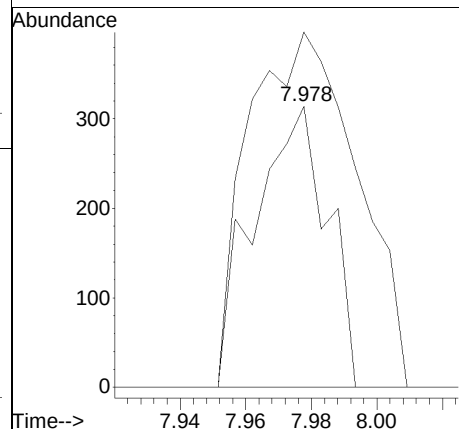


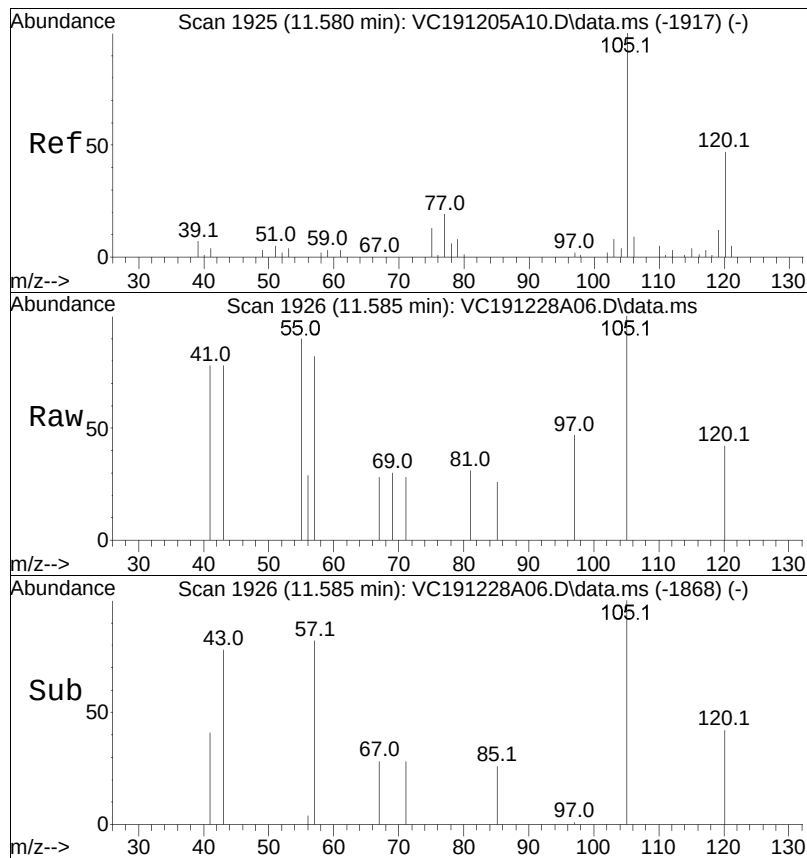




#61  
Toluene  
Concen: 0.15 ug/L  
RT: 7.978 min Scan# 1238  
Delta R.T. 0.006 min  
Lab File: VC191228A06.D  
Acq: 28 Dec 2019 9:43 am

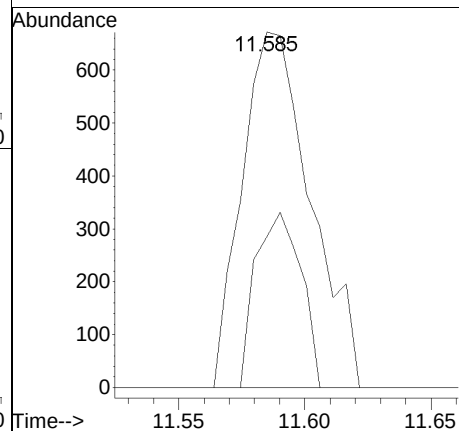
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 186.7 | 137.8 | 206.6 |

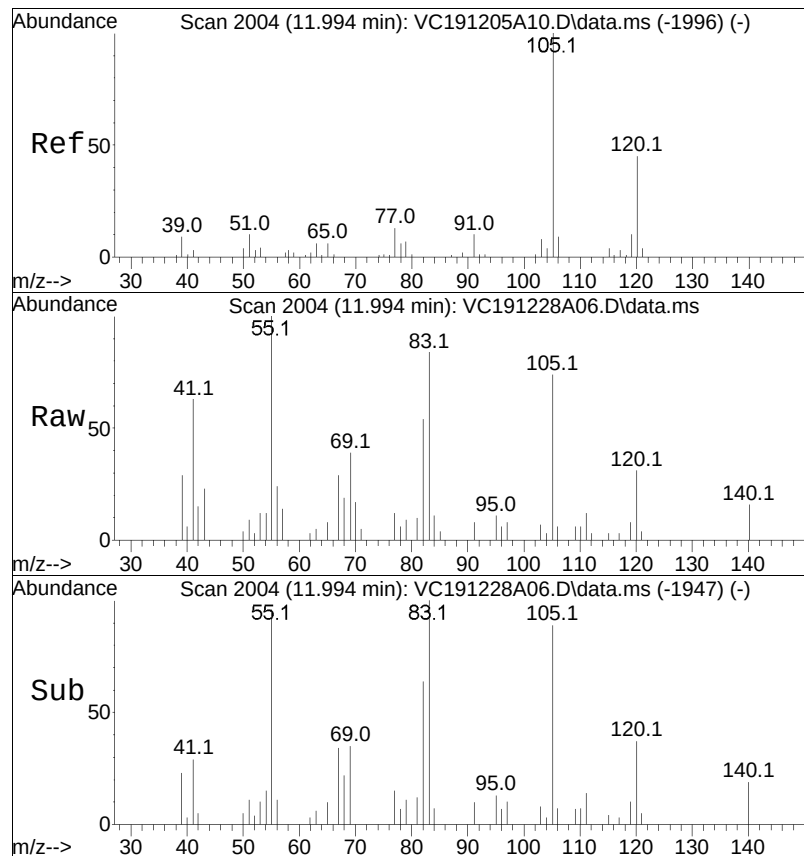




#90  
 1,3,5-Trimethylbenzene  
 Concen: 0.24 ug/L  
 RT: 11.585 min Scan# 1926  
 Delta R.T. 0.005 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

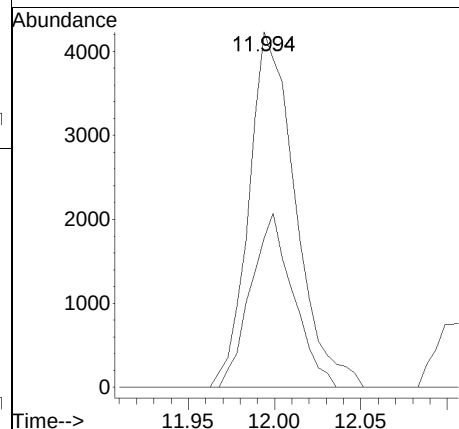
| Tgt Ion | 105  | 120  | Ratio | Lower | Upper |
|---------|------|------|-------|-------|-------|
| 105     | 100  |      |       |       |       |
| 120     | 32.5 | 41.0 | 61.4  |       |       |

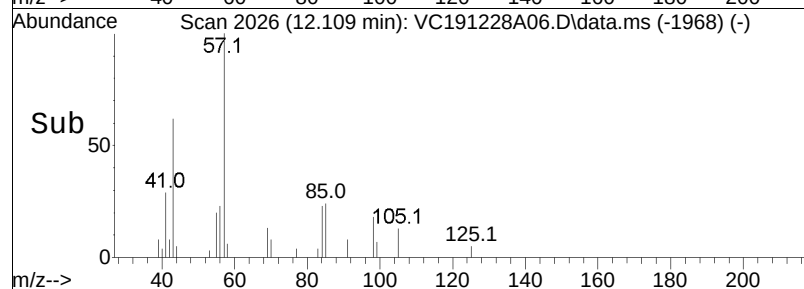
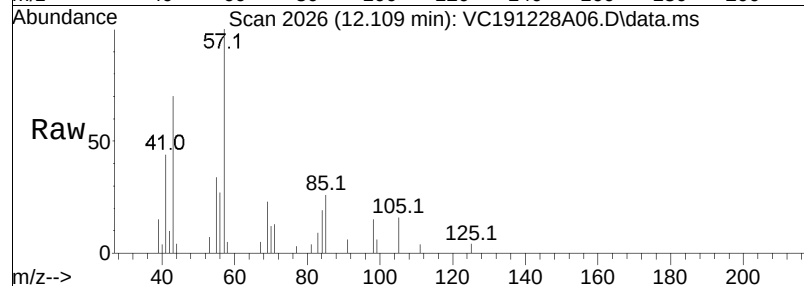
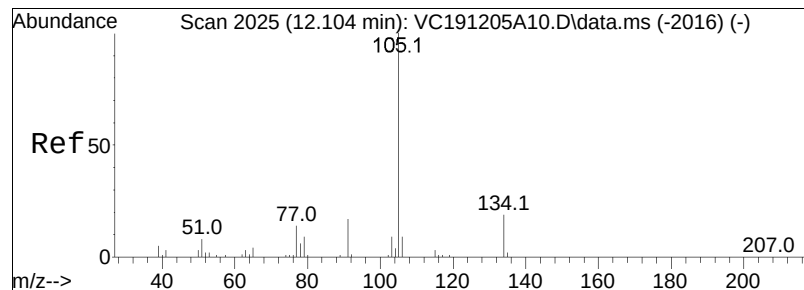




#97  
 1,2,4-Trimethylbenzene  
 Concen: 1.50 ug/L  
 RT: 11.994 min Scan# 2004  
 Delta R.T. -0.000 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

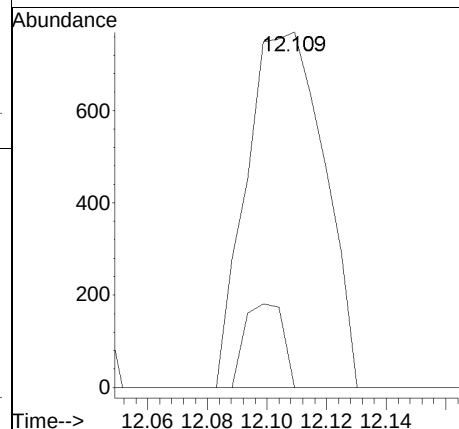
Tgt Ion:105 Resp: 7955  
 Ion Ratio Lower Upper  
 105 100  
 120 44.8 38.2 57.4

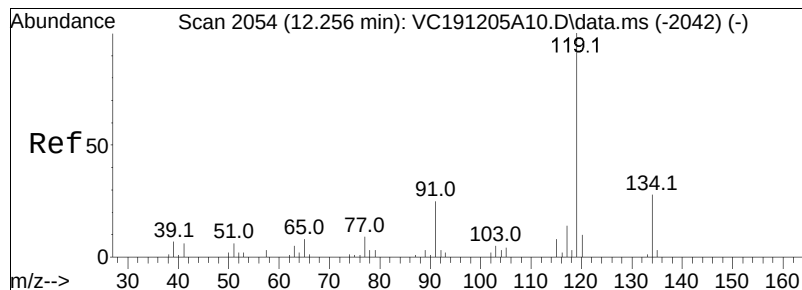




#98  
 sec-Butylbenzene  
 Concen: 0.21 ug/L  
 RT: 12.109 min Scan# 2026  
 Delta R.T. 0.005 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

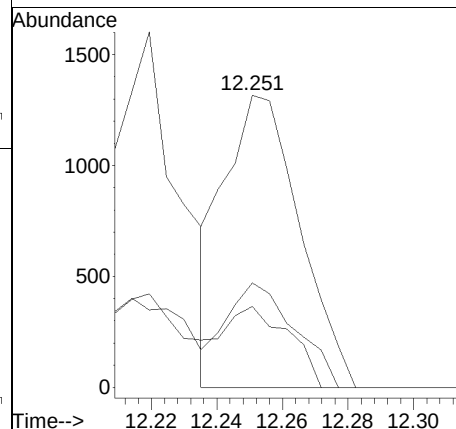
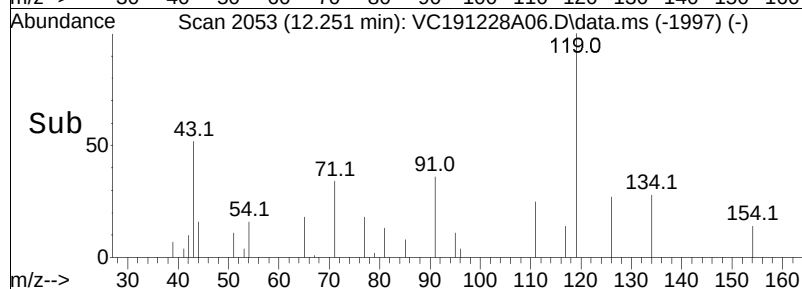
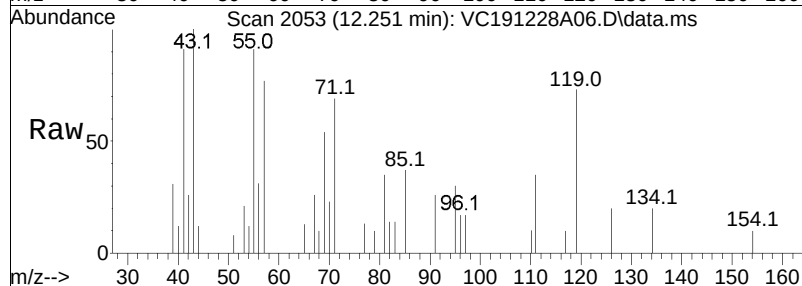
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 11.7  | 13.5  | 27.9# |

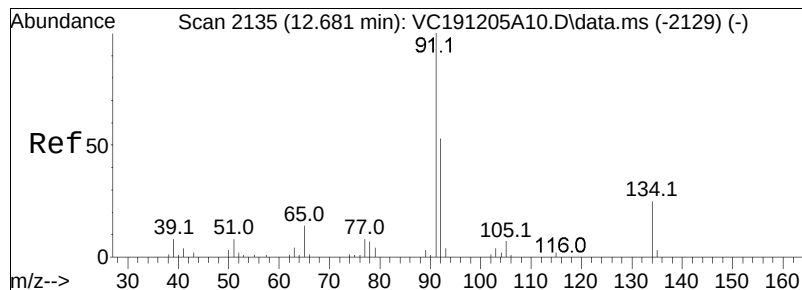




#99  
 p-Isopropyltoluene  
 Concen: 0.38 ug/L  
 RT: 12.251 min Scan# 2053  
 Delta R.T. -0.005 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

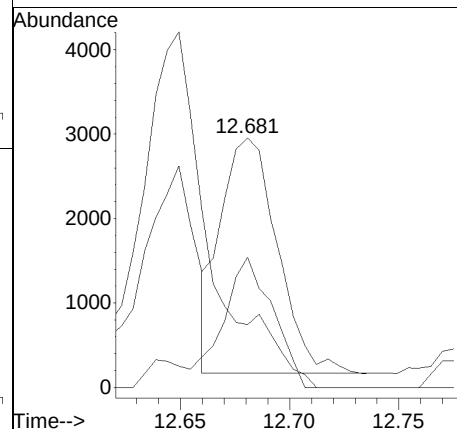
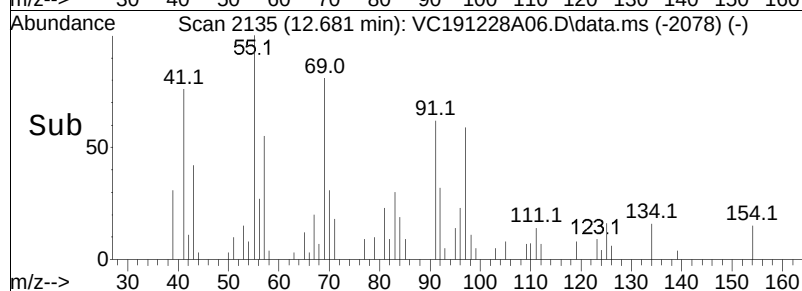
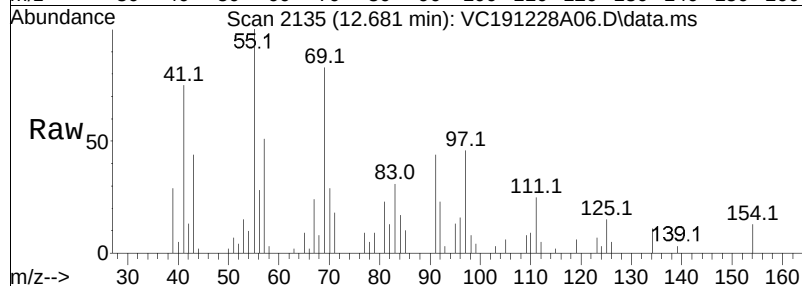
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 24.3  | 17.0  | 35.4  |
| 91      | 32.7  | 14.0  | 29.2  |

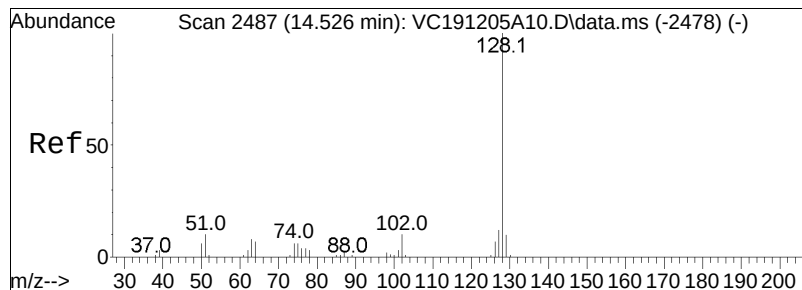




#103  
 n-Butylbenzene  
 Concen: 0.93 ug/L  
 RT: 12.681 min Scan# 2135  
 Delta R.T. -0.000 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

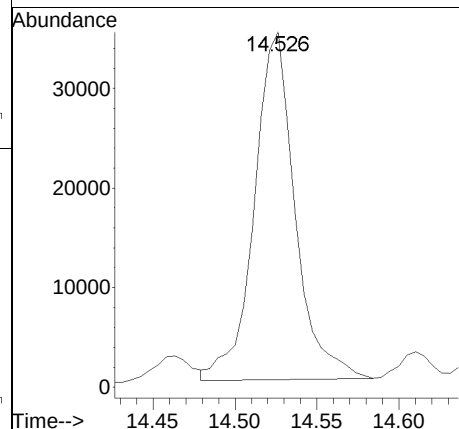
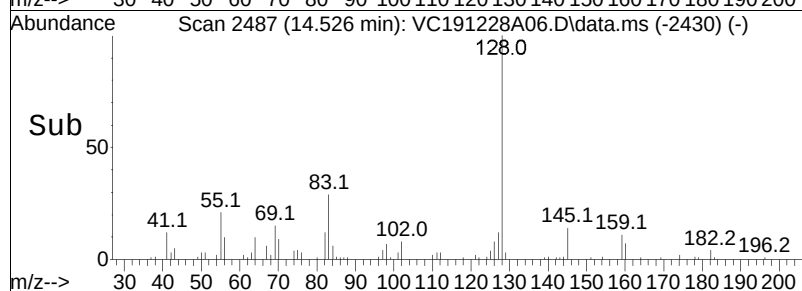
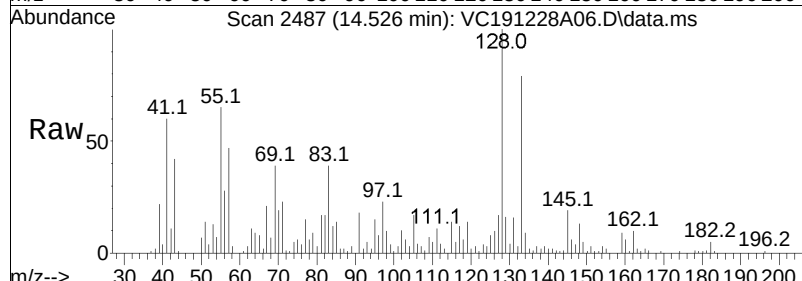
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 48.0  | 43.5  | 65.3  |
| 134     | 0.0   | 22.6  | 34.0# |





#110  
 Naphthalene  
 Concen: 11.02 ug/L  
 RT: 14.526 min Scan# 2487  
 Delta R.T. 0.000 min  
 Lab File: VC191228A06.D  
 Acq: 28 Dec 2019 9:43 am

Tgt Ion:128 Resp: 60610



## LSC Area Percent Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: VC191228A06.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.565       | 9             | 15          | 32           | rVB      | 181090         | 404573        | 13.44%          | 1.385%        |
| 2         | 6.211       | 892           | 901         | 923          | rBV      | 72825          | 163062        | 5.42%           | 0.558%        |
| 3         | 7.910       | 1216          | 1225        | 1247         | rBV      | 94364          | 211874        | 7.04%           | 0.725%        |
| 4         | 9.760       | 1566          | 1578        | 1605         | rBV      | 79103          | 181818        | 6.04%           | 0.622%        |
| 5         | 11.223      | 1849          | 1857        | 1867         | rBV      | 71566          | 143278        | 4.76%           | 0.490%        |
| 6         | 11.349      | 1869          | 1881        | 1894         | rVB      | 65791          | 131642        | 4.37%           | 0.451%        |
| 7         | 12.408      | 2075          | 2083        | 2092         | rBV2     | 113834         | 236855        | 7.87%           | 0.811%        |
| 8         | 12.597      | 2106          | 2119        | 2125         | rBV      | 827488         | 1352605       | 44.92%          | 4.630%        |
| 9         | 12.649      | 2126          | 2129        | 2147         | rVB9     | 49173          | 192436        | 6.39%           | 0.659%        |
| 10        | 12.775      | 2147          | 2153        | 2157         | rBV4     | 62457          | 115913        | 3.85%           | 0.397%        |
| 11        | 12.822      | 2157          | 2162        | 2168         | rVB2     | 63079          | 105500        | 3.50%           | 0.361%        |
| 12        | 12.943      | 2178          | 2185        | 2193         | rVB2     | 122332         | 253124        | 8.41%           | 0.866%        |
| 13        | 13.016      | 2193          | 2199        | 2203         | rBV2     | 82651          | 151656        | 5.04%           | 0.519%        |
| 14        | 13.116      | 2213          | 2218        | 2222         | rVB3     | 67659          | 96051         | 3.19%           | 0.329%        |
| 15        | 13.179      | 2223          | 2230        | 2237         | rVB6     | 173153         | 437902        | 14.54%          | 1.499%        |
| 16        | 13.273      | 2244          | 2248        | 2252         | rBV      | 147521         | 181734        | 6.04%           | 0.622%        |
| 17        | 13.310      | 2252          | 2255        | 2260         | rVB3     | 74231          | 98606         | 3.27%           | 0.338%        |
| 18        | 13.352      | 2260          | 2263        | 2269         | rVB      | 111239         | 147653        | 4.90%           | 0.505%        |
| 19        | 13.404      | 2269          | 2273        | 2277         | rBV      | 70088          | 100405        | 3.33%           | 0.344%        |
| 20        | 13.451      | 2277          | 2282        | 2291         | rVB2     | 192977         | 396392        | 13.16%          | 1.357%        |
| 21        | 13.562      | 2299          | 2303        | 2306         | rBV3     | 60645          | 91186         | 3.03%           | 0.312%        |
| 22        | 13.603      | 2306          | 2311        | 2316         | rBV      | 1362615        | 1782489       | 59.20%          | 6.101%        |
| 23        | 13.756      | 2335          | 2340        | 2345         | rBV2     | 482859         | 702151        | 23.32%          | 2.403%        |
| 24        | 13.839      | 2345          | 2356        | 2361         | rBV3     | 378062         | 835330        | 27.74%          | 2.859%        |
| 25        | 13.971      | 2376          | 2381        | 2388         | rBV2     | 52003          | 92349         | 3.07%           | 0.316%        |
| 26        | 14.033      | 2388          | 2393        | 2396         | rBV4     | 115819         | 191466        | 6.36%           | 0.655%        |
| 27        | 14.075      | 2397          | 2401        | 2404         | rBV2     | 110806         | 164142        | 5.45%           | 0.562%        |
| 28        | 14.144      | 2405          | 2414        | 2424         | rVB10    | 507224         | 1303024       | 43.27%          | 4.460%        |



## LSC Area Percent Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 29 | 14.222 | 2424 | 2429 | 2431 | rBV2 | 266575  | 400473  | 13.30%  | 1.371%  |
| 30 | 14.280 | 2436 | 2440 | 2449 | rVB  | 460105  | 616815  | 20.48%  | 2.111%  |
| 31 | 14.358 | 2449 | 2455 | 2458 | rBV7 | 153190  | 294408  | 9.78%   | 1.008%  |
| 32 | 14.458 | 2467 | 2474 | 2480 | rBV  | 2171143 | 3011110 | 100.00% | 10.306% |
| 33 | 14.647 | 2506 | 2510 | 2519 | rVB4 | 274688  | 522563  | 17.35%  | 1.789%  |
| 34 | 14.783 | 2530 | 2536 | 2538 | rBV5 | 109478  | 228049  | 7.57%   | 0.781%  |
| 35 | 14.820 | 2539 | 2543 | 2547 | rVB3 | 201861  | 328137  | 10.90%  | 1.123%  |
| 36 | 14.862 | 2548 | 2551 | 2554 | rVV3 | 96650   | 119106  | 3.96%   | 0.408%  |
| 37 | 14.961 | 2561 | 2570 | 2573 | rBV4 | 402561  | 755500  | 25.09%  | 2.586%  |
| 38 | 15.030 | 2580 | 2583 | 2591 | rVB3 | 230864  | 399988  | 13.28%  | 1.369%  |
| 39 | 15.098 | 2591 | 2596 | 2610 | rBV2 | 684707  | 1370528 | 45.52%  | 4.691%  |
| 40 | 15.218 | 2614 | 2619 | 2628 | rBV  | 1563391 | 2313014 | 76.82%  | 7.917%  |
| 41 | 15.465 | 2660 | 2666 | 2687 | rVB  | 557689  | 1605520 | 53.32%  | 5.495%  |
| 42 | 15.617 | 2688 | 2695 | 2703 | rVB2 | 380317  | 786489  | 26.12%  | 2.692%  |
| 43 | 15.748 | 2713 | 2720 | 2726 | rVB2 | 351616  | 722255  | 23.99%  | 2.472%  |
| 44 | 15.806 | 2727 | 2731 | 2739 | rVB4 | 173045  | 275978  | 9.17%   | 0.945%  |
| 45 | 15.879 | 2740 | 2745 | 2752 | rVB  | 120972  | 212953  | 7.07%   | 0.729%  |
| 46 | 16.010 | 2764 | 2770 | 2776 | rVB  | 649519  | 969614  | 32.20%  | 3.319%  |
| 47 | 16.314 | 2823 | 2828 | 2844 | rVB  | 147559  | 384580  | 12.77%  | 1.316%  |
| 48 | 16.461 | 2849 | 2856 | 2866 | rVB  | 451838  | 858989  | 28.53%  | 2.940%  |
| 49 | 16.602 | 2876 | 2883 | 2889 | rBV  | 430025  | 922149  | 30.62%  | 3.156%  |
| 50 | 16.650 | 2889 | 2892 | 2903 | rVB  | 239596  | 460828  | 15.30%  | 1.577%  |
| 51 | 16.917 | 2938 | 2943 | 2953 | rVB4 | 116513  | 250125  | 8.31%   | 0.856%  |
| 52 | 17.064 | 2966 | 2971 | 2988 | rVB4 | 74710   | 205243  | 6.82%   | 0.703%  |
| 53 | 17.452 | 3037 | 3045 | 3054 | rBV  | 107398  | 260447  | 8.65%   | 0.891%  |
| 54 | 17.756 | 3096 | 3103 | 3109 | rBV2 | 66390   | 149682  | 4.97%   | 0.512%  |
| 55 | 17.814 | 3109 | 3114 | 3139 | rVB  | 88091   | 259185  | 8.61%   | 0.887%  |
| 56 | 18.023 | 3143 | 3154 | 3175 | rVB2 | 59443   | 174655  | 5.80%   | 0.598%  |
| 57 | 18.202 | 3176 | 3188 | 3204 | rBV2 | 35808   | 92284   | 3.06%   | 0.316%  |

Sum of corrected areas: 29215883

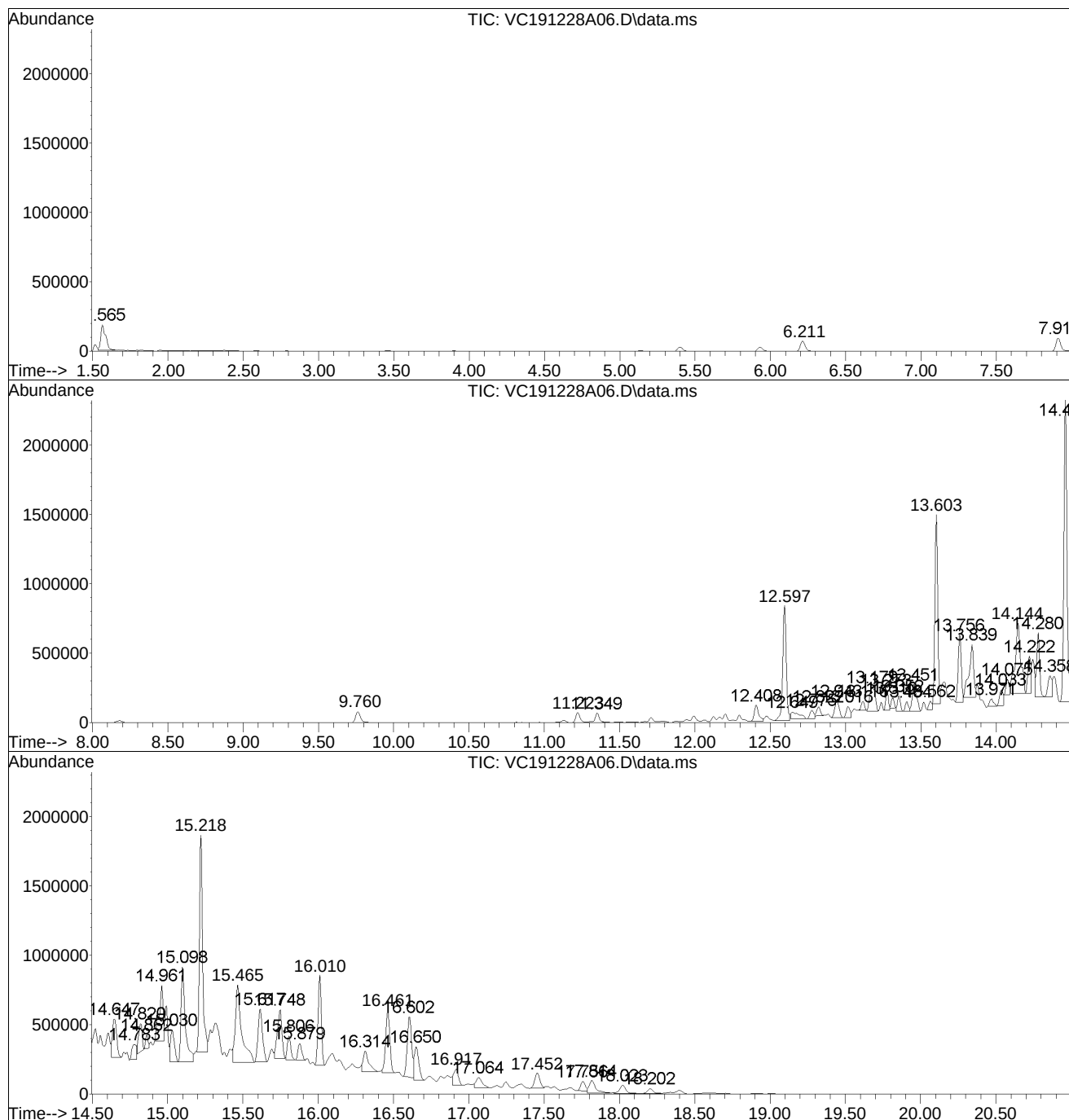


# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : 11961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

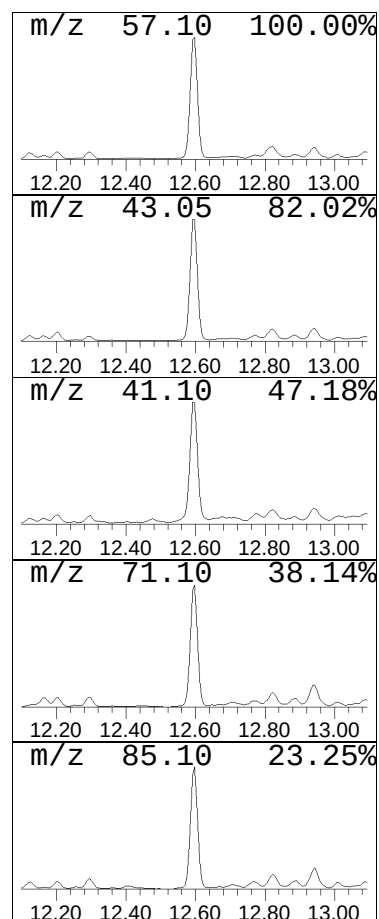
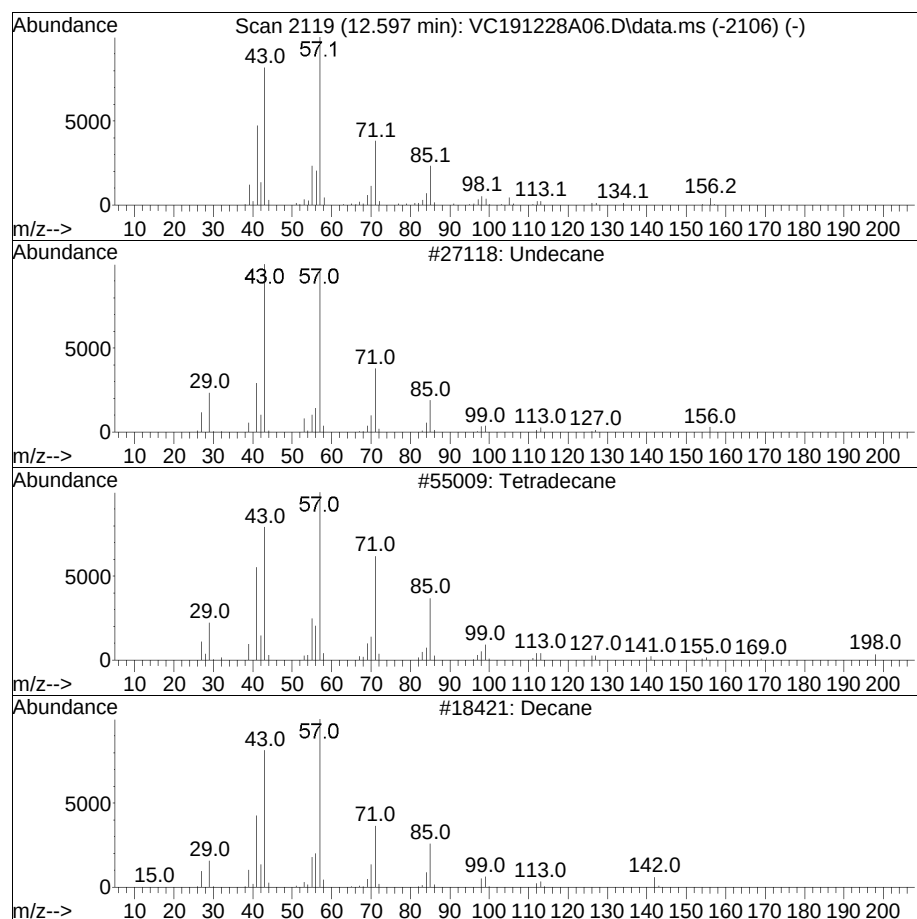
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 1 Undecane Concentration Rank 6

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 12.597 | 114.21 ug/L | 1352610 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane                  |              | 156 | C11H24  | 001120-21-4 | 87   |
| 2       | Tetradecane               |              | 198 | C14H30  | 000629-59-4 | 78   |
| 3       | Decane                    |              | 142 | C10H22  | 000124-18-5 | 78   |
| 4       | Decane, 6-ethyl-2-methyl- |              | 184 | C13H28  | 062108-21-8 | 64   |
| 5       | Tridecane                 |              | 184 | C13H28  | 000629-50-5 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

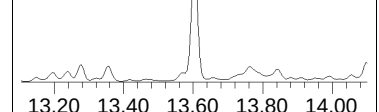
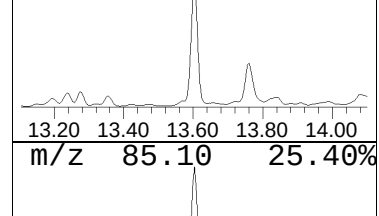
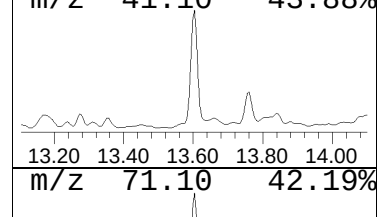
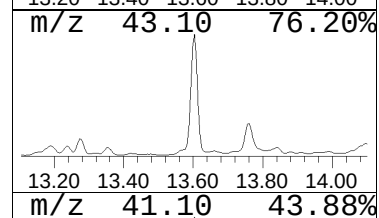
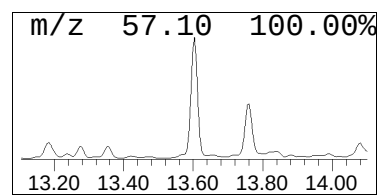
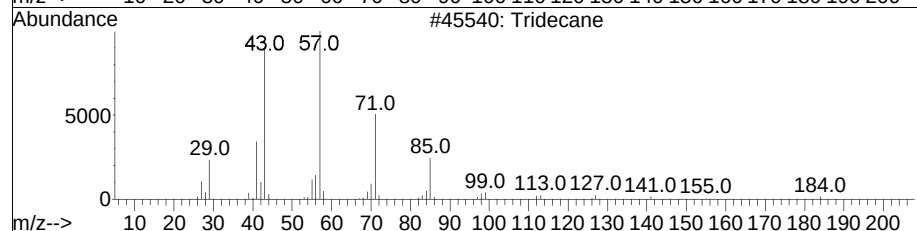
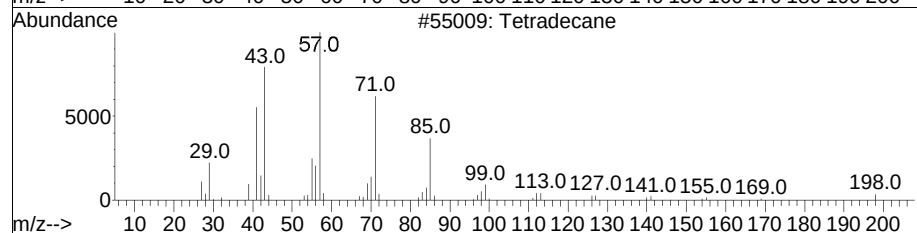
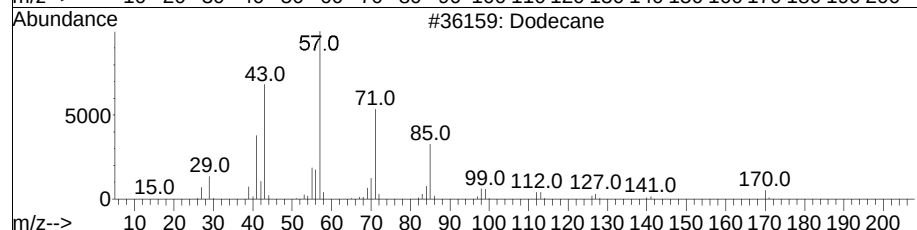
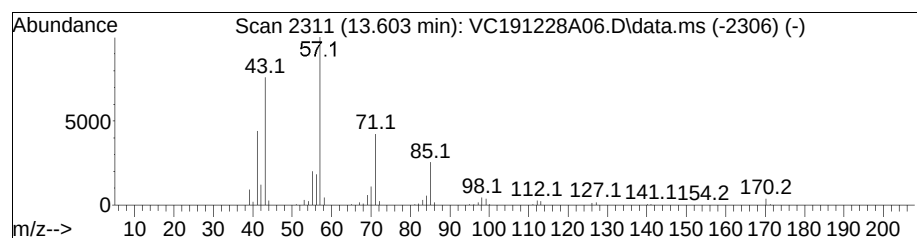
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 2 Unknown Alkane Concentration Rank 3

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 13.604 | 150.51 ug/L | 1782490 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Dodecane    |              | 170 | C12H26  | 000112-40-3 | 91   |
| 2       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 86   |
| 3       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 86   |
| 4       | Decane      |              | 142 | C10H22  | 000124-18-5 | 83   |
| 5       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 80   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

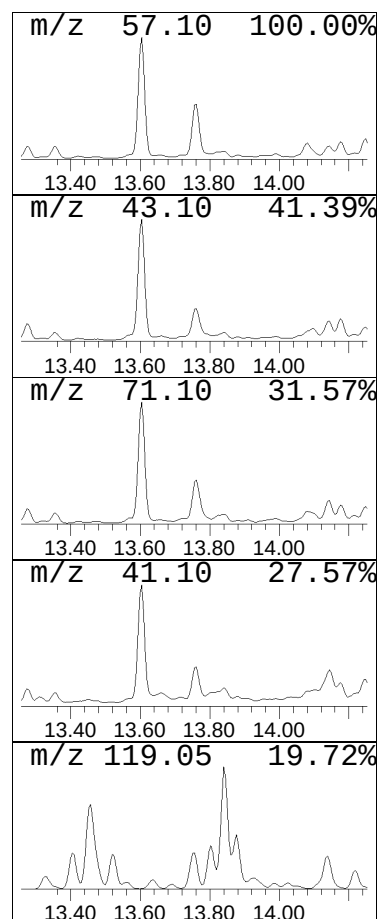
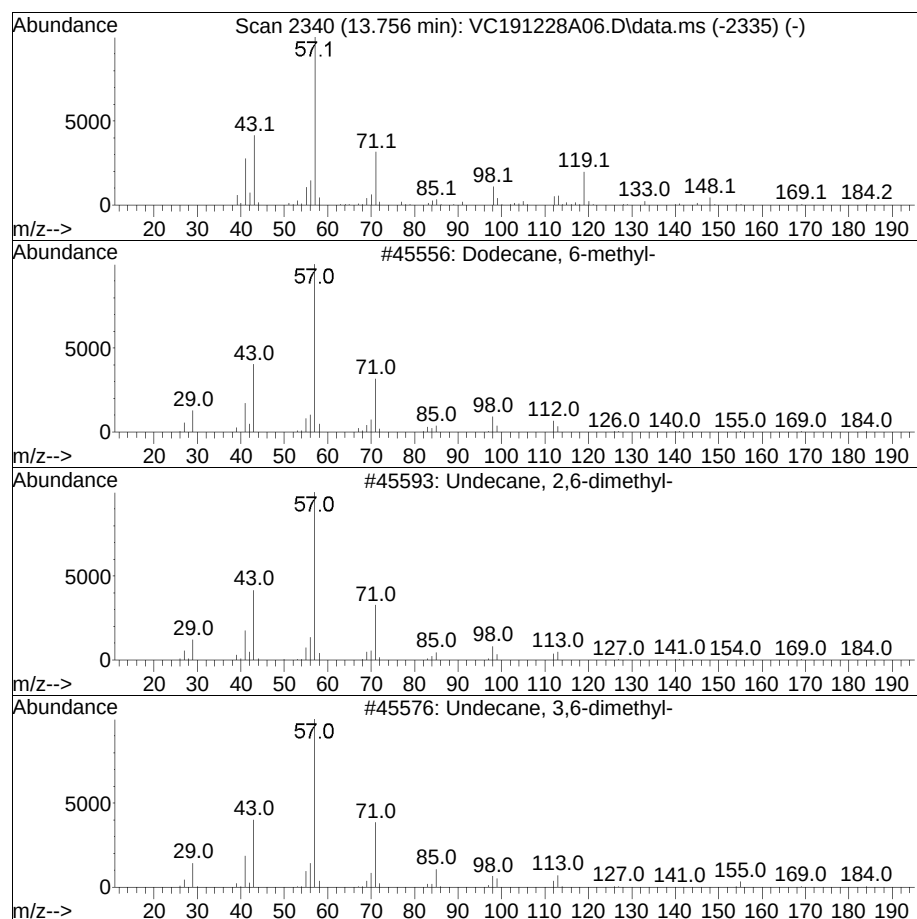
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 3 Unknown Alkane Concentration Rank 15

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.756 | 59.29 ug/L | 702151 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5                        | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|--------------------------|--------------|--------|-------------|------|------|
| 1       | Dodecane, 6-methyl-      | 184          | C13H28 | 006044-71-9 | 96   |      |
| 2       | Undecane, 2,6-dimethyl-  | 184          | C13H28 | 017301-23-4 | 89   |      |
| 3       | Undecane, 3,6-dimethyl-  | 184          | C13H28 | 017301-28-9 | 70   |      |
| 4       | Decane, 2,6,8-trimethyl- | 184          | C13H28 | 062108-26-3 | 49   |      |
| 5       | Tridecane, 6-methyl-     | 198          | C14H30 | 013287-21-3 | 47   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

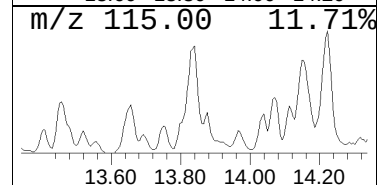
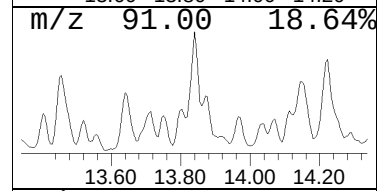
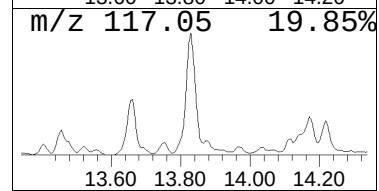
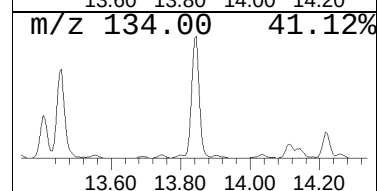
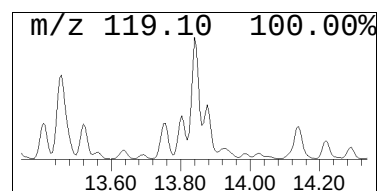
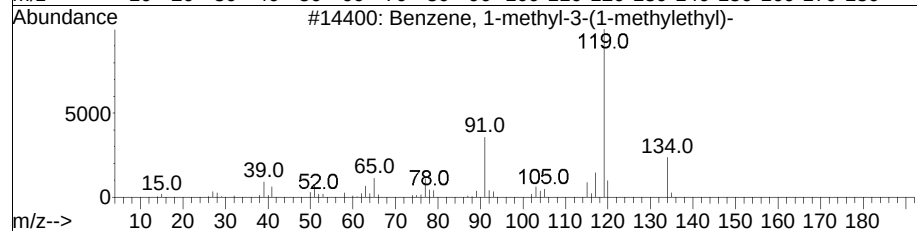
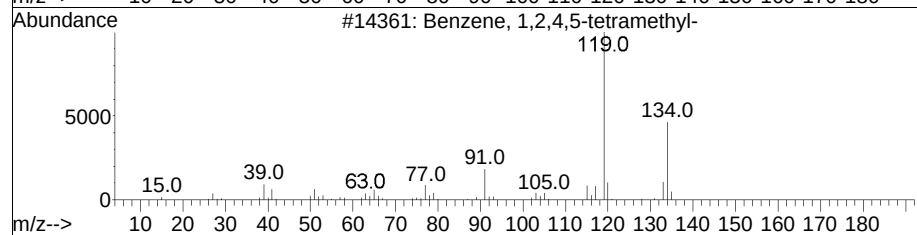
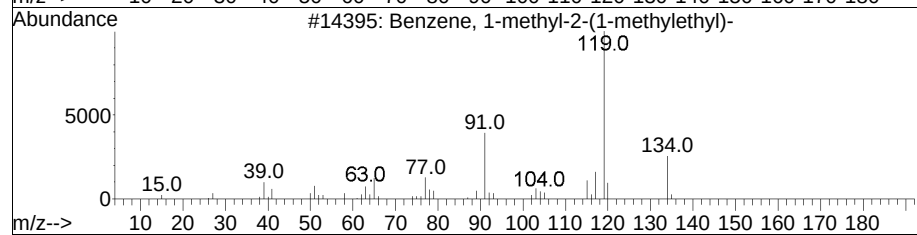
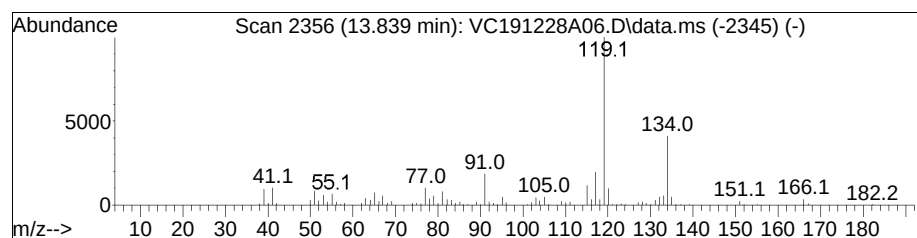
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 4 Unknown Benzene Concentration Rank 11

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.839 | 70.54 ug/L | 835330 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | Benzene, 1-methyl-2-(1-methyleth... | 134          | C10H14 | 000527-84-4 | 90   |      |
| 2       | Benzene, 1,2,4,5-tetramethyl-       | 134          | C10H14 | 000095-93-2 | 90   |      |
| 3       | Benzene, 1-methyl-3-(1-methyleth... | 134          | C10H14 | 000535-77-3 | 87   |      |
| 4       | Benzene, 2-ethyl-1,4-dimethyl-      | 134          | C10H14 | 001758-88-9 | 87   |      |
| 5       | Benzene, 1-methyl-4-(1-methyleth... | 134          | C10H14 | 000099-87-6 | 87   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

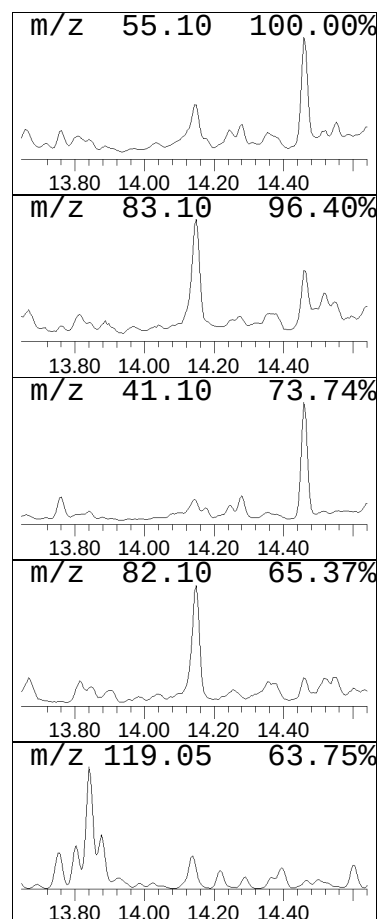
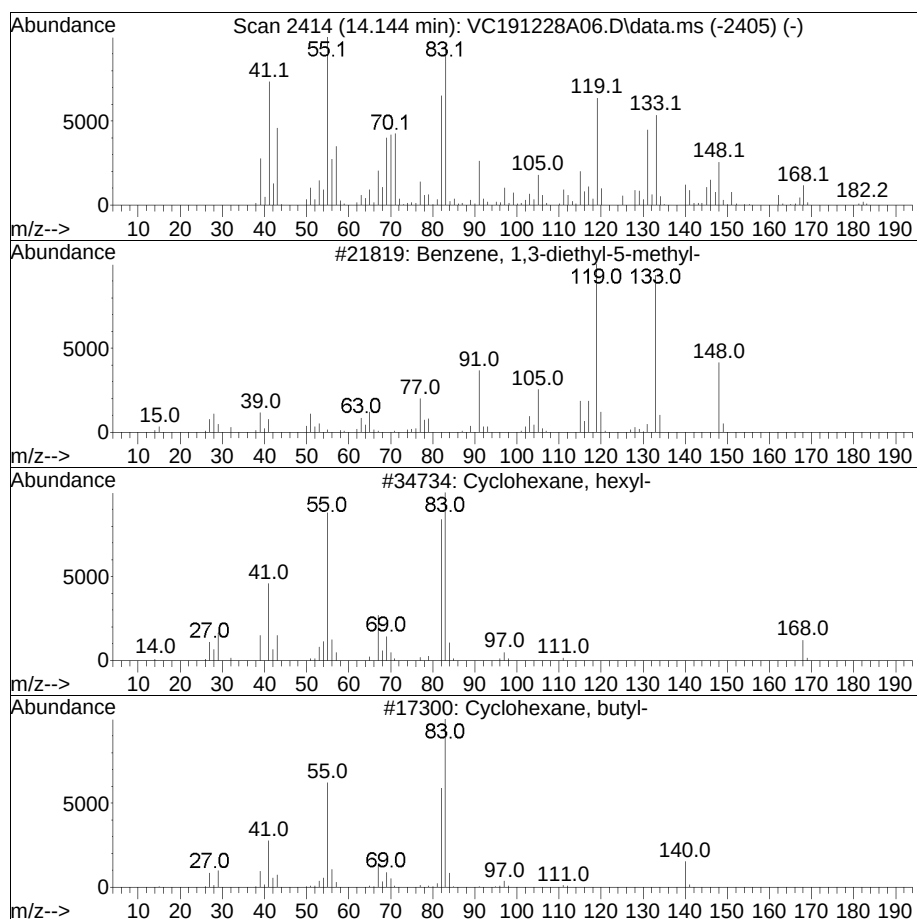
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 5 Unknown Concentration Rank 7

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.144 | 110.03 ug/L | 1303020 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16   | 002050-24-0 | 59   |
| 2       |   | Cyclohexane, hexyl-                 | 168 | C12H24   | 004292-75-5 | 30   |
| 3       |   | Cyclohexane, butyl-                 | 140 | C10H20   | 001678-93-9 | 22   |
| 4       |   | 2-Hydroxy-2-methyl-but-3-enyl 2-... | 184 | C10H16O3 | 080758-67-4 | 22   |
| 5       |   | Cyclohexane, (2-methylpropyl)-      | 140 | C10H20   | 001678-98-4 | 18   |





## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
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Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

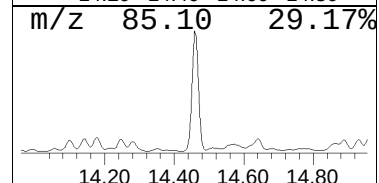
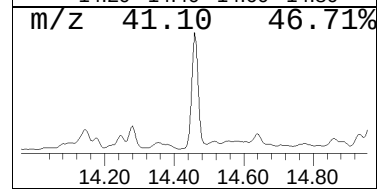
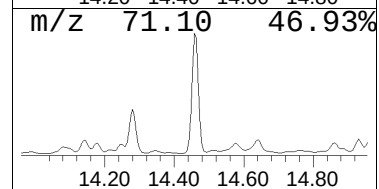
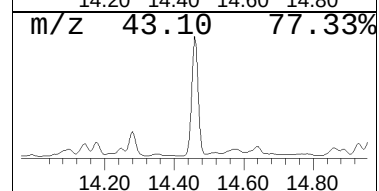
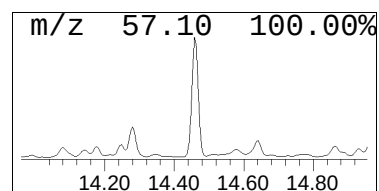
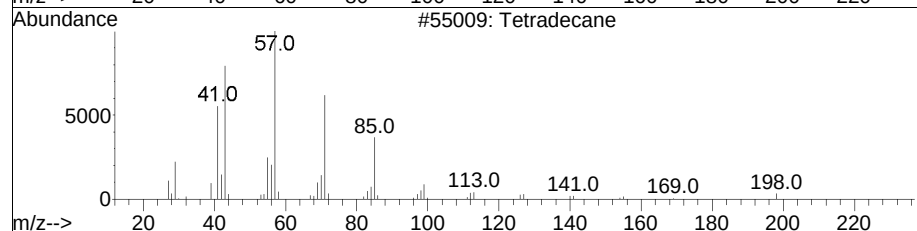
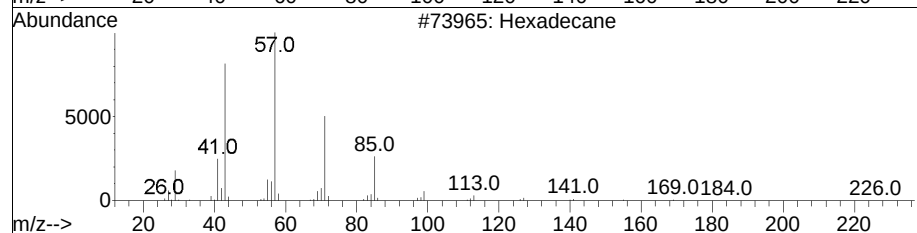
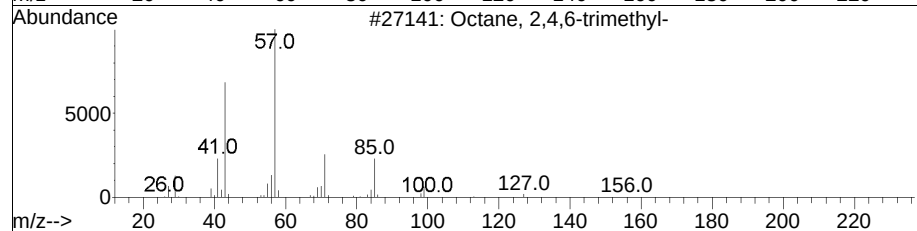
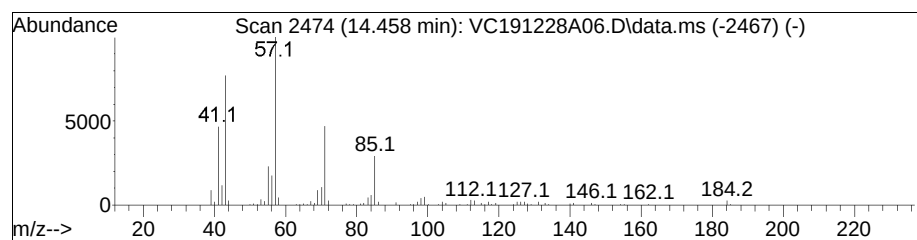
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 6 Unknown Alkane Concentration Rank 1

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 14.458 | 254.26 ug/L | 3011110 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Octane, 2,4,6-trimethyl- |              | 156 | C11H24  | 062016-37-9 | 90   |
| 2       | Hexadecane               |              | 226 | C16H34  | 000544-76-3 | 90   |
| 3       | Tetradecane              |              | 198 | C14H30  | 000629-59-4 | 90   |
| 4       | Tridecane                |              | 184 | C13H28  | 000629-50-5 | 87   |
| 5       | Dodecane                 |              | 170 | C12H26  | 000112-40-3 | 86   |



## Library Search Compound Report

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Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

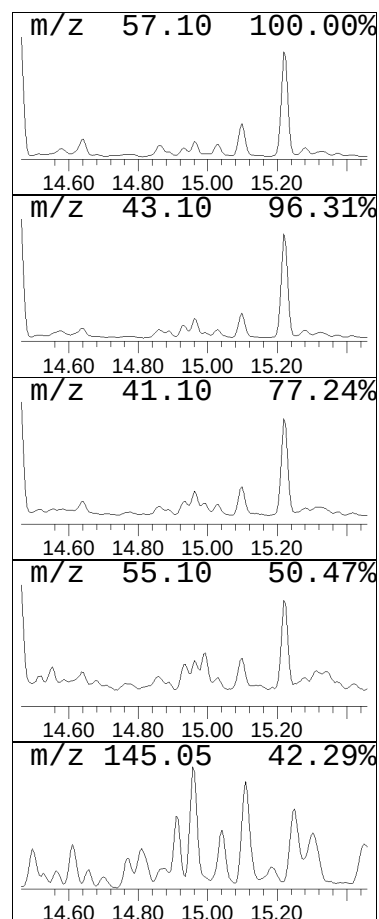
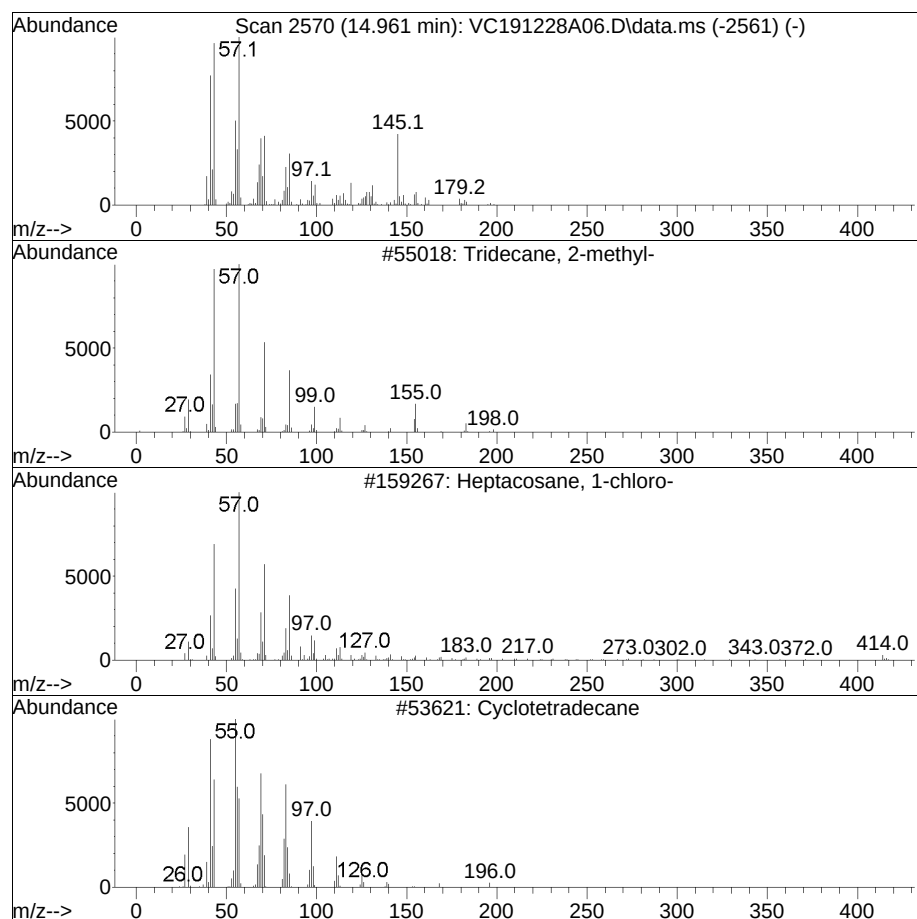
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Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 7 Unknown Concentration Rank 13

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 14.961 | 63.79 ug/L | 755500 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|---------|---|------------------------|-----|----------|-------------|------|
| 1       |   | Tridecane, 2-methyl-   | 198 | C14H30   | 001560-96-9 | 80   |
| 2       |   | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 43   |
| 3       |   | Cyclotetradecane       | 196 | C14H28   | 000295-17-0 | 25   |
| 4       |   | 1-Decene, 5-methyl-    | 154 | C11H22   | 054244-79-0 | 25   |
| 5       |   | 1-Tridecene            | 182 | C13H26   | 002437-56-1 | 25   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

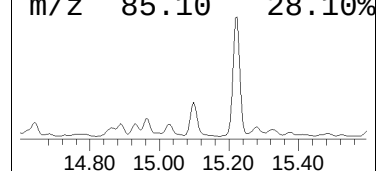
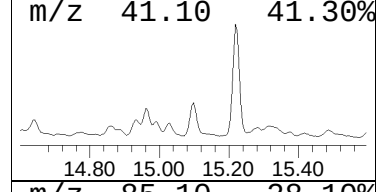
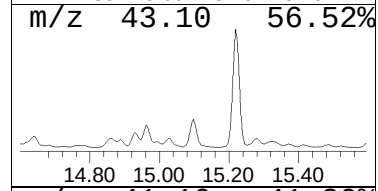
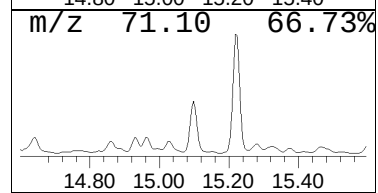
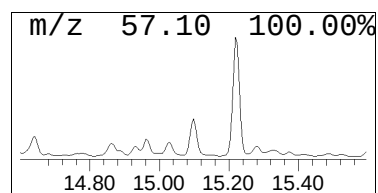
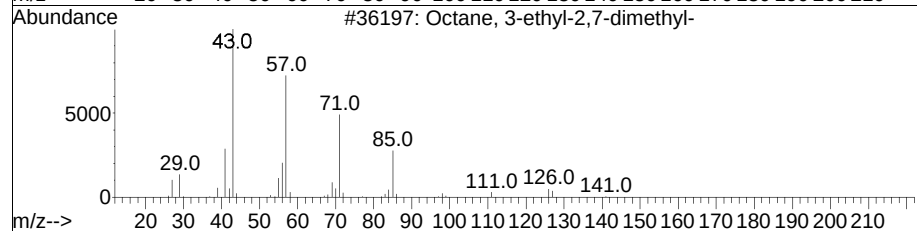
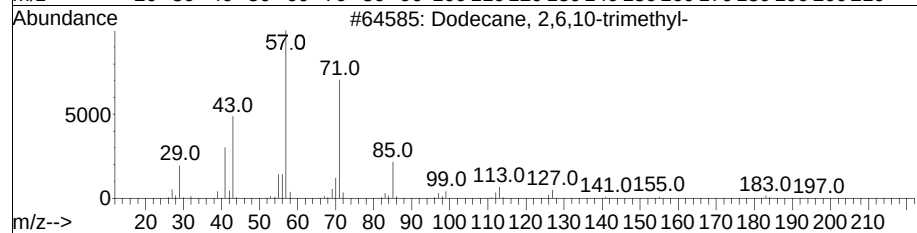
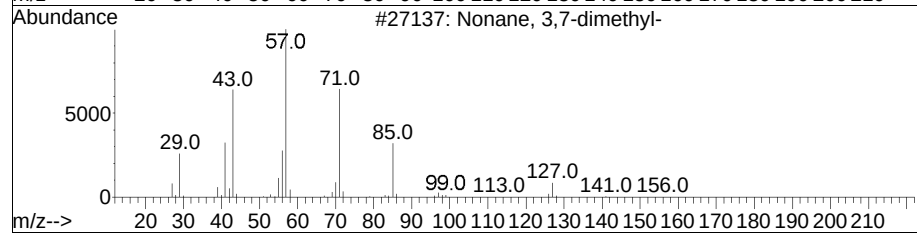
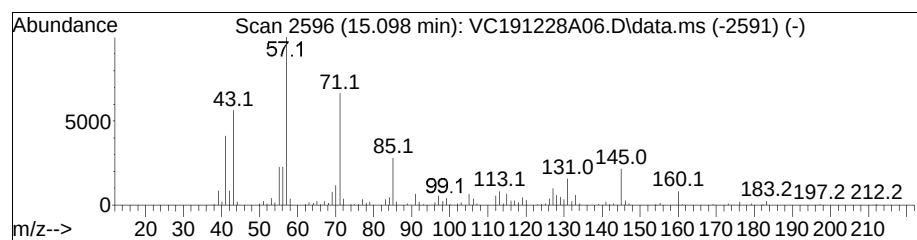
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 8 Unknown Alkane Concentration Rank 5

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 15.098 | 115.73 ug/L | 1370530 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5                             | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------|--------------|--------|-------------|------|------|
| 1       | Nonane, 3,7-dimethyl-         | 156          | C11H24 | 017302-32-8 | 70   |      |
| 2       | Dodecane, 2,6,10-trimethyl-   | 212          | C15H32 | 003891-98-3 | 52   |      |
| 3       | Octane, 3-ethyl-2,7-dimethyl- | 170          | C12H26 | 062183-55-5 | 52   |      |
| 4       | Dodecane, 2,6,11-trimethyl-   | 212          | C15H32 | 031295-56-4 | 47   |      |
| 5       | Decane, 5-propyl-             | 184          | C13H28 | 017312-62-8 | 46   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

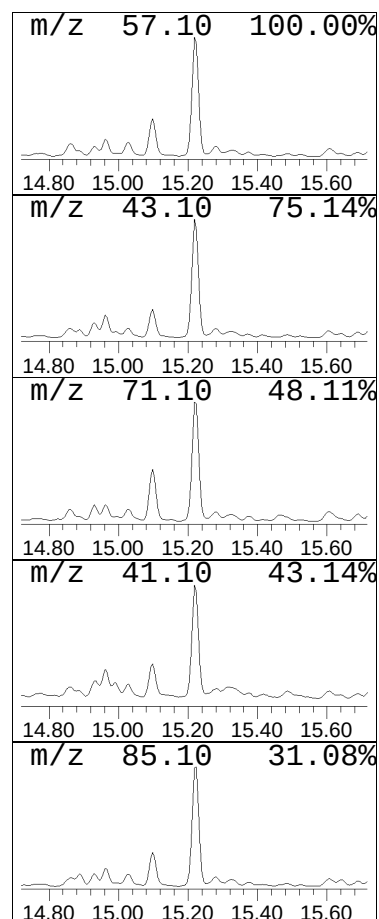
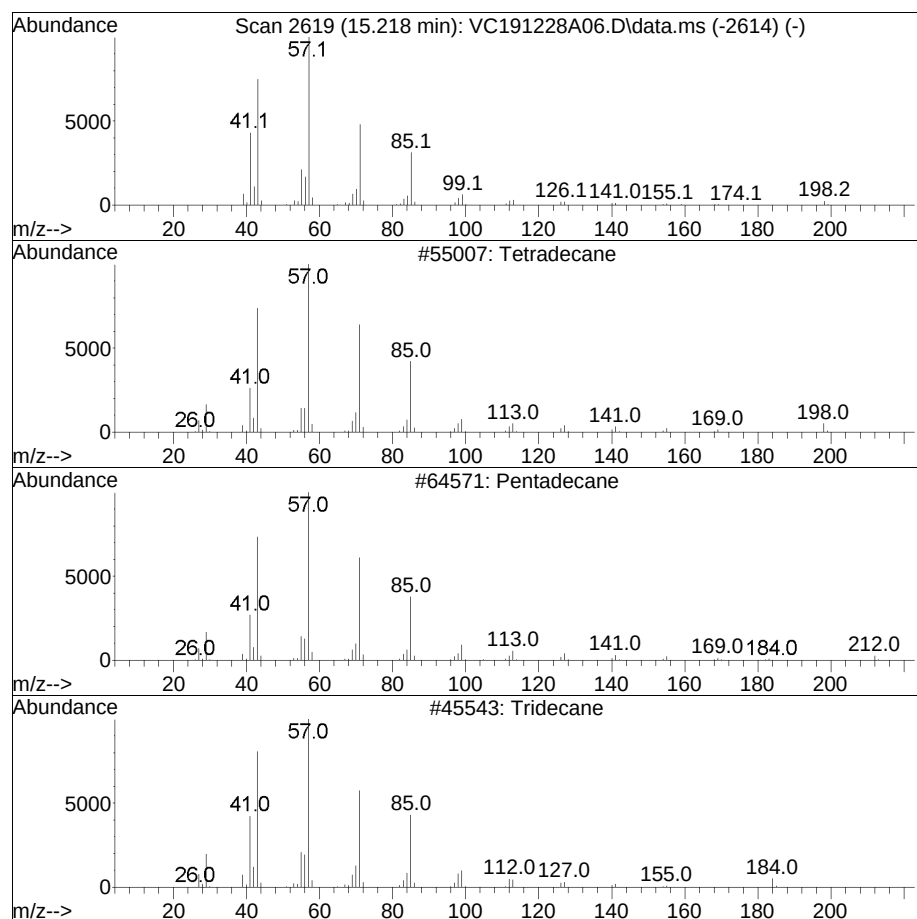
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 9 Unknown Alkane Concentration Rank 2

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 15.218 | 195.31 ug/L | 2313010 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------|-----|---------|-------------|------|
| 1       |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 97   |
| 2       |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 90   |
| 3       |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 4       |   | Hexadecane   | 226 | C16H34  | 000544-76-3 | 90   |
| 5       |   | Undecane     | 156 | C11H24  | 001120-21-4 | 86   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

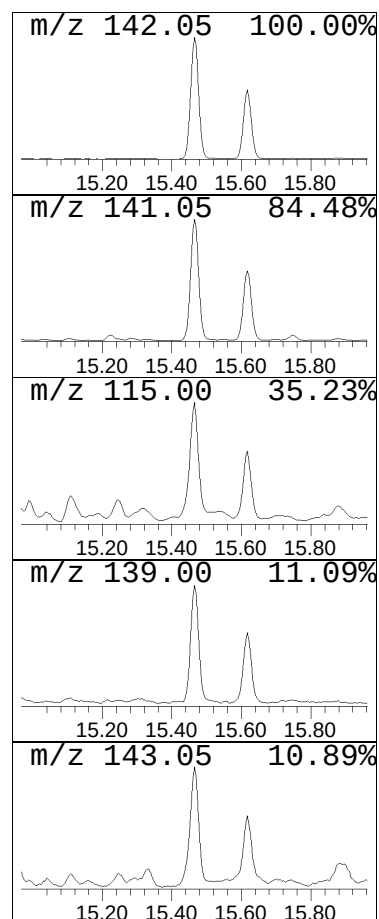
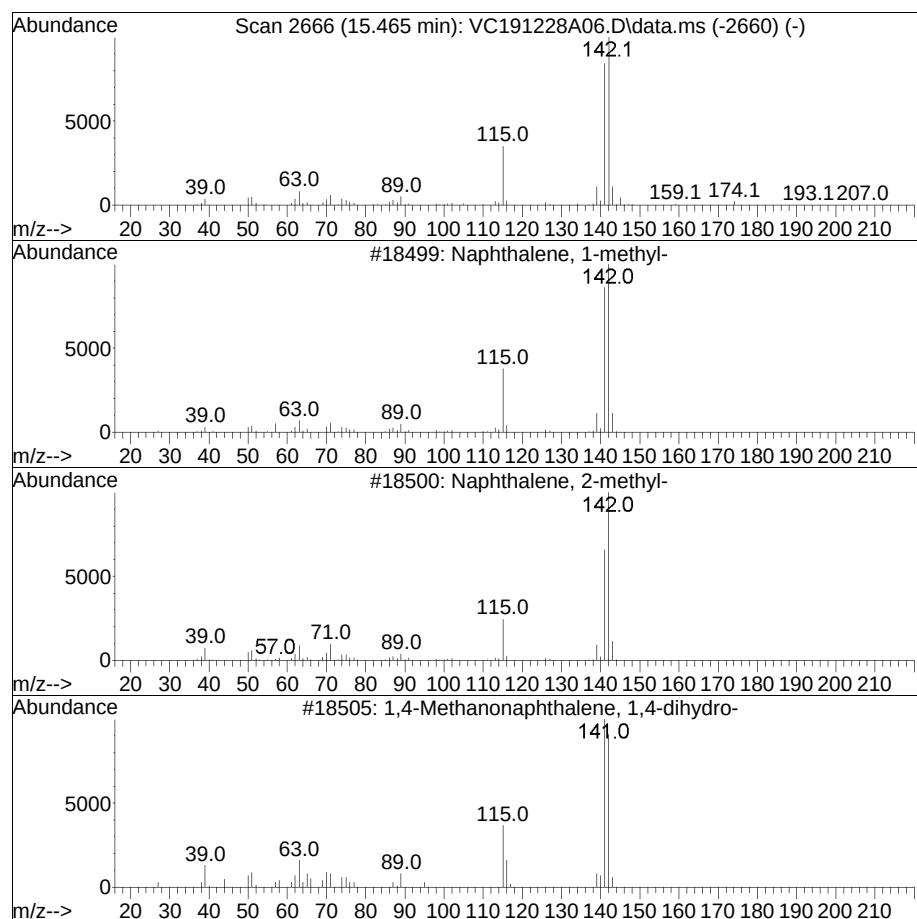
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 10 Unknown Aromatic Concentration Rank 4

| R.T.   | EstConc     | Area    | Relative to ISTD       | R.T.   |
|--------|-------------|---------|------------------------|--------|
| 15.465 | 135.57 ug/L | 1605520 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 95   |
| 2       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 94   |
| 3       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 4       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 90   |
| 5       |   | 3,4-Difluorobenzaldehyde            | 142 | C7H4F2O | 034036-07-2 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

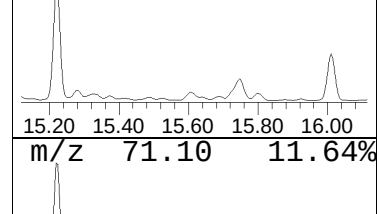
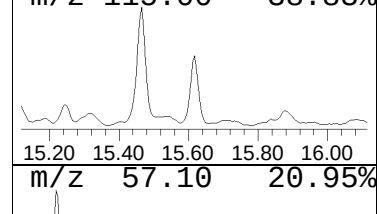
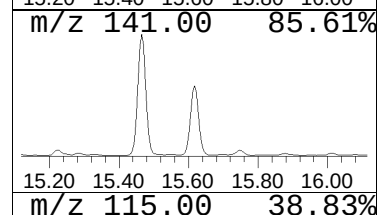
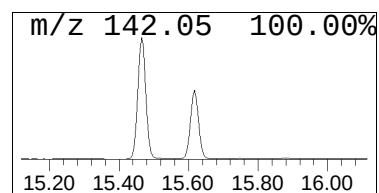
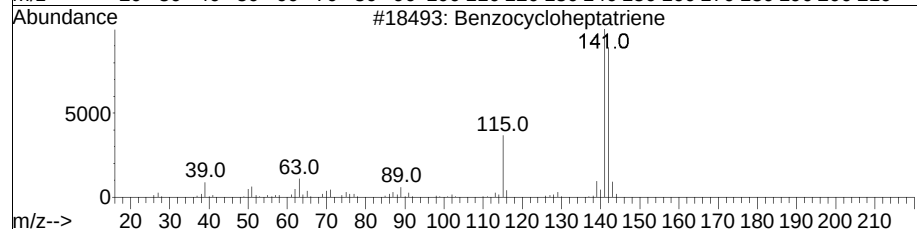
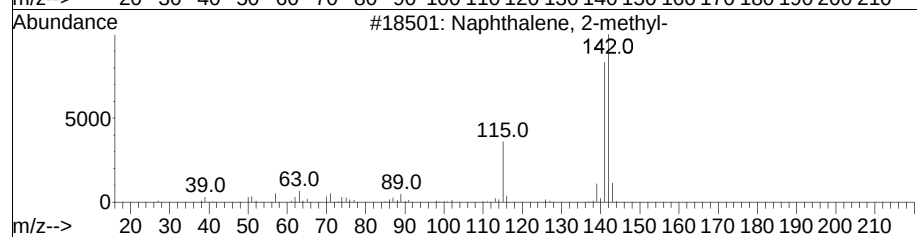
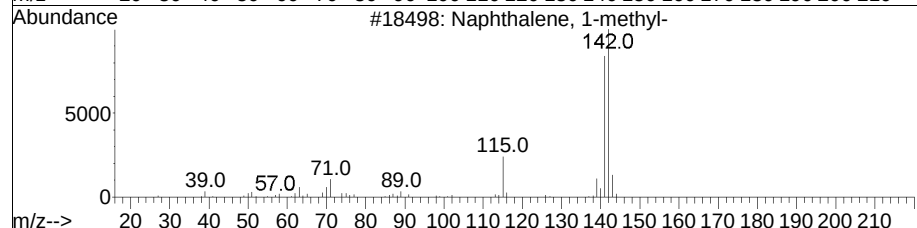
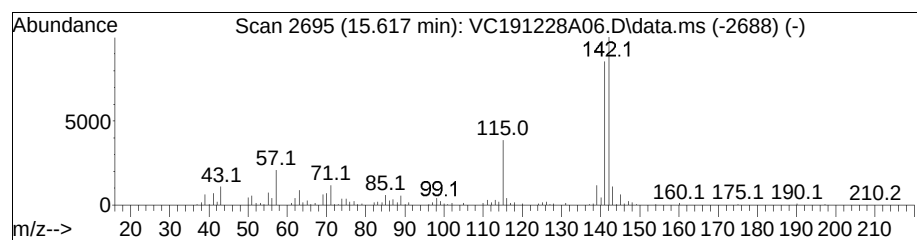
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 11 Unknown Aromatic Concentration Rank 12

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.617 | 66.41 ug/L | 786489 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 94   |
| 4       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 93   |
| 5       |   | Spiro(9-methylenetricyclo[6.2.1.... | 184 | C13H12O | 033929-47-4 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

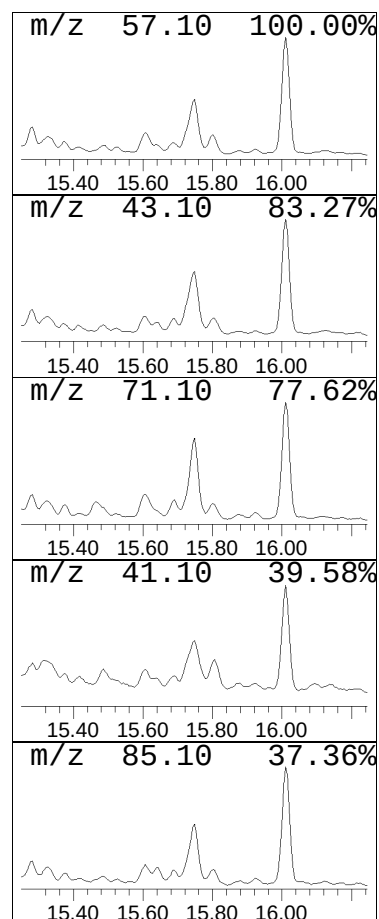
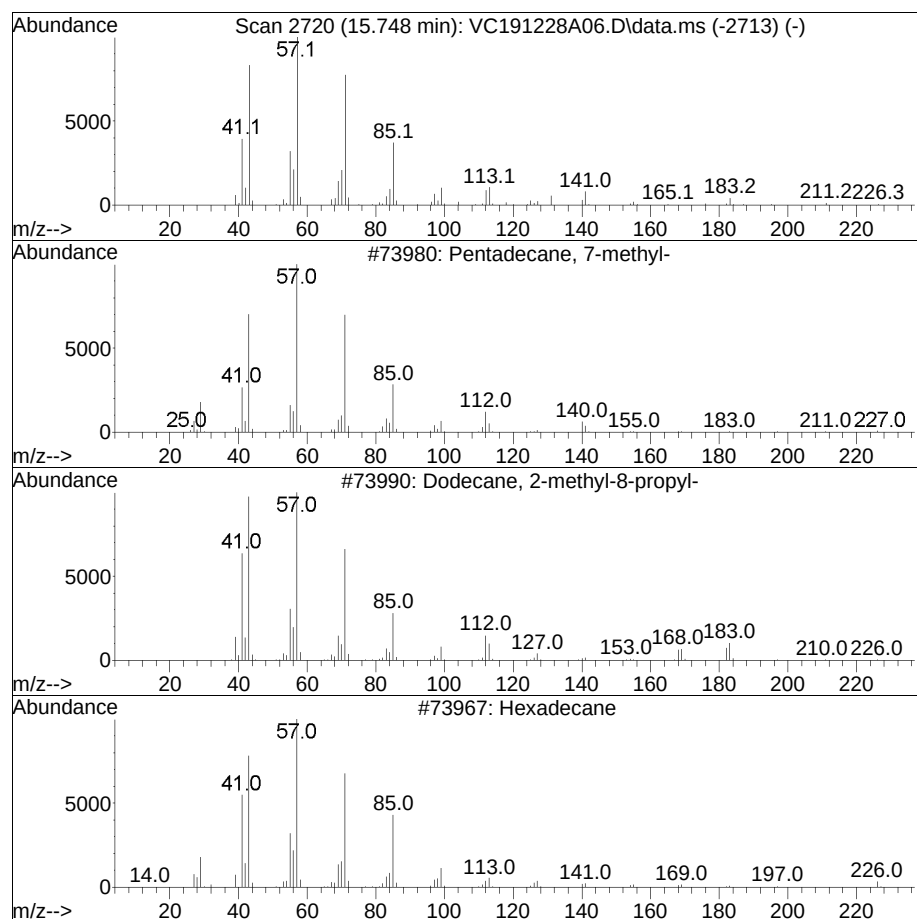
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 12 Unknown Alkane Concentration Rank 14

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 15.748 | 60.99 ug/L | 722255 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Pentadecane, 7-methyl-              | 226 | C16H34  | 006165-40-8 | 91   |
| 2       |   | Dodecane, 2-methyl-8-propyl-        | 226 | C16H34  | 055045-07-3 | 87   |
| 3       |   | Hexadecane                          | 226 | C16H34  | 000544-76-3 | 83   |
| 4       |   | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44  | 018344-37-1 | 72   |
| 5       |   | Ether, hexyl pentyl                 | 172 | C11H24O | 032357-83-8 | 72   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

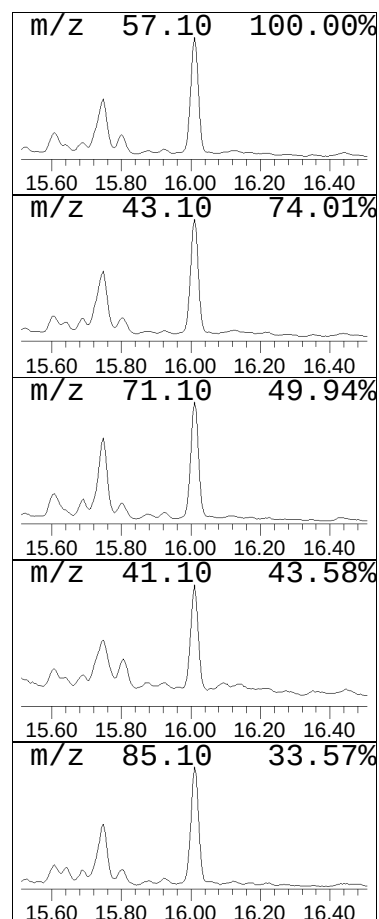
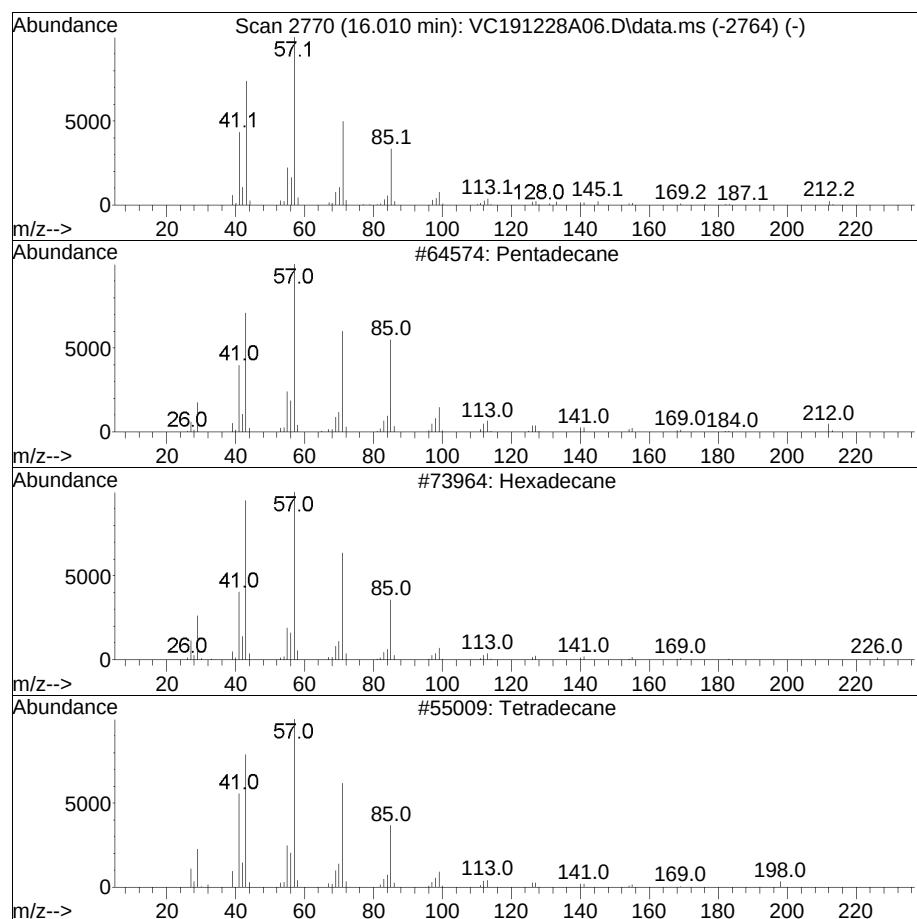
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 13 Unknown Alkane Concentration Rank 8

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.010 | 81.87 ug/L | 969614 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 95   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 91   |
| 3       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 91   |
| 4       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 90   |
| 5       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 90   |





## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

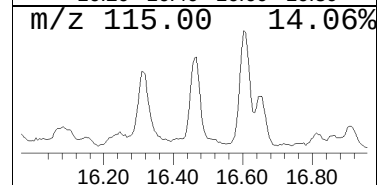
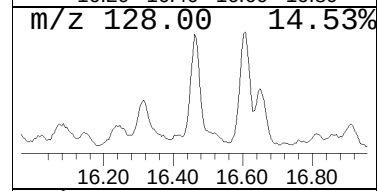
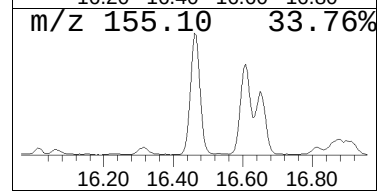
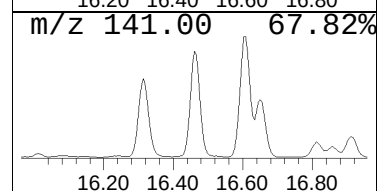
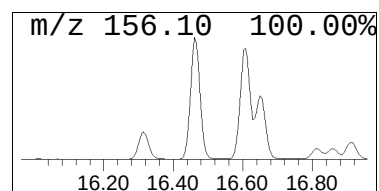
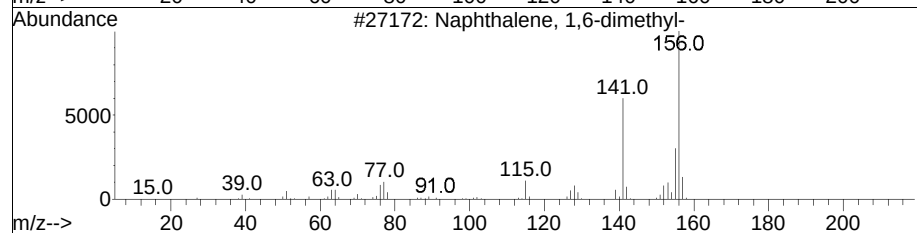
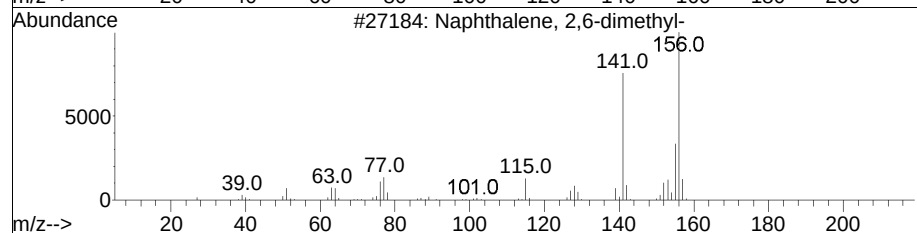
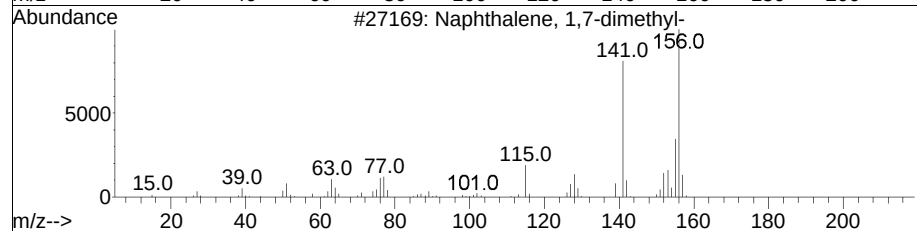
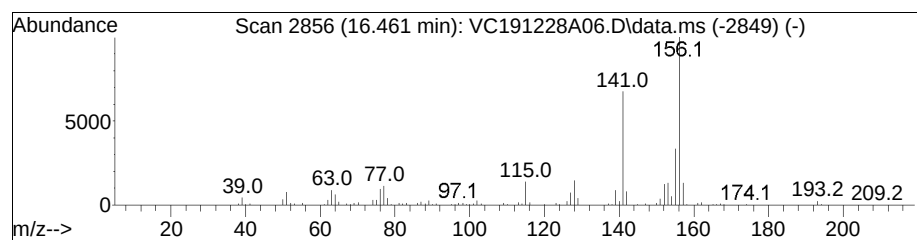
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

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Peak Number 14 Unknown Naphthalene Concentration Rank 10

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.461 | 72.53 ug/L | 858989 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 2       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 3       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 5       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A06.D  
Acq On : 28 Dec 2019 9:43 am  
Operator : CHARLIE:AD  
Sample : l1961284-01,31,6.84,5,,b  
Misc : WG1325623,ICAL16358  
ALS Vial : 6 Sample Multiplier: 1

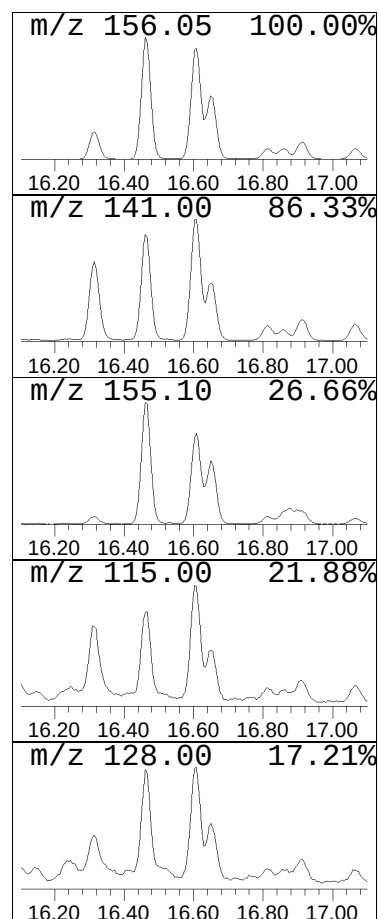
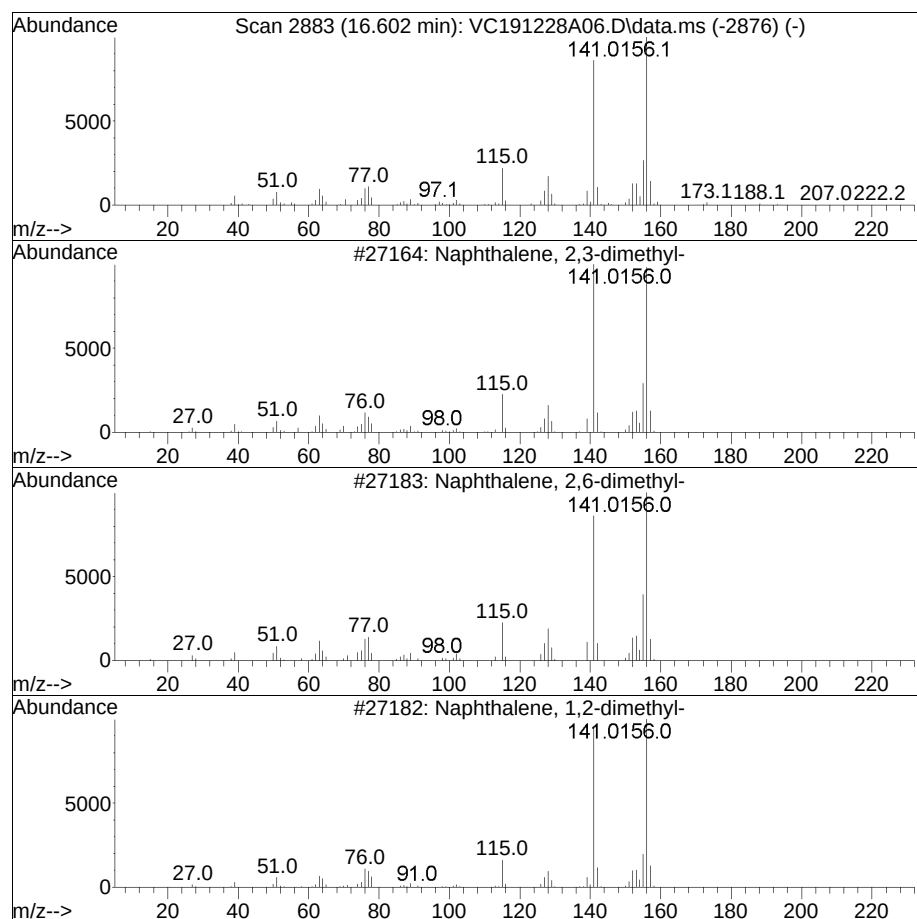
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 15 Unknown Naphthalene Concentration Rank 9

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 16.602 | 77.87 ug/L | 922149 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 98   |
| 2       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 3       |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 98   |
| 4       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5       |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A06.D  
 Acq On : 28 Dec 2019 9:43 am  
 Operator : CHARLIE:AD  
 Sample : l1961284-01,31,6.84,5,,b  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard--- |        |        |      |
|--------------------|--------|---------|-------|----------|------------------------|--------|--------|------|
|                    |        |         |       |          | #                      | RT     | Resp   | Conc |
| Undecane           | 12.597 | 114.2   | ug/L  | 1352610  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 13.604 | 150.5   | ug/L  | 1782490  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 13.756 | 59.3    | ug/L  | 702151   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Benzene    | 13.839 | 70.5    | ug/L  | 835330   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown            | 14.144 | 110.0   | ug/L  | 1303020  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 14.458 | 254.3   | ug/L  | 3011110  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown            | 14.961 | 63.8    | ug/L  | 755500   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 15.098 | 115.7   | ug/L  | 1370530  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 15.218 | 195.3   | ug/L  | 2313010  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Aromatic   | 15.465 | 135.6   | ug/L  | 1605520  | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Aromatic   | 15.617 | 66.4    | ug/L  | 786489   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 15.748 | 61.0    | ug/L  | 722255   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Alkane     | 16.010 | 81.9    | ug/L  | 969614   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Naphtha... | 16.461 | 72.5    | ug/L  | 858989   | 3                      | 12.408 | 236855 | 20.0 |
| Unknown Naphtha... | 16.602 | 77.9    | ug/L  | 922149   | 3                      | 12.408 | 236855 | 20.0 |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : l1961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:27:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc      | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|-----------|---------|----------|
| -----                        |                |      |          |           |         |          |
| Internal Standards           |                |      |          |           |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 311545   | 20.000    | ug/L    | 0.00     |
| Standard Area 1 = 340789     |                |      | Recovery | =         | 91.42%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 274848   | 20.000    | ug/L    | 0.00     |
| Standard Area 1 = 288898     |                |      | Recovery | =         | 95.14%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 151325   | 20.000    | ug/L    | 0.00     |
| Standard Area 1 = 151324     |                |      | Recovery | =         | 100.00% |          |
| System Monitoring Compounds  |                |      |          |           |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 80384    | 19.383    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 96.91%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 78880    | 17.800    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 89.00%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 345961   | 18.051    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 90.25%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 149576   | 19.163    | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =         | 95.82%  |          |
| Target Compounds             |                |      |          |           |         |          |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0        | N.D.      |         |          |
| 3) Chloromethane             | 1.658          | 50   | 368      | N.D.      |         |          |
| 4) Vinyl chloride            | 0.000          |      | 0        | N.D.      |         |          |
| 5) Bromomethane              | 1.957          | 94   | 54       | Below Cal | #       | 3        |
| 6) Chloroethane              | 0.000          |      | 0        | N.D.      |         |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0        | N.D.      |         |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0        | N.D.      |         |          |
| 11) Carbon disulfide         | 2.623          | 76   | 2698     | 0.207     | ug/L #  | 87       |
| 12) Freon-113                | 0.000          |      | 0        | N.D.      |         |          |
| 15) Methylene chloride       | 3.095          | 84   | 453      | 0.102     | ug/L    | 80       |
| 17) Acetone                  | 3.137          | 43   | 1382     | 1.367     | ug/L    | 95       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0        | N.D.      |         |          |
| 19) Methyl acetate           | 3.247          | 43   | 1677     | 0.622     | ug/L #  | 75       |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 193      | N.D.      |         |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0        | N.D.      |         |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0        | N.D.      |         |          |
| 31) Cyclohexane              | 0.000          |      | 0        | N.D.      |         |          |
| 32) Chloroform               | 0.000          |      | 0        | N.D.      |         |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0        | N.D.      | d       |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0        | N.D.      |         |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : 11961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:27:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|--------|-------|----------|-----|
| 39)  | 2-Butanone                | 4.794  | 43   | 2186     | 1.408  | ug/L  | #        | 38  |
| 41)  | Benzene                   | 5.051  | 78   | 384      | N.D.   |       |          |     |
| 44)  | 1,2-Dichloroethane        | 5.245  | 62   | 50       | N.D.   |       |          |     |
| 47)  | Methyl cyclohexane        | 5.612  | 83   | 66       | N.D.   |       |          |     |
| 48)  | Trichloroethene           | 5.627  | 95   | 1241     | 0.321  | ug/L  |          | 92  |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        | N.D.   |       |          |     |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        | N.D.   |       |          |     |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        | N.D.   |       |          |     |
| 61)  | Toluene                   | 7.169  | 92   | 560      | N.D.   |       |          |     |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        | N.D.   |       |          |     |
| 63)  | Tetrachloroethene         | 0.000  |      | 0        | N.D.   |       |          |     |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        | N.D.   |       |          |     |
| 68)  | 1,1,2-Trichloroethane     | 7.824  | 83   | 332      | N.D.   |       |          |     |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        | N.D.   |       |          |     |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        | N.D.   |       |          |     |
| 72)  | 2-Hexanone                | 0.000  |      | 0        | N.D.   | d     |          |     |
| 73)  | Chlorobenzene             | 0.000  |      | 0        | N.D.   |       |          |     |
| 74)  | Ethylbenzene              | 8.999  | 91   | 718      | N.D.   |       |          |     |
| 76)  | p/m Xylene                | 9.172  | 106  | 378      | N.D.   |       |          |     |
| 77)  | o Xylene                  | 9.717  | 106  | 184      | N.D.   |       |          |     |
| 78)  | Styrene                   | 0.000  |      | 0        | N.D.   |       |          |     |
| 80)  | Bromoform                 | 0.000  |      | 0        | N.D.   |       |          |     |
| 82)  | Isopropylbenzene          | 10.142 | 105  | 433      | N.D.   |       |          |     |
| 85)  | n-Propylbenzene           | 10.650 | 91   | 2616     | 0.104  | ug/L  | #        | 84  |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        | N.D.   | d     |          |     |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 10106    | 0.604  | ug/L  |          | 94  |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 381      | N.D.   |       |          |     |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 63941    | 3.891  | ug/L  |          | 97  |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 10536    | 0.503  | ug/L  |          | 87  |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 15624    | 0.931  | ug/L  |          | 98  |
| 100) | 1,3-Dichlorobenzene       | 11.762 | 146  | 211      | N.D.   |       |          |     |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 211      | N.D.   |       |          |     |
| 103) | n-Butylbenzene            | 12.061 | 91   | 68254M1  | 3.882  | ug/L  |          |     |
| 104) | 1,2-Dichlorobenzene       | 12.207 | 146  | 49       | N.D.   |       |          |     |
| 106) | 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.   | d     |          |     |
| 109) | 1,2,4-Trichlorobenzene    | 13.623 | 180  | 339      | N.D.   |       |          |     |
| 110) | Naphthalene               | 13.938 | 128  | 267796   | 22.911 | ug/L  |          | 100 |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : l1961284-04D,31H,7.02,5,0.050,,a  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:27:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

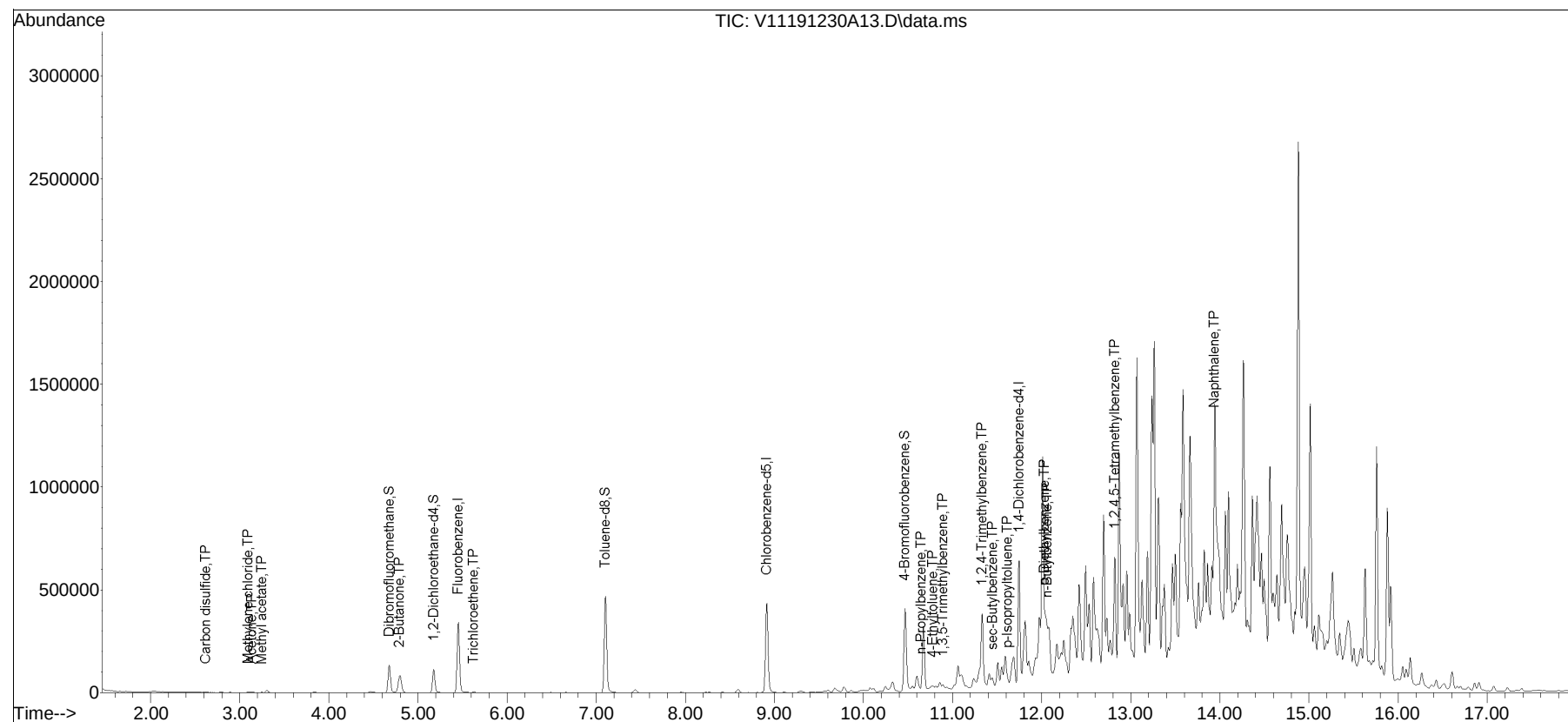
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

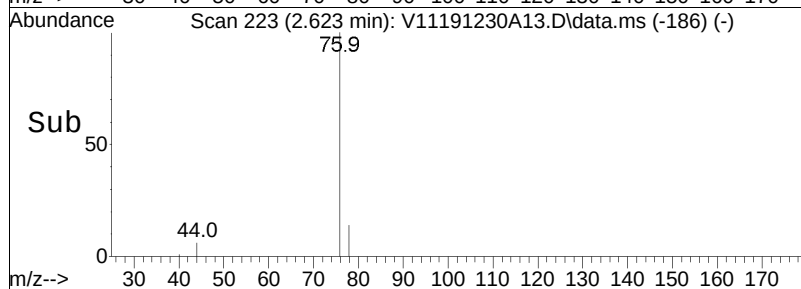
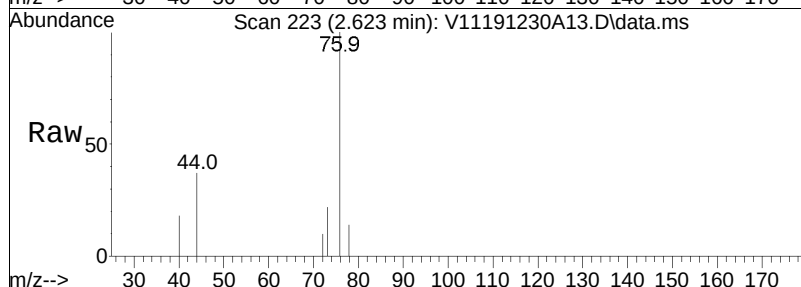
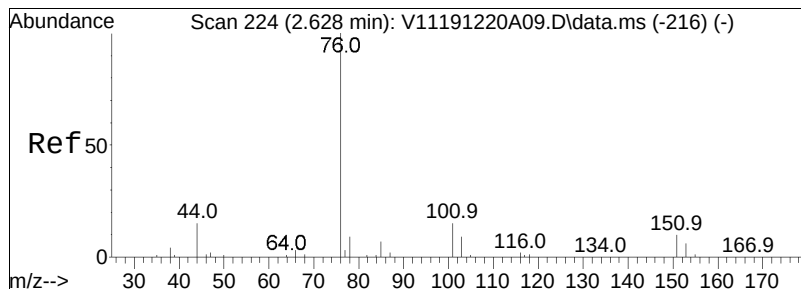
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : 11961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 30 12:27:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

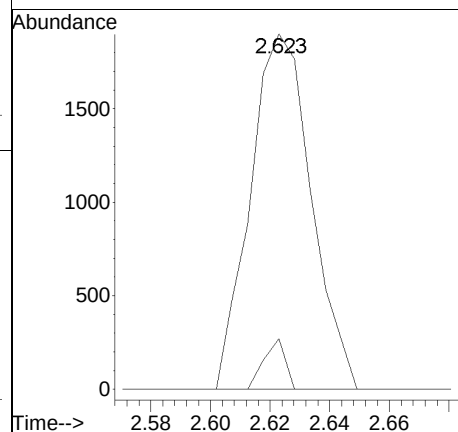
Sub List : 8260-CurveSoil - Megamix plus Diox0A\V11191230A01.D•



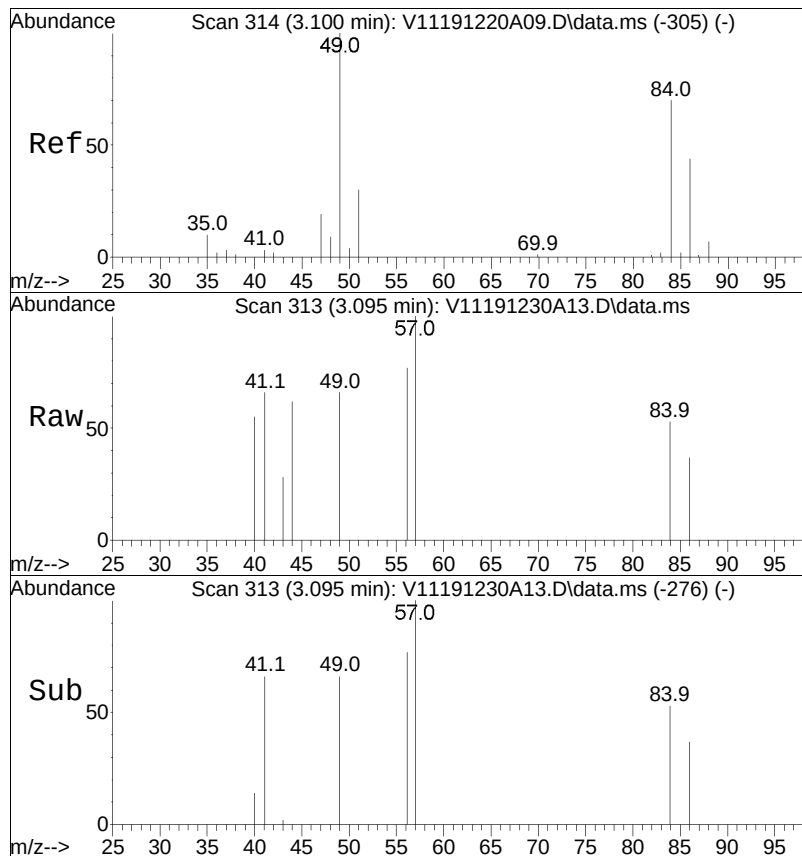


#11  
Carbon disulfide  
Concen: 0.21 ug/L  
RT: 2.623 min Scan# 223  
Delta R.T. -0.005 min  
Lab File: V11191230A13.D  
Acq: 30 Dec 2019 10:39 am

Tgt Ion: 76 Resp: 2698  
Ion Ratio Lower Upper  
76 100  
78 5.0 6.4 13.4#

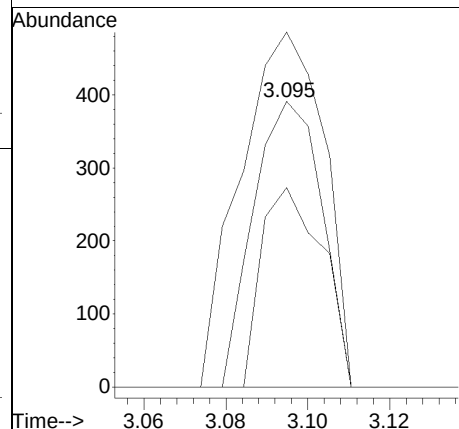


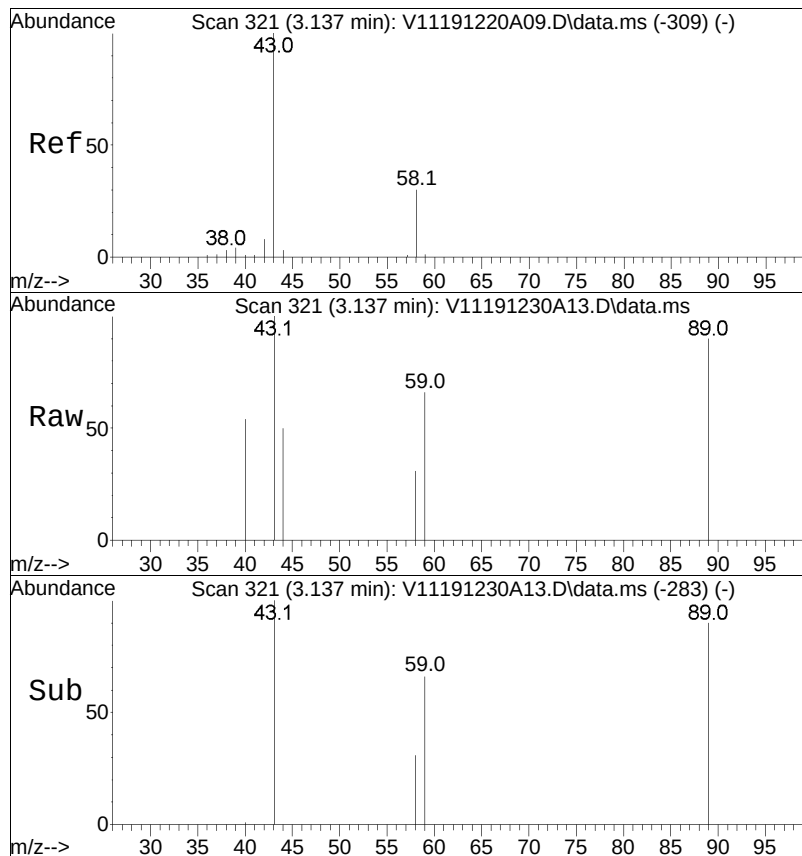




#15  
 Methylene chloride  
 Concen: 0.10 ug/L  
 RT: 3.095 min Scan# 313  
 Delta R.T. -0.005 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

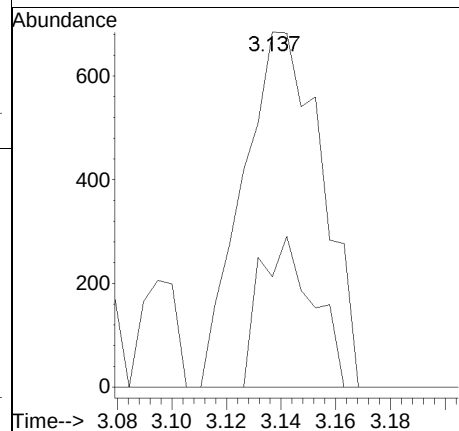
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 84    | Resp: | 453   |
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 86        | 62.5  | 41.1  | 85.3  |
| 49        | 151.9 | 124.2 | 258.0 |

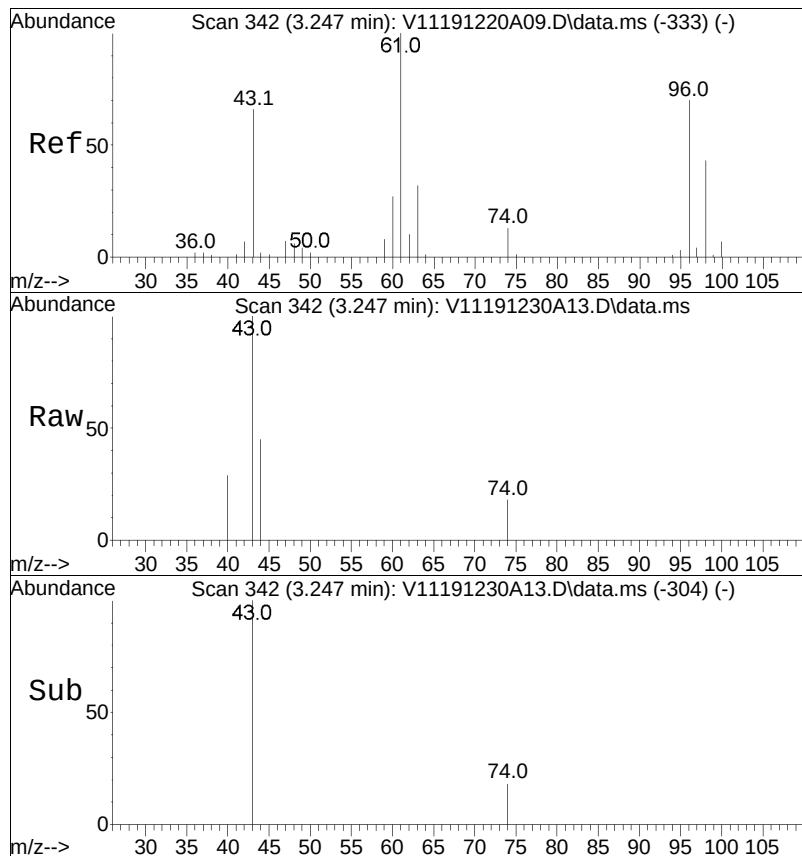




#17  
 Acetone  
 Concen: 1.37 ug/L  
 RT: 3.137 min Scan# 321  
 Delta R.T. -0.000 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

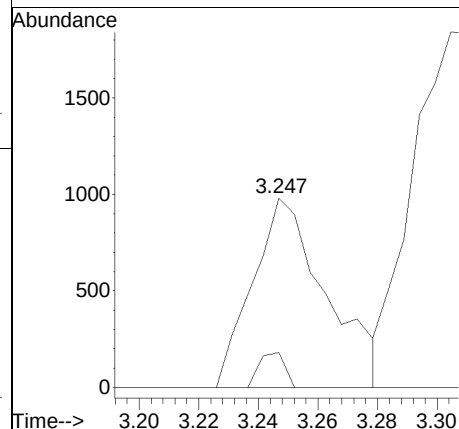
| Tgt Ion: | 43 | 58 | Ratio | 100 | 28.5 | Resp: | 1382 | Lower | Upper |
|----------|----|----|-------|-----|------|-------|------|-------|-------|
|          |    |    |       |     |      |       |      | 20.8  | 31.2  |

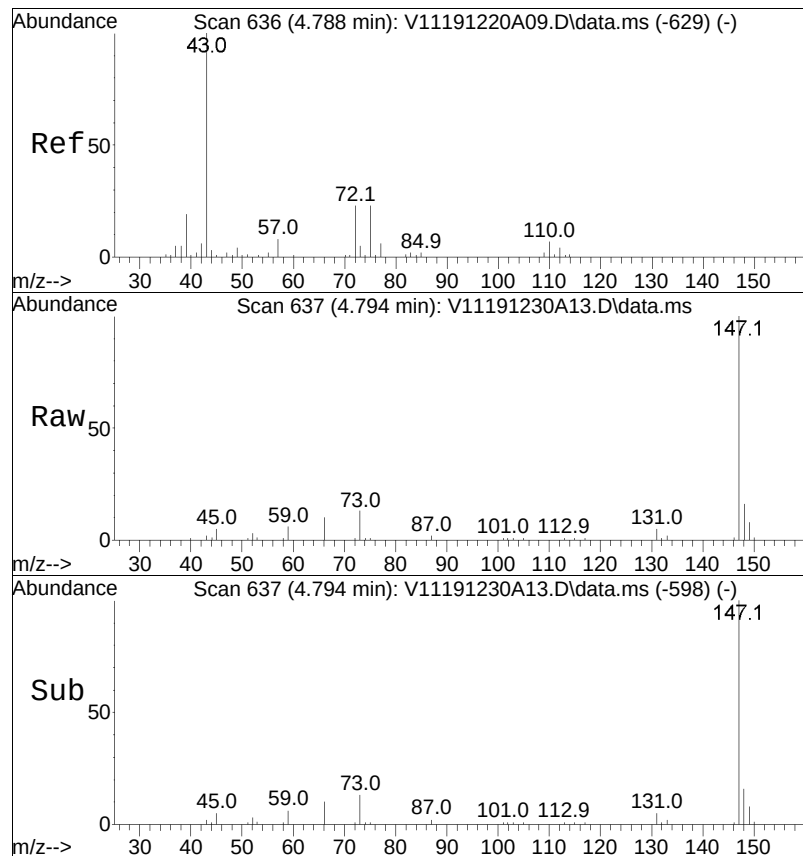




#19  
Methyl acetate  
Concen: 0.62 ug/L  
RT: 3.247 min Scan# 342  
Delta R.T. -0.000 min  
Lab File: V11191230A13.D  
Acq: 30 Dec 2019 10:39 am

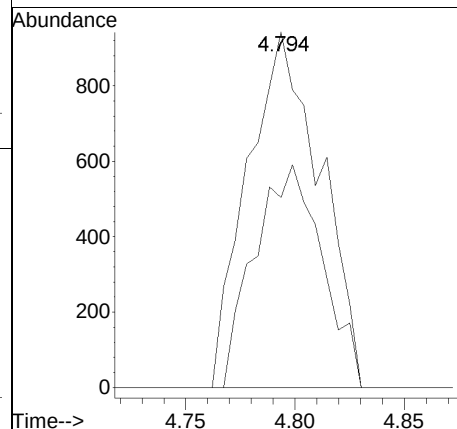
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 6.5   | 11.3  | 16.9# |
| 59      | 0.0   | 10.4  | 15.6# |

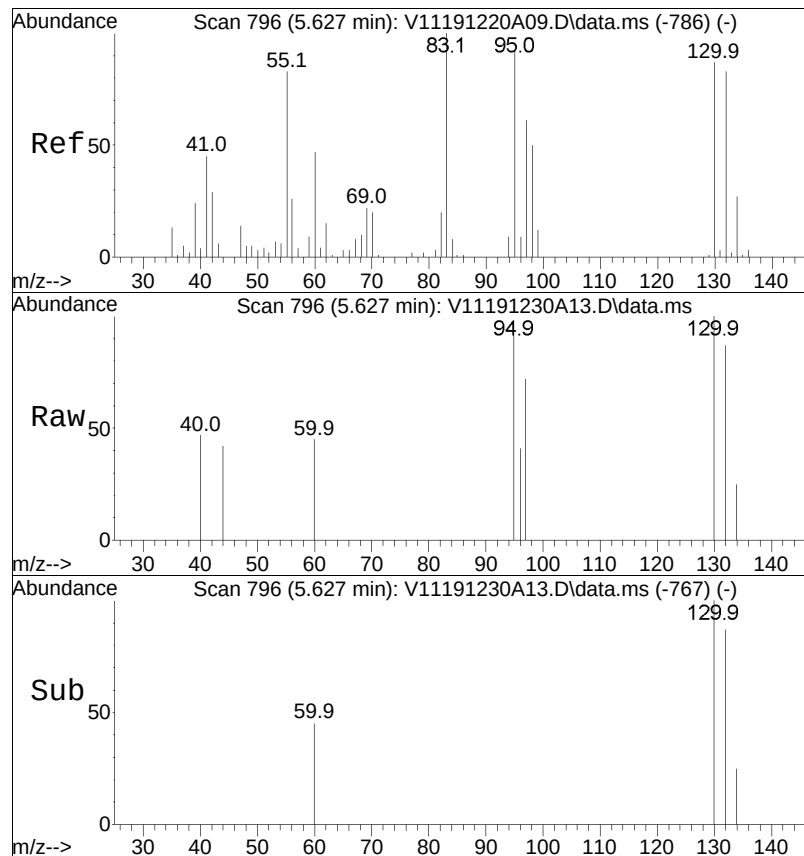




#39  
 2-Butanone  
 Concen: 1.41 ug/L  
 RT: 4.794 min Scan# 637  
 Delta R.T. 0.006 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

| Tgt Ion: | 43 | 72 | Ion Ratio | 100 | 58.2 | Resp: | 2186 | Lower | Upper |
|----------|----|----|-----------|-----|------|-------|------|-------|-------|
|          |    |    |           |     |      |       |      | 21.0  | 31.6# |





#48

Trichloroethene

Concen: 0.32 ug/L

RT: 5.627 min Scan# 796

Delta R.T. 0.000 min

Lab File: V11191230A13.D

Acq: 30 Dec 2019 10:39 am

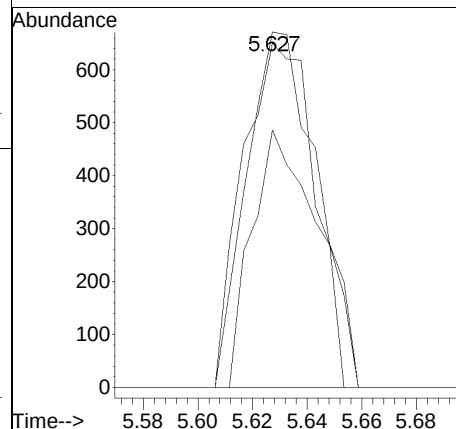
Tgt Ion: 95 Resp: 1241

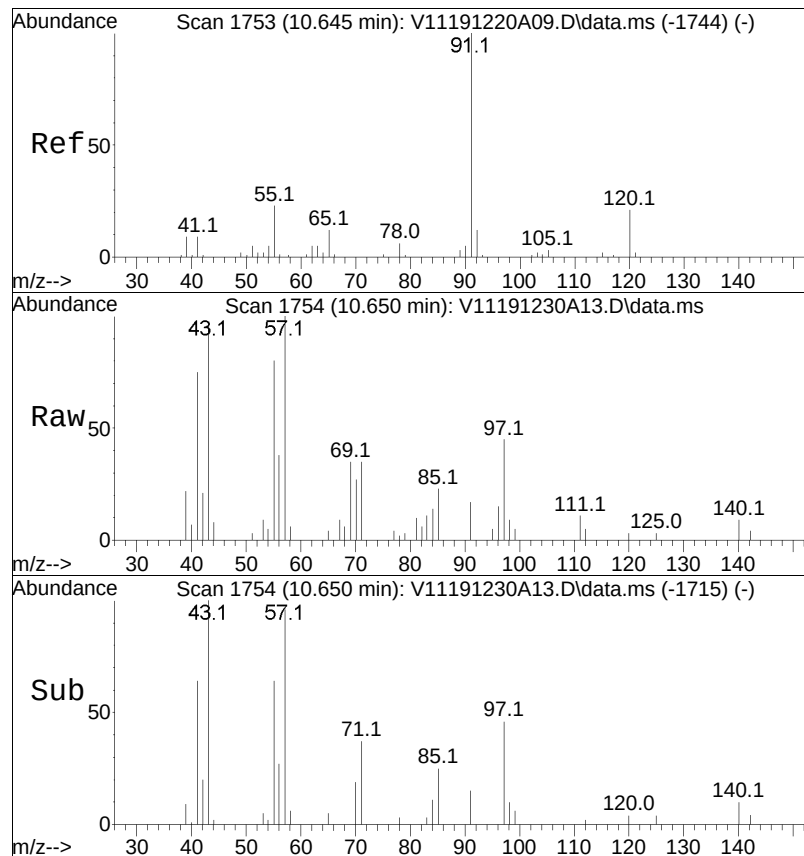
Ion Ratio Lower Upper

95 100

97 62.2 54.3 81.5

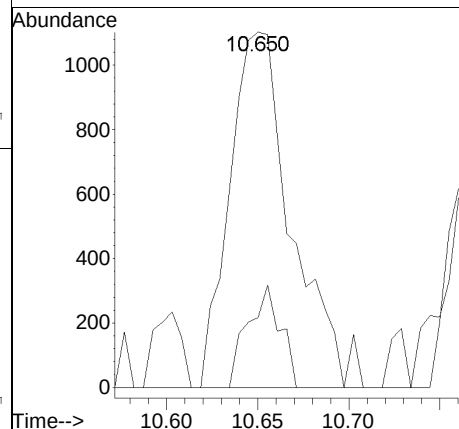
130 96.6 84.6 126.8

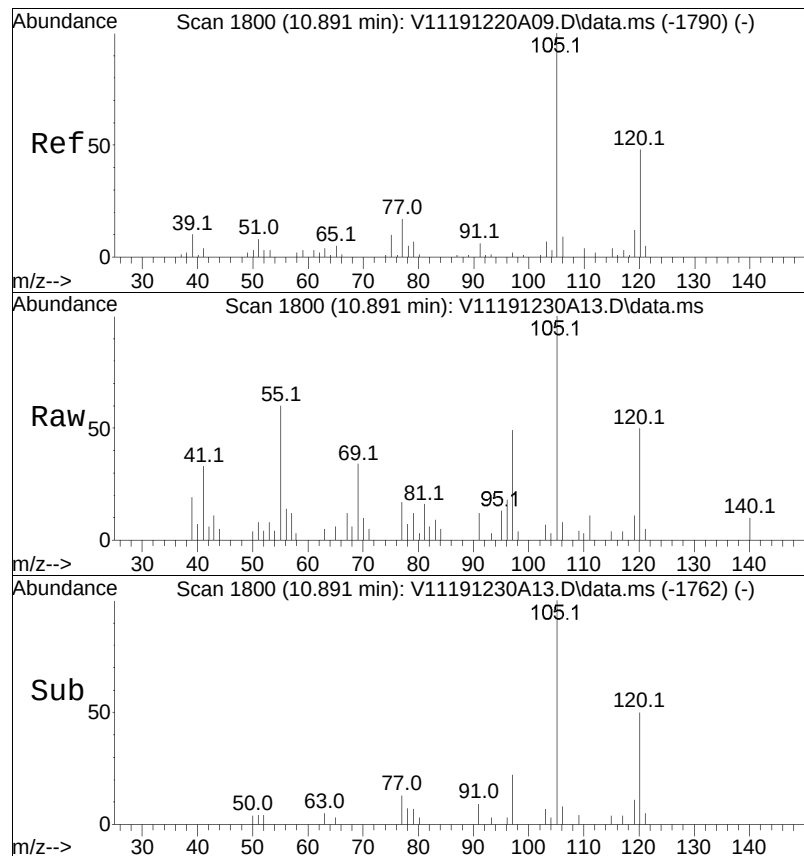




#85  
 n-Propylbenzene  
 Concen: 0.10 ug/L  
 RT: 10.650 min Scan# 1754  
 Delta R.T. 0.005 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

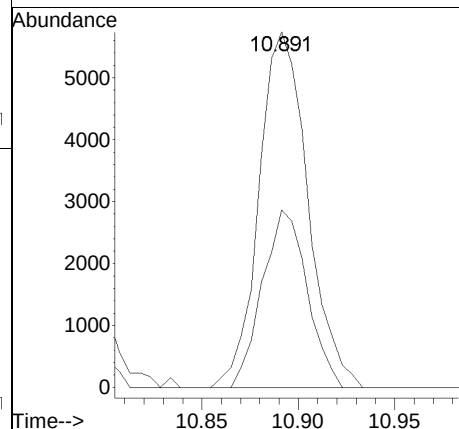
Tgt Ion: 91 Resp: 2616  
 Ion Ratio Lower Upper  
 91 100  
 120 15.2 18.6 27.8#

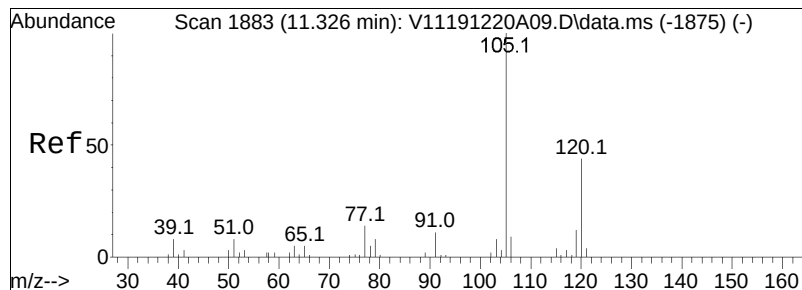




#90  
 1,3,5-Trimethylbenzene  
 Concen: 0.60 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.7  | 39.8  | 59.8  |





#97

1,2,4-Trimethylbenzene

Concen: 3.89 ug/L

RT: 11.332 min Scan# 1884

Delta R.T. 0.006 min

Lab File: V11191230A13.D

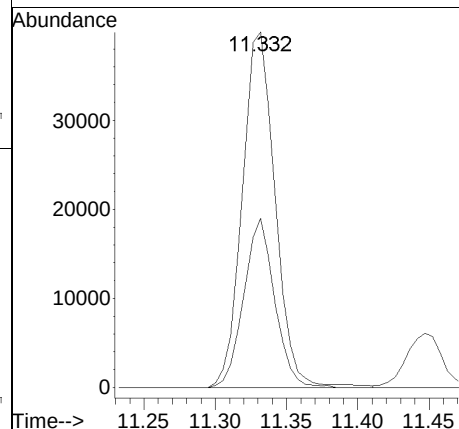
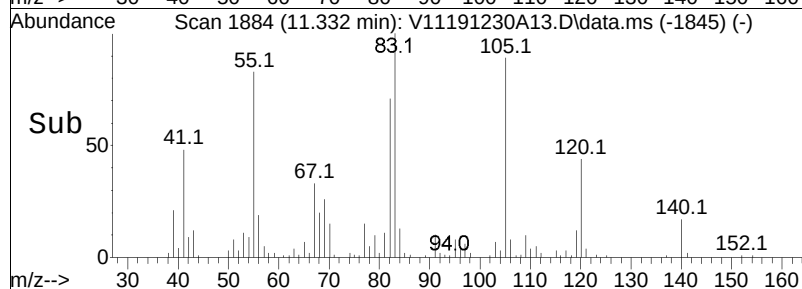
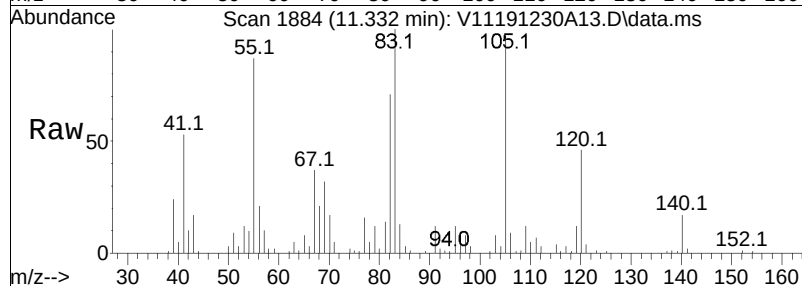
Acq: 30 Dec 2019 10:39 am

Tgt Ion:105 Resp: 63941

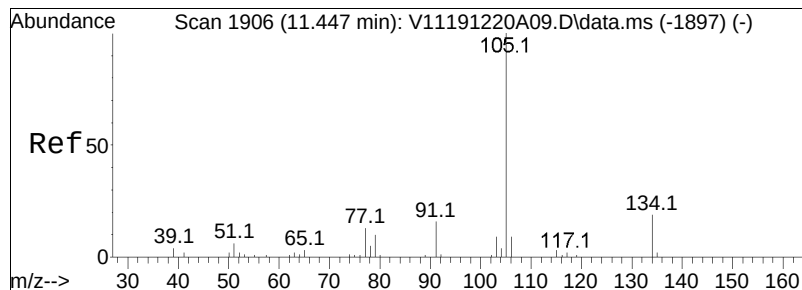
Ion Ratio Lower Upper

105 100

120 44.7 37.4 56.0

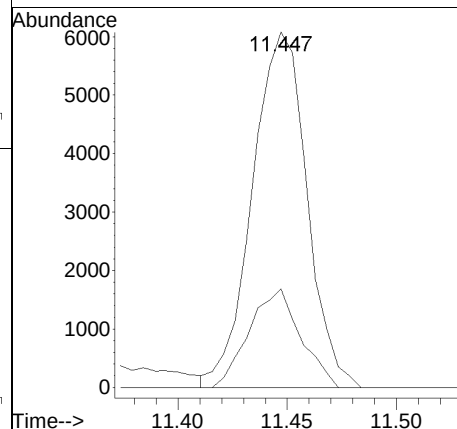
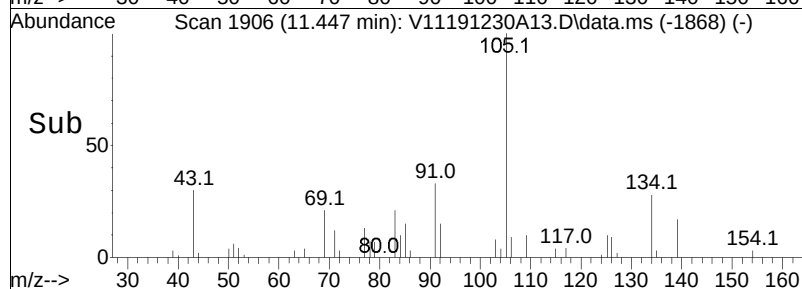
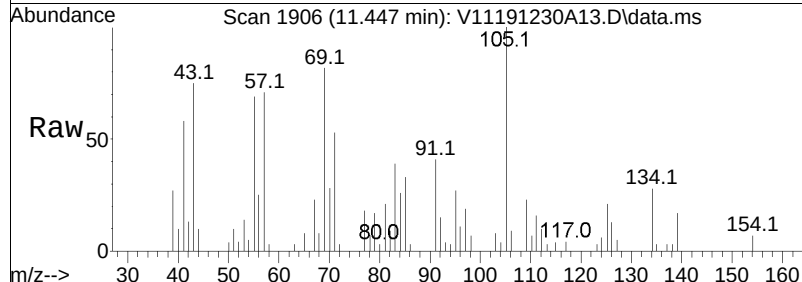


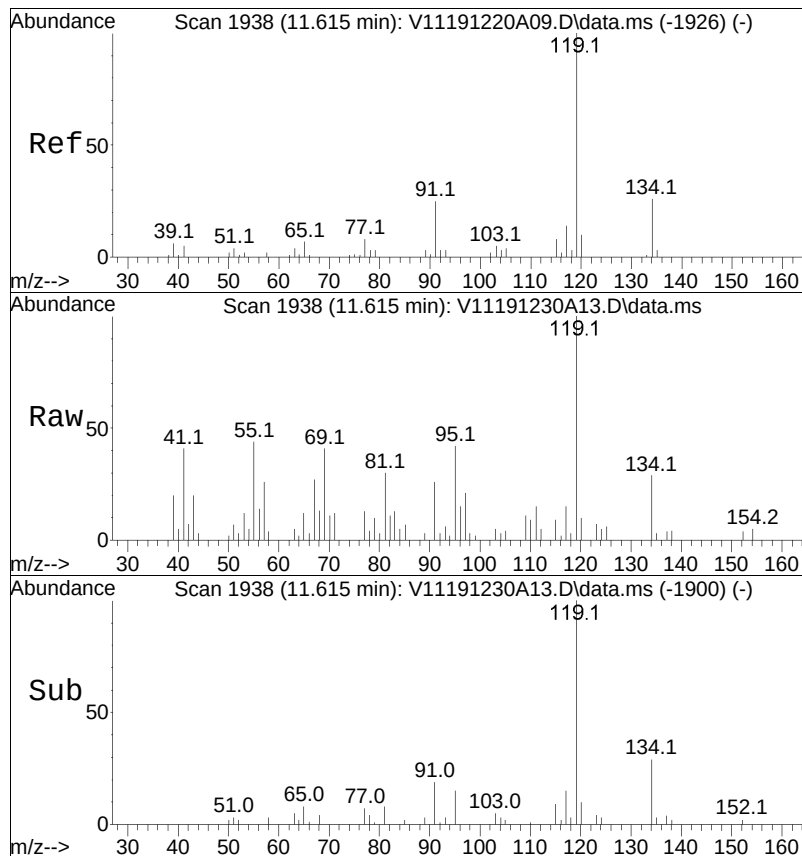




#98  
 sec-Butylbenzene  
 Concen: 0.50 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

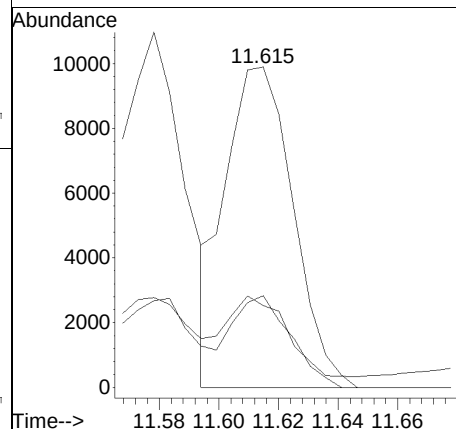
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 26.1  | 13.2  | 27.4  |

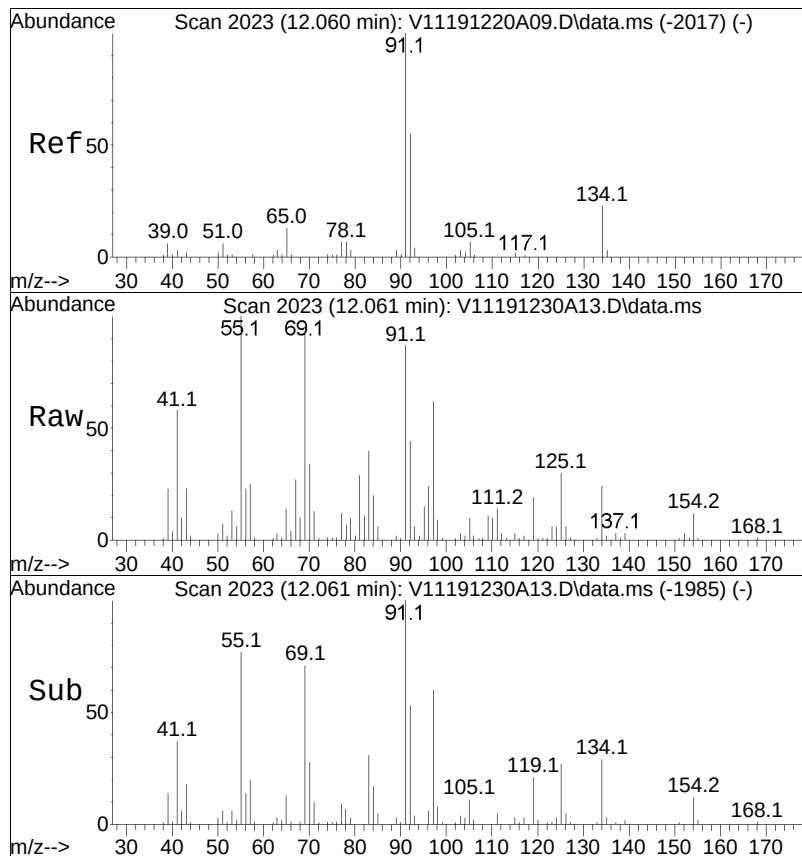




#99  
 p-Isopropyltoluene  
 Concen: 0.93 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. -0.000 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

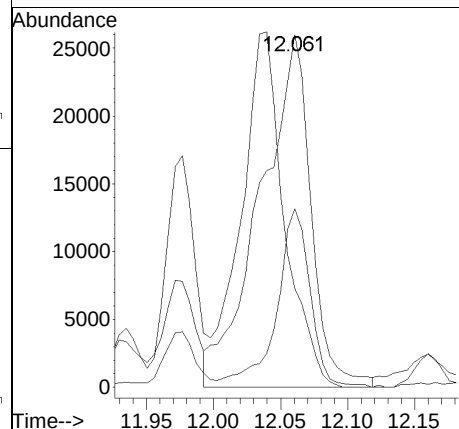
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 119     | 100   | 15624 |       |       |
| 134     | 24.1  |       | 17.1  | 35.5  |
| 91      | 23.6  |       | 15.3  | 31.9  |

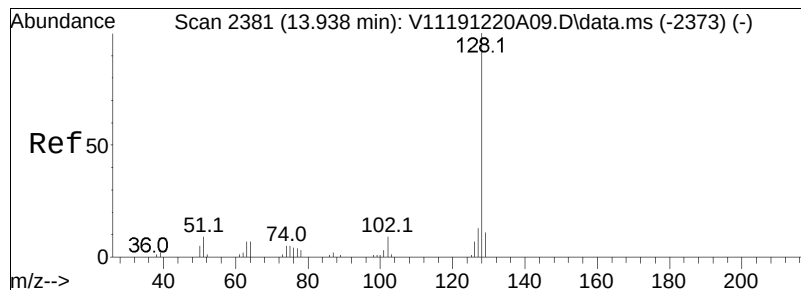




#103  
 n-Butylbenzene  
 Concen: 3.88 ug/L M1  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191230A13.D  
 Acq: 30 Dec 2019 10:39 am

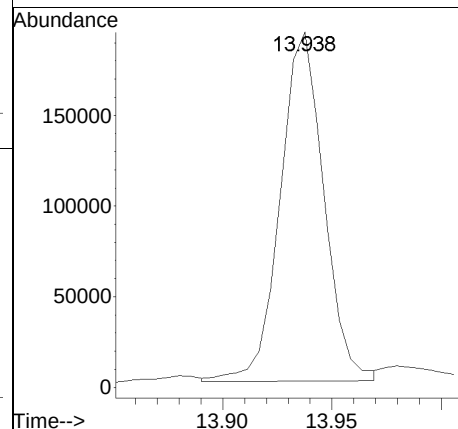
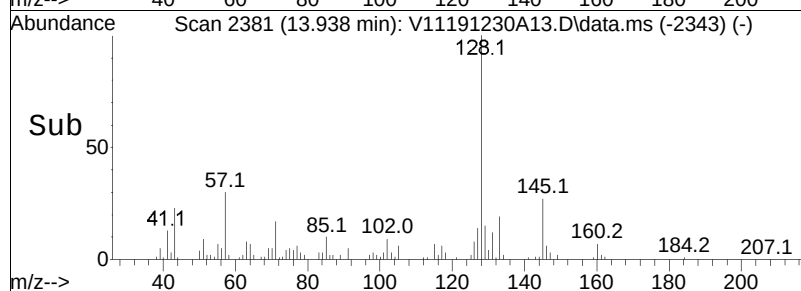
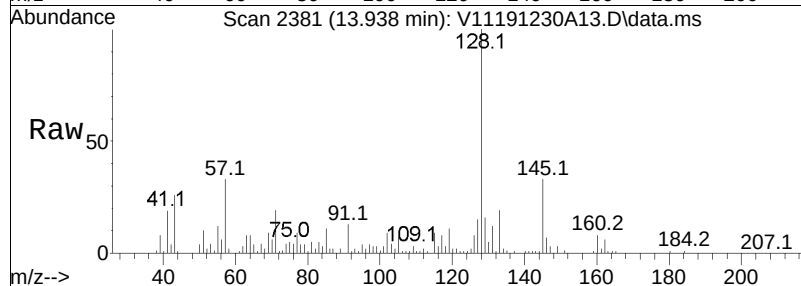
| Tgt Ion:  | 91    | Resp: | 68254 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 33.9  | 43.3  | 64.9# |
| 134       | 85.1  | 21.4  | 32.0# |





#110  
Naphthalene  
Concen: 22.91 ug/L  
RT: 13.938 min Scan# 2381  
Delta R.T. -0.000 min  
Lab File: V11191230A13.D  
Acq: 30 Dec 2019 10:39 am

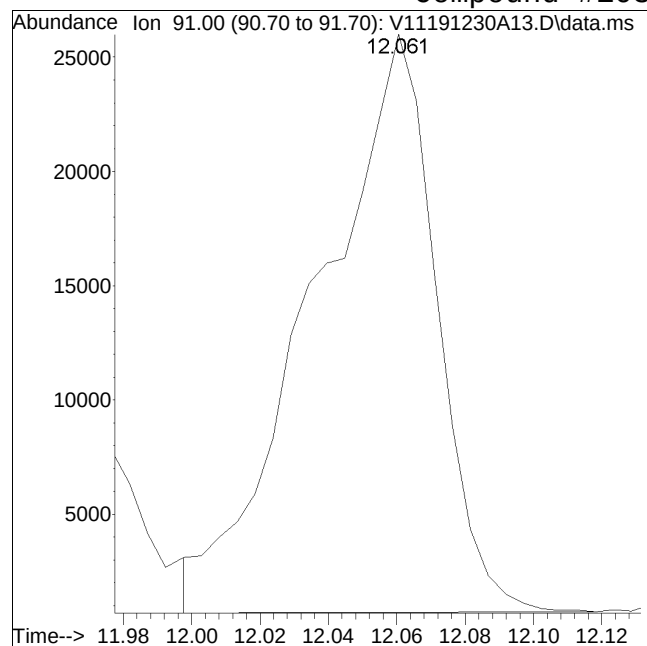
Tgt Ion:128 Resp: 267796



# Manual Integration Report

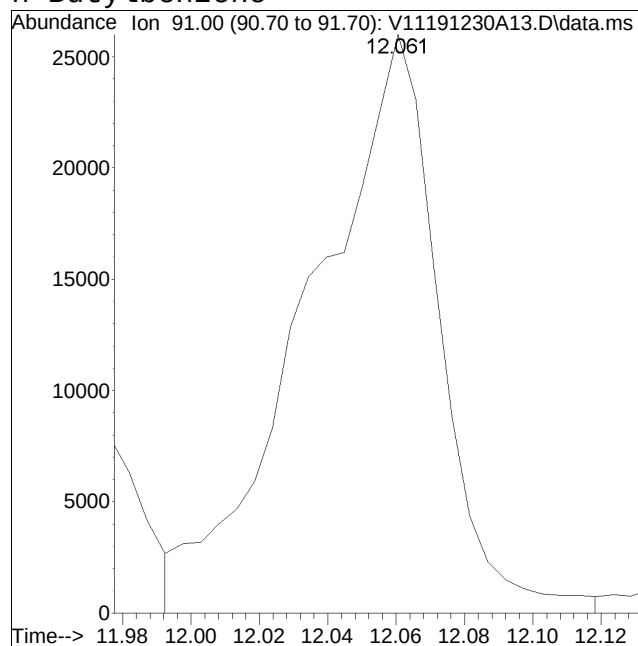
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191230A13.D Operator : VOA111:JC  
Date Inj'd : 12/30/2019 10:39 am Instrument : VOA111  
Sample : l1961284-04D,31H,7.02,5,0.Quant Date : 12/30/2019 12:14 pm

## Compound #103: n-Butylbenzene



Original Peak Response = 62141

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



Manual Peak Response = 68254 M1

## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : l1961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: V11191230A13.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.678       | 605           | 615         | 627          | rBV      | 133521         | 259681        | 7.09%           | 0.398%        |
| 2         | 4.799       | 627           | 638         | 655          | rVB      | 84173          | 215680        | 5.89%           | 0.331%        |
| 3         | 5.176       | 700           | 710         | 734          | rBB      | 113275         | 216513        | 5.91%           | 0.332%        |
| 4         | 5.454       | 752           | 763         | 783          | rBV      | 341361         | 654252        | 17.87%          | 1.004%        |
| 5         | 7.106       | 1067          | 1078        | 1105         | rBV      | 467704         | 923270        | 25.22%          | 1.417%        |
| 6         | 8.915       | 1410          | 1423        | 1455         | rBV      | 434994         | 877394        | 23.96%          | 1.346%        |
| 7         | 10.325      | 1684          | 1692        | 1708         | rVB2     | 48572          | 129888        | 3.55%           | 0.199%        |
| 8         | 10.467      | 1708          | 1719        | 1730         | rBV      | 404388         | 807864        | 22.06%          | 1.240%        |
| 9         | 10.598      | 1738          | 1744        | 1752         | rVV3     | 59575          | 113755        | 3.11%           | 0.175%        |
| 10        | 10.671      | 1752          | 1758        | 1768         | rVB      | 302444         | 488718        | 13.35%          | 0.750%        |
| 11        | 11.059      | 1819          | 1832        | 1836         | rBV3     | 113724         | 253849        | 6.93%           | 0.390%        |
| 12        | 11.332      | 1872          | 1884        | 1894         | rVB3     | 347645         | 713077        | 19.47%          | 1.094%        |
| 13        | 11.510      | 1911          | 1918        | 1922         | rBV      | 111655         | 185491        | 5.07%           | 0.285%        |
| 14        | 11.589      | 1929          | 1933        | 1942         | rVB4     | 131095         | 248995        | 6.80%           | 0.382%        |
| 15        | 11.683      | 1942          | 1951        | 1957         | rBV5     | 128818         | 314109        | 8.58%           | 0.482%        |
| 16        | 11.746      | 1957          | 1963        | 1969         | rBV      | 593154         | 934278        | 25.52%          | 1.434%        |
| 17        | 11.814      | 1969          | 1976        | 1981         | rBV3     | 259145         | 522644        | 14.27%          | 0.802%        |
| 18        | 11.929      | 1992          | 1998        | 2000         | rBV4     | 83638          | 142167        | 3.88%           | 0.218%        |
| 19        | 11.977      | 2001          | 2007        | 2009         | rVV      | 264501         | 464798        | 12.69%          | 0.713%        |
| 20        | 12.008      | 2009          | 2013        | 2036         | rVB3     | 1054347        | 2594052       | 70.85%          | 3.980%        |
| 21        | 12.171      | 2037          | 2044        | 2048         | rBV3     | 136513         | 269215        | 7.35%           | 0.413%        |
| 22        | 12.249      | 2056          | 2059        | 2069         | rVB3     | 160445         | 303909        | 8.30%           | 0.466%        |
| 23        | 12.349      | 2069          | 2078        | 2086         | rBV2     | 276483         | 910722        | 24.87%          | 1.397%        |
| 24        | 12.417      | 2086          | 2091        | 2100         | rVB      | 370876         | 633622        | 17.30%          | 0.972%        |
| 25        | 12.490      | 2100          | 2105        | 2109         | rBV2     | 462115         | 729862        | 19.93%          | 1.120%        |
| 26        | 12.532      | 2110          | 2113        | 2118         | rVB3     | 284772         | 390282        | 10.66%          | 0.599%        |
| 27        | 12.580      | 2118          | 2122        | 2128         | rBV3     | 412822         | 763363        | 20.85%          | 1.171%        |
| 28        | 12.695      | 2138          | 2144        | 2148         | rBV2     | 723763         | 1067300       | 29.15%          | 1.638%        |

## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : l1961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 29 | 12.821 | 2162 | 2168 | 2172 | rVB  | 490759  | 675672  | 18.45% | 1.037% |
| 30 | 12.868 | 2172 | 2177 | 2182 | rBV  | 1005111 | 1522119 | 41.57% | 2.336% |
| 31 | 12.915 | 2183 | 2186 | 2190 | rVV2 | 350100  | 485746  | 13.27% | 0.745% |
| 32 | 12.957 | 2190 | 2194 | 2197 | rVV  | 413617  | 558763  | 15.26% | 0.857% |
| 33 | 12.983 | 2197 | 2199 | 2209 | rVB  | 217716  | 304704  | 8.32%  | 0.468% |
| 34 | 13.067 | 2209 | 2215 | 2222 | rBV4 | 1456382 | 2373591 | 64.82% | 3.642% |
| 35 | 13.125 | 2222 | 2226 | 2233 | rVV3 | 372420  | 653814  | 17.86% | 1.003% |
| 36 | 13.188 | 2233 | 2238 | 2242 | rVV2 | 512418  | 743340  | 20.30% | 1.141% |
| 37 | 13.235 | 2242 | 2247 | 2250 | rVV3 | 1270678 | 2130482 | 58.19% | 3.269% |
| 38 | 13.261 | 2250 | 2252 | 2256 | rVV  | 1536515 | 1794122 | 49.00% | 2.753% |
| 39 | 13.308 | 2257 | 2261 | 2266 | rVV3 | 779005  | 1293062 | 35.31% | 1.984% |
| 40 | 13.377 | 2266 | 2274 | 2279 | rVB2 | 356136  | 768538  | 20.99% | 1.179% |
| 41 | 13.466 | 2285 | 2291 | 2294 | rBV2 | 423213  | 640181  | 17.48% | 0.982% |
| 42 | 13.497 | 2294 | 2297 | 2304 | rVV  | 455638  | 670911  | 18.32% | 1.029% |
| 43 | 13.586 | 2304 | 2314 | 2324 | rVV8 | 1237613 | 3415753 | 93.29% | 5.241% |
| 44 | 13.665 | 2324 | 2329 | 2342 | rVV7 | 981333  | 2158924 | 58.96% | 3.313% |
| 45 | 13.759 | 2342 | 2347 | 2351 | rVV5 | 245678  | 363481  | 9.93%  | 0.558% |
| 46 | 13.822 | 2355 | 2359 | 2363 | rVV2 | 387197  | 599648  | 16.38% | 0.920% |
| 47 | 13.859 | 2364 | 2366 | 2372 | rVV3 | 307807  | 415599  | 11.35% | 0.638% |
| 48 | 13.911 | 2372 | 2376 | 2378 | rVV3 | 284880  | 410749  | 11.22% | 0.630% |
| 49 | 13.943 | 2378 | 2382 | 2400 | rVB4 | 1057738 | 2497398 | 68.21% | 3.832% |
| 50 | 14.058 | 2400 | 2404 | 2408 | rBV2 | 529235  | 681555  | 18.61% | 1.046% |
| 51 | 14.095 | 2408 | 2411 | 2420 | rVB2 | 586387  | 820833  | 22.42% | 1.260% |
| 52 | 14.194 | 2427 | 2430 | 2433 | rBV  | 208394  | 238296  | 6.51%  | 0.366% |
| 53 | 14.263 | 2437 | 2443 | 2449 | rVB4 | 1299726 | 2239605 | 61.17% | 3.436% |
| 54 | 14.362 | 2458 | 2462 | 2466 | rBV2 | 662934  | 963901  | 26.32% | 1.479% |
| 55 | 14.415 | 2466 | 2472 | 2479 | rVV4 | 587325  | 1523853 | 41.62% | 2.338% |
| 56 | 14.467 | 2479 | 2482 | 2485 | rVB3 | 253315  | 292734  | 7.99%  | 0.449% |
| 57 | 14.561 | 2495 | 2500 | 2504 | rBV3 | 851812  | 1357210 | 37.07% | 2.083% |
| 58 | 14.640 | 2511 | 2515 | 2519 | rVB5 | 228002  | 304782  | 8.32%  | 0.468% |
| 59 | 14.693 | 2519 | 2525 | 2532 | rVV5 | 583370  | 1198181 | 32.72% | 1.839% |
| 60 | 14.755 | 2533 | 2537 | 2550 | rVB8 | 485276  | 1212359 | 33.11% | 1.860% |

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : l1961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 61 | 14.881 | 2550 | 2561 | 2568 | rBV  | 2400223 | 3661551 | 100.00% | 5.618% |
| 62 | 14.949 | 2569 | 2574 | 2579 | rVV4 | 346863  | 709402  | 19.37%  | 1.089% |
| 63 | 15.012 | 2579 | 2586 | 2592 | rVV  | 1160857 | 1771219 | 48.37%  | 2.718% |
| 64 | 15.060 | 2592 | 2595 | 2600 | rVB5 | 117253  | 163813  | 4.47%   | 0.251% |
| 65 | 15.112 | 2600 | 2605 | 2617 | rBV6 | 170545  | 439165  | 11.99%  | 0.674% |
| 66 | 15.264 | 2625 | 2634 | 2644 | rVB3 | 404722  | 1060143 | 28.95%  | 1.627% |
| 67 | 15.343 | 2645 | 2649 | 2655 | rVB3 | 131758  | 214822  | 5.87%   | 0.330% |
| 68 | 15.437 | 2660 | 2667 | 2676 | rVB7 | 203132  | 623726  | 17.03%  | 0.957% |
| 69 | 15.500 | 2676 | 2679 | 2686 | rVB3 | 90198   | 125346  | 3.42%   | 0.192% |
| 70 | 15.579 | 2689 | 2694 | 2698 | rBV6 | 64086   | 114323  | 3.12%   | 0.175% |
| 71 | 15.626 | 2698 | 2703 | 2710 | rVB  | 452669  | 721677  | 19.71%  | 1.107% |
| 72 | 15.757 | 2722 | 2728 | 2737 | rVB  | 1083402 | 1588738 | 43.39%  | 2.438% |
| 73 | 15.878 | 2744 | 2751 | 2755 | rBV  | 817214  | 1315403 | 35.92%  | 2.018% |
| 74 | 15.914 | 2756 | 2758 | 2767 | rVB  | 460713  | 631623  | 17.25%  | 0.969% |
| 75 | 16.134 | 2795 | 2800 | 2812 | rVB  | 136148  | 261083  | 7.13%   | 0.401% |
| 76 | 16.265 | 2819 | 2825 | 2840 | rVB2 | 74237   | 180148  | 4.92%   | 0.276% |
| 77 | 16.606 | 2882 | 2890 | 2897 | rBV  | 80925   | 150328  | 4.11%   | 0.231% |

Sum of corrected areas: 65171166

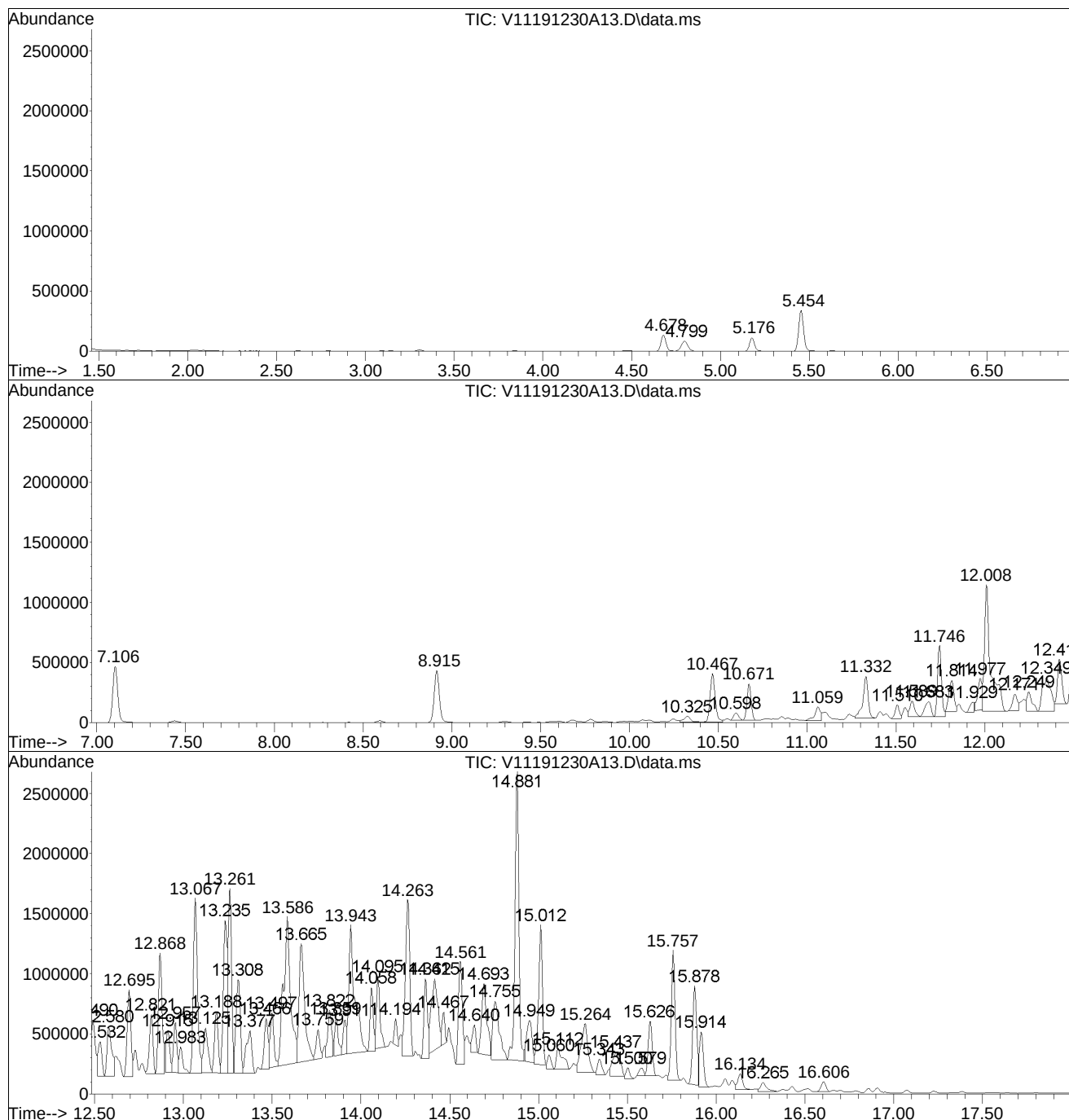


# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : 11961284-04D, 31H, 7.02, 5, 0.050, , a  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

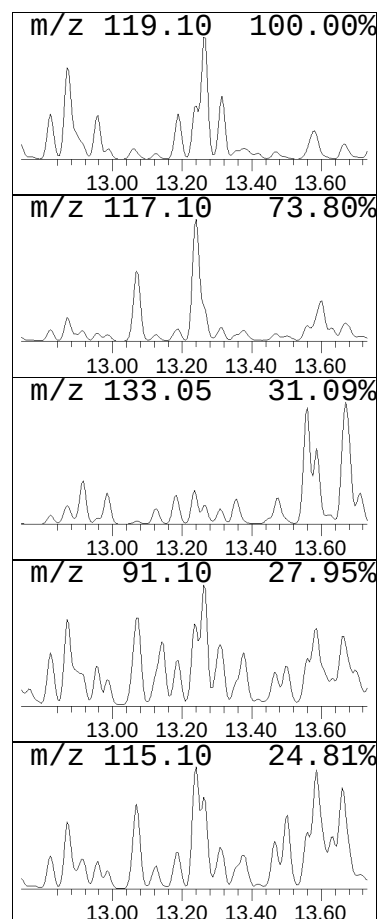
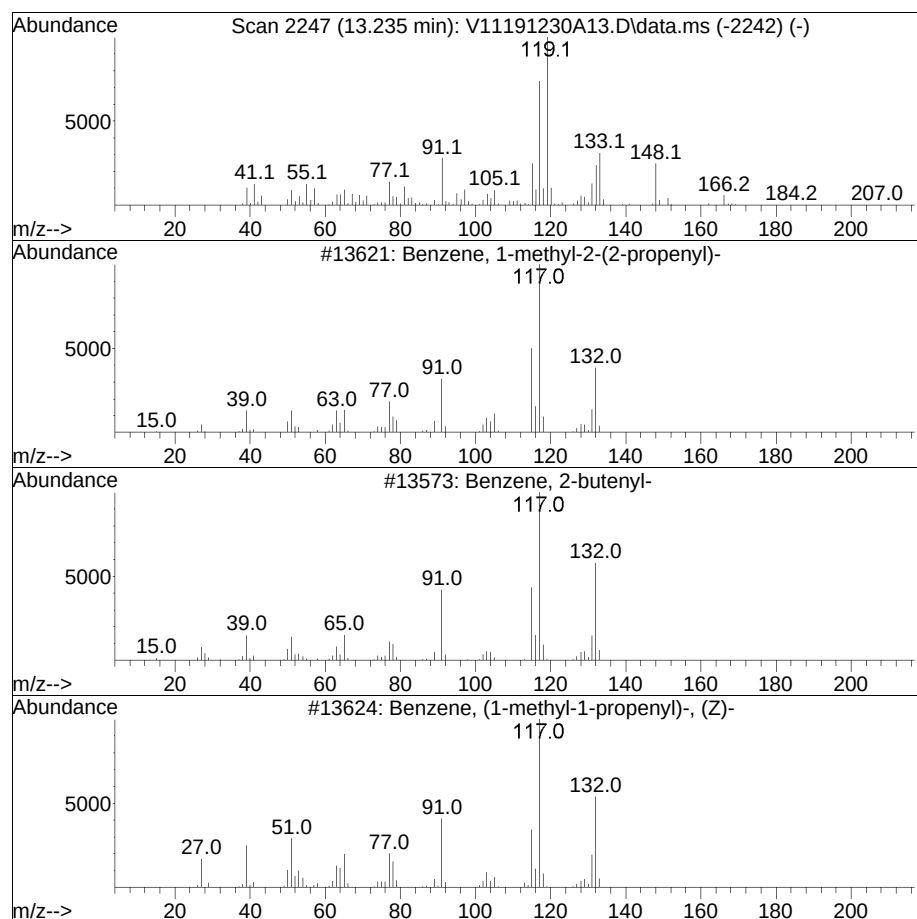
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 1 Unknown Benzene Concentration Rank 5

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.235 | 45.61 ug/L | 2130480 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | Benzene, 1-methyl-2-(2-propenyl)-   | 132          | C10H12 | 001587-04-8 | 89   |      |
| 2       | Benzene, 2-butenyl-                 | 132          | C10H12 | 001560-06-1 | 86   |      |
| 3       | Benzene, (1-methyl-1-propenyl)-,... | 132          | C10H12 | 000767-99-7 | 70   |      |
| 4       | Benzene, (1-methyl-1-propenyl)-,... | 132          | C10H12 | 000768-00-3 | 55   |      |
| 5       | Benzene, 2-ethenyl-1,3-dimethyl-    | 132          | C10H12 | 002039-90-9 | 55   |      |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : 11961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

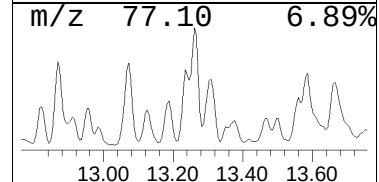
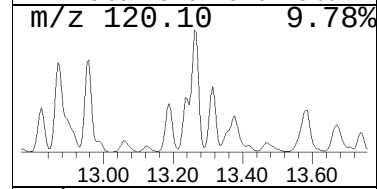
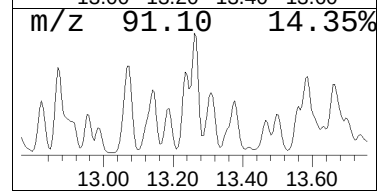
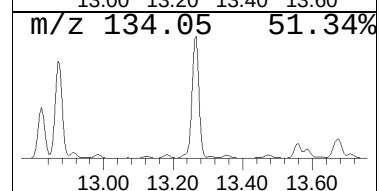
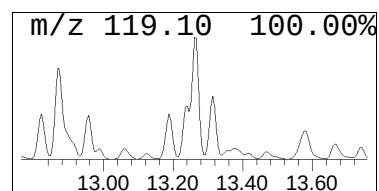
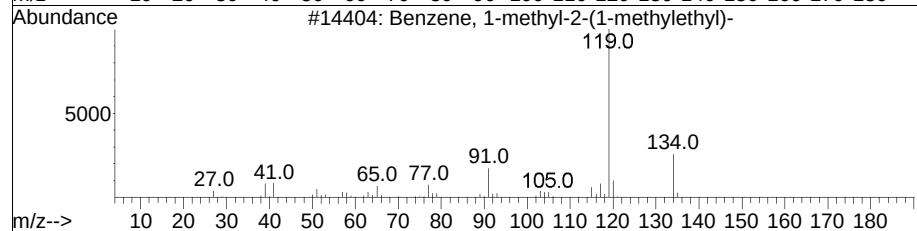
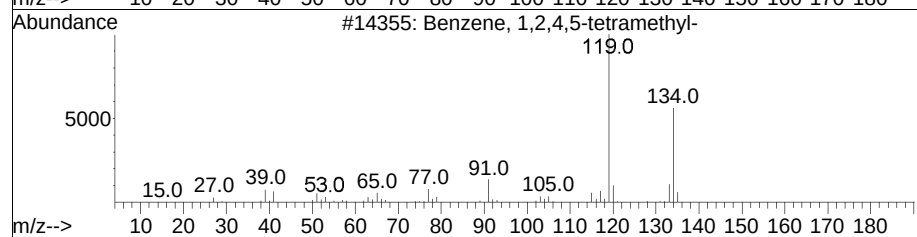
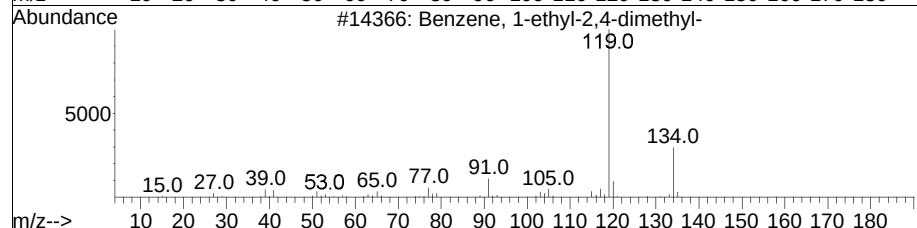
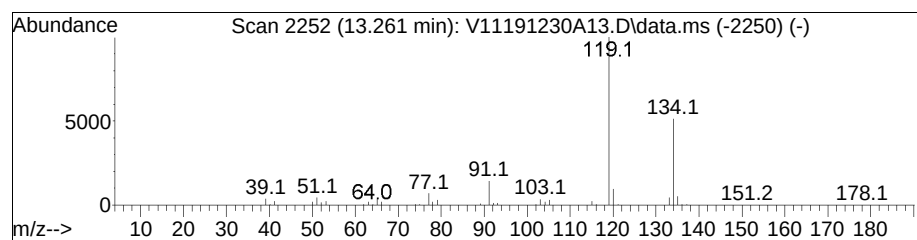
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 2 Unknown Benzene Concentration Rank 6

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.261 | 38.41 ug/L | 1794120 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-ethyl-2,4-dimethyl-       | 134 | C10H14  | 000874-41-9 | 91   |
| 2       |   | Benzene, 1,2,4,5-tetramethyl-        | 134 | C10H14  | 000095-93-2 | 91   |
| 3       |   | Benzene, 1-methyl-2-(1-methylethyl)- | 134 | C10H14  | 000527-84-4 | 91   |
| 4       |   | Benzene, 2-ethyl-1,4-dimethyl-       | 134 | C10H14  | 001758-88-9 | 91   |
| 5       |   | Benzene, 1,2,3,5-tetramethyl-        | 134 | C10H14  | 000527-53-7 | 91   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

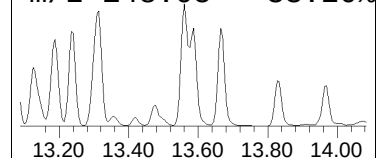
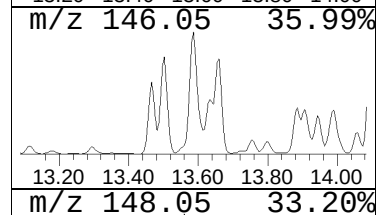
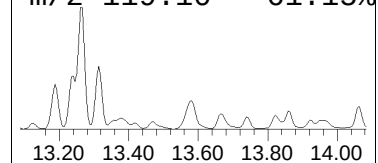
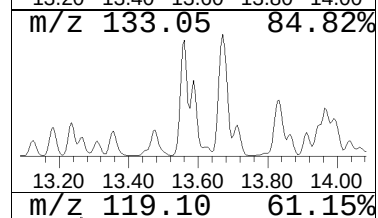
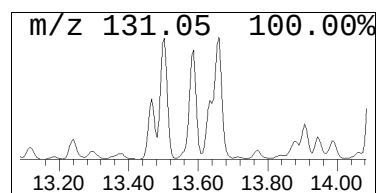
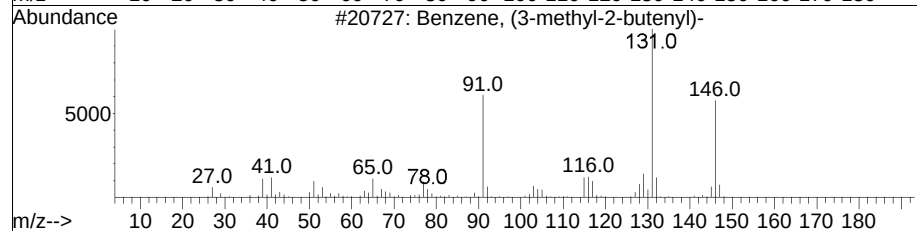
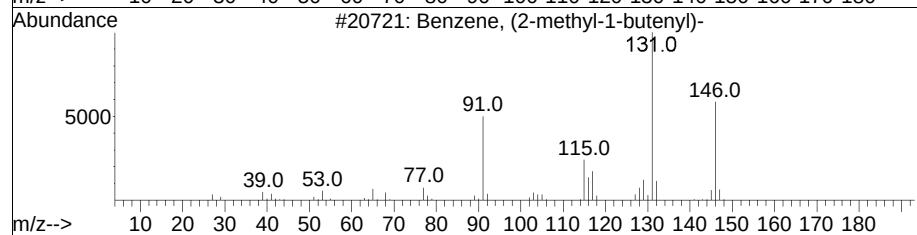
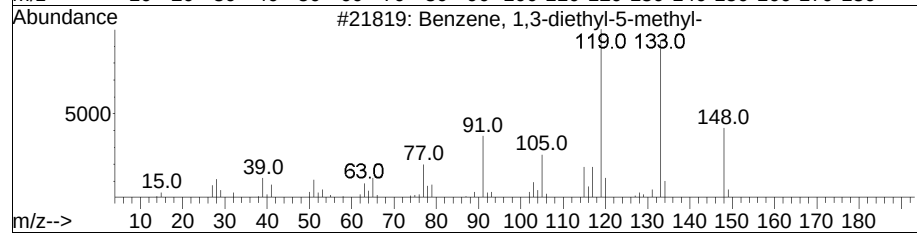
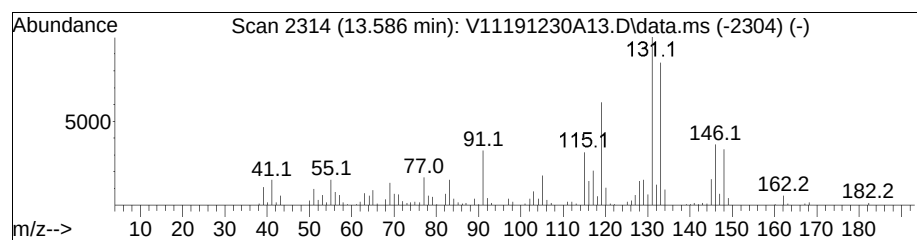
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 3 Unknown Benzene Concentration Rank 2

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.586 | 73.12 ug/L | 3415750 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1,3-diethyl-5-methyl-      | 148 | C11H16  | 002050-24-0 | 90   |
| 2       |   | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 89   |
| 3       |   | Benzene, (3-methyl-2-butenyl)-      | 146 | C11H14  | 004489-84-3 | 86   |
| 4       |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 80   |
| 5       |   | Benzene, (1-methyl-1-butenyl)-      | 146 | C11H14  | 053172-84-2 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : 11961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

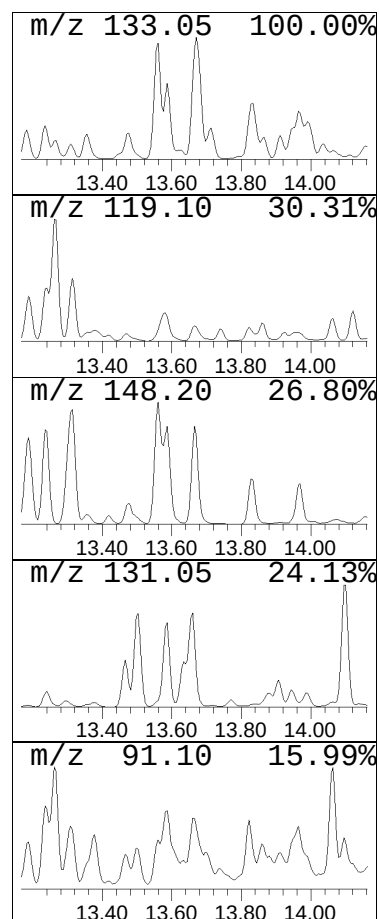
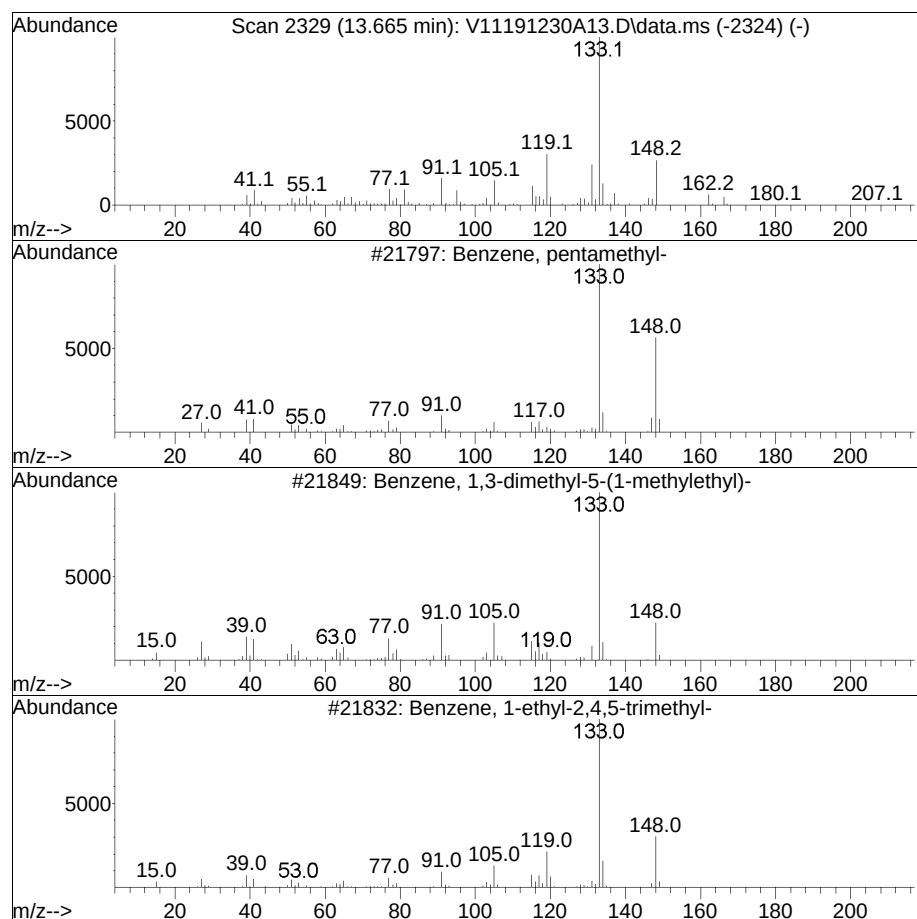
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 4 Unknown Aromatic Concentration Rank 4

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 13.665 | 46.22 ug/L | 2158920 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, pentamethyl-               | 148 | C11H16  | 000700-12-9 | 70   |
| 2       |   | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16  | 004706-90-5 | 58   |
| 3       |   | Benzene, 1-ethyl-2,4,5-trimethyl-   | 148 | C11H16  | 017851-27-3 | 58   |
| 4       |   | Benzene, 2,4-dimethyl-1-(1-methy... | 148 | C11H16  | 004706-89-2 | 52   |
| 5       |   | 4-tert-Butyltoluene                 | 148 | C11H16  | 000098-51-1 | 52   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

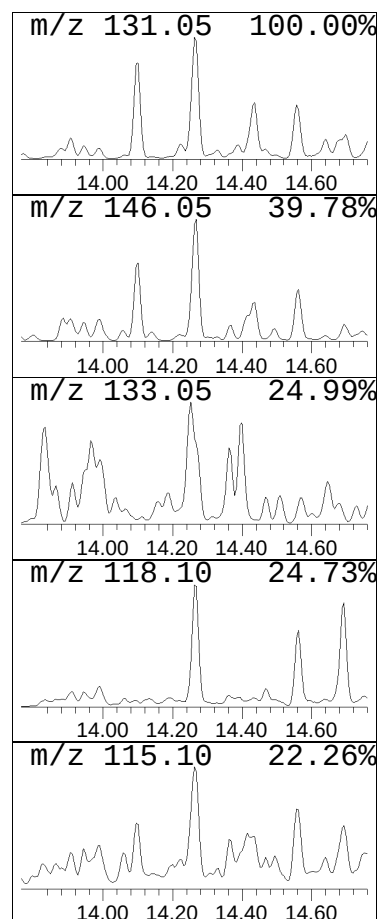
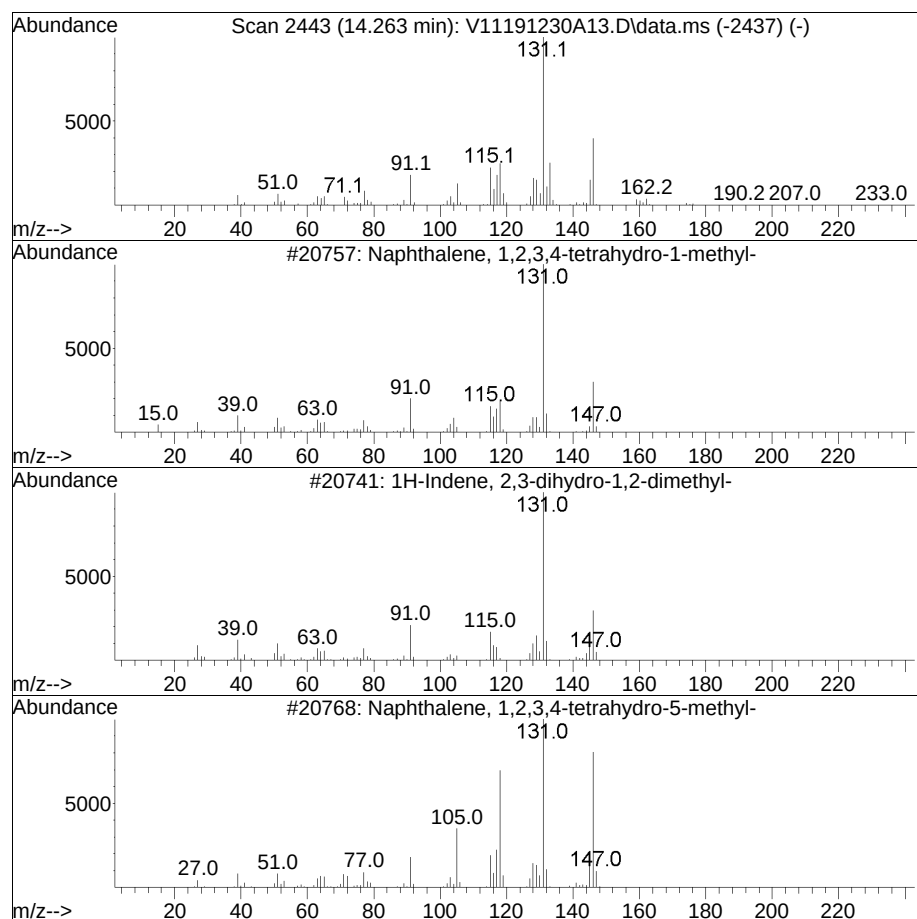
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 5 Unknown Naphthalene Concentration Rank 3

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.263 | 47.94 ug/L | 2239610 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 91   |
| 2       |   | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 81   |
| 3       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 81   |
| 4       |   | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 81   |
| 5       |   | Benzene, (1-methyl-1-butenyl)-      | 146 | C11H14  | 053172-84-2 | 76   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

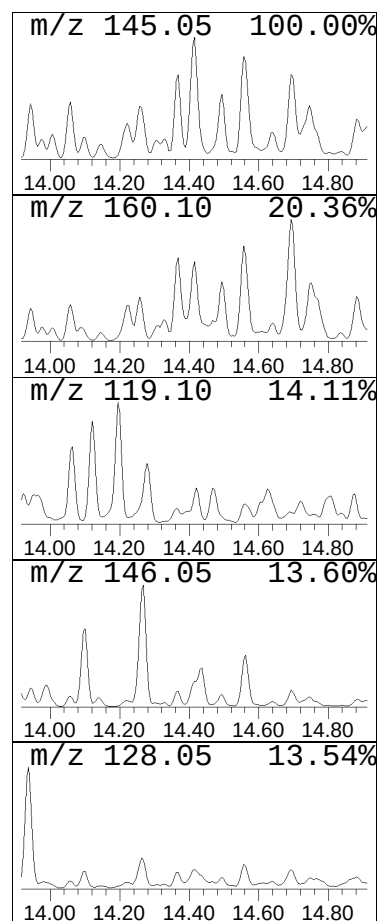
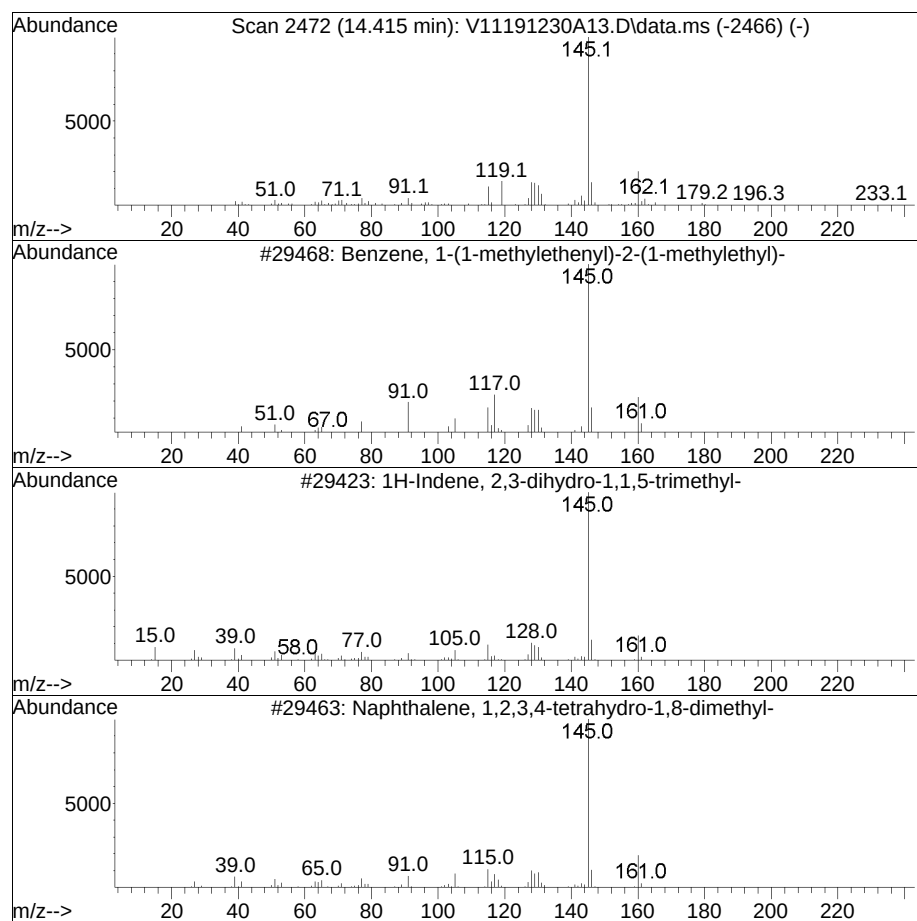
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 6 Unknown Aromatic Concentration Rank 9

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.415 | 32.62 ug/L | 1523850 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-(1-methylethenyl)-2-(... | 160 | C12H16  | 005557-93-7 | 90   |
| 2       |   | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160 | C12H16  | 040650-41-7 | 87   |
| 3       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 025419-33-4 | 87   |
| 4       |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 021564-91-0 | 86   |
| 5       |   | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16  | 002613-76-5 | 83   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

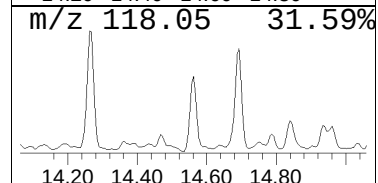
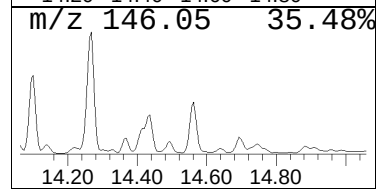
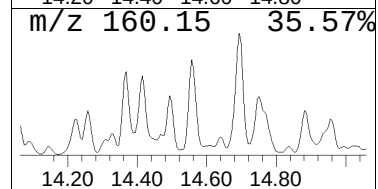
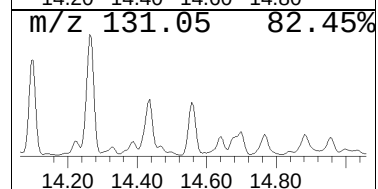
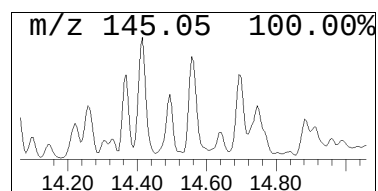
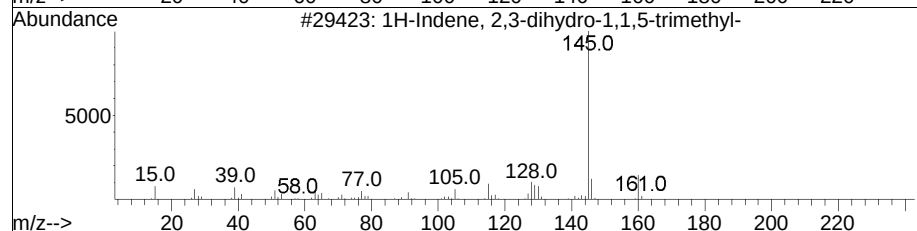
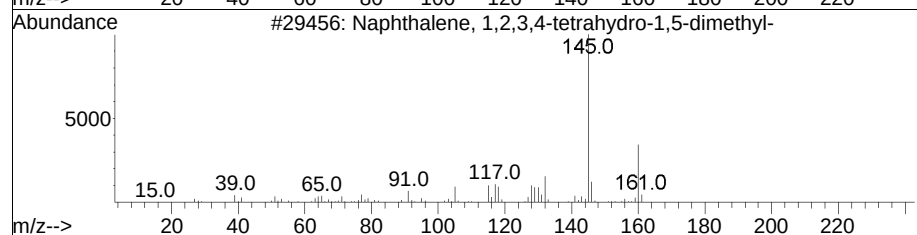
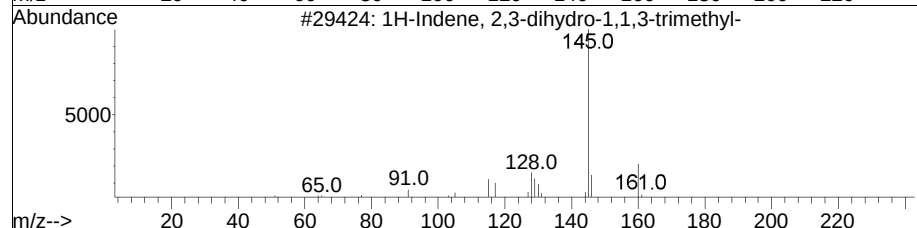
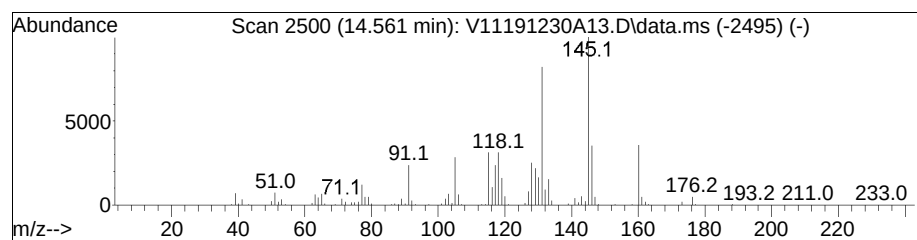
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 7 Unknown Aromatic Concentration Rank 10

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.562 | 29.05 ug/L | 1357210 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160          | C12H16 | 002613-76-5 | 55   |      |
| 2       | Naphthalene, 1,2,3,4-tetrahydro-... | 160          | C12H16 | 021564-91-0 | 55   |      |
| 3       | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160          | C12H16 | 040650-41-7 | 55   |      |
| 4       | 1H-Indene, 2,3-dihydro-1,5,7-tri... | 160          | C12H16 | 054340-88-4 | 50   |      |
| 5       | Benzene, 1-(1-methylethenyl)-2-(... | 160          | C12H16 | 005557-93-7 | 50   |      |





## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

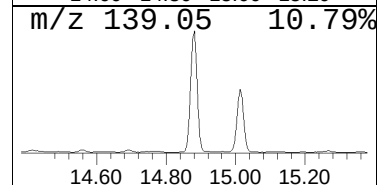
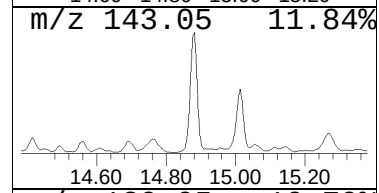
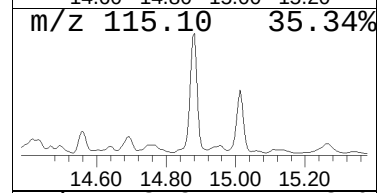
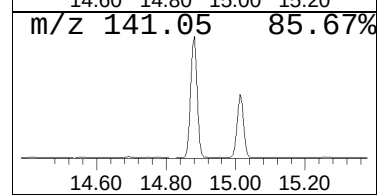
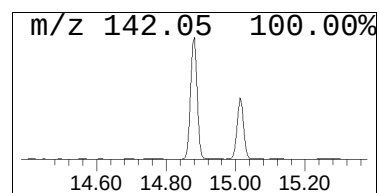
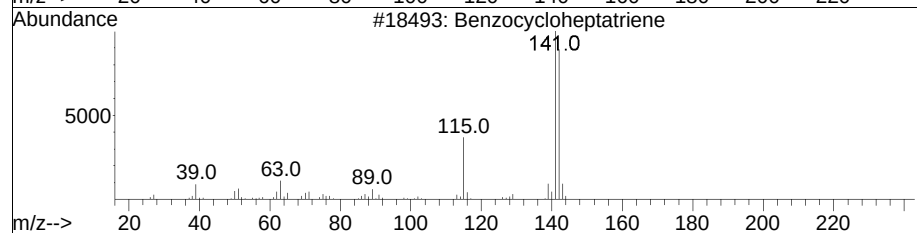
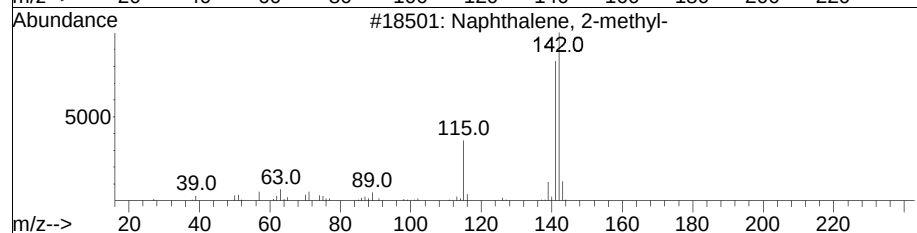
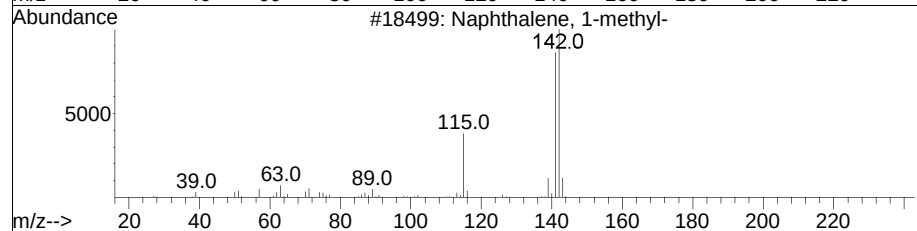
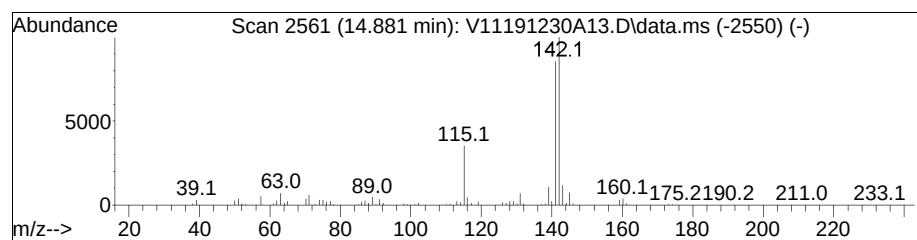
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 8 Unknown Aromatic Concentration Rank 1

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 14.881 | 78.38 ug/L | 3661550 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 90   |
| 4       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 90   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 59   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

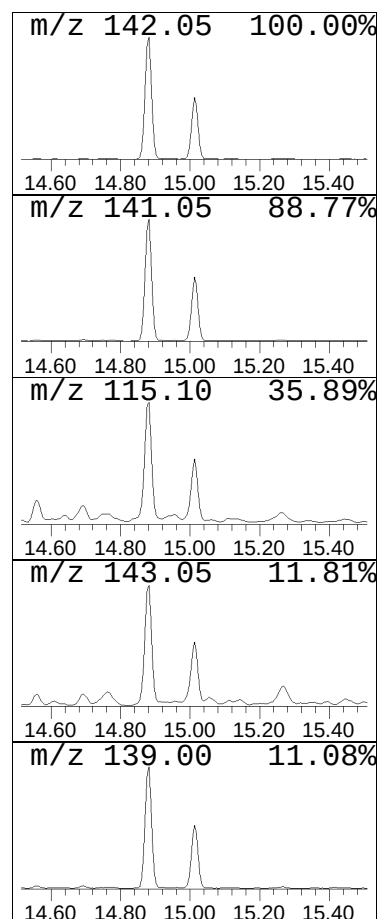
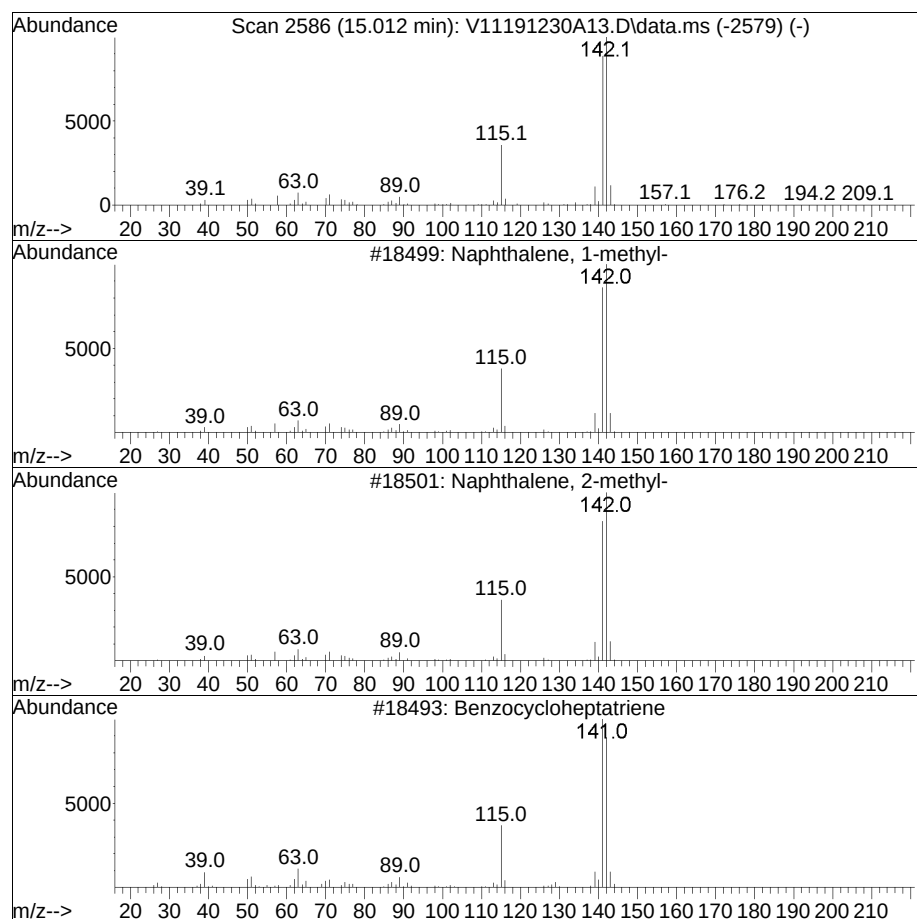
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 9 Unknown Aromatic Concentration Rank 7

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.012 | 37.92 ug/L | 1771220 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2       |   | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3       |   | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4       |   | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 5       |   | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 64   |



## Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A13.D  
Acq On : 30 Dec 2019 10:39 am  
Operator : VOA111:JC  
Sample : l1961284-04D,31H,7.02,5,0.050,,a  
Misc : WG1325794,ICAL16383  
ALS Vial : 13 Sample Multiplier: 1

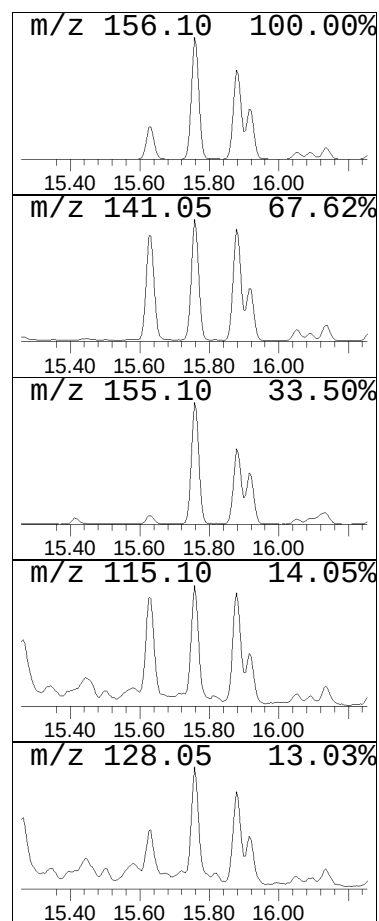
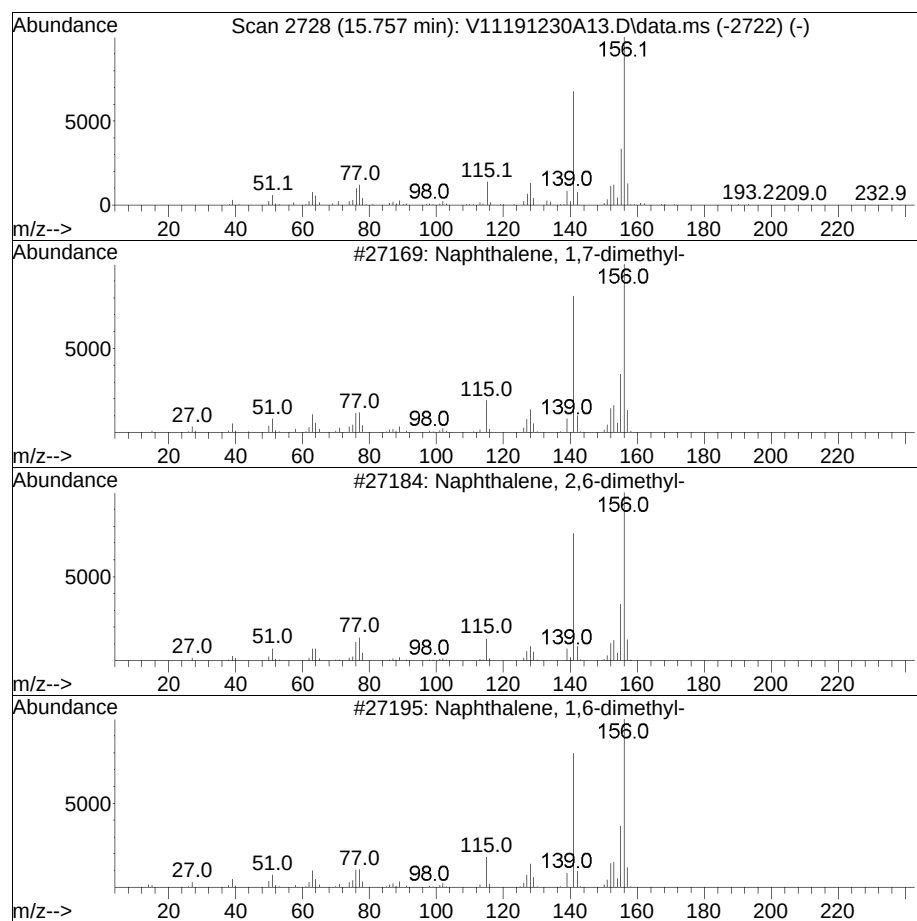
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 10 Unknown Naphthalene Concentration Rank 8

| R.T.   | EstConc    | Area    | Relative to ISTD       | R.T.   |
|--------|------------|---------|------------------------|--------|
| 15.757 | 34.01 ug/L | 1588740 | 1,4-Dichlorobenzene-d4 | 11.746 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 1,7-dimethyl- | 156          | C12H12 | 000575-37-1 | 98   |      |
| 2       | Naphthalene, 2,6-dimethyl- | 156          | C12H12 | 000581-42-0 | 98   |      |
| 3       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 97   |      |
| 4       | Naphthalene, 1,5-dimethyl- | 156          | C12H12 | 000571-61-9 | 97   |      |
| 5       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 97   |      |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A13.D  
 Acq On : 30 Dec 2019 10:39 am  
 Operator : VOA111:JC  
 Sample : l1961284-04D,31H,7.02,5,0.050,,a  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 13 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name |            | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|------------------|------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                  |            |        |         |       |          | #                     | RT     | Resp   | Conc |
| Unknown          | Benzene    | 13.235 | 45.6    | ug/L  | 2130480  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Benzene    | 13.261 | 38.4    | ug/L  | 1794120  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Benzene    | 13.586 | 73.1    | ug/L  | 3415750  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Aromatic   | 13.665 | 46.2    | ug/L  | 2158920  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Naphtha... | 14.263 | 47.9    | ug/L  | 2239610  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Aromatic   | 14.415 | 32.6    | ug/L  | 1523850  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Aromatic   | 14.562 | 29.1    | ug/L  | 1357210  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Aromatic   | 14.881 | 78.4    | ug/L  | 3661550  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Aromatic   | 15.012 | 37.9    | ug/L  | 1771220  | 3                     | 11.746 | 934278 | 20.0 |
| Unknown          | Naphtha... | 15.757 | 34.0    | ug/L  | 1588740  | 3                     | 11.746 | 934278 | 20.0 |

## **Volatiles Standards Data**

# **Initial Calibration**

# Initial Calibration Summary

## Form 6

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : CHARLIE  
 Calibration dates : 12/11/19 18:15 12/11/19 21:55

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16358

#### Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

| Compound                        | L1             | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg   | %RSD   |
|---------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1) I Fluorobenzene              | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |
| 2) TP Dichlorodifluoromethane   | 0.185          | 0.222 | 0.187 | 0.186 | 0.190 | 0.192 | 0.181 |       | 0.199 | 0.193 | 6.68   |
| 3) TP Chloromethane             | 0.480          | 0.394 | 0.344 | 0.342 | 0.375 | 0.342 | 0.330 |       | 0.407 | 0.377 | 13.28  |
| 4) TC Vinyl chloride            | 0.351          | 0.390 | 0.355 | 0.355 | 0.360 | 0.358 | 0.342 |       | 0.352 | 0.358 | 3.96   |
| 5) TP Bromomethane              | 0.205          | 0.168 | 0.141 | 0.128 | 0.124 | 0.117 | 0.115 |       | 0.177 | *L    | 0.9977 |
| 6) TP Chloroethane              | 0.204          | 0.206 | 0.194 | 0.182 |       | 0.134 |       |       | 0.186 | 0.184 | 14.40  |
| 7) TP Trichlorofluoromethane    | 0.324          | 0.418 | 0.374 | 0.368 | 0.279 | 0.346 | 0.302 |       | 0.389 | 0.350 | 13.31  |
| 8) TP Ethyl ether               | 0.183          | 0.197 | 0.189 | 0.185 | 0.141 | 0.175 | 0.150 |       | 0.174 | 0.174 | 11.05  |
| 10) TC 1,1-Dichloroethene       | 0.231          | 0.286 | 0.255 | 0.254 | 0.264 | 0.262 | 0.252 |       | 0.252 | 0.257 | 5.91   |
| 11) TP Carbon disulfide         | 0.923          | 0.879 | 0.794 | 0.807 | 0.852 | 0.834 | 0.803 |       | 0.854 | 0.843 | 5.16   |
| 12) TP Freon-113                | 0.233          | 0.304 | 0.263 | 0.263 | 0.266 | 0.272 | 0.261 |       | 0.259 | 0.265 | 7.30   |
| 14) TP Acrolein                 |                | 0.076 | 0.080 | 0.080 | 0.088 | 0.084 | 0.086 |       | 0.062 | 0.080 | 11.01  |
| 15) TP Methylene chloride       |                | 0.407 | 0.360 | 0.360 | 0.353 | 0.354 | 0.338 |       | 0.441 | 0.373 | 9.88   |
| 17) TP Acetone                  |                | 0.167 | 0.138 | 0.125 | 0.131 | 0.128 | 0.128 |       |       | 0.136 | 11.48  |
| 18) TP trans-1,2-Dichloroethene | 0.306          | 0.327 | 0.314 | 0.315 | 0.329 | 0.319 | 0.307 |       | 0.299 | 0.314 | 3.31   |
| 19) TP Methyl acetate           |                | 0.377 | 0.366 | 0.362 | 0.382 | 0.378 | 0.383 |       | 0.355 | 0.372 | 2.88   |
| 20) TP Methyl tert-butyl ether  | 1.044          | 1.093 | 1.068 | 1.084 | 1.111 | 1.100 | 1.072 |       | 0.975 | 1.068 | 4.03   |
| 21) TP tert-Butyl alcohol       | 0.062          | 0.065 | 0.065 | 0.064 | 0.074 | 0.069 | 0.072 |       | 0.062 | 0.067 | 6.74   |
| 22) TP Diisopropyl ether        | 1.628          | 1.733 | 1.692 | 1.746 | 1.749 | 1.762 | 1.695 |       | 1.544 | 1.694 | 4.40   |
| 23) TP 1,1-Dichloroethane       | 0.740          | 0.796 | 0.753 | 0.759 | 0.768 | 0.759 | 0.730 |       | 0.727 | 0.754 | 2.96   |
| 24) TP Halothane                | 0.233          | 0.266 | 0.247 | 0.246 | 0.263 | 0.256 | 0.248 |       | 0.226 | 0.248 | 5.50   |
| 25) TP Acrylonitrile            |                | 0.149 | 0.162 | 0.167 | 0.182 | 0.175 | 0.177 |       | 0.114 | 0.161 | 14.59  |
| 26) TP Ethyl tert-butyl ether   | 1.460          | 1.564 | 1.562 | 1.605 | 1.625 | 1.617 | 1.571 |       | 1.416 | 1.553 | 4.87   |
| 27) TP Vinyl acetate            |                | 1.052 | 1.154 | 1.201 | 1.208 | 1.227 | 1.200 |       | 0.807 | 1.121 | 13.44  |
| 28) TP cis-1,2-Dichloroethene   | 0.347          | 0.392 | 0.382 | 0.379 | 0.385 | 0.382 | 0.365 |       | 0.351 | 0.373 | 4.47   |
| 29) TP 2,2-Dichloropropane      | 0.444          | 0.509 | 0.478 | 0.491 | 0.497 | 0.497 | 0.476 |       | 0.459 | 0.481 | 4.50   |
| 30) TP Bromochloromethane       | 0.142          | 0.188 | 0.186 | 0.186 | 0.181 | 0.186 | 0.175 |       | 0.164 | 0.176 | 8.91   |
| 31) TP Cyclohexane              | 0.584          | 0.740 | 0.682 | 0.695 | 0.721 | 0.718 | 0.698 |       | 0.666 | 0.688 | 6.98   |
| 32) TC Chloroform               | 0.644          | 0.690 | 0.643 | 0.650 | 0.635 | 0.642 | 0.609 |       | 0.623 | 0.642 | 3.65   |
| 33) TP Ethyl acetate            | 0.446          | 0.533 | 0.559 | 0.564 | 0.582 | 0.580 | 0.581 |       | 0.471 | 0.539 | 9.81   |
| 34) TP Carbon tetrachloride     | 0.404          | 0.489 | 0.455 | 0.454 | 0.465 | 0.466 | 0.446 |       | 0.438 | 0.452 | 5.48   |
| 35) TP Tetrahydrofuran          | 0.149          | 0.188 | 0.172 | 0.163 | 0.171 | 0.171 | 0.171 |       | 0.163 | 0.169 | 6.64   |
| 36) S Dibromofluoromethane      | 0.290          | 0.288 | 0.284 | 0.282 | 0.282 | 0.283 | 0.285 | 0.278 | 0.281 | 0.284 | 1.33   |
| 37) TP 1,1,1-Trichloroethane    | 0.484          | 0.532 | 0.515 | 0.512 | 0.515 | 0.517 | 0.495 | 0.571 | 0.503 | 0.516 | 4.84   |
| 39) TP 2-Butanone               |                | 0.254 | 0.221 | 0.234 | 0.254 | 0.246 | 0.251 |       | 0.253 | 0.245 | 5.18   |
| 40) TP 1,1-Dichloropropene      | 0.409          | 0.465 | 0.440 | 0.445 | 0.457 | 0.453 | 0.434 | 0.461 | 0.425 | 0.443 | 4.13   |



# Initial Calibration Summary

## Form 6

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : CHARLIE  
 Calibration dates : 12/11/19 18:15 12/11/19 21:55

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16358

#### Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

| Compound                         | L1             | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg    | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 41) TP Benzene                   | 1.347          | 1.431 | 1.353 | 1.368 | 1.389 | 1.379 | 1.318 | 1.480 | 1.310 | 1.375  | 3.93   |
| 42) TP tert-Amyl methyl ether    | 1.008          | 1.132 | 1.122 | 1.153 | 1.197 | 1.174 | 1.148 |       | 1.001 | 1.117  | 6.54   |
| 43) S 1,2-Dichloroethane-d4      | 0.344          | 0.345 | 0.331 | 0.328 | 0.340 | 0.336 | 0.346 | 0.337 | 0.340 | 0.339  | 1.79   |
| 44) TP 1,2-Dichloroethane        | 0.640          | 0.675 | 0.638 | 0.640 | 0.614 | 0.632 | 0.601 |       | 0.607 | 0.631  | 3.74   |
| 47) TP Methyl cyclohexane        | 0.454          | 0.554 | 0.518 | 0.528 | 0.548 | 0.549 | 0.528 |       | 0.500 | 0.523  | 6.30   |
| 48) TP Trichloroethene           | 0.318          | 0.356 | 0.349 | 0.345 | 0.350 | 0.350 | 0.335 | 0.335 | 0.321 | 0.340  | 4.01   |
| 50) TP Dibromomethane            | 0.215          | 0.244 | 0.241 | 0.246 | 0.252 | 0.250 | 0.243 |       | 0.194 | 0.236  | 8.62   |
| 51) TC 1,2-Dichloropropane       | 0.414          | 0.459 | 0.459 | 0.465 | 0.473 | 0.467 | 0.449 |       | 0.405 | 0.449  | 5.66   |
| 53) TP 2-Chloroethyl vinyl ether |                | 0.210 | 0.256 | 0.268 | 0.279 | 0.276 | 0.271 |       |       | 0.260  | 9.97   |
| 54) TP Bromodichloromethane      | 0.466          | 0.527 | 0.529 | 0.535 | 0.542 | 0.539 | 0.521 | 0.470 | 0.475 | 0.512  | 6.16   |
| 57) TP 1,4-Dioxane               |                | 0.003 | 0.004 | 0.004 | 0.005 | 0.004 | 0.005 |       | 0.003 | 0.004# | 17.52  |
| 58) TP cis-1,3-Dichloropropene   | 0.463          | 0.589 | 0.622 | 0.653 | 0.668 | 0.661 | 0.638 | 0.441 | 0.498 | *L     | 0.9995 |
| 59) I Chlorobenzene-d5           | -----ISTD----- |       |       |       |       |       |       |       |       |        |        |
| 60) S Toluene-d8                 | 1.379          | 1.380 | 1.367 | 1.350 | 1.350 | 1.356 | 1.353 | 1.380 | 1.380 | 1.366  | 1.02   |
| 61) TC Toluene                   | 1.149          | 1.233 | 1.162 | 1.164 | 1.189 | 1.174 | 1.124 |       | 1.134 | 1.166  | 2.94   |
| 62) TP 4-Methyl-2-pentanone      |                | 0.254 | 0.279 | 0.284 | 0.305 | 0.298 | 0.299 |       | 0.216 | 0.276  | 11.45  |
| 63) TP Tetrachloroethene         | 0.413          | 0.480 | 0.453 | 0.452 | 0.461 | 0.452 | 0.440 | 0.449 | 0.434 | 0.448  | 4.13   |
| 65) TP trans-1,3-Dichloropropene | 0.540          | 0.738 | 0.793 | 0.816 | 0.838 | 0.834 | 0.807 |       | 0.598 | *L     | 0.9997 |
| 67) TP Ethyl methacrylate        |                | 0.577 | 0.697 | 0.722 | 0.761 | 0.750 | 0.740 |       |       | 0.708  | 9.58   |
| 68) TP 1,1,2-Trichloroethane     | 0.348          | 0.400 | 0.401 | 0.402 | 0.396 | 0.401 | 0.386 |       | 0.373 | 0.388  | 4.93   |
| 69) TP Chlorodibromomethane      | 0.429          | 0.542 | 0.558 | 0.569 | 0.588 | 0.583 | 0.563 | 0.438 | 0.453 | 0.525  | 12.44  |
| 70) TP 1,3-Dichloropropane       | 0.702          | 0.863 | 0.834 | 0.835 | 0.826 | 0.835 | 0.800 |       | 0.732 | 0.803  | 7.02   |
| 71) TP 1,2-Dibromoethane         | 0.358          | 0.479 | 0.481 | 0.478 | 0.484 | 0.487 | 0.469 |       | 0.382 | 0.452  | 11.32  |
| 72) TP 2-Hexanone                |                | 0.441 | 0.504 | 0.508 | 0.546 | 0.543 | 0.546 |       | 0.350 | 0.491  | 14.79  |
| 73) TP Chlorobenzene             | 1.311          | 1.461 | 1.380 | 1.382 | 1.375 | 1.371 | 1.307 | 1.455 | 1.315 | 1.373  | 4.16   |
| 74) TC Ethylbenzene              | 2.308          | 2.328 | 2.265 | 2.253 | 2.258 | 2.257 | 2.153 |       | 2.214 | 2.255  | 2.40   |
| 75) TP 1,1,1,2-Tetrachloroethane | 0.437          | 0.514 | 0.512 | 0.518 | 0.516 | 0.518 | 0.493 | 0.425 | 0.458 | 0.488  | 7.71   |
| 76) TP p/m Xylene                | 0.784          | 0.895 | 0.882 | 0.875 | 0.855 | 0.882 | 0.836 | 0.809 | 0.804 | 0.847  | 4.75   |
| 77) TP o Xylene                  | 0.756          | 0.879 | 0.868 | 0.873 | 0.834 | 0.873 | 0.825 | 0.754 | 0.788 | 0.828  | 6.13   |
| 78) TP Styrene                   | 1.214          | 1.445 | 1.469 | 1.513 | 1.423 | 1.525 | 1.441 | 1.199 | 1.240 | 1.385  | 9.42   |
| 79) I 1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |        |        |
| 80) TP Bromoform                 | 0.472          | 0.625 | 0.681 | 0.708 | 0.736 | 0.717 | 0.713 |       | 0.544 | 0.650  | 14.67  |
| 82) TP Isopropylbenzene          | 3.747          | 4.168 | 4.151 | 4.111 | 4.115 | 4.056 | 3.908 |       | 3.882 | 4.017  | 3.81   |
| 83) S 4-Bromofluorobenzene       | 1.073          | 1.049 | 1.042 | 1.028 | 1.010 | 0.998 | 1.020 | 1.065 | 1.063 | 1.039  | 2.53   |
| 84) TP Bromobenzene              | 0.984          | 1.130 | 1.108 | 1.085 | 1.093 | 1.080 | 1.038 |       | 1.025 | 1.068  | 4.51   |
| 85) TP n-Propylbenzene           | 4.886          | 5.275 | 5.058 | 5.002 | 4.917 | 4.931 | 4.753 |       | 4.878 | 4.963  | 3.13   |





# Initial Calibration Summary

## Form 6

### Volatiles

**Client** : LaBella Associates, P.C. **Lab Number** : L1961284  
**Project Name** : FORMER WOLLENSACK OPTICAL **Project Number** : 2182207  
**Instrument ID** : CHARLIE **Ical Ref** : ICAL16358  
**Calibration dates** : 12/11/19 18:15 12/11/19 21:55

#### Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

| Compound                          | L1    | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg   | %RSD  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 86) TP 1,4-Dichlorobutane         | 2.030 | 2.229 | 2.206 | 2.172 | 2.120 | 2.148 | 2.097 |       | 2.043 | 2.131 | 3.39  |
| 87) TP 1,1,2,2-Tetrachloroethane  | 1.189 | 1.318 | 1.288 | 1.264 | 1.254 | 1.248 | 1.229 | 1.194 | 1.209 | 1.244 | 3.47  |
| 88) TP 4-Ethyltoluene             | 4.184 | 4.455 | 4.376 | 4.366 | 4.308 | 4.291 | 4.117 |       | 4.148 | 4.281 | 2.81  |
| 89) TP 2-Chlorotoluene            | 3.553 | 3.297 | 3.124 | 3.066 | 3.041 | 3.032 | 2.895 |       | 3.087 | 3.137 | 6.43  |
| 90) TP 1,3,5-Trimethylbenzene     | 3.410 | 3.672 | 3.654 | 3.588 | 3.465 | 3.539 | 3.398 |       | 3.453 | 3.522 | 3.04  |
| 91) TP 1,2,3-Trichloropropane     | 0.989 | 1.085 | 1.026 | 1.005 | 0.979 | 1.003 | 0.968 |       | 0.980 | 1.004 | 3.72  |
| 92) TP trans-1,4-Dichloro-2-b...  |       | 0.419 | 0.426 | 0.460 | 0.475 | 0.481 | 0.463 |       | 0.338 | 0.437 | 11.33 |
| 93) TP 4-Chlorotoluene            | 3.257 | 3.470 | 3.246 | 3.245 | 3.240 | 3.183 | 3.078 |       | 3.204 | 3.240 | 3.38  |
| 94) TP tert-Butylbenzene          | 2.736 | 3.012 | 2.914 | 2.944 | 2.884 | 2.923 | 2.802 |       | 2.798 | 2.877 | 3.17  |
| 97) TP 1,2,4-Trimethylbenzene     | 3.264 | 3.631 | 3.647 | 3.665 | 3.605 | 3.603 | 3.443 |       | 3.372 | 3.529 | 4.23  |
| 98) TP sec-Butylbenzene           | 4.210 | 4.685 | 4.480 | 4.463 | 4.367 | 4.419 | 4.229 |       | 4.320 | 4.397 | 3.49  |
| 99) TP p-Isopropyltoluene         | 3.490 | 3.837 | 3.800 | 3.837 | 3.717 | 3.764 | 3.610 |       | 3.587 | 3.705 | 3.48  |
| 100) TP 1,3-Dichlorobenzene       | 2.036 | 2.126 | 2.094 | 2.111 | 2.078 | 2.076 | 1.991 |       | 2.047 | 2.070 | 2.12  |
| 101) TP 1,4-Dichlorobenzene       | 2.305 | 2.305 | 2.192 | 2.172 | 2.096 | 2.115 | 2.024 |       | 2.152 | 2.170 | 4.50  |
| 102) TP p-Diethylbenzene          | 2.129 | 2.357 | 2.347 | 2.400 | 2.339 | 2.365 | 2.277 |       | 2.152 | 2.296 | 4.44  |
| 103) TP n-Butylbenzene            | 3.514 | 3.813 | 3.659 | 3.655 | 3.511 | 3.600 | 3.430 |       | 3.510 | 3.586 | 3.38  |
| 104) TP 1,2-Dichlorobenzene       | 1.996 | 2.078 | 2.031 | 2.041 | 2.004 | 2.009 | 1.935 |       | 1.920 | 2.002 | 2.62  |
| 105) TP 1,2,4,5-Tetramethylben... | 3.573 | 3.839 | 3.924 | 3.969 | 3.896 | 3.957 | 3.796 |       | 3.499 | 3.807 | 4.67  |
| 106) TP 1,2-Dibromo-3-chloropr... |       | 0.169 | 0.194 | 0.199 | 0.226 | 0.214 | 0.216 |       | 0.157 | 0.196 | 12.96 |
| 107) TP 1,3,5-Trichlorobenzene    | 1.502 | 1.557 | 1.511 | 1.533 | 1.509 | 1.519 | 1.456 |       | 1.460 | 1.506 | 2.27  |
| 108) TP Hexachlorobutadiene       | 0.645 | 0.632 | 0.592 | 0.608 | 0.620 | 0.602 | 0.583 |       | 0.602 | 0.611 | 3.37  |
| 109) TP 1,2,4-Trichlorobenzene    | 1.392 | 1.428 | 1.388 | 1.399 | 1.436 | 1.391 | 1.359 |       | 1.325 | 1.390 | 2.56  |
| 110) TP Naphthalene               | 3.700 | 3.599 | 3.655 | 3.657 | 3.877 | 3.749 | 3.718 |       | 3.363 | 3.665 | 4.02  |
| 111) TP 1,2,3-Trichlorobenzene    | 1.459 | 1.398 | 1.309 | 1.318 | 1.367 | 1.321 | 1.294 |       | 1.318 | 1.348 | 4.17  |



# Initial Calibration Summary

## Form 6

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Calibration dates : 12/20/19 04:12 12/20/19 07:34

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16383

#### Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
 L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

| Compound                        | L1             | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0    | Avg    | %RSD   |
|---------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 1) I Fluorobenzene              | -----ISTD----- |       |       |       |       |       |       |       |       |        |        |
| 2) TP Dichlorodifluoromethane   | 0.221          | 0.249 | 0.219 | 0.224 | 0.247 | 0.231 | 0.229 | 0.237 |       | 0.232  | 4.86   |
| 3) TP Chloromethane             | 0.340          | 0.350 | 0.298 | 0.306 | 0.359 | 0.307 | 0.302 | 0.312 |       | 0.322  | 7.45   |
| 4) TC Vinyl chloride            | 0.307          | 0.333 | 0.279 | 0.286 | 0.326 | 0.284 | 0.271 | 0.268 |       | 0.294  | 8.48   |
| 5) TP Bromomethane              |                | 0.239 | 0.177 | 0.171 | 0.249 | 0.162 | 0.152 | 0.157 |       | *L     | 0.9989 |
| 6) TP Chloroethane              | 0.187          | 0.204 | 0.166 | 0.166 | 0.204 | 0.154 | 0.128 |       |       | 0.173  | 16.07  |
| 7) TP Trichlorofluoromethane    | 0.354          | 0.388 | 0.329 | 0.336 | 0.381 | 0.340 | 0.334 | 0.334 |       | 0.349  | 6.57   |
| 8) TP Ethyl ether               | 0.139          | 0.154 | 0.134 | 0.145 | 0.150 | 0.145 | 0.143 | 0.143 |       | 0.144  | 4.15   |
| 10) TP 1,1-Dichloroethene       | 0.198          | 0.218 | 0.193 | 0.196 | 0.218 | 0.201 | 0.199 | 0.206 |       | 0.204  | 4.68   |
| 11) TP Carbon disulfide         | 1.132          | 0.904 | 0.723 | 0.733 | 1.008 | 0.736 | 0.724 | 0.734 |       | 0.837  | 19.04  |
| 12) TP Freon-113                | 0.199          | 0.237 | 0.203 | 0.212 | 0.223 | 0.214 | 0.209 | 0.213 |       | 0.214  | 5.57   |
| 13) TP Iodomethane              |                | 0.134 | 0.195 | 0.236 | 0.100 | 0.251 | 0.247 | 0.254 |       | *L     | 0.9989 |
| 14) TP Acrolein                 | 0.029          | 0.036 | 0.035 | 0.040 | 0.031 | 0.041 | 0.041 | 0.041 |       | 0.037# | 12.99  |
| 15) TP Methylene chloride       |                | 0.341 | 0.258 | 0.263 | 0.377 | 0.259 | 0.251 | 0.254 |       | 0.286  | 17.77  |
| 17) TP Acetone                  | 0.089          | 0.067 | 0.057 | 0.062 | 0.074 | 0.058 | 0.057 | 0.055 |       | 0.065# | 17.67  |
| 18) TP trans-1,2-Dichloroethene | 0.234          | 0.252 | 0.222 | 0.235 | 0.252 | 0.232 | 0.229 | 0.233 |       | 0.236  | 4.46   |
| 19) TP Methyl acetate           | 0.174          | 0.181 | 0.160 | 0.178 | 0.183 | 0.174 | 0.170 | 0.166 |       | 0.173  | 4.46   |
| 20) TP Methyl tert-butyl ether  | 0.593          | 0.660 | 0.611 | 0.680 | 0.618 | 0.688 | 0.685 | 0.693 |       | 0.654  | 6.12   |
| 21) TP tert-Butyl alcohol       | 0.021          | 0.023 | 0.021 | 0.024 | 0.020 | 0.023 | 0.024 | 0.024 |       | 0.022# | 6.66   |
| 22) TP Diisopropyl ether        | 0.821          | 0.936 | 0.887 | 0.975 | 0.885 | 0.992 | 0.959 | 0.942 |       | 0.925  | 6.11   |
| 23) TC 1,1-Dichloroethane       | 0.488          | 0.552 | 0.474 | 0.498 | 0.536 | 0.489 | 0.474 | 0.477 |       | 0.498  | 5.91   |
| 24) TP Halothane                | 0.170          | 0.193 | 0.165 | 0.172 | 0.190 | 0.173 | 0.170 | 0.173 |       | 0.176  | 5.73   |
| 25) TP Acrylonitrile            | 0.054          | 0.073 | 0.066 | 0.074 | 0.061 | 0.075 | 0.073 | 0.072 |       | 0.069  | 10.74  |
| 26) TP Ethyl tert-butyl ether   | 0.667          | 0.781 | 0.754 | 0.832 | 0.728 | 0.854 | 0.834 | 0.833 |       | 0.785  | 8.29   |
| 27) TP Vinyl acetate            | 0.491          | 0.616 | 0.608 | 0.682 | 0.561 | 0.685 | 0.652 | 0.636 |       | 0.616  | 10.52  |
| 28) TP cis-1,2-Dichloroethene   | 0.254          | 0.273 | 0.250 | 0.263 | 0.260 | 0.262 | 0.257 | 0.262 |       | 0.260  | 2.64   |
| 29) TP 2,2-Dichloropropane      | 0.363          | 0.400 | 0.346 | 0.362 | 0.377 | 0.365 | 0.361 | 0.363 |       | 0.367  | 4.26   |
| 30) TP Bromochloromethane       | 0.112          | 0.128 | 0.113 | 0.118 | 0.124 | 0.113 | 0.110 | 0.110 |       | 0.116  | 5.77   |
| 31) TP Cyclohexane              | 0.337          | 0.408 | 0.395 | 0.425 | 0.376 | 0.443 | 0.430 | 0.432 |       | 0.406  | 8.71   |
| 32) TC Chloroform               | 0.469          | 0.508 | 0.436 | 0.455 | 0.499 | 0.446 | 0.437 | 0.443 |       | 0.462  | 6.04   |
| 33) TP Ethyl acetate            | 0.191          | 0.221 | 0.210 | 0.235 | 0.211 | 0.228 | 0.225 | 0.222 |       | 0.218  | 6.43   |
| 34) TP Carbon tetrachloride     | 0.302          | 0.342 | 0.300 | 0.312 | 0.317 | 0.314 | 0.312 | 0.322 |       | 0.315  | 4.15   |
| 35) TP Tetrahydrofuran          | 0.058          | 0.078 | 0.076 | 0.086 | 0.072 | 0.084 | 0.081 | 0.080 |       | 0.077  | 11.33  |
| 36) S Dibromofluoromethane      | 0.275          | 0.269 | 0.263 | 0.263 | 0.269 | 0.261 | 0.261 | 0.260 | 0.275 | 0.266  | 2.22   |
| 37) TP 1,1,1-Trichloroethane    | 0.360          | 0.406 | 0.350 | 0.361 | 0.378 | 0.364 | 0.361 | 0.367 | 0.403 | 0.372  | 5.29   |
| 39) TP 2-Butanone               | 0.089          | 0.116 | 0.092 | 0.102 | 0.099 | 0.101 | 0.099 | 0.099 |       | 0.100# | 8.26   |



# Initial Calibration Summary

## Form 6

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Calibration dates : 12/20/19 04:12 12/20/19 07:34

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16383

#### Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
 L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

| Compound                         | L1             | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0    | Avg    | %RSD  |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 40) TP 1,1-Dichloropropene       | 0.287          | 0.335 | 0.309 | 0.324 | 0.304 | 0.334 | 0.330 | 0.336 | 0.326 | 0.320  | 5.28  |
| 41) TP Benzene                   | 0.997          | 1.100 | 0.972 | 1.019 | 1.064 | 1.003 | 0.977 | 0.994 | 1.094 | 1.024  | 4.79  |
| 42) TP tert-Amyl methyl ether    | 0.546          | 0.635 | 0.631 | 0.700 | 0.584 | 0.714 | 0.710 | 0.720 |       | 0.655  | 10.11 |
| 43) S 1,2-Dichloroethane-d4      | 0.296          | 0.288 | 0.282 | 0.282 | 0.288 | 0.279 | 0.280 | 0.277 | 0.289 | 0.284  | 2.19  |
| 44) TP 1,2-Dichloroethane        | 0.352          | 0.383 | 0.333 | 0.352 | 0.384 | 0.342 | 0.331 | 0.330 |       | 0.351  | 6.23  |
| 47) TP Methyl cyclohexane        | 0.327          | 0.378 | 0.362 | 0.392 | 0.374 | 0.408 | 0.402 | 0.410 |       | 0.382  | 7.27  |
| 48) TP Trichloroethene           | 0.245          | 0.263 | 0.236 | 0.243 | 0.261 | 0.242 | 0.239 | 0.243 | 0.260 | 0.248  | 4.16  |
| 50) TP Dibromomethane            | 0.134          | 0.160 | 0.140 | 0.148 | 0.146 | 0.145 | 0.143 | 0.145 |       | 0.145  | 5.14  |
| 51) TC 1,2-Dichloropropane       | 0.269          | 0.303 | 0.268 | 0.287 | 0.286 | 0.287 | 0.278 | 0.283 |       | 0.282  | 4.02  |
| 53) TP 2-Chloroethyl vinyl ether |                | 0.088 | 0.095 | 0.116 |       | 0.125 | 0.131 | 0.133 |       | 0.115  | 16.83 |
| 54) TP Bromodichloromethane      | 0.343          | 0.394 | 0.347 | 0.364 | 0.374 | 0.363 | 0.359 | 0.366 | 0.349 | 0.362  | 4.32  |
| 57) TP 1,4-Dioxane               | 0.001          | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 |       | 0.002# | 18.63 |
| 58) TP cis-1,3-Dichloropropene   | 0.354          | 0.411 | 0.400 | 0.439 | 0.381 | 0.444 | 0.440 | 0.447 | 0.378 | 0.410  | 8.31  |
| 59) I Chlorobenzene-d5           | -----ISTD----- |       |       |       |       |       |       |       |       |        |       |
| 60) S Toluene-d8                 | 1.402          | 1.398 | 1.421 | 1.404 | 1.391 | 1.381 | 1.393 | 1.369 | 1.394 | 1.395  | 1.06  |
| 61) TC Toluene                   | 0.778          | 0.884 | 0.778 | 0.814 | 0.857 | 0.793 | 0.780 | 0.794 |       | 0.810  | 4.94  |
| 62) TP 4-Methyl-2-pentanone      |                | 0.092 | 0.096 | 0.112 | 0.076 | 0.114 | 0.116 | 0.116 |       | 0.103  | 14.89 |
| 63) TP Tetrachloroethene         | 0.290          | 0.326 | 0.297 | 0.302 | 0.307 | 0.299 | 0.298 | 0.304 | 0.303 | 0.303  | 3.32  |
| 65) TP trans-1,3-Dichloropropene | 0.384          | 0.496 | 0.465 | 0.519 | 0.454 | 0.515 | 0.517 | 0.521 |       | 0.484  | 9.91  |
| 67) TP Ethyl methacrylate        |                | 0.319 | 0.342 | 0.406 | 0.263 | 0.421 | 0.426 | 0.429 |       | 0.372  | 17.52 |
| 68) TP 1,1,2-Trichloroethane     | 0.227          | 0.267 | 0.236 | 0.254 | 0.248 | 0.238 | 0.235 | 0.234 |       | 0.242  | 5.39  |
| 69) TP Chlorodibromomethane      | 0.280          | 0.331 | 0.302 | 0.327 | 0.313 | 0.321 | 0.323 | 0.327 | 0.294 | 0.313  | 5.60  |
| 70) TP 1,3-Dichloropropane       | 0.447          | 0.539 | 0.483 | 0.519 | 0.508 | 0.500 | 0.492 | 0.496 |       | 0.498  | 5.46  |
| 71) TP 1,2-Dibromoethane         | 0.227          | 0.278 | 0.250 | 0.269 | 0.245 | 0.259 | 0.257 | 0.259 |       | 0.255  | 6.09  |
| 72) TP 2-Hexanone                |                | 0.157 | 0.171 | 0.204 | 0.125 | 0.205 | 0.207 | 0.206 |       | 0.182  | 17.56 |
| 73) TP Chlorobenzene             | 0.863          | 0.950 | 0.828 | 0.878 | 0.892 | 0.852 | 0.843 | 0.856 | 0.944 | 0.878  | 4.90  |
| 74) TC Ethylbenzene              | 1.271          | 1.487 | 1.429 | 1.538 | 1.412 | 1.514 | 1.489 | 1.510 |       | 1.456  | 5.92  |
| 75) TP 1,1,1,2-Tetrachloroethane | 0.309          | 0.352 | 0.303 | 0.321 | 0.315 | 0.316 | 0.311 | 0.315 | 0.325 | 0.319  | 4.39  |
| 76) TP p/m Xylene                | 0.437          | 0.537 | 0.541 | 0.577 | 0.489 | 0.561 | 0.551 | 0.555 | 0.449 | 0.522  | 9.74  |
| 77) TP o Xylene                  | 0.403          | 0.520 | 0.522 | 0.565 | 0.464 | 0.550 | 0.536 | 0.533 | 0.442 | 0.504  | 10.87 |
| 78) TP Styrene                   | 0.655          | 0.893 | 0.912 | 0.984 | 0.760 | 0.938 | 0.899 | 0.891 | 0.660 | 0.844  | 14.34 |
| 79) I 1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |        |       |
| 80) TP Bromoform                 | 0.335          | 0.398 | 0.360 | 0.389 | 0.355 | 0.382 | 0.377 | 0.376 |       | 0.371  | 5.48  |
| 82) TP Isopropylbenzene          | 2.122          | 2.537 | 2.490 | 2.718 | 2.320 | 2.744 | 2.718 | 2.791 |       | 2.555  | 9.26  |
| 83) S 4-Bromofluorobenzene       | 1.024          | 1.010 | 0.999 | 1.028 | 1.024 | 1.046 | 1.049 | 1.064 | 1.041 | 1.032  | 1.95  |
| 84) TP Bromobenzene              | 0.690          | 0.739 | 0.643 | 0.689 | 0.727 | 0.678 | 0.672 | 0.692 |       | 0.691  | 4.41  |



# Initial Calibration Summary

## Form 6

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Calibration dates : 12/20/19 04:12 12/20/19 07:34

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16383

#### Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
 L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

| Compound                          | L1    | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0    | Avg   | %RSD  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 85) TP n-Propylbenzene            | 3.024 | 3.425 | 3.233 | 3.451 | 3.240 | 3.400 | 3.317 | 3.383 |       | 3.309 | 4.26  |
| 86) TP 1,4-Dichlorobutane         | 0.981 | 1.070 | 0.974 | 1.045 | 1.023 | 0.992 | 0.954 | 0.961 |       | 1.000 | 4.15  |
| 87) TP 1,1,2,2-Tetrachloroethane  | 0.713 | 0.771 | 0.668 | 0.709 | 0.739 | 0.667 | 0.656 | 0.667 | 0.798 | 0.710 | 7.16  |
| 88) TP 4-Ethyltoluene             | 2.153 | 2.652 | 2.617 | 2.804 | 2.415 | 2.802 | 2.768 | 2.881 |       | 2.637 | 9.25  |
| 89) TP 2-Chlorotoluene            | 2.211 | 2.553 | 2.310 | 2.426 | 2.434 | 2.373 | 2.343 | 2.418 |       | 2.384 | 4.22  |
| 90) TP 1,3,5-Trimethylbenzene     | 1.819 | 2.255 | 2.216 | 2.337 | 2.053 | 2.331 | 2.308 | 2.386 |       | 2.213 | 8.56  |
| 91) TP 1,2,3-Trichloropropane     | 0.572 | 0.620 | 0.521 | 0.565 | 0.594 | 0.534 | 0.524 | 0.530 |       | 0.557 | 6.49  |
| 92) TP trans-1,4-Dichloro-2-b...  | 0.155 | 0.198 | 0.194 | 0.208 | 0.172 | 0.201 | 0.201 | 0.201 |       | 0.191 | 9.56  |
| 93) TP 4-Chlorotoluene            | 1.840 | 2.238 | 2.076 | 2.198 | 2.114 | 2.161 | 2.155 | 2.244 |       | 2.128 | 6.10  |
| 94) TP tert-Butylbenzene          | 1.405 | 1.753 | 1.727 | 1.890 | 1.665 | 1.925 | 1.897 | 1.958 |       | 1.777 | 10.33 |
| 97) TP 1,2,4-Trimethylbenzene     | 1.641 | 2.185 | 2.218 | 2.372 | 1.864 | 2.351 | 2.328 | 2.414 |       | 2.172 | 12.71 |
| 98) TP sec-Butylbenzene           | 2.231 | 2.870 | 2.799 | 2.977 | 2.526 | 2.939 | 2.872 | 2.950 |       | 2.771 | 9.40  |
| 99) TP p-Isopropyltoluene         | 1.682 | 2.138 | 2.228 | 2.427 | 1.916 | 2.465 | 2.408 | 2.488 |       | 2.219 | 13.18 |
| 100) TP 1,3-Dichlorobenzene       | 1.324 | 1.464 | 1.291 | 1.347 | 1.417 | 1.310 | 1.279 | 1.324 |       | 1.344 | 4.77  |
| 101) TP 1,4-Dichlorobenzene       | 1.408 | 1.456 | 1.315 | 1.361 | 1.478 | 1.310 | 1.293 | 1.341 |       | 1.370 | 5.09  |
| 102) TP p-Diethylbenzene          | 1.031 | 1.260 | 1.336 | 1.470 | 1.193 | 1.486 | 1.483 | 1.552 |       | 1.351 | 13.31 |
| 103) TP n-Butylbenzene            | 1.954 | 2.390 | 2.368 | 2.485 | 2.158 | 2.433 | 2.355 | 2.447 |       | 2.324 | 7.71  |
| 104) TP 1,2-Dichlorobenzene       | 1.198 | 1.312 | 1.174 | 1.241 | 1.262 | 1.221 | 1.194 | 1.241 |       | 1.230 | 3.57  |
| 105) TP 1,2,4,5-Tetramethylben... | 1.418 | 1.774 | 1.955 | 2.299 | 1.585 | 2.384 | 2.353 | 2.474 |       | 2.030 | 19.90 |
| 106) TP 1,2-Dibromo-3-chloropr... |       | 0.083 | 0.081 | 0.092 | 0.072 | 0.095 | 0.095 | 0.099 |       | 0.088 | 11.18 |
| 107) TP 1,3,5-Trichlorobenzene    | 0.865 | 0.967 | 0.882 | 0.943 | 0.909 | 0.940 | 0.936 | 1.001 |       | 0.930 | 4.77  |
| 108) TP Hexachlorobutadiene       | 0.464 | 0.467 | 0.398 | 0.425 | 0.451 | 0.449 | 0.436 | 0.471 |       | 0.445 | 5.52  |
| 109) TP 1,2,4-Trichlorobenzene    | 0.680 | 0.768 | 0.732 | 0.816 | 0.704 | 0.838 | 0.843 | 0.915 |       | 0.787 | 10.15 |
| 110) TP Naphthalene               | 1.194 | 1.370 | 1.409 | 1.708 | 1.256 | 1.770 | 1.771 | 1.881 |       | 1.545 | 17.25 |
| 111) TP 1,2,3-Trichlorobenzene    | 0.666 | 0.719 | 0.650 | 0.740 | 0.675 | 0.751 | 0.743 | 0.801 |       | 0.718 | 7.12  |



# Response Factor Report Charlie

Method Path : I:\VOLATILES\Charlie\2019\191211N\  
 Method File : C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Thu Dec 12 09:59:41 2019  
 Response Via : Initial Calibration

## Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

| Compound       |                   | L1    | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg    | %RSD |
|----------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| -----ISTD----- |                   |       |       |       |       |       |       |       |       |       |        |      |
| 1) I           | Fluorobenzene     |       |       |       |       |       |       |       |       |       |        |      |
| 2) TP          | Dichlorodifluo... | 0.185 | 0.222 | 0.187 | 0.186 | 0.190 | 0.192 | 0.181 | 0.199 | 0.193 | 6.68   |      |
| 3) TP          | Chloromethane     | 0.480 | 0.394 | 0.344 | 0.342 | 0.375 | 0.342 | 0.330 | 0.407 | 0.377 | 13.28  |      |
| 4) TC          | Vinyl chloride    | 0.351 | 0.390 | 0.355 | 0.355 | 0.360 | 0.358 | 0.342 | 0.352 | 0.358 | 3.96   |      |
| 5) TP          | Bromomethane      | 0.205 | 0.168 | 0.141 | 0.128 | 0.124 | 0.117 | 0.115 | 0.177 | *L    | 0.9977 |      |
| 6) TP          | Chloroethane      | 0.204 | 0.206 | 0.194 | 0.182 |       | 0.134 |       | 0.186 | 0.184 | 14.40  |      |
| 7) TP          | Trichlorofluor... | 0.324 | 0.418 | 0.374 | 0.368 | 0.279 | 0.346 | 0.302 | 0.389 | 0.350 | 13.31  |      |
| 8) TP          | Ethyl ether       | 0.183 | 0.197 | 0.189 | 0.185 | 0.141 | 0.175 | 0.150 | 0.174 | 0.174 | 11.05  |      |
| 10) TC         | 1,1-Dichloroet... | 0.231 | 0.286 | 0.255 | 0.254 | 0.264 | 0.262 | 0.252 | 0.252 | 0.257 | 5.91   |      |
| 11) TP         | Carbon disulfide  | 0.923 | 0.879 | 0.794 | 0.807 | 0.852 | 0.834 | 0.803 | 0.854 | 0.843 | 5.16   |      |
| 12) TP         | Freon-113         | 0.233 | 0.304 | 0.263 | 0.263 | 0.266 | 0.272 | 0.261 | 0.259 | 0.265 | 7.30   |      |
| 14) TP         | Acrolein          |       | 0.076 | 0.080 | 0.080 | 0.088 | 0.084 | 0.086 | 0.062 | 0.080 | 11.01  |      |
| 15) TP         | Methylene chlo... |       | 0.407 | 0.360 | 0.360 | 0.353 | 0.354 | 0.338 | 0.441 | 0.373 | 9.88   |      |
| 17) TP         | Acetone           |       | 0.167 | 0.138 | 0.125 | 0.131 | 0.128 | 0.128 |       | 0.136 | 11.48  |      |
| 18) TP         | trans-1,2-Dich... | 0.306 | 0.327 | 0.314 | 0.315 | 0.329 | 0.319 | 0.307 | 0.299 | 0.314 | 3.31   |      |
| 19) TP         | Methyl acetate    |       | 0.377 | 0.366 | 0.362 | 0.382 | 0.378 | 0.383 | 0.355 | 0.372 | 2.88   |      |
| 20) TP         | Methyl tert-bu... | 1.044 | 1.093 | 1.068 | 1.084 | 1.111 | 1.100 | 1.072 | 0.975 | 1.068 | 4.03   |      |
| 21) TP         | tert-Butyl alc... | 0.062 | 0.065 | 0.065 | 0.064 | 0.074 | 0.069 | 0.072 | 0.062 | 0.067 | 6.74   |      |
| 22) TP         | Diisopropyl ether | 1.628 | 1.733 | 1.692 | 1.746 | 1.749 | 1.762 | 1.695 | 1.544 | 1.694 | 4.40   |      |
| 23) TP         | 1,1-Dichloroet... | 0.740 | 0.796 | 0.753 | 0.759 | 0.768 | 0.759 | 0.730 | 0.727 | 0.754 | 2.96   |      |
| 24) TP         | Halothane         | 0.233 | 0.266 | 0.247 | 0.246 | 0.263 | 0.256 | 0.248 | 0.226 | 0.248 | 5.50   |      |
| 25) TP         | Acrylonitrile     |       | 0.149 | 0.162 | 0.167 | 0.182 | 0.175 | 0.177 | 0.114 | 0.161 | 14.59  |      |
| 26) TP         | Ethyl tert-but... | 1.460 | 1.564 | 1.562 | 1.605 | 1.625 | 1.617 | 1.571 | 1.416 | 1.553 | 4.87   |      |
| 27) TP         | Vinyl acetate     |       | 1.052 | 1.154 | 1.201 | 1.208 | 1.227 | 1.200 | 0.807 | 1.121 | 13.44  |      |
| 28) TP         | cis-1,2-Dichlo... | 0.347 | 0.392 | 0.382 | 0.379 | 0.385 | 0.382 | 0.365 | 0.351 | 0.373 | 4.47   |      |
| 29) TP         | 2,2-Dichloropr... | 0.444 | 0.509 | 0.478 | 0.491 | 0.497 | 0.497 | 0.476 | 0.459 | 0.481 | 4.50   |      |
| 30) TP         | Bromochloromet... | 0.142 | 0.188 | 0.186 | 0.186 | 0.181 | 0.186 | 0.175 | 0.164 | 0.176 | 8.91   |      |
| 31) TP         | Cyclohexane       | 0.584 | 0.740 | 0.682 | 0.695 | 0.721 | 0.718 | 0.698 | 0.666 | 0.688 | 6.98   |      |
| 32) TC         | Chloroform        | 0.644 | 0.690 | 0.643 | 0.650 | 0.635 | 0.642 | 0.609 | 0.623 | 0.642 | 3.65   |      |
| 33) TP         | Ethyl acetate     | 0.446 | 0.533 | 0.559 | 0.564 | 0.582 | 0.580 | 0.581 | 0.471 | 0.539 | 9.81   |      |
| 34) TP         | Carbon tetrach... | 0.404 | 0.489 | 0.455 | 0.454 | 0.465 | 0.466 | 0.446 | 0.438 | 0.452 | 5.48   |      |

## Response Factor Report Charlie

Method Path : I:\VOLATILES\Charlie\2019\191211N\  
 Method File : C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Thu Dec 12 09:59:41 2019  
 Response Via : Initial Calibration

## Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

|     | Compound             | L1             | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg    | %RSD   |
|-----|----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 35) | TP Tetrahydrofuran   | 0.149          | 0.188 | 0.172 | 0.163 | 0.171 | 0.171 |       | 0.163 | 0.169 | 6.64   |        |
| 36) | S Dibromofluorom...  | 0.290          | 0.288 | 0.284 | 0.282 | 0.282 | 0.283 | 0.285 | 0.278 | 0.281 | 0.284  | 1.33   |
| 37) | TP 1,1,1-Trichlor... | 0.484          | 0.532 | 0.515 | 0.512 | 0.515 | 0.517 | 0.495 | 0.571 | 0.503 | 0.516  | 4.84   |
| 39) | TP 2-Butanone        |                | 0.254 | 0.221 | 0.234 | 0.254 | 0.246 | 0.251 |       | 0.253 | 0.245  | 5.18   |
| 40) | TP 1,1-Dichloropr... | 0.409          | 0.465 | 0.440 | 0.445 | 0.457 | 0.453 | 0.434 | 0.461 | 0.425 | 0.443  | 4.13   |
| 41) | TP Benzene           | 1.347          | 1.431 | 1.353 | 1.368 | 1.389 | 1.379 | 1.318 | 1.480 | 1.310 | 1.375  | 3.93   |
| 42) | TP tert-Amyl meth... | 1.008          | 1.132 | 1.122 | 1.153 | 1.197 | 1.174 | 1.148 |       | 1.001 | 1.117  | 6.54   |
| 43) | S 1,2-Dichloroet...  | 0.344          | 0.345 | 0.331 | 0.328 | 0.340 | 0.336 | 0.346 | 0.337 | 0.340 | 0.339  | 1.79   |
| 44) | TP 1,2-Dichloroet... | 0.640          | 0.675 | 0.638 | 0.640 | 0.614 | 0.632 | 0.601 |       | 0.607 | 0.631  | 3.74   |
| 47) | TP Methyl cyclohe... | 0.454          | 0.554 | 0.518 | 0.528 | 0.548 | 0.549 | 0.528 |       | 0.500 | 0.523  | 6.30   |
| 48) | TP Trichloroethene   | 0.318          | 0.356 | 0.349 | 0.345 | 0.350 | 0.350 | 0.335 | 0.335 | 0.321 | 0.340  | 4.01   |
| 50) | TP Dibromomethane    | 0.215          | 0.244 | 0.241 | 0.246 | 0.252 | 0.250 | 0.243 |       | 0.194 | 0.236  | 8.62   |
| 51) | TC 1,2-Dichloropr... | 0.414          | 0.459 | 0.459 | 0.465 | 0.473 | 0.467 | 0.449 |       | 0.405 | 0.449  | 5.66   |
| 53) | TP 2-Chloroethyl ... |                | 0.210 | 0.256 | 0.268 | 0.279 | 0.276 | 0.271 |       |       | 0.260  | 9.97   |
| 54) | TP Bromodichlorom... | 0.466          | 0.527 | 0.529 | 0.535 | 0.542 | 0.539 | 0.521 | 0.470 | 0.475 | 0.512  | 6.16   |
| 57) | TP 1,4-Dioxane       |                | 0.003 | 0.004 | 0.004 | 0.005 | 0.004 | 0.005 |       | 0.003 | 0.004# | 17.52  |
| 58) | TP cis-1,3-Dichlo... | 0.463          | 0.589 | 0.622 | 0.653 | 0.668 | 0.661 | 0.638 | 0.441 | 0.498 | *L     | 0.9995 |
| 59) | I Chlorobenzene-d5   | -----ISTD----- |       |       |       |       |       |       |       |       |        |        |
| 60) | S Toluene-d8         | 1.379          | 1.380 | 1.367 | 1.350 | 1.350 | 1.356 | 1.353 | 1.380 | 1.380 | 1.366  | 1.02   |
| 61) | TC Toluene           | 1.149          | 1.233 | 1.162 | 1.164 | 1.189 | 1.174 | 1.124 |       | 1.134 | 1.166  | 2.94   |
| 62) | TP 4-Methyl-2-pen... |                | 0.254 | 0.279 | 0.284 | 0.305 | 0.298 | 0.299 |       | 0.216 | 0.276  | 11.45  |
| 63) | TP Tetrachloroethene | 0.413          | 0.480 | 0.453 | 0.452 | 0.461 | 0.452 | 0.440 | 0.449 | 0.434 | 0.448  | 4.13   |
| 65) | TP trans-1,3-Dich... | 0.540          | 0.738 | 0.793 | 0.816 | 0.838 | 0.834 | 0.807 |       | 0.598 | *L     | 0.9997 |
| 67) | TP Ethyl methacry... |                | 0.577 | 0.697 | 0.722 | 0.761 | 0.750 | 0.740 |       |       | 0.708  | 9.58   |
| 68) | TP 1,1,2-Trichlor... | 0.348          | 0.400 | 0.401 | 0.402 | 0.396 | 0.401 | 0.386 |       | 0.373 | 0.388  | 4.93   |
| 69) | TP Chlorodibromom... | 0.429          | 0.542 | 0.558 | 0.569 | 0.588 | 0.583 | 0.563 | 0.438 | 0.453 | 0.525  | 12.44  |
| 70) | TP 1,3-Dichloropr... | 0.702          | 0.863 | 0.834 | 0.835 | 0.826 | 0.835 | 0.800 |       | 0.732 | 0.803  | 7.02   |
| 71) | TP 1,2-Dibromoethane | 0.358          | 0.479 | 0.481 | 0.478 | 0.484 | 0.487 | 0.469 |       | 0.382 | 0.452  | 11.32  |
| 72) | TP 2-Hexanone        |                | 0.441 | 0.504 | 0.508 | 0.546 | 0.543 | 0.546 |       | 0.350 | 0.491  | 14.79  |
| 73) | TP Chlorobenzene     | 1.311          | 1.461 | 1.380 | 1.382 | 1.375 | 1.371 | 1.307 | 1.455 | 1.315 | 1.373  | 4.16   |
| 74) | TC Ethylbenzene      | 2.308          | 2.328 | 2.265 | 2.253 | 2.258 | 2.257 | 2.153 |       | 2.214 | 2.255  | 2.40   |

## Response Factor Report Charlie

Method Path : I:\VOLATILES\Charlie\2019\191211N\  
 Method File : C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Thu Dec 12 09:59:41 2019  
 Response Via : Initial Calibration

## Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

|      | Compound                 | L1             | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg   | %RSD  |
|------|--------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 75)  | TP 1,1,1,2-Tetrac...     | 0.437          | 0.514 | 0.512 | 0.518 | 0.516 | 0.518 | 0.493 | 0.425 | 0.458 | 0.488 | 7.71  |
| 76)  | TP p/m Xylene            | 0.784          | 0.895 | 0.882 | 0.875 | 0.855 | 0.882 | 0.836 | 0.809 | 0.804 | 0.847 | 4.75  |
| 77)  | TP o Xylene              | 0.756          | 0.879 | 0.868 | 0.873 | 0.834 | 0.873 | 0.825 | 0.754 | 0.788 | 0.828 | 6.13  |
| 78)  | TP Styrene               | 1.214          | 1.445 | 1.469 | 1.513 | 1.423 | 1.525 | 1.441 | 1.199 | 1.240 | 1.385 | 9.42  |
| 79)  | I 1,4-Dichlorobenzene-d4 | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 80)  | TP Bromoform             | 0.472          | 0.625 | 0.681 | 0.708 | 0.736 | 0.717 | 0.713 |       | 0.544 | 0.650 | 14.67 |
| 82)  | TP Isopropylbenzene      | 3.747          | 4.168 | 4.151 | 4.111 | 4.115 | 4.056 | 3.908 |       | 3.882 | 4.017 | 3.81  |
| 83)  | S 4-Bromofluorob...      | 1.073          | 1.049 | 1.042 | 1.028 | 1.010 | 0.998 | 1.020 | 1.065 | 1.063 | 1.039 | 2.53  |
| 84)  | TP Bromobenzene          | 0.984          | 1.130 | 1.108 | 1.085 | 1.093 | 1.080 | 1.038 |       | 1.025 | 1.068 | 4.51  |
| 85)  | TP n-Propylbenzene       | 4.886          | 5.275 | 5.058 | 5.002 | 4.917 | 4.931 | 4.753 |       | 4.878 | 4.963 | 3.13  |
| 86)  | TP 1,4-Dichlorobu...     | 2.030          | 2.229 | 2.206 | 2.172 | 2.120 | 2.148 | 2.097 |       | 2.043 | 2.131 | 3.39  |
| 87)  | TP 1,1,2,2-Tetrac...     | 1.189          | 1.318 | 1.288 | 1.264 | 1.254 | 1.248 | 1.229 | 1.194 | 1.209 | 1.244 | 3.47  |
| 88)  | TP 4-Ethyltoluene        | 4.184          | 4.455 | 4.376 | 4.366 | 4.308 | 4.291 | 4.117 |       | 4.148 | 4.281 | 2.81  |
| 89)  | TP 2-Chlorotoluene       | 3.553          | 3.297 | 3.124 | 3.066 | 3.041 | 3.032 | 2.895 |       | 3.087 | 3.137 | 6.43  |
| 90)  | TP 1,3,5-Trimethy...     | 3.410          | 3.672 | 3.654 | 3.588 | 3.465 | 3.539 | 3.398 |       | 3.453 | 3.522 | 3.04  |
| 91)  | TP 1,2,3-Trichlor...     | 0.989          | 1.085 | 1.026 | 1.005 | 0.979 | 1.003 | 0.968 |       | 0.980 | 1.004 | 3.72  |
| 92)  | TP trans-1,4-Dich...     |                | 0.419 | 0.426 | 0.460 | 0.475 | 0.481 | 0.463 |       | 0.338 | 0.437 | 11.33 |
| 93)  | TP 4-Chlorotoluene       | 3.257          | 3.470 | 3.246 | 3.245 | 3.240 | 3.183 | 3.078 |       | 3.204 | 3.240 | 3.38  |
| 94)  | TP tert-Butylbenzene     | 2.736          | 3.012 | 2.914 | 2.944 | 2.884 | 2.923 | 2.802 |       | 2.798 | 2.877 | 3.17  |
| 97)  | TP 1,2,4-Trimethy...     | 3.264          | 3.631 | 3.647 | 3.665 | 3.605 | 3.603 | 3.443 |       | 3.372 | 3.529 | 4.23  |
| 98)  | TP sec-Butylbenzene      | 4.210          | 4.685 | 4.480 | 4.463 | 4.367 | 4.419 | 4.229 |       | 4.320 | 4.397 | 3.49  |
| 99)  | TP p-Isopropyltol...     | 3.490          | 3.837 | 3.800 | 3.837 | 3.717 | 3.764 | 3.610 |       | 3.587 | 3.705 | 3.48  |
| 100) | TP 1,3-Dichlorobe...     | 2.036          | 2.126 | 2.094 | 2.111 | 2.078 | 2.076 | 1.991 |       | 2.047 | 2.070 | 2.12  |
| 101) | TP 1,4-Dichlorobe...     | 2.305          | 2.305 | 2.192 | 2.172 | 2.096 | 2.115 | 2.024 |       | 2.152 | 2.170 | 4.50  |
| 102) | TP p-Diethylbenzene      | 2.129          | 2.357 | 2.347 | 2.400 | 2.339 | 2.365 | 2.277 |       | 2.152 | 2.296 | 4.44  |
| 103) | TP n-Butylbenzene        | 3.514          | 3.813 | 3.659 | 3.655 | 3.511 | 3.600 | 3.430 |       | 3.510 | 3.586 | 3.38  |
| 104) | TP 1,2-Dichlorobe...     | 1.996          | 2.078 | 2.031 | 2.041 | 2.004 | 2.009 | 1.935 |       | 1.920 | 2.002 | 2.62  |
| 105) | TP 1,2,4,5-Tetram...     | 3.573          | 3.839 | 3.924 | 3.969 | 3.896 | 3.957 | 3.796 |       | 3.499 | 3.807 | 4.67  |
| 106) | TP 1,2-Dibromo-3-...     |                | 0.169 | 0.194 | 0.199 | 0.226 | 0.214 | 0.216 |       | 0.157 | 0.196 | 12.96 |
| 107) | TP 1,3,5-Trichlor...     | 1.502          | 1.557 | 1.511 | 1.533 | 1.509 | 1.519 | 1.456 |       | 1.460 | 1.506 | 2.27  |
| 108) | TP Hexachlorobuta...     | 0.645          | 0.632 | 0.592 | 0.608 | 0.620 | 0.602 | 0.583 |       | 0.602 | 0.611 | 3.37  |

# Response Factor Report Charlie

Method Path : I:\VOLATILES\Charlie\2019\191211N\  
 Method File : C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Thu Dec 12 09:59:41 2019  
 Response Via : Initial Calibration

## Calibration Files

L1 =VC191211N04.D L2 =VC191211N06.D L3 =VC191211N07.D L4 =VC191211N08.D L8 =VC191211N11.D  
 L6 =VC191211N09.D L7 =VC191211N10.D L0 =VC191211N03.D L1.5=VC191211N05.D

|         | Compound          | L1    | L2    | L3    | L4    | L8    | L6    | L7    | L0    | L1.5  | Avg  | %RSD |
|---------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 109) TP | 1,2,4-Trichlor... | 1.392 | 1.428 | 1.388 | 1.399 | 1.436 | 1.391 | 1.359 | 1.325 | 1.390 | 2.56 |      |
| 110) TP | Naphthalene       | 3.700 | 3.599 | 3.655 | 3.657 | 3.877 | 3.749 | 3.718 | 3.363 | 3.665 | 4.02 |      |
| 111) TP | 1,2,3-Trichlor... | 1.459 | 1.398 | 1.309 | 1.318 | 1.367 | 1.321 | 1.294 | 1.318 | 1.348 | 4.17 |      |

(#) = Out of Range

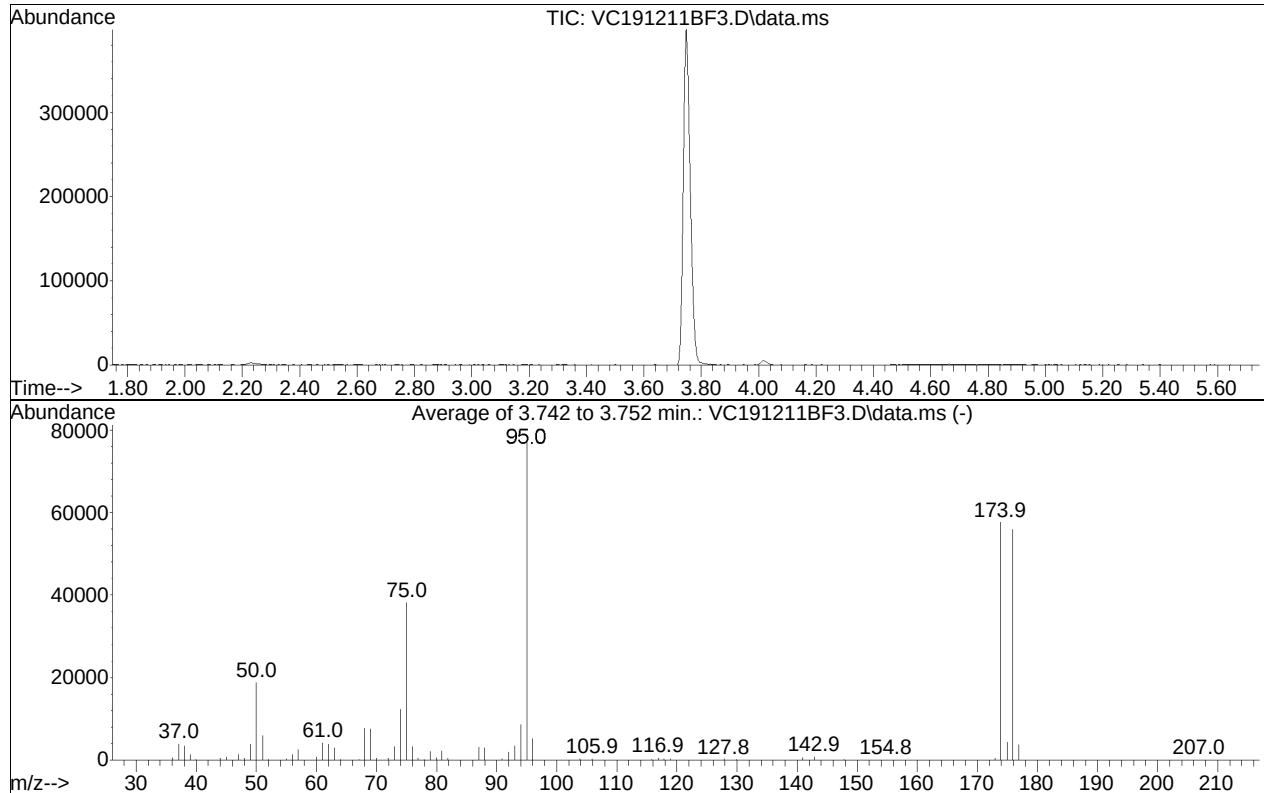


# BFB

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211BF3.D  
 Acq On : 11 Dec 2019 4:56 pm  
 Operator : CHARLIE:MAB  
 Sample : WG1319953-1  
 Misc : WG1319953  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Thu Dec 12 09:48:20 2019



AutoFind: Scans 392, 393, 394; Background Corrected with Scan 384

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 24.4      | 18907   | PASS             |
| 75          | 95           | 30           | 60           | 49.3      | 38195   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 77435   | PASS             |
| 96          | 95           | 5            | 9            | 6.7       | 5215    | PASS             |
| 173         | 174          | 0.00         | 2            | 0.8       | 465     | PASS             |
| 174         | 95           | 50           | 100          | 74.5      | 57656   | PASS             |
| 175         | 174          | 5            | 9            | 7.5       | 4315    | PASS             |
| 176         | 174          | 95           | 101          | 97.0      | 55939   | PASS             |
| 177         | 176          | 5            | 9            | 6.6       | 3700    | PASS             |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N03.D  
 Acq On : 11 Dec 2019 6:15 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD0.5PPB  
 Misc : WG1319953  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:00:09 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-L0 - SOILS Level 0.5ppb with Chlorodibromomethane

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Fluorobenzene              | 6.211          | 96   | 122513     | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 125548      |                |      | Recovery = | 97.58%  |        |          |
| 59) Chlorobenzene-d5          | 9.755          | 117  | 88374      | 20.000  | ug/L   | -0.01    |
| Standard Area 1 = 92632       |                |      | Recovery = | 95.40%  |        |          |
| 79) 1,4-Dichlorobenzene-d4    | 12.408         | 152  | 45326      | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 49342       |                |      | Recovery = | 91.86%  |        |          |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 36) Dibromofluoromethane      | 5.393          | 113  | 34014      | 19.573  | ug/L   | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery = | 97.87%  |        |          |
| 43) 1,2-Dichloroethane-d4     | 5.928          | 65   | 41226      | 19.881  | ug/L   | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery = | 99.41%  |        |          |
| 60) Toluene-d8                | 7.904          | 98   | 121915     | 20.197  | ug/L   | -0.01    |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery = | 100.98% |        |          |
| 83) 4-Bromofluorobenzene      | 11.218         | 95   | 48277      | 20.505  | ug/L   | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery = | 102.53% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         |        | Qvalue   |
| 37) 1,1,1-Trichloroethane     | 5.409          | 97   | 1750       | 0.554   | ug/L # | 62       |
| 40) 1,1-Dichloropropene       | 5.550          | 75   | 1411       | 0.520   | ug/L # | 74       |
| 41) Benzene                   | 5.791          | 78   | 4534       | 0.538   | ug/L # | 88       |
| 48) Trichloroethene           | 6.394          | 95   | 1027       | 0.493   | ug/L # | 82       |
| 54) Bromodichloromethane      | 7.013          | 83   | 1441       | 0.460   | ug/L # | 83       |
| 58) cis-1,3-Dichloropropene   | 7.705          | 75   | 1352       | 0.604   | ug/L # | 57       |
| 63) Tetrachloroethene         | 8.423          | 166  | 991        | 0.500   | ug/L   | 87       |
| 69) Chlorodibromomethane      | 8.859          | 129  | 968        | 0.417   | ug/L # | 90       |
| 73) Chlorobenzene             | 9.776          | 112  | 3214       | 0.530   | ug/L # | 66       |
| 75) 1,1,1,2-Tetrachloroethane | 9.860          | 131  | 939        | 0.436   | ug/L # | 80       |
| 76) p/m Xylene                | 10.002         | 106  | 3575       | 0.955   | ug/L   | 81       |
| 77) o Xylene                  | 10.526         | 106  | 3330       | 0.910   | ug/L   | 74       |
| 78) Styrene                   | 10.599         | 104  | 5296       | 0.865   | ug/L   | 93       |
| 87) 1,1,2,2-Tetrachloroethane | 11.459         | 83   | 1353       | 0.480   | ug/L # | 91       |
| -----                         |                |      |            |         |        |          |

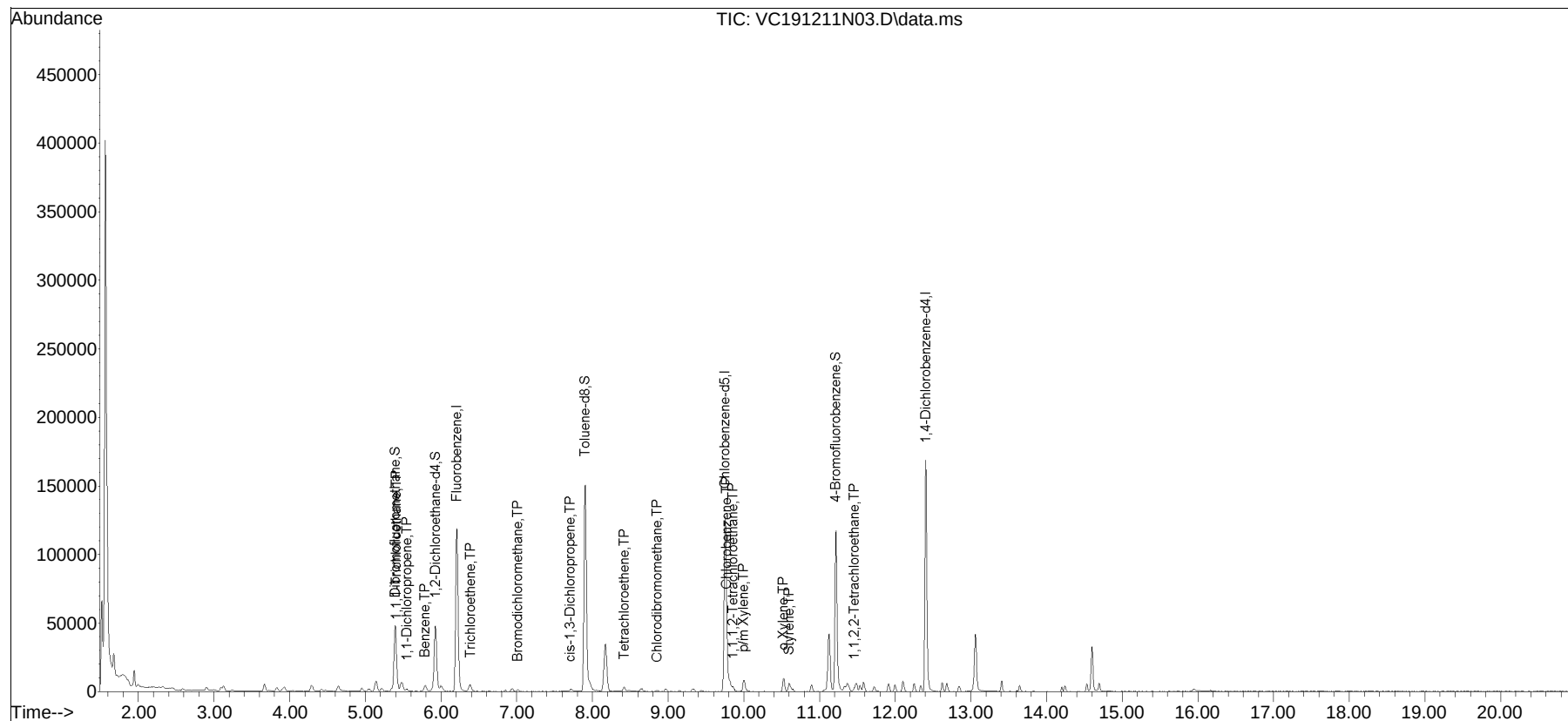
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N03.D  
 Acq On : 11 Dec 2019 6:15 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD0.5PPB  
 Misc : WG1319953  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 12 10:00:09 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

Sub List : 8260-L0 - SOILS Level 0.5ppb with Chlorodibromomethane



# Manual Integration Report

|            |                                     |                                 |
|------------|-------------------------------------|---------------------------------|
| Data Path  | : I:\VOLATILES\Charlie\2019\QMethod | : C_191211N_8260.m              |
| Data File  | : VC191211N03.D                     | Operator : CHARLIE:MAB          |
| Date Inj'd | : 12/11/2019 6:15 pm                | Instrument : Charlie            |
| Sample     | : I8260STD0.5PPB                    | Quant Date : 12/12/2019 9:59 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N04.D  
 Acq On : 11 Dec 2019 6:43 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD1PPB  
 Misc : WG1319953  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 10:00:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Fluorobenzene             | 6.211          | 96   | 121732     | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 125548     |                |      | Recovery = | 96.96%  |        |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 88500      | 20.000  | ug/L   | -0.01    |
| Standard Area 1 = 92632      |                |      | Recovery = | 95.54%  |        |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 46591      | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 94.42%  |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 35293      | 20.439  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.19% |        |          |
| 43) 1,2-Dichloroethane-d4    | 5.928          | 65   | 41851      | 20.312  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 101.56% |        |          |
| 60) Toluene-d8               | 7.904          | 98   | 122039     | 20.189  | ug/L   | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.94% |        |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 50015      | 20.667  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 103.33% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 1125       | 0.958   | ug/L # | 81       |
| 3) Chloromethane             | 1.927          | 50   | 2920       | 1.274   | ug/L # | 89       |
| 4) Vinyl chloride            | 1.996          | 62   | 2136       | 0.980   | ug/L   | 83       |
| 5) Bromomethane              | 2.315          | 94   | 1247       | 0.747   | ug/L   | 95       |
| 6) Chloroethane              | 2.446          | 64   | 1243       | 1.108   | ug/L   | 81       |
| 7) Trichlorofluoromethane    | 2.588          | 101  | 1973       | 0.926   | ug/L   | 96       |
| 8) Ethyl ether               | 2.903          | 74   | 1114       | 1.051   | ug/L # | 22       |
| 10) 1,1-Dichloroethene       | 3.091          | 96   | 1407       | 0.900   | ug/L # | 49       |
| 11) Carbon disulfide         | 3.123          | 76   | 5616       | 1.094   | ug/L   | 96       |
| 12) Freon-113                | 3.133          | 101  | 1418       | 0.878   | ug/L # | 44       |
| 14) Acrolein                 | 3.437          | 56   | 261        | 0.539   | ug/L # | 18       |
| 15) Methylene chloride       | 3.668          | 84   | 3336       | 1.468   | ug/L # | 55       |
| 17) Acetone                  | 3.726          | 43   | 1696       | 2.047   | ug/L # | 85       |
| 18) trans-1,2-Dichloroethene | 3.825          | 96   | 1860       | 0.972   | ug/L # | 65       |
| 19) Methyl acetate           | 0.000          |      | 0          | N.D.    | d      |          |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 6354       | 0.977   | ug/L # | 48       |
| 21) tert-Butyl alcohol       | 4.040          | 59   | 1899       | 4.672   | ug/L # | 81       |
| 22) Diisopropyl ether        | 4.292          | 45   | 9911       | 0.961   | ug/L # | 85       |
| 23) 1,1-Dichloroethane       | 4.428          | 63   | 4506       | 0.982   | ug/L   | 90       |
| 24) Halothane                | 4.475          | 117  | 1420       | 0.940   | ug/L # | 77       |
| 25) Acrylonitrile            | 0.000          |      | 0          | N.D.    | d      |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N04.D  
 Acq On : 11 Dec 2019 6:43 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD1PPB  
 Misc : WG1319953  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 10:00:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |    |
|-------------------------------|--------|------|----------|--------|-------|----------|----|
| 26) Ethyl tert-butyl ether    | 4.643  | 59   | 8887     | 0.940  | ug/L  | #        | 59 |
| 27) Vinyl acetate             | 0.000  |      | 0        | N.D.   | d     |          |    |
| 28) cis-1,2-Dichloroethene    | 4.953  | 96   | 2110     | 0.930  | ug/L  | #        | 59 |
| 29) 2,2-Dichloropropane       | 5.047  | 77   | 2701     | 0.922  | ug/L  | #        | 76 |
| 30) Bromochloromethane        | 5.152  | 128  | 867      | 0.809  | ug/L  | #        | 22 |
| 31) Cyclohexane               | 5.141  | 56   | 3556     | 0.849  | ug/L  | #        | 60 |
| 32) Chloroform                | 5.215  | 83   | 3922     | 1.004  | ug/L  | #        | 91 |
| 33) Ethyl acetate             | 5.341  | 43   | 2713     | 0.826  | ug/L  | #        | 67 |
| 34) Carbon tetrachloride      | 5.351  | 117  | 2461     | 0.894  | ug/L  | #        | 95 |
| 35) Tetrahydrofuran           | 5.388  | 42   | 905      | 0.882  | ug/L  | #        | 49 |
| 37) 1,1,1-Trichloroethane     | 5.414  | 97   | 2944     | 0.937  | ug/L  |          | 88 |
| 39) 2-Butanone                | 0.000  |      | 0        | N.D.   | d     |          |    |
| 40) 1,1-Dichloropropene       | 5.540  | 75   | 2490     | 0.923  | ug/L  |          | 85 |
| 41) Benzene                   | 5.786  | 78   | 8199     | 0.980  | ug/L  | #        | 87 |
| 42) tert-Amyl methyl ether    | 5.896  | 73   | 6138     | 0.903  | ug/L  | #        | 84 |
| 44) 1,2-Dichloroethane        | 5.996  | 62   | 3896     | 1.015  | ug/L  |          | 93 |
| 47) Methyl cyclohexane        | 6.379  | 83   | 2766     | 0.870  | ug/L  | #        | 36 |
| 48) Trichloroethene           | 6.400  | 95   | 1933     | 0.935  | ug/L  |          | 88 |
| 50) Dibromomethane            | 6.856  | 93   | 1306     | 0.911  | ug/L  | #        | 82 |
| 51) 1,2-Dichloropropane       | 6.940  | 63   | 2518     | 0.921  | ug/L  | #        | 92 |
| 53) 2-Chloroethyl vinyl ether | 7.653  | 63   | 812      | 0.513  | ug/L  | #        | 73 |
| 54) Bromodichloromethane      | 7.013  | 83   | 2839     | 0.912  | ug/L  | #        | 96 |
| 57) 1,4-Dioxane               | 7.223  | 88   | 621      | 25.448 | ug/L  | #        | 65 |
| 58) cis-1,3-Dichloropropene   | 7.710  | 75   | 2817     | 0.973  | ug/L  | #        | 71 |
| 61) Toluene                   | 7.967  | 92   | 5083     | 0.985  | ug/L  |          | 99 |
| 62) 4-Methyl-2-pentanone      | 8.408  | 58   | 747      | 0.611  | ug/L  | #        | 41 |
| 63) Tetrachloroethene         | 8.423  | 166  | 1828     | 0.922  | ug/L  |          | 97 |
| 65) trans-1,3-Dichloropropene | 8.465  | 75   | 2389     | 1.085  | ug/L  |          | 76 |
| 67) Ethyl methacrylate        | 8.654  | 69   | 1624     | 0.519  | ug/L  | #        | 86 |
| 68) 1,1,2-Trichloroethane     | 8.644  | 83   | 1540     | 0.896  | ug/L  |          | 91 |
| 69) Chlorodibromomethane      | 8.853  | 129  | 1898     | 0.817  | ug/L  |          | 92 |
| 70) 1,3-Dichloropropane       | 8.974  | 76   | 3108     | 0.874  | ug/L  |          | 93 |
| 71) 1,2-Dibromoethane         | 9.152  | 107  | 1585     | 0.792  | ug/L  |          | 97 |
| 72) 2-Hexanone                | 9.425  | 43   | 1494     | 0.688  | ug/L  | #        | 74 |
| 73) Chlorobenzene             | 9.776  | 112  | 5802     | 0.955  | ug/L  | #        | 74 |
| 74) Ethylbenzene              | 9.818  | 91   | 10213    | 1.024  | ug/L  |          | 93 |
| 75) 1,1,1,2-Tetrachloroethane | 9.865  | 131  | 1933     | 0.896  | ug/L  |          | 88 |
| 76) p/m Xylene                | 9.996  | 106  | 6940     | 1.852  | ug/L  |          | 88 |
| 77) o Xylene                  | 10.521 | 106  | 6693     | 1.827  | ug/L  |          | 78 |
| 78) Styrene                   | 10.594 | 104  | 10742    | 1.752  | ug/L  |          | 88 |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N04.D  
 Acq On : 11 Dec 2019 6:43 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD1PPB  
 Misc : WG1319953  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 10:00:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 80)  | Bromoform                 | 10.626 | 173  | 1100     | 0.727 | ug/L   | 78       |
| 82)  | Isopropylbenzene          | 10.898 | 105  | 8728     | 0.933 | ug/L   | 93       |
| 84)  | Bromobenzene              | 11.333 | 156  | 2293     | 0.922 | ug/L   | 94       |
| 85)  | n-Propylbenzene           | 11.365 | 91   | 11383    | 0.985 | ug/L   | 94       |
| 86)  | 1,4-Dichlorobutane        | 11.391 | 55   | 4728     | 0.953 | ug/L # | 89       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 2770     | 0.956 | ug/L   | 92       |
| 88)  | 4-Ethyltoluene            | 11.485 | 105  | 9746     | 0.977 | ug/L   | 94       |
| 89)  | 2-Chlorotoluene           | 11.533 | 91   | 8277     | 1.133 | ug/L # | 83       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.580 | 105  | 7943     | 0.968 | ug/L   | 95       |
| 91)  | 1,2,3-Trichloropropane    | 11.585 | 75   | 2305     | 0.985 | ug/L # | 83       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.653 | 53   | 623      | 0.611 | ug/L # | 44       |
| 93)  | 4-Chlorotoluene           | 11.716 | 91   | 7587     | 1.005 | ug/L   | 90       |
| 94)  | tert-Butylbenzene         | 11.915 | 119  | 6373     | 0.951 | ug/L   | 89       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 7604     | 0.925 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.104 | 105  | 9808     | 0.958 | ug/L   | 97       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 8131     | 0.942 | ug/L   | 96       |
| 100) | 1,3-Dichlorobenzene       | 12.340 | 146  | 4743     | 0.984 | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 5369M3   | 1.062 | ug/L   |          |
| 102) | p-Diethylbenzene          | 12.623 | 119  | 4959     | 0.927 | ug/L   | 98       |
| 103) | n-Butylbenzene            | 12.681 | 91   | 8186     | 0.980 | ug/L   | 94       |
| 104) | 1,2-Dichlorobenzene       | 12.849 | 146  | 4649     | 0.997 | ug/L   | 92       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 8324     | 0.939 | ug/L   | 99       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 194      | 0.424 | ug/L # | 16       |
| 107) | 1,3,5-Trichlorobenzene    | 13.646 | 180  | 3499     | 0.997 | ug/L   | 97       |
| 108) | Hexachlorobutadiene       | 14.207 | 225  | 1502     | 1.056 | ug/L   | 97       |
| 109) | 1,2,4-Trichlorobenzene    | 14.243 | 180  | 3243     | 1.002 | ug/L   | 94       |
| 110) | Naphthalene               | 14.532 | 128  | 8620     | 1.010 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.699 | 180  | 3399     | 1.082 | ug/L   | 99       |

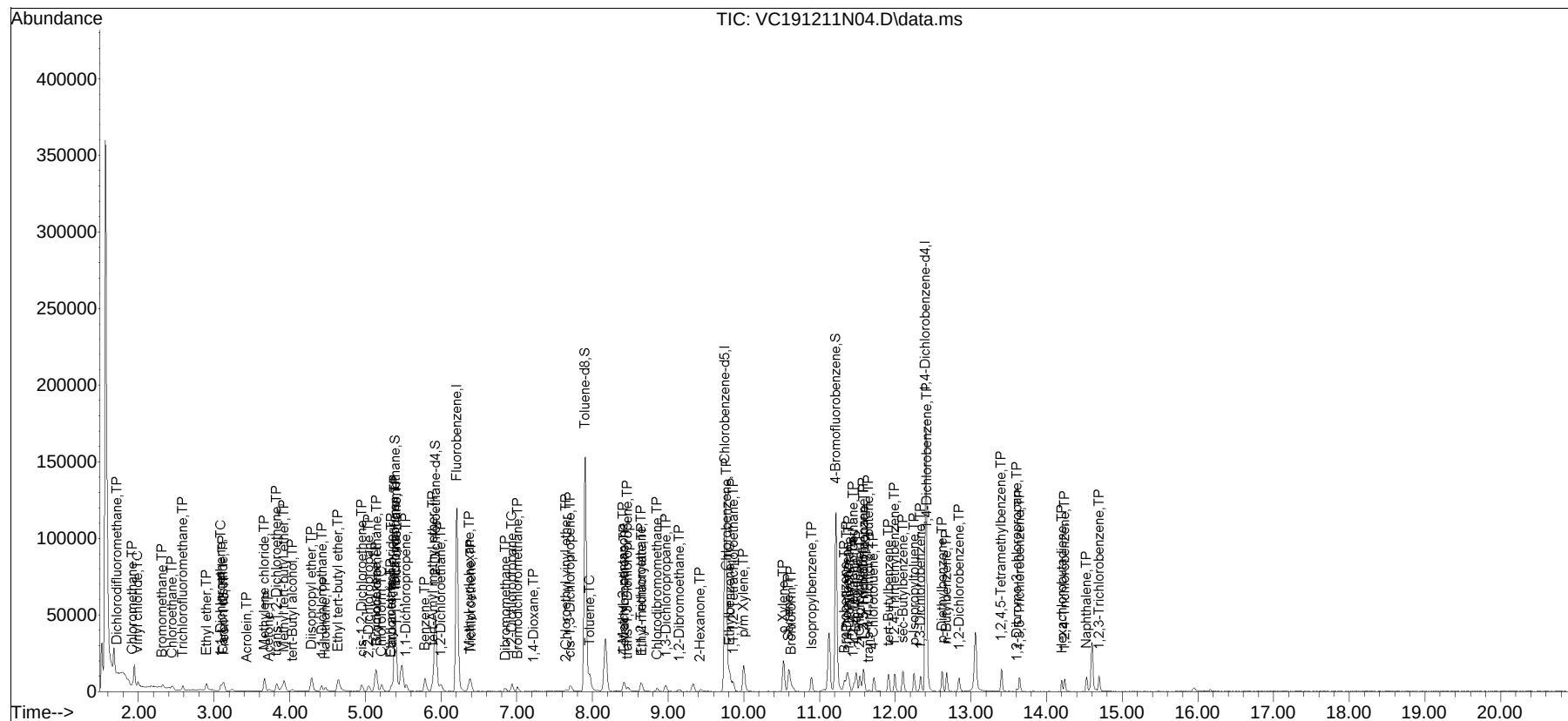
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N04.D  
 Acq On : 11 Dec 2019 6:43 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD1PPB  
 Misc : WG1319953  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 12 10:00:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•

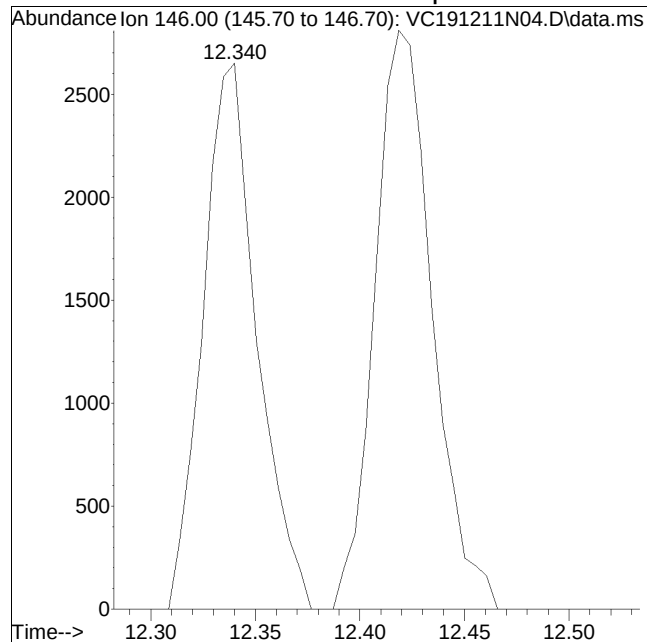




# Manual Integration Report

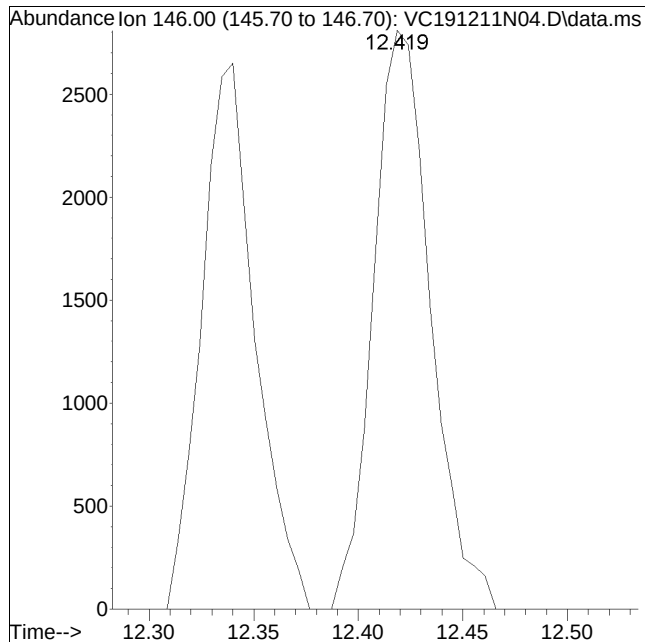
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Data File : VC191211N04.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 6:43 pm Instrument : Charlie  
Sample : I8260STD1PPB Quant Date : 12/12/2019 10:00 am

## Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 4743

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 5369 M3

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N05.D  
 Acq On : 11 Dec 2019 7:11 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD2PPB  
 Misc : WG1319953  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 10:00:26 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Fluorobenzene             | 6.211          | 96   | 127553     | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 125548     |                |      | Recovery = | 101.60% |        |          |
| 59) Chlorobenzene-d5         | 9.760          | 117  | 91595      | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 92632      |                |      | Recovery = | 98.88%  |        |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.408         | 152  | 47982      | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 97.24%  |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 36) Dibromofluoromethane     | 5.398          | 113  | 35792      | 19.782  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 98.91%  |        |          |
| 43) 1,2-Dichloroethane-d4    | 5.933          | 65   | 43317      | 20.064  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.32% |        |          |
| 60) Toluene-d8               | 7.910          | 98   | 126429     | 20.208  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 101.04% |        |          |
| 83) 4-Bromofluorobenzene     | 11.223         | 95   | 51017      | 20.470  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.35% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 2544       | 2.068   | ug/L   | 93       |
| 3) Chloromethane             | 1.933          | 50   | 5186       | 2.160   | ug/L   | 90       |
| 4) Vinyl chloride            | 2.001          | 62   | 4488       | 1.966   | ug/L   | 95       |
| 5) Bromomethane              | 2.326          | 94   | 2253       | 1.981   | ug/L   | 93       |
| 6) Chloroethane              | 2.452          | 64   | 2375       | 2.021   | ug/L   | 88       |
| 7) Trichlorofluoromethane    | 2.593          | 101  | 4968       | 2.226   | ug/L   | 99       |
| 8) Ethyl ether               | 2.908          | 74   | 2220       | 1.998   | ug/L # | 21       |
| 10) 1,1-Dichloroethene       | 3.096          | 96   | 3212       | 1.961   | ug/L # | 51       |
| 11) Carbon disulfide         | 3.128          | 76   | 10891      | 2.025   | ug/L   | 99       |
| 12) Freon-113                | 3.133          | 101  | 3306       | 1.954   | ug/L # | 74       |
| 14) Acrolein                 | 3.437          | 56   | 791        | 1.560   | ug/L   | 99       |
| 15) Methylene chloride       | 3.673          | 84   | 5629       | 2.364   | ug/L # | 58       |
| 17) Acetone                  | 3.731          | 43   | 2366       | 2.725   | ug/L # | 87       |
| 18) trans-1,2-Dichloroethene | 3.830          | 96   | 3814       | 1.902   | ug/L # | 66       |
| 19) Methyl acetate           | 3.846          | 43   | 4533       | 1.911   | ug/L # | 70       |
| 20) Methyl tert-butyl ether  | 3.935          | 73   | 12438      | 1.826   | ug/L # | 65       |
| 21) tert-Butyl alcohol       | 4.035          | 59   | 3979       | 9.342   | ug/L   | 98       |
| 22) Diisopropyl ether        | 4.292          | 45   | 19689      | 1.823   | ug/L # | 86       |
| 23) 1,1-Dichloroethane       | 4.423          | 63   | 9279       | 1.930   | ug/L   | 94       |
| 24) Halothane                | 4.470          | 117  | 2884       | 1.822   | ug/L   | 98       |
| 25) Acrylonitrile            | 4.502          | 53   | 1452       | 1.416   | ug/L # | 67       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N05.D  
 Acq On : 11 Dec 2019 7:11 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD2PPB  
 Misc : WG1319953  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 10:00:26 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.648  | 59   | 18058    | 1.824  | ug/L   | 88       |
| 27) Vinyl acetate             | 4.675  | 43   | 10290    | 1.439  | ug/L # | 83       |
| 28) cis-1,2-Dichloroethene    | 4.952  | 96   | 4477     | 1.883  | ug/L # | 63       |
| 29) 2,2-Dichloropropane       | 5.047  | 77   | 5856     | 1.908  | ug/L # | 75       |
| 30) Bromochloromethane        | 5.152  | 128  | 2097     | 1.867  | ug/L # | 43       |
| 31) Cyclohexane               | 5.146  | 56   | 8497     | 1.936  | ug/L # | 59       |
| 32) Chloroform                | 5.220  | 83   | 7943     | 1.940  | ug/L # | 91       |
| 33) Ethyl acetate             | 5.346  | 43   | 6012     | 1.748  | ug/L # | 81       |
| 34) Carbon tetrachloride      | 5.356  | 117  | 5588     | 1.937  | ug/L   | 95       |
| 35) Tetrahydrofuran           | 5.382  | 42   | 2082     | 1.936  | ug/L # | 57       |
| 37) 1,1,1-Trichloroethane     | 5.419  | 97   | 6415     | 1.949  | ug/L # | 85       |
| 39) 2-Butanone                | 5.545  | 43   | 3227M1   | 2.068  | ug/L   |          |
| 40) 1,1-Dichloropropene       | 5.545  | 75   | 5418     | 1.917  | ug/L   | 94       |
| 41) Benzene                   | 5.791  | 78   | 16707    | 1.905  | ug/L # | 88       |
| 42) tert-Amyl methyl ether    | 5.896  | 73   | 12774    | 1.793  | ug/L # | 85       |
| 44) 1,2-Dichloroethane        | 6.001  | 62   | 7741     | 1.925  | ug/L   | 95       |
| 47) Methyl cyclohexane        | 6.384  | 83   | 6382     | 1.915  | ug/L # | 41       |
| 48) Trichloroethene           | 6.405  | 95   | 4090     | 1.887  | ug/L   | 91       |
| 50) Dibromomethane            | 6.856  | 93   | 2480     | 1.650  | ug/L   | 87       |
| 51) 1,2-Dichloropropane       | 6.940  | 63   | 5171     | 1.806  | ug/L # | 93       |
| 53) 2-Chloroethyl vinyl ether | 7.647  | 63   | 1962     | 1.184  | ug/L # | 64       |
| 54) Bromodichloromethane      | 7.013  | 83   | 6057     | 1.856  | ug/L # | 95       |
| 57) 1,4-Dioxane               | 7.238  | 88   | 1424     | 55.692 | ug/L # | 66       |
| 58) cis-1,3-Dichloropropene   | 7.716  | 75   | 6351     | 1.784  | ug/L # | 75       |
| 61) Toluene                   | 7.973  | 92   | 10387    | 1.945  | ug/L   | 99       |
| 62) 4-Methyl-2-pentanone      | 8.413  | 58   | 1978     | 1.563  | ug/L # | 85       |
| 63) Tetrachloroethene         | 8.423  | 166  | 3972     | 1.935  | ug/L   | 93       |
| 65) trans-1,3-Dichloropropene | 8.465  | 75   | 5475     | 1.877  | ug/L # | 77       |
| 67) Ethyl methacrylate        | 8.644  | 69   | 4417     | 1.363  | ug/L   | 93       |
| 68) 1,1,2-Trichloroethane     | 8.644  | 83   | 3417     | 1.921  | ug/L   | 95       |
| 69) Chlorodibromomethane      | 8.859  | 129  | 4147     | 1.726  | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.974  | 76   | 6706     | 1.823  | ug/L   | 96       |
| 71) 1,2-Dibromoethane         | 9.152  | 107  | 3503     | 1.692  | ug/L   | 99       |
| 72) 2-Hexanone                | 9.435  | 43   | 3202     | 1.424  | ug/L # | 75       |
| 73) Chlorobenzene             | 9.781  | 112  | 12045    | 1.916  | ug/L # | 82       |
| 74) Ethylbenzene              | 9.818  | 91   | 20279    | 1.964  | ug/L   | 95       |
| 75) 1,1,1,2-Tetrachloroethane | 9.860  | 131  | 4193     | 1.877  | ug/L   | 94       |
| 76) p/m Xylene                | 10.002 | 106  | 14732    | 3.798  | ug/L   | 88       |
| 77) o Xylene                  | 10.526 | 106  | 14431    | 3.807  | ug/L   | 90       |
| 78) Styrene                   | 10.599 | 104  | 22717    | 3.581  | ug/L   | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N05.D  
 Acq On : 11 Dec 2019 7:11 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD2PPB  
 Misc : WG1319953  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 10:00:26 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 80)  | Bromoform                 | 10.631 | 173  | 2612     | 1.676 | ug/L   | 91       |
| 82)  | Isopropylbenzene          | 10.898 | 105  | 18629    | 1.933 | ug/L   | 96       |
| 84)  | Bromobenzene              | 11.339 | 156  | 4919     | 1.920 | ug/L   | 96       |
| 85)  | n-Propylbenzene           | 11.370 | 91   | 23405    | 1.966 | ug/L   | 95       |
| 86)  | 1,4-Dichlorobutane        | 11.391 | 55   | 9804     | 1.918 | ug/L   | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.454 | 83   | 5799     | 1.944 | ug/L   | 98       |
| 88)  | 4-Ethyltoluene            | 11.491 | 105  | 19902    | 1.938 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.538 | 91   | 14812M1  | 1.968 | ug/L   |          |
| 90)  | 1,3,5-Trimethylbenzene    | 11.585 | 105  | 16567    | 1.961 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 11.595 | 75   | 4704     | 1.952 | ug/L   | 91       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.648 | 53   | 1623     | 1.546 | ug/L # | 48       |
| 93)  | 4-Chlorotoluene           | 11.716 | 91   | 15374    | 1.978 | ug/L   | 89       |
| 94)  | tert-Butylbenzene         | 11.915 | 119  | 13426    | 1.945 | ug/L   | 91       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 16179    | 1.911 | ug/L   | 95       |
| 98)  | sec-Butylbenzene          | 12.104 | 105  | 20730    | 1.965 | ug/L   | 97       |
| 99)  | p-Isopropyltoluene        | 12.256 | 119  | 17213    | 1.936 | ug/L   | 96       |
| 100) | 1,3-Dichlorobenzene       | 12.340 | 146  | 9820     | 1.977 | ug/L   | 98       |
| 101) | 1,4-Dichlorobenzene       | 12.424 | 146  | 10324M3  | 1.983 | ug/L   |          |
| 102) | p-Diethylbenzene          | 12.623 | 119  | 10325    | 1.875 | ug/L   | 96       |
| 103) | n-Butylbenzene            | 12.681 | 91   | 16840    | 1.957 | ug/L   | 97       |
| 104) | 1,2-Dichlorobenzene       | 12.843 | 146  | 9213     | 1.918 | ug/L   | 94       |
| 105) | 1,2,4,5-Tetramethylben... | 13.410 | 119  | 16788    | 1.838 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.614 | 155  | 754      | 1.601 | ug/L   | 91       |
| 107) | 1,3,5-Trichlorobenzene    | 13.645 | 180  | 7004     | 1.939 | ug/L # | 93       |
| 108) | Hexachlorobutadiene       | 14.206 | 225  | 2888     | 1.971 | ug/L   | 98       |
| 109) | 1,2,4-Trichlorobenzene    | 14.238 | 180  | 6357     | 1.907 | ug/L   | 98       |
| 110) | Naphthalene               | 14.526 | 128  | 16137    | 1.835 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.699 | 180  | 6326     | 1.956 | ug/L   | 98       |

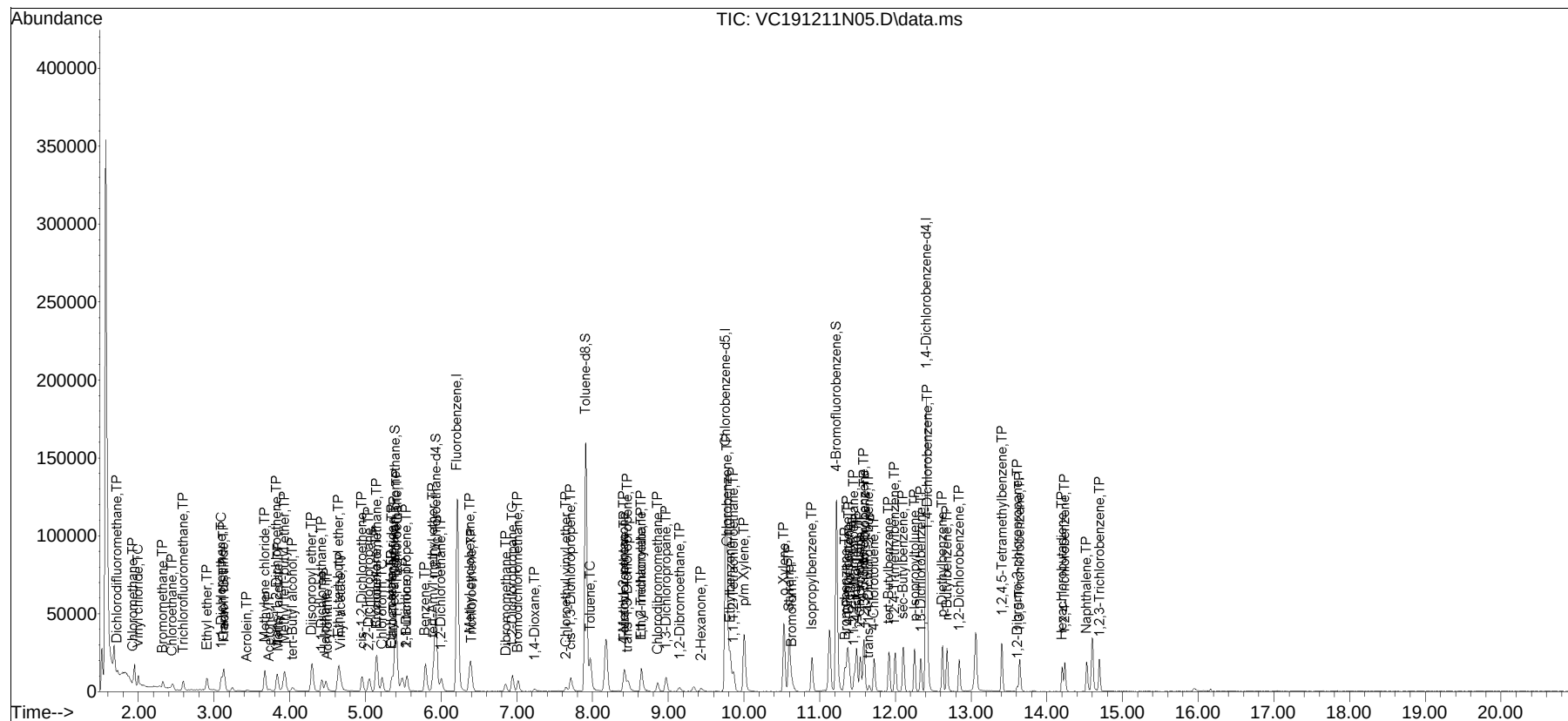
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N05.D  
 Acq On : 11 Dec 2019 7:11 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD2PPB  
 Misc : WG1319953  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 12 10:00:26 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

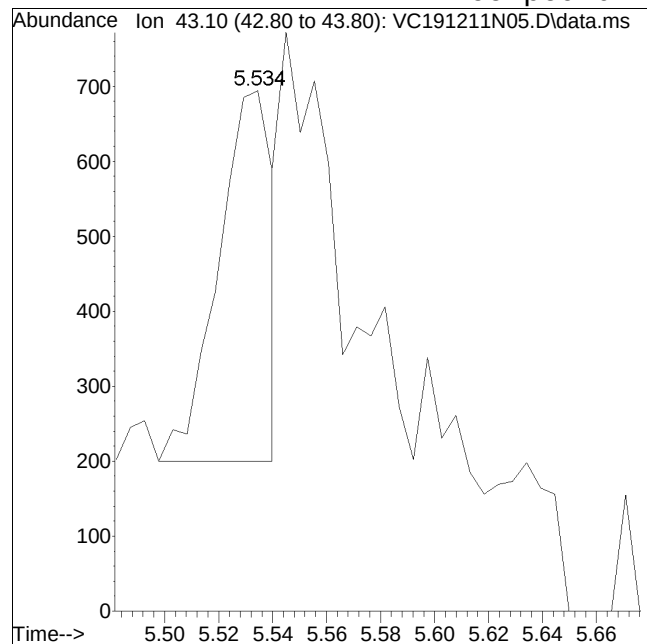
Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

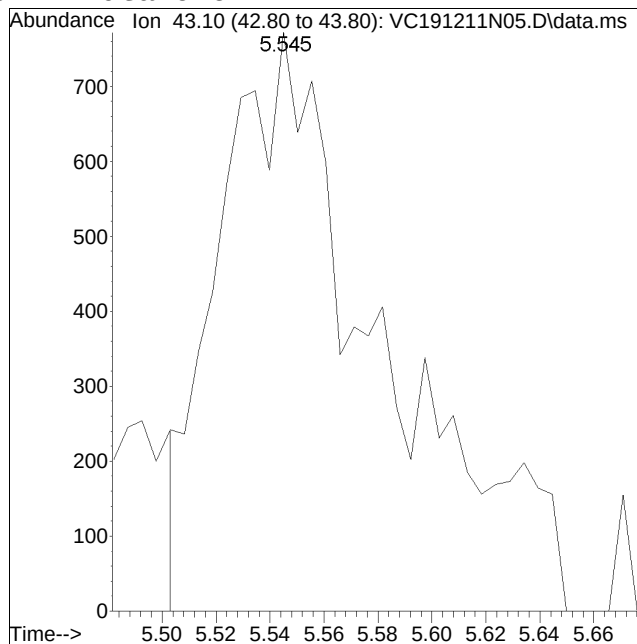
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N05.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 7:11 pm Instrument : Charlie  
Sample : I8260STD2PPB Quant Date : 12/12/2019 10:00 am

## Compound #39: 2-Butanone



Original Peak Response = 689

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

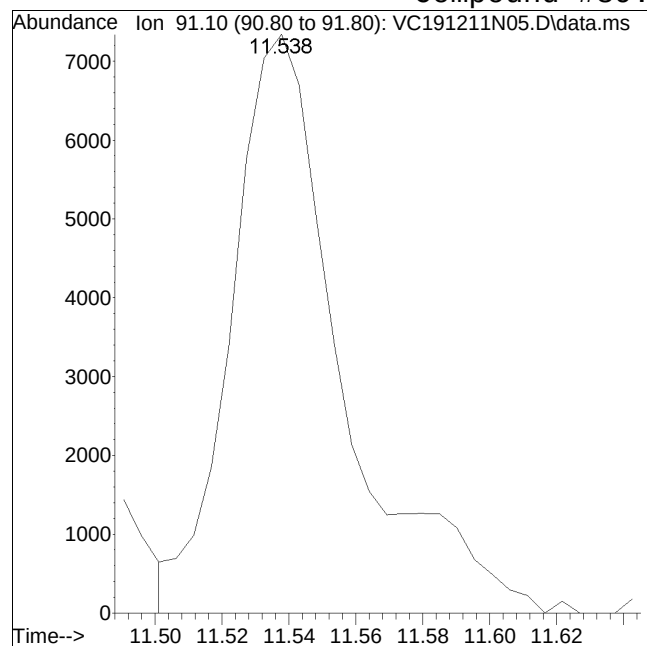


Manual Peak Response = 3227 M1

# Manual Integration Report

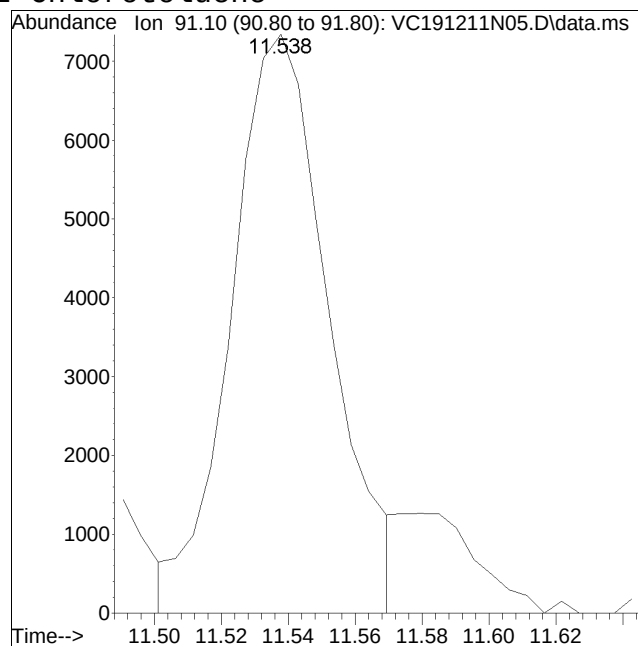
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N05.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 7:11 pm Instrument : Charlie  
Sample : I8260STD2PPB Quant Date : 12/12/2019 10:00 am

## Compound #89: 2-Chlorotoluene



Original Peak Response = 16923

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

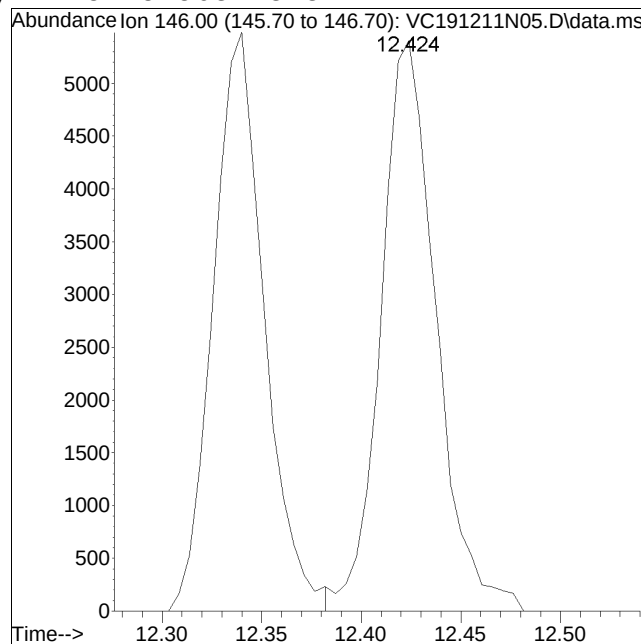
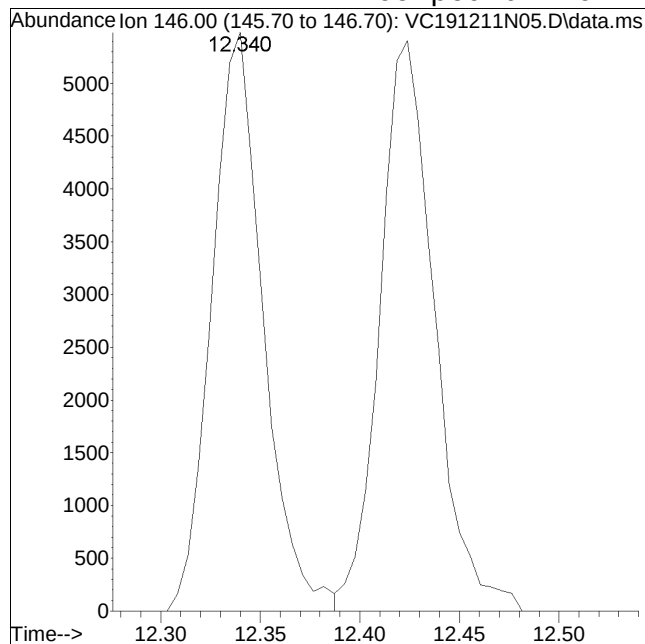


Manual Peak Response = 14812 M1

# Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N05.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 7:11 pm Instrument : Charlie  
Sample : I8260STD2PPB Quant Date : 12/12/2019 10:00 am

## Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 9820

Manual Peak Response = 10324 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N06.D  
 Acq On : 11 Dec 2019 7:38 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD4PPB  
 Misc : WG1319953  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 10:00:35 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.206          | 96   | 118680     | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 125548     |                |      | Recovery = | 94.53%  |       |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 85816      | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 92632      |                |      | Recovery = | 92.64%  |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 45499      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 92.21%  |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 34202      | 20.316  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 101.58% |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.923          | 65   | 40983      | 20.402  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.01% |       |          |
| 60) Toluene-d8               | 7.899          | 98   | 118448     | 20.208  | ug/L  | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 101.04% |       |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 47731      | 20.197  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.98% |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.718          | 85   | 5264       | 4.599   | ug/L  | # 95     |
| 3) Chloromethane             | 1.927          | 50   | 9342       | 4.181   | ug/L  | 93       |
| 4) Vinyl chloride            | 1.996          | 62   | 9267       | 4.363   | ug/L  | 94       |
| 5) Bromomethane              | 2.321          | 94   | 3980       | 4.620   | ug/L  | 93       |
| 6) Chloroethane              | 2.446          | 64   | 4896       | 4.477   | ug/L  | 94       |
| 7) Trichlorofluoromethane    | 2.588          | 101  | 9930       | 4.782   | ug/L  | 99       |
| 8) Ethyl ether               | 2.903          | 74   | 4674       | 4.522   | ug/L  | # 31     |
| 10) 1,1-Dichloroethene       | 3.097          | 96   | 6779       | 4.448   | ug/L  | # 53     |
| 11) Carbon disulfide         | 3.123          | 76   | 20869      | 4.171   | ug/L  | 98       |
| 12) Freon-113                | 3.133          | 101  | 7205       | 4.577   | ug/L  | 89       |
| 14) Acrolein                 | 3.432          | 56   | 1802       | 3.819   | ug/L  | 96       |
| 15) Methylene chloride       | 3.668          | 84   | 9667       | 4.364   | ug/L  | # 51     |
| 17) Acetone                  | 3.720          | 43   | 3959       | 4.900   | ug/L  | # 84     |
| 18) trans-1,2-Dichloroethene | 3.825          | 96   | 7767       | 4.163   | ug/L  | # 66     |
| 19) Methyl acetate           | 3.841          | 43   | 8949       | 4.055   | ug/L  | # 80     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 25946      | 4.093   | ug/L  | # 73     |
| 21) tert-Butyl alcohol       | 4.035          | 59   | 7754       | 19.566  | ug/L  | 96       |
| 22) Diisopropyl ether        | 4.287          | 45   | 41131      | 4.093   | ug/L  | # 86     |
| 23) 1,1-Dichloroethane       | 4.418          | 63   | 18904      | 4.225   | ug/L  | 94       |
| 24) Halothane                | 4.470          | 117  | 6303       | 4.280   | ug/L  | 97       |
| 25) Acrylonitrile            | 4.486          | 53   | 3525       | 3.694   | ug/L  | 86       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N06.D  
 Acq On : 11 Dec 2019 7:38 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD4PPB  
 Misc : WG1319953  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 10:00:35 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 26) Ethyl tert-butyl ether    | 4.638  | 59   | 37128    | 4.030   | ug/L  | # 89     |
| 27) Vinyl acetate             | 4.664  | 43   | 24966    | 3.752   | ug/L  | # 87     |
| 28) cis-1,2-Dichloroethene    | 4.947  | 96   | 9297     | 4.203   | ug/L  | # 67     |
| 29) 2,2-Dichloropropane       | 5.042  | 77   | 12076    | 4.228   | ug/L  | # 79     |
| 30) Bromochloromethane        | 5.141  | 128  | 4468     | 4.275   | ug/L  | # 43     |
| 31) Cyclohexane               | 5.141  | 56   | 17573    | 4.304   | ug/L  | # 60     |
| 32) Chloroform                | 5.215  | 83   | 16368    | 4.297   | ug/L  | # 92     |
| 33) Ethyl acetate             | 5.330  | 43   | 12644    | 3.950   | ug/L  | # 91     |
| 34) Carbon tetrachloride      | 5.346  | 117  | 11618    | 4.328   | ug/L  | # 96     |
| 35) Tetrahydrofuran           | 5.372  | 42   | 4471     | 4.469   | ug/L  | # 63     |
| 37) 1,1,1-Trichloroethane     | 5.414  | 97   | 12618    | 4.121   | ug/L  | # 84     |
| 39) 2-Butanone                | 5.524  | 43   | 6036     | 4.157   | ug/L  | # 64     |
| 40) 1,1-Dichloropropene       | 5.540  | 75   | 11049    | 4.201   | ug/L  | # 96     |
| 41) Benzene                   | 5.786  | 78   | 33968    | 4.163   | ug/L  | # 88     |
| 42) tert-Amyl methyl ether    | 5.891  | 73   | 26872    | 4.054   | ug/L  | # 86     |
| 44) 1,2-Dichloroethane        | 5.996  | 62   | 16011    | 4.279   | ug/L  | # 95     |
| 47) Methyl cyclohexane        | 6.373  | 83   | 13157    | 4.243   | ug/L  | # 43     |
| 48) Trichloroethene           | 6.394  | 95   | 8448     | 4.190   | ug/L  | # 90     |
| 50) Dibromomethane            | 6.840  | 93   | 5783     | 4.136   | ug/L  | # 92     |
| 51) 1,2-Dichloropropane       | 6.929  | 63   | 10905    | 4.093   | ug/L  | # 91     |
| 53) 2-Chloroethyl vinyl ether | 7.642  | 63   | 4974     | 3.225   | ug/L  | # 64     |
| 54) Bromodichloromethane      | 7.008  | 83   | 12500    | 4.117   | ug/L  | # 98     |
| 57) 1,4-Dioxane               | 7.223  | 88   | 3978     | 167.210 | ug/L  | # 62     |
| 58) cis-1,3-Dichloropropene   | 7.700  | 75   | 13986    | 3.857   | ug/L  | # 78     |
| 61) Toluene                   | 7.962  | 92   | 21168    | 4.230   | ug/L  | # 96     |
| 62) 4-Methyl-2-pentanone      | 8.392  | 58   | 4354     | 3.673   | ug/L  | # 93     |
| 63) Tetrachloroethene         | 8.418  | 166  | 8237     | 4.284   | ug/L  | # 92     |
| 65) trans-1,3-Dichloropropene | 8.460  | 75   | 12658    | 3.996   | ug/L  | # 78     |
| 67) Ethyl methacrylate        | 8.633  | 69   | 9904     | 3.262   | ug/L  | # 93     |
| 68) 1,1,2-Trichloroethane     | 8.633  | 83   | 6869     | 4.121   | ug/L  | # 97     |
| 69) Chlorodibromomethane      | 8.848  | 129  | 9307     | 4.133   | ug/L  | # 97     |
| 70) 1,3-Dichloropropane       | 8.958  | 76   | 14812    | 4.297   | ug/L  | # 98     |
| 71) 1,2-Dibromoethane         | 9.131  | 107  | 8218     | 4.236   | ug/L  | # 99     |
| 72) 2-Hexanone                | 9.414  | 43   | 7573     | 3.594   | ug/L  | # 90     |
| 73) Chlorobenzene             | 9.776  | 112  | 25075    | 4.257   | ug/L  | # 89     |
| 74) Ethylbenzene              | 9.808  | 91   | 39963    | 4.131   | ug/L  | # 97     |
| 75) 1,1,1,2-Tetrachloroethane | 9.860  | 131  | 8827     | 4.218   | ug/L  | # 97     |
| 76) p/m Xylene                | 9.996  | 106  | 30733    | 8.457   | ug/L  | # 91     |
| 77) o Xylene                  | 10.521 | 106  | 30177    | 8.497   | ug/L  | # 91     |
| 78) Styrene                   | 10.589 | 104  | 49614    | 8.347   | ug/L  | # 91     |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N06.D  
 Acq On : 11 Dec 2019 7:38 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD4PPB  
 Misc : WG1319953  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 10:00:35 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 80)  | Bromoform                 | 10.620 | 173  | 5691     | 3.851 | ug/L   | 100      |
| 82)  | Isopropylbenzene          | 10.893 | 105  | 37927    | 4.150 | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.333 | 156  | 10287    | 4.234 | ug/L   | 96       |
| 85)  | n-Propylbenzene           | 11.360 | 91   | 48005    | 4.252 | ug/L   | 96       |
| 86)  | 1,4-Dichlorobutane        | 11.386 | 55   | 20283    | 4.185 | ug/L   | 98       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 11991    | 4.238 | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.480 | 105  | 40536    | 4.163 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.533 | 91   | 30000M1  | 4.204 | ug/L   |          |
| 90)  | 1,3,5-Trimethylbenzene    | 11.575 | 105  | 33413    | 4.170 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 11.590 | 75   | 9874     | 4.321 | ug/L   | 91       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.643 | 53   | 3816     | 3.834 | ug/L # | 54       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 31579    | 4.284 | ug/L   | 89       |
| 94)  | tert-Butylbenzene         | 11.910 | 119  | 27409    | 4.188 | ug/L   | 91       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 33043    | 4.116 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 42629    | 4.262 | ug/L   | 97       |
| 99)  | p-Isopropyltoluene        | 12.246 | 119  | 34914    | 4.142 | ug/L   | 96       |
| 100) | 1,3-Dichlorobenzene       | 12.330 | 146  | 19348    | 4.109 | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 20973    | 4.248 | ug/L   | 95       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 21450    | 4.107 | ug/L   | 98       |
| 103) | n-Butylbenzene            | 12.676 | 91   | 34700    | 4.253 | ug/L   | 97       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 18907    | 4.152 | ug/L   | 98       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 34936    | 4.034 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.614 | 155  | 1537     | 3.441 | ug/L   | 96       |
| 107) | 1,3,5-Trichlorobenzene    | 13.640 | 180  | 14166    | 4.135 | ug/L # | 94       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 5751     | 4.140 | ug/L   | 98       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 12998    | 4.111 | ug/L   | 97       |
| 110) | Naphthalene               | 14.526 | 128  | 32748    | 3.928 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.694 | 180  | 12717    | 4.147 | ug/L   | 99       |

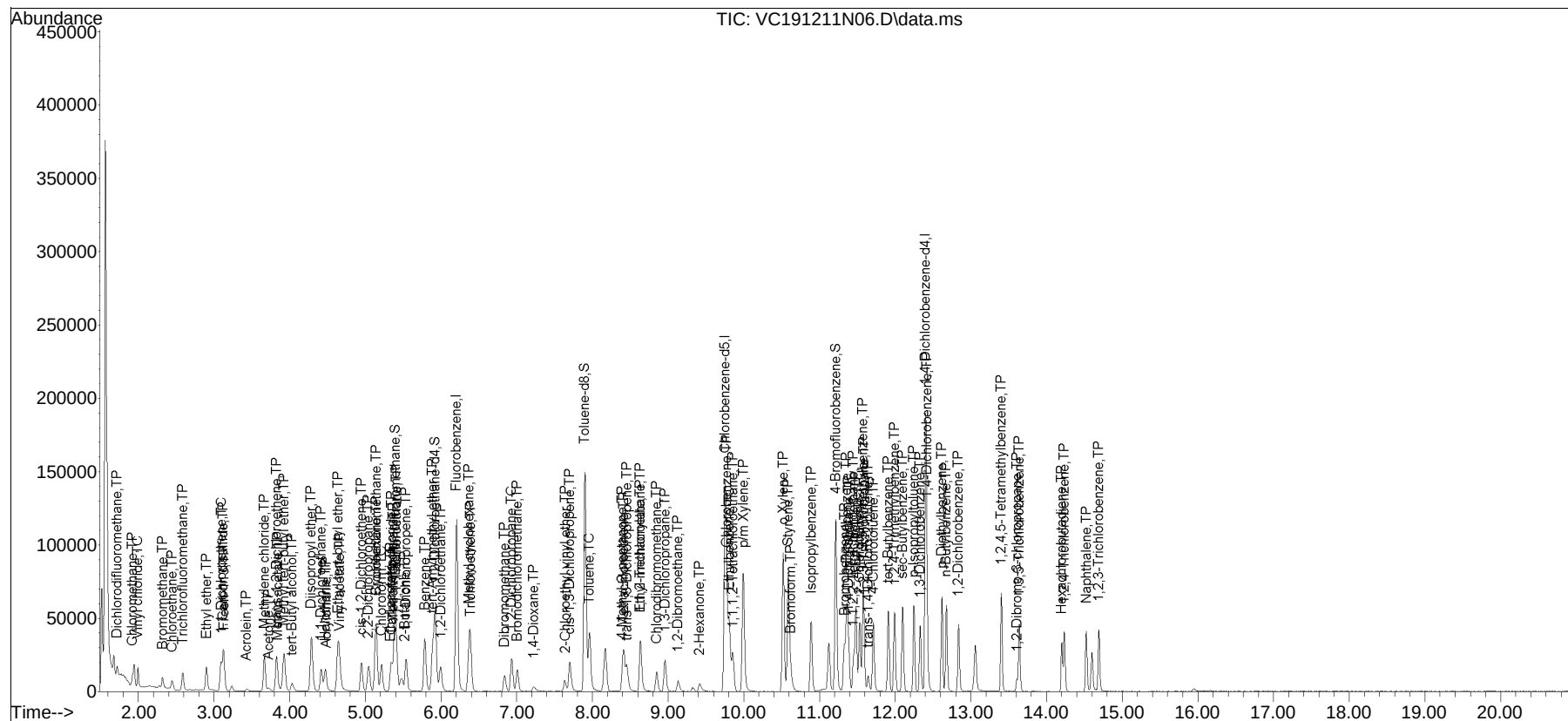
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N06.D  
 Acq On : 11 Dec 2019 7:38 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD4PPB  
 Misc : WG1319953  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 12 10:00:35 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

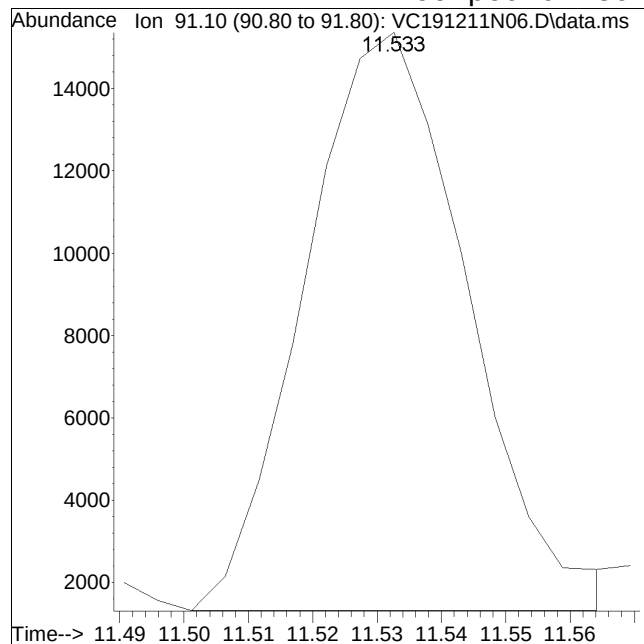
Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

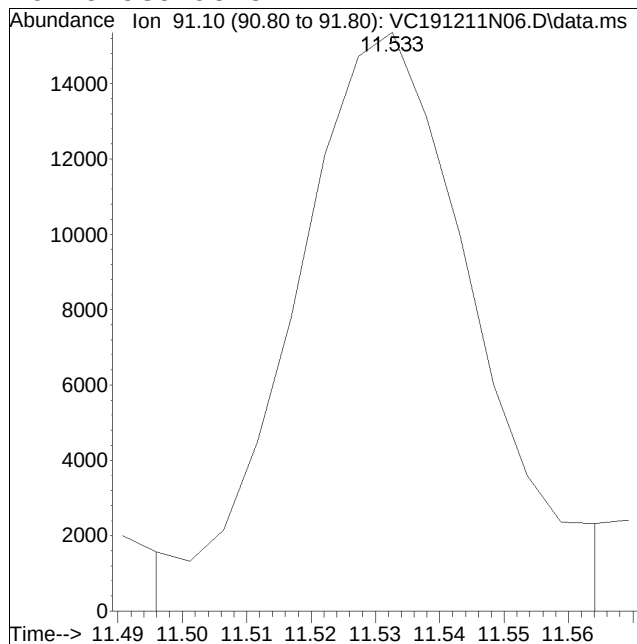
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N06.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 7:38 pm Instrument : Charlie  
Sample : I8260STD4PPB Quant Date : 12/12/2019 10:00 am

## Compound #89: 2-Chlorotoluene



Original Peak Response = 24586

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



Manual Peak Response = 30000 M1

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N07.D  
 Acq On : 11 Dec 2019 8:05 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD20PPB  
 Misc : WG1319953  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 10:00:43 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.206          | 96   | 123984     | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 125548     |                |      | Recovery = | 98.75%  |       |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 90092      | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 92632      |                |      | Recovery = | 97.26%  |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 47557      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 96.38%  |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 35259      | 20.048  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.24% |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.922          | 65   | 41063      | 19.568  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.84%  |       |          |
| 60) Toluene-d8               | 7.899          | 98   | 123128     | 20.009  | ug/L  | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.05% |       |          |
| 83) 4-Bromofluorobenzene     | 11.213         | 95   | 49561      | 20.063  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.32% |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 23177      | 19.385  | ug/L  | # 96     |
| 3) Chloromethane             | 1.927          | 50   | 42591      | 18.246  | ug/L  | 99       |
| 4) Vinyl chloride            | 1.995          | 62   | 43975      | 19.819  | ug/L  | 95       |
| 5) Bromomethane              | 2.320          | 94   | 17444      | 22.440  | ug/L  | 97       |
| 6) Chloroethane              | 2.446          | 64   | 23997      | 21.007  | ug/L  | 94       |
| 7) Trichlorofluoromethane    | 2.588          | 101  | 46310      | 21.348  | ug/L  | 100      |
| 8) Ethyl ether               | 2.902          | 74   | 23396      | 21.666  | ug/L  | # 38     |
| 10) 1,1-Dichloroethene       | 3.091          | 96   | 31648      | 19.876  | ug/L  | # 52     |
| 11) Carbon disulfide         | 3.123          | 76   | 98404      | 18.826  | ug/L  | 100      |
| 12) Freon-113                | 3.128          | 101  | 32668      | 19.866  | ug/L  | 85       |
| 14) Acrolein                 | 3.432          | 56   | 9977       | 20.240  | ug/L  | 94       |
| 15) Methylene chloride       | 3.668          | 84   | 44588      | 19.267  | ug/L  | # 54     |
| 17) Acetone                  | 3.720          | 43   | 17113      | 20.276  | ug/L  | 99       |
| 18) trans-1,2-Dichloroethene | 3.825          | 96   | 38943      | 19.979  | ug/L  | # 67     |
| 19) Methyl acetate           | 3.836          | 43   | 45434      | 19.705  | ug/L  | # 85     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 132366     | 19.987  | ug/L  | # 78     |
| 21) tert-Butyl alcohol       | 4.030          | 59   | 40118      | 96.899  | ug/L  | 95       |
| 22) Diisopropyl ether        | 4.287          | 45   | 209799     | 19.983  | ug/L  | # 86     |
| 23) 1,1-Dichloroethane       | 4.418          | 63   | 93304      | 19.961  | ug/L  | 96       |
| 24) Halothane                | 4.470          | 117  | 30667      | 19.935  | ug/L  | 99       |
| 25) Acrylonitrile            | 4.470          | 53   | 20117      | 20.179  | ug/L  | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N07.D  
 Acq On : 11 Dec 2019 8:05 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD20PPB  
 Misc : WG1319953  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 10:00:43 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.638  | 59   | 193632   | 20.119   | ug/L   | 86       |
| 27) Vinyl acetate             | 4.654  | 43   | 143019   | 20.576   | ug/L # | 90       |
| 28) cis-1,2-Dichloroethene    | 4.947  | 96   | 47319    | 20.478   | ug/L # | 68       |
| 29) 2,2-Dichloropropane       | 5.042  | 77   | 59247    | 19.858   | ug/L # | 80       |
| 30) Bromochloromethane        | 5.136  | 128  | 23037    | 21.101   | ug/L # | 50       |
| 31) Cyclohexane               | 5.141  | 56   | 84613    | 19.838   | ug/L # | 60       |
| 32) Chloroform                | 5.209  | 83   | 79743    | 20.041   | ug/L # | 93       |
| 33) Ethyl acetate             | 5.319  | 43   | 69269    | 20.717   | ug/L # | 93       |
| 34) Carbon tetrachloride      | 5.346  | 117  | 56424    | 20.122   | ug/L   | 98       |
| 35) Tetrahydrofuran           | 5.367  | 42   | 21351M1  | 20.429   | ug/L   |          |
| 37) 1,1,1-Trichloroethane     | 5.414  | 97   | 63904    | 19.979   | ug/L # | 53       |
| 39) 2-Butanone                | 5.513  | 43   | 27373    | 18.045   | ug/L # | 77       |
| 40) 1,1-Dichloropropene       | 5.534  | 75   | 54601    | 19.873   | ug/L   | 95       |
| 41) Benzene                   | 5.781  | 78   | 167790   | 19.685   | ug/L # | 86       |
| 42) tert-Amyl methyl ether    | 5.891  | 73   | 139087   | 20.085   | ug/L # | 89       |
| 44) 1,2-Dichloroethane        | 5.991  | 62   | 79075    | 20.227   | ug/L   | 96       |
| 47) Methyl cyclohexane        | 6.373  | 83   | 64201    | 19.820   | ug/L # | 45       |
| 48) Trichloroethene           | 6.389  | 95   | 43297    | 20.553   | ug/L   | 91       |
| 50) Dibromomethane            | 6.829  | 93   | 29821    | 20.416   | ug/L   | 93       |
| 51) 1,2-Dichloropropane       | 6.929  | 63   | 56966    | 20.465   | ug/L # | 93       |
| 53) 2-Chloroethyl vinyl ether | 7.626  | 63   | 31775    | 19.720   | ug/L # | 78       |
| 54) Bromodichloromethane      | 7.002  | 83   | 65530    | 20.661   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 7.217  | 88   | 25596    | 1029.866 | ug/L # | 60       |
| 58) cis-1,3-Dichloropropene   | 7.695  | 75   | 77162    | 19.222   | ug/L # | 79       |
| 61) Toluene                   | 7.957  | 92   | 104725   | 19.935   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 8.392  | 58   | 25146    | 20.206   | ug/L # | 95       |
| 63) Tetrachloroethene         | 8.413  | 166  | 40853    | 20.237   | ug/L   | 93       |
| 65) trans-1,3-Dichloropropene | 8.450  | 75   | 71479    | 19.596   | ug/L   | 84       |
| 67) Ethyl methacrylate        | 8.623  | 69   | 62772    | 19.691   | ug/L   | 84       |
| 68) 1,1,2-Trichloroethane     | 8.633  | 83   | 36149    | 20.658   | ug/L   | 99       |
| 69) Chlorodibromomethane      | 8.848  | 129  | 50227    | 21.248   | ug/L   | 99       |
| 70) 1,3-Dichloropropane       | 8.958  | 76   | 75097    | 20.751   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 9.126  | 107  | 43333    | 21.276   | ug/L   | 98       |
| 72) 2-Hexanone                | 9.404  | 43   | 45375    | 20.514   | ug/L   | 96       |
| 73) Chlorobenzene             | 9.771  | 112  | 124283   | 20.096   | ug/L   | 91       |
| 74) Ethylbenzene              | 9.802  | 91   | 204102   | 20.097   | ug/L   | 96       |
| 75) 1,1,1,2-Tetrachloroethane | 9.855  | 131  | 46084    | 20.975   | ug/L   | 99       |
| 76) p/m Xylene                | 9.991  | 106  | 158905   | 41.649   | ug/L   | 92       |
| 77) o Xylene                  | 10.521 | 106  | 156442   | 41.958   | ug/L   | 92       |
| 78) Styrene                   | 10.583 | 104  | 264719   | 42.420   | ug/L   | 90       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N07.D  
 Acq On : 11 Dec 2019 8:05 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD20PPB  
 Misc : WG1319953  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 10:00:43 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 80)  | Bromoform                 | 10.615 | 173  | 32370    | 20.955 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.888 | 105  | 197429   | 20.667 | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.323 | 156  | 52700    | 20.752 | ug/L   | 99       |
| 85)  | n-Propylbenzene           | 11.359 | 91   | 240532   | 20.384 | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 11.380 | 55   | 104920   | 20.709 | ug/L   | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 61276    | 20.721 | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.480 | 105  | 208132   | 20.448 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.527 | 91   | 148580   | 19.919 | ug/L   | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.574 | 105  | 173762   | 20.747 | ug/L   | 96       |
| 91)  | 1,2,3-Trichloropropane    | 11.585 | 75   | 48801    | 20.434 | ug/L   | 94       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.637 | 53   | 20266    | 19.482 | ug/L # | 64       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 154348   | 20.032 | ug/L   | 94       |
| 94)  | tert-Butylbenzene         | 11.910 | 119  | 138565   | 20.257 | ug/L   | 93       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.989 | 105  | 173459   | 20.673 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 213044   | 20.378 | ug/L   | 99       |
| 99)  | p-Isopropyltoluene        | 12.246 | 119  | 180710   | 20.510 | ug/L   | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.329 | 146  | 99605    | 20.236 | ug/L   | 98       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 104239   | 20.201 | ug/L   | 96       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 111617   | 20.447 | ug/L   | 97       |
| 103) | n-Butylbenzene            | 12.675 | 91   | 174014   | 20.405 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 96566    | 20.288 | ug/L   | 97       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 186625   | 20.618 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 9208     | 19.722 | ug/L   | 98       |
| 107) | 1,3,5-Trichlorobenzene    | 13.635 | 180  | 71854    | 20.066 | ug/L   | 95       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 28177    | 19.407 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 66020    | 19.978 | ug/L   | 97       |
| 110) | Naphthalene               | 14.521 | 128  | 173812   | 19.946 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.689 | 180  | 62230    | 19.414 | ug/L   | 98       |

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

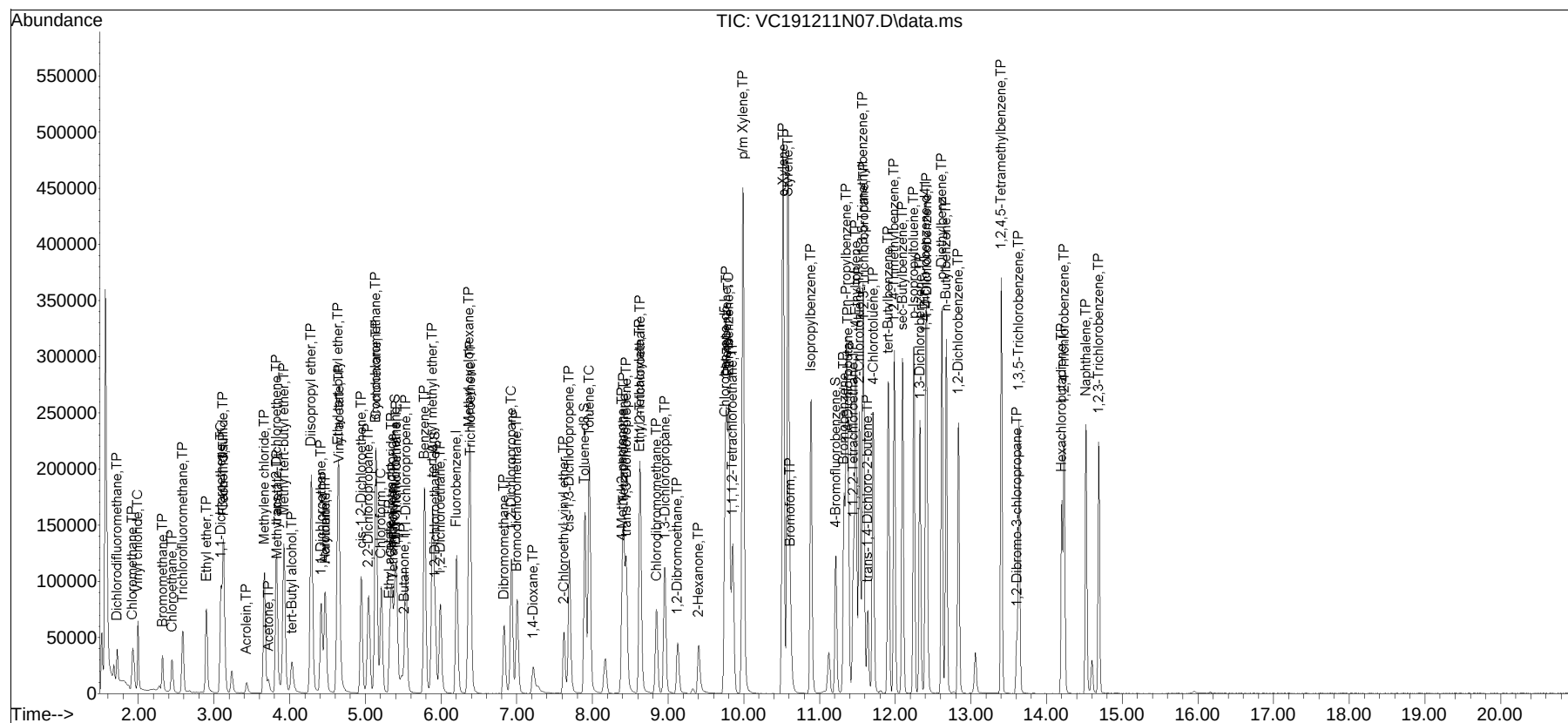


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
Data File : VC191211N07.D  
Acq On : 11 Dec 2019 8:05 pm  
Operator : CHARLIE:MAB  
Sample : I8260STD20PPB  
Misc : WG1319953  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 12 10:00:43 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 12 09:59:41 2019  
Response via : Initial Calibration

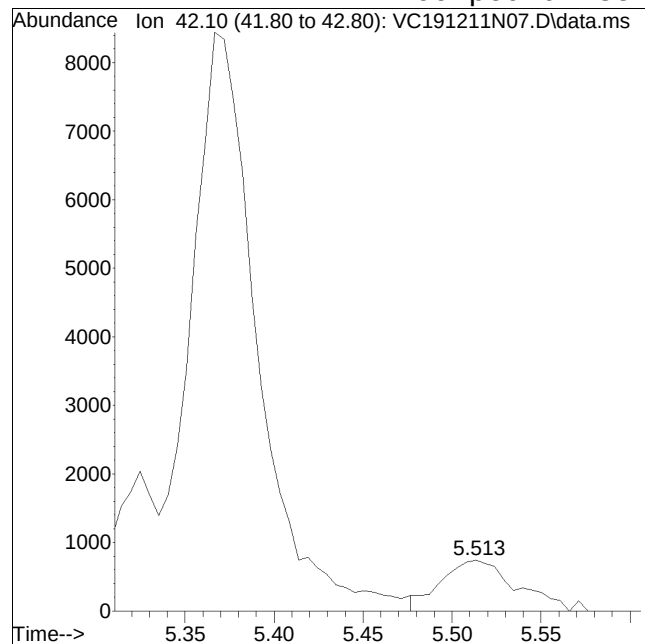
Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

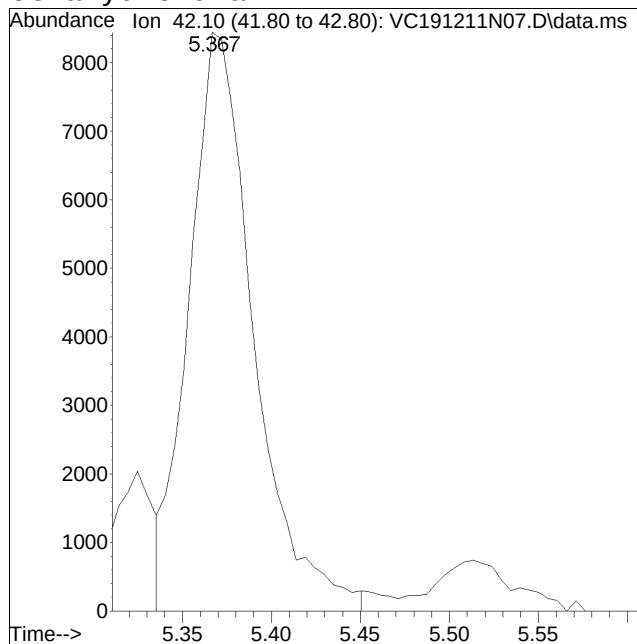
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N07.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 8:05 pm Instrument : Charlie  
Sample : I8260STD20PPB Quant Date : 12/12/2019 10:00 am

## Compound #35: Tetrahydrofuran



Original Peak Response = 2203

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



Manual Peak Response = 21351 M1

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N08.D  
 Acq On : 11 Dec 2019 8:33 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 09:08:59 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 05 13:36:16 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.205          | 96   | 125548     | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 125548     |                |      | Recovery = | 100.00% |       |          |
| 59) Chlorobenzene-d5         | 9.750          | 117  | 92632      | 20.000  | ug/L  | -0.02    |
| Standard Area 1 = 92632      |                |      | Recovery = | 100.00% |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 49342      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 100.00% |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 35397      | 19.514  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.57%  |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.922          | 65   | 41233      | 18.565  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 92.83%  |       |          |
| 60) Toluene-d8               | 7.899          | 98   | 125079     | 23.959  | ug/L  | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 119.80% |       |          |
| 83) 4-Bromofluorobenzene     | 11.213         | 95   | 50744      | 22.871  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 114.35% |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 46819      | 23.839  | ug/L  | # 96     |
| 3) Chloromethane             | 1.927          | 50   | 85986      | 38.569  | ug/L  | 99       |
| 4) Vinyl chloride            | 1.995          | 62   | 89232      | 22.684  | ug/L  | 96       |
| 5) Bromomethane              | 2.320          | 94   | 32169      | 24.837  | ug/L  | 100      |
| 6) Chloroethane              | 2.441          | 64   | 45584      | 14.362  | ug/L  | 95       |
| 7) Trichlorofluoromethane    | 2.588          | 101  | 92290      | 18.059  | ug/L  | 100      |
| 8) Ethyl ether               | 2.897          | 74   | 46374      | 17.771  | ug/L  | # 35     |
| 10) 1,1-Dichloroethene       | 3.091          | 96   | 63734      | 28.304  | ug/L  | # 51     |
| 11) Carbon disulfide         | 3.123          | 76   | 202639     | 29.172  | ug/L  | 100      |
| 12) Freon-113                | 3.128          | 101  | 65986      | 28.145  | ug/L  | 82       |
| 14) Acrolein                 | 3.432          | 56   | 20074      | 35.705  | ug/L  | 92       |
| 15) Methylene chloride       | 3.663          | 84   | 90311      | 30.362  | ug/L  | # 55     |
| 17) Acetone                  | 3.715          | 43   | 31489      | 32.602  | ug/L  | 99       |
| 18) trans-1,2-Dichloroethene | 3.825          | 96   | 78994      | 29.886  | ug/L  | # 67     |
| 19) Methyl acetate           | 3.836          | 43   | 90880      | 34.633  | ug/L  | # 85     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 272069     | 30.201  | ug/L  | # 81     |
| 21) tert-Butyl alcohol       | 4.030          | 59   | 80376      | 147.308 | ug/L  | 93       |
| 22) Diisopropyl ether        | 4.287          | 45   | 438530     | 38.713  | ug/L  | # 85     |
| 23) 1,1-Dichloroethane       | 4.412          | 63   | 190541     | 29.708  | ug/L  | 95       |
| 24) Halothane                | 4.465          | 117  | 61723      | 30.354  | ug/L  | 100      |
| 25) Acrylonitrile            | 4.470          | 53   | 42019      | 37.483  | ug/L  | 98       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N08.D  
 Acq On : 11 Dec 2019 8:33 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 09:08:59 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 05 13:36:16 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.638  | 59   | 402947   | 32.185   | ug/L   | 86       |
| 27) Vinyl acetate             | 4.654  | 43   | 301600   | 39.051   | ug/L # | 90       |
| 28) cis-1,2-Dichloroethene    | 4.942  | 96   | 95144    | 30.887   | ug/L # | 67       |
| 29) 2,2-Dichloropropane       | 5.042  | 77   | 123402   | 28.773   | ug/L # | 81       |
| 30) Bromochloromethane        | 5.136  | 128  | 46626    | 32.267   | ug/L # | 50       |
| 31) Cyclohexane               | 5.141  | 56   | 174419   | 32.263   | ug/L # | 59       |
| 32) Chloroform                | 5.209  | 83   | 163109   | 29.192   | ug/L # | 92       |
| 33) Ethyl acetate             | 5.319  | 43   | 141503   | 38.171   | ug/L # | 92       |
| 34) Carbon tetrachloride      | 5.346  | 117  | 114039   | 28.756   | ug/L   | 99       |
| 35) Tetrahydrofuran           | 5.367  | 42   | 40943M3  | 37.600   | ug/L   |          |
| 37) 1,1,1-Trichloroethane     | 5.409  | 97   | 128645   | 27.951   | ug/L   | 87       |
| 39) 2-Butanone                | 5.508  | 43   | 58769    | 37.885   | ug/L # | 76       |
| 40) 1,1-Dichloropropene       | 5.534  | 75   | 111651   | 30.027   | ug/L   | 96       |
| 41) Benzene                   | 5.781  | 78   | 343401   | 28.797   | ug/L # | 87       |
| 42) tert-Amyl methyl ether    | 5.891  | 73   | 289639   | 30.812   | ug/L   | 91       |
| 44) 1,2-Dichloroethane        | 5.991  | 62   | 160583   | 28.478   | ug/L   | 96       |
| 47) Methyl cyclohexane        | 6.373  | 83   | 132486   | 30.192   | ug/L # | 44       |
| 48) Trichloroethene           | 6.384  | 95   | 86695    | 29.677   | ug/L   | 93       |
| 50) Dibromomethane            | 6.829  | 93   | 61755    | 29.336   | ug/L   | 92       |
| 51) 1,2-Dichloropropane       | 6.929  | 63   | 116738   | 30.620   | ug/L # | 93       |
| 53) 2-Chloroethyl vinyl ether | 7.621  | 63   | 67251    | 35.152   | ug/L # | 78       |
| 54) Bromodichloromethane      | 7.002  | 83   | 134301   | 30.064   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 7.212  | 88   | 51028    | 1371.620 | ug/L # | 52       |
| 58) cis-1,3-Dichloropropene   | 7.695  | 75   | 163881   | 33.307   | ug/L # | 81       |
| 61) Toluene                   | 7.957  | 92   | 215638   | 37.957   | ug/L   | 97       |
| 62) 4-Methyl-2-pentanone      | 8.392  | 58   | 52565    | 41.475   | ug/L # | 94       |
| 63) Tetrachloroethene         | 8.413  | 166  | 83696    | 38.335   | ug/L   | 93       |
| 65) trans-1,3-Dichloropropene | 8.444  | 75   | 151098   | 40.118   | ug/L   | 83       |
| 67) Ethyl methacrylate        | 8.623  | 69   | 133848   | 40.998   | ug/L   | 82       |
| 68) 1,1,2-Trichloroethane     | 8.633  | 83   | 74454    | 37.557   | ug/L   | 98       |
| 69) Chlorodibromomethane      | 8.848  | 129  | 105429   | 40.777   | ug/L   | 99       |
| 70) 1,3-Dichloropropane       | 8.958  | 76   | 154698   | 38.235   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 9.126  | 107  | 88524    | 39.745   | ug/L   | 99       |
| 72) 2-Hexanone                | 9.399  | 43   | 94162    | 45.012   | ug/L   | 97       |
| 73) Chlorobenzene             | 9.776  | 112  | 255965   | 37.664   | ug/L   | 92       |
| 74) Ethylbenzene              | 9.802  | 91   | 417434   | 37.258   | ug/L   | 97       |
| 75) 1,1,1,2-Tetrachloroethane | 9.855  | 131  | 95883    | 37.572   | ug/L   | 99       |
| 76) p/m Xylene                | 9.991  | 106  | 324067   | 77.674   | ug/L   | 92       |
| 77) o Xylene                  | 10.521 | 106  | 323422   | 75.820   | ug/L   | 93       |
| 78) Styrene                   | 10.583 | 104  | 560613   | 77.940   | ug/L   | 91       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N08.D  
 Acq On : 11 Dec 2019 8:33 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 09:08:59 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 05 13:36:16 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 80)  | Bromoform                 | 10.615 | 173  | 69823    | 46.847 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.888 | 105  | 405689   | 44.248 | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.328 | 156  | 107102   | 43.590 | ug/L   | 98       |
| 85)  | n-Propylbenzene           | 11.359 | 91   | 493651   | 42.478 | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 11.380 | 55   | 214364   | 45.672 | ug/L   | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 124747   | 41.854 | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.480 | 105  | 430875   | 44.743 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.527 | 91   | 302590   | 42.882 | ug/L   | 95       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.574 | 105  | 354034   | 43.139 | ug/L   | 98       |
| 91)  | 1,2,3-Trichloropropane    | 11.585 | 75   | 99135    | 39.969 | ug/L   | 93       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.637 | 53   | 45356    | 45.316 | ug/L # | 61       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 320273   | 43.241 | ug/L   | 95       |
| 94)  | tert-Butylbenzene         | 11.910 | 119  | 290537   | 45.043 | ug/L   | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.989 | 105  | 361661   | 44.339 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 440466   | 42.995 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 12.245 | 119  | 378675   | 45.770 | ug/L   | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.329 | 146  | 208351   | 43.013 | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 214323   | 42.382 | ug/L   | 96       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 236812   | 46.175 | ug/L   | 98       |
| 103) | n-Butylbenzene            | 12.675 | 91   | 360644   | 41.804 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 201385   | 42.209 | ug/L   | 97       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 391639   | 45.428 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 19610    | 43.159 | ug/L   | 99       |
| 107) | 1,3,5-Trichlorobenzene    | 13.640 | 180  | 151331   | 45.477 | ug/L   | 96       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 60022    | 44.244 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 138077   | 46.270 | ug/L   | 98       |
| 110) | Naphthalene               | 14.521 | 128  | 360888   | 43.960 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.689 | 180  | 130108   | 43.840 | ug/L   | 98       |

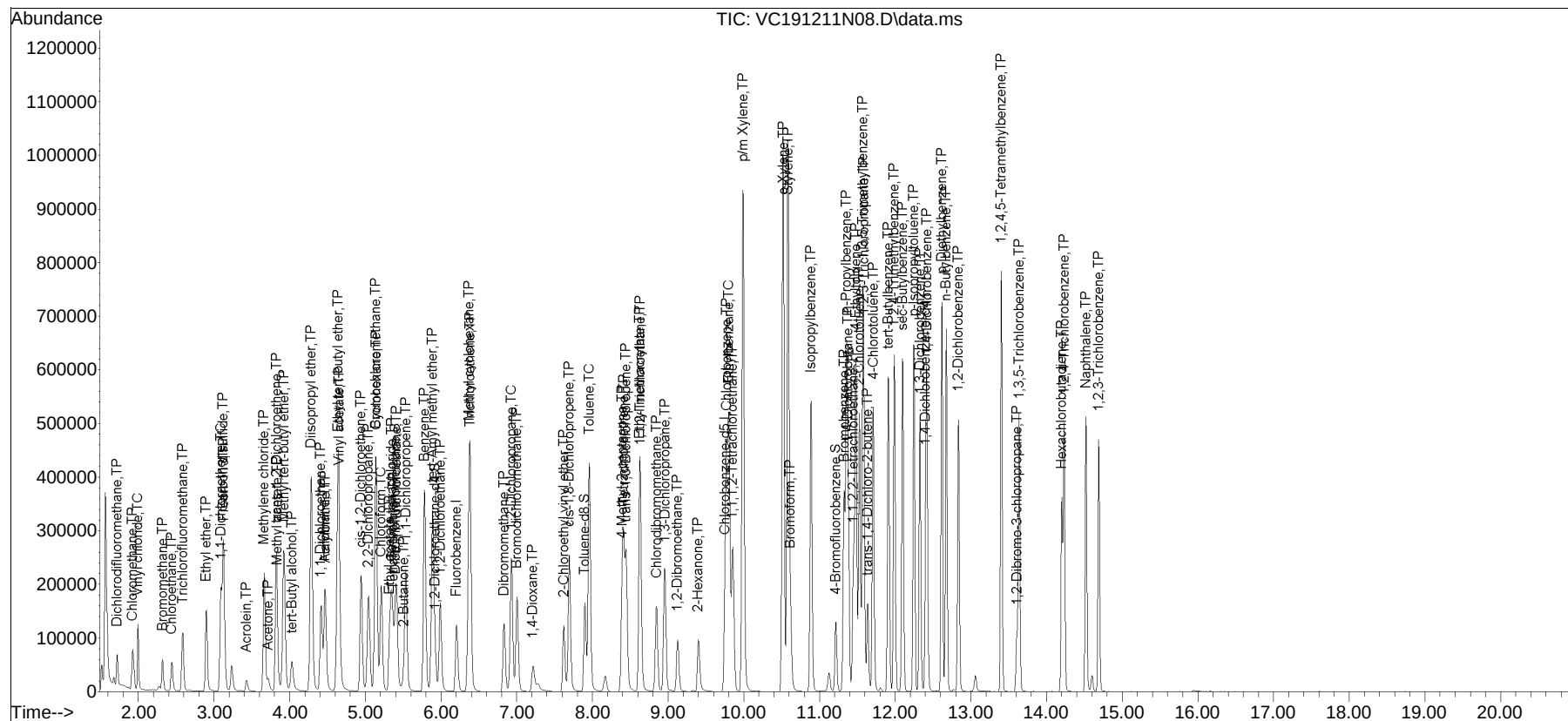
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
Data File : VC191211N08.D  
Acq On : 11 Dec 2019 8:33 pm  
Operator : CHARLIE:MAB  
Sample : I8260STD40PPB  
Misc : WG1319953  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 12 09:08:59 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 05 13:36:16 2019  
Response via : Initial Calibration

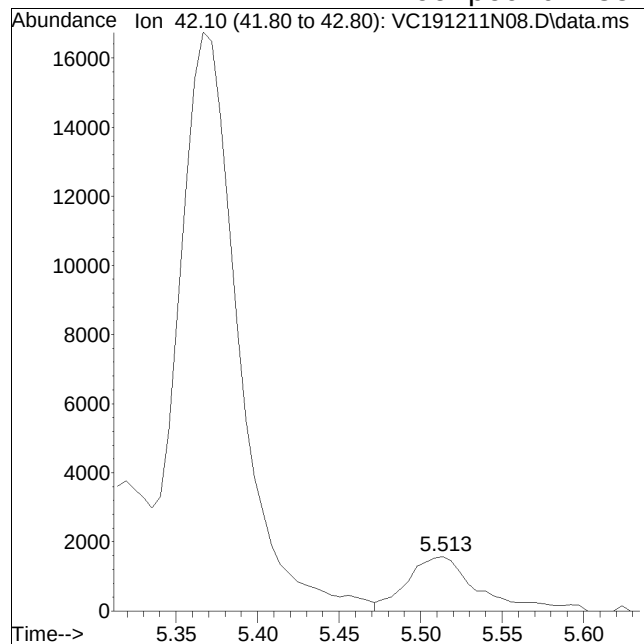
Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

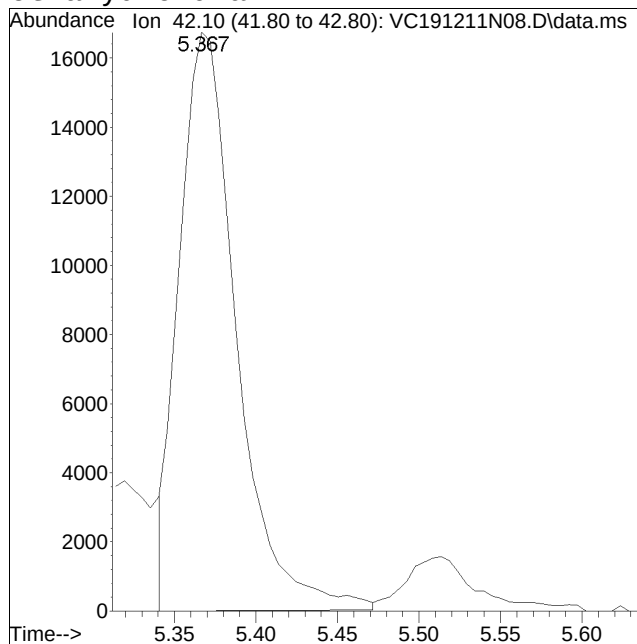
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Data File : VC191211N08.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 8:33 pm Instrument : Charlie  
Sample : I8260STD40PPB Quant Date : 12/12/2019 9:07 am

## Compound #35: Tetrahydrofuran



Original Peak Response = 4799

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 40943 M3

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N09.D  
 Acq On : 11 Dec 2019 9:00 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD100PPB  
 Misc : WG1319953  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 12 09:23:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.211          | 96   | 127397     | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 125548     |                |      | Recovery = | 101.47% |       |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 94250      | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 92632      |                |      | Recovery = | 101.75% |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 50761      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 102.88% |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 36048      | 20.072  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.36% |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.923          | 65   | 42820      | 20.468  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.34% |       |          |
| 60) Toluene-d8               | 7.904          | 98   | 127809     | 20.086  | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.43% |       |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 50680      | 19.416  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.08%  |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 122347     | 103.011 | ug/L  | # 96     |
| 3) Chloromethane             | 1.927          | 50   | 217811     | 99.853  | ug/L  | 99       |
| 4) Vinyl chloride            | 1.996          | 62   | 228065     | 100.751 | ug/L  | 96       |
| 5) Bromomethane              | 2.321          | 94   | 74572      | 91.380  | ug/L  | 98       |
| 6) Chloroethane              | 2.436          | 64   | 85277      | 73.745  | ug/L  | 95       |
| 7) Trichlorofluoromethane    | 2.583          | 101  | 220387     | 94.133  | ug/L  | 100      |
| 8) Ethyl ether               | 2.897          | 74   | 111537     | 94.810  | ug/L  | # 40     |
| 10) 1,1-Dichloroethene       | 3.091          | 96   | 166623     | 103.056 | ug/L  | # 51     |
| 11) Carbon disulfide         | 3.123          | 76   | 531014     | 103.298 | ug/L  | 100      |
| 12) Freon-113                | 3.128          | 101  | 173572     | 103.690 | ug/L  | 83       |
| 14) Acrolein                 | 3.432          | 56   | 53437      | 104.935 | ug/L  | 92       |
| 15) Methylene chloride       | 3.663          | 84   | 225284     | 98.333  | ug/L  | # 54     |
| 17) Acetone                  | 3.715          | 43   | 81325      | 101.807 | ug/L  | 98       |
| 18) trans-1,2-Dichloroethene | 3.820          | 96   | 203179     | 101.390 | ug/L  | # 67     |
| 19) Methyl acetate           | 3.831          | 43   | 240523     | 104.328 | ug/L  | # 85     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 700742     | 101.529 | ug/L  | # 82     |
| 21) tert-Butyl alcohol       | 4.030          | 59   | 220086     | 539.693 | ug/L  | 92       |
| 22) Diisopropyl ether        | 4.287          | 45   | 1122289    | 100.883 | ug/L  | # 85     |
| 23) 1,1-Dichloroethane       | 4.418          | 63   | 483323     | 99.991  | ug/L  | 96       |
| 24) Halothane                | 4.465          | 117  | 162834     | 103.994 | ug/L  | 100      |
| 25) Acrylonitrile            | 4.470          | 53   | 111333     | 104.445 | ug/L  | 99       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N09.D  
 Acq On : 11 Dec 2019 9:00 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD100PPB  
 Misc : WG1319953  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 12 09:23:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.638  | 59   | 1030153  | 100.778  | ug/L   | 85       |
| 27) Vinyl acetate             | 4.654  | 43   | 781631   | 102.160  | ug/L # | 91       |
| 28) cis-1,2-Dichloroethene    | 4.947  | 96   | 243474   | 100.875  | ug/L # | 67       |
| 29) 2,2-Dichloropropane       | 5.047  | 77   | 316445   | 101.085  | ug/L # | 83       |
| 30) Bromochloromethane        | 5.141  | 128  | 118326   | 100.037  | ug/L # | 50       |
| 31) Cyclohexane               | 5.141  | 56   | 457307   | 103.353  | ug/L # | 59       |
| 32) Chloroform                | 5.215  | 83   | 408843   | 98.807   | ug/L # | 93       |
| 33) Ethyl acetate             | 5.320  | 43   | 369748   | 103.003  | ug/L # | 92       |
| 34) Carbon tetrachloride      | 5.351  | 117  | 296886   | 102.624  | ug/L   | 99       |
| 35) Tetrahydrofuran           | 5.367  | 42   | 108957M3 | 104.903  | ug/L   |          |
| 37) 1,1,1-Trichloroethane     | 5.414  | 97   | 329136   | 100.854  | ug/L   | 89       |
| 39) 2-Butanone                | 5.508  | 43   | 156944   | 105.271  | ug/L # | 75       |
| 40) 1,1-Dichloropropene       | 5.535  | 75   | 288336   | 101.800  | ug/L   | 96       |
| 41) Benzene                   | 5.786  | 78   | 878497   | 100.844  | ug/L # | 87       |
| 42) tert-Amyl methyl ether    | 5.891  | 73   | 747806   | 101.775  | ug/L   | 92       |
| 44) 1,2-Dichloroethane        | 5.991  | 62   | 402432   | 98.788   | ug/L   | 96       |
| 47) Methyl cyclohexane        | 6.373  | 83   | 349712   | 104.052  | ug/L # | 47       |
| 48) Trichloroethene           | 6.389  | 95   | 222946   | 101.372  | ug/L   | 93       |
| 50) Dibromomethane            | 6.835  | 93   | 159515   | 101.822  | ug/L   | 92       |
| 51) 1,2-Dichloropropane       | 6.929  | 63   | 297433   | 100.436  | ug/L # | 93       |
| 53) 2-Chloroethyl vinyl ether | 7.621  | 63   | 175708   | 102.992  | ug/L # | 76       |
| 54) Bromodichloromethane      | 7.008  | 83   | 343481   | 100.817  | ug/L   | 100      |
| 57) 1,4-Dioxane               | 7.218  | 88   | 140305   | 5419.325 | ug/L # | 55       |
| 58) cis-1,3-Dichloropropene   | 7.695  | 75   | 421188   | 101.311  | ug/L # | 83       |
| 61) Toluene                   | 7.962  | 92   | 553166   | 100.849  | ug/L   | 97       |
| 62) 4-Methyl-2-pentanone      | 8.392  | 58   | 140270   | 104.908  | ug/L # | 94       |
| 63) Tetrachloroethene         | 8.413  | 166  | 212801   | 99.956   | ug/L   | 93       |
| 65) trans-1,3-Dichloropropene | 8.444  | 75   | 392956   | 102.241  | ug/L   | 85       |
| 67) Ethyl methacrylate        | 8.623  | 69   | 353328   | 103.778  | ug/L   | 81       |
| 68) 1,1,2-Trichloroethane     | 8.633  | 83   | 188988   | 99.790   | ug/L   | 99       |
| 69) Chlorodibromomethane      | 8.848  | 129  | 274708   | 102.436  | ug/L   | 100      |
| 70) 1,3-Dichloropropane       | 8.958  | 76   | 393317   | 99.953   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 9.126  | 107  | 229277   | 101.821  | ug/L   | 99       |
| 72) 2-Hexanone                | 9.399  | 43   | 255760   | 106.782  | ug/L   | 98       |
| 73) Chlorobenzene             | 9.776  | 112  | 646000   | 99.218   | ug/L   | 92       |
| 74) Ethylbenzene              | 9.808  | 91   | 1063588  | 100.167  | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.860  | 131  | 243973   | 100.032  | ug/L   | 100      |
| 76) p/m Xylene                | 9.991  | 106  | 831670   | 201.784  | ug/L   | 93       |
| 77) o Xylene                  | 10.521 | 106  | 822684   | 200.001  | ug/L   | 92       |
| 78) Styrene                   | 10.584 | 104  | 1437076  | 201.552  | ug/L   | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N09.D  
 Acq On : 11 Dec 2019 9:00 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD100PPB  
 Misc : WG1319953  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 12 09:23:18 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|--------|----------|
| 80)  | Bromoform                 | 10.620 | 173  | 182102   | 101.406 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.888 | 105  | 1029515  | 98.670  | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.328 | 156  | 273993   | 99.469  | ug/L   | 99       |
| 85)  | n-Propylbenzene           | 11.360 | 91   | 1251461  | 98.570  | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 11.381 | 55   | 545120   | 98.875  | ug/L   | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 316819   | 98.748  | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.480 | 105  | 1089060  | 98.276  | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.527 | 91   | 769509   | 98.879  | ug/L   | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.575 | 105  | 898121   | 98.636  | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 11.585 | 75   | 254497   | 99.816  | ug/L   | 93       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.632 | 53   | 121965   | 104.556 | ug/L # | 63       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 807843   | 98.074  | ug/L   | 94       |
| 94)  | tert-Butylbenzene         | 11.910 | 119  | 741964   | 99.295  | ug/L   | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.989 | 105  | 914381   | 98.304  | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 1121527  | 99.002  | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 955336   | 98.093  | ug/L   | 98       |
| 100) | 1,3-Dichlorobenzene       | 12.330 | 146  | 526861   | 98.321  | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 536797   | 97.384  | ug/L   | 97       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 600149   | 98.538  | ug/L   | 96       |
| 103) | n-Butylbenzene            | 12.676 | 91   | 913714   | 98.510  | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 509993   | 98.465  | ug/L   | 97       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 1004310  | 99.708  | ug/L   | 99       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 54224    | 107.513 | ug/L   | 99       |
| 107) | 1,3,5-Trichlorobenzene    | 13.640 | 180  | 385551   | 99.060  | ug/L   | 96       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 152892   | 99.042  | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 353167   | 99.450  | ug/L   | 98       |
| 110) | Naphthalene               | 14.521 | 128  | 951447   | 102.508 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.689 | 180  | 335221   | 100.178 | ug/L   | 98       |

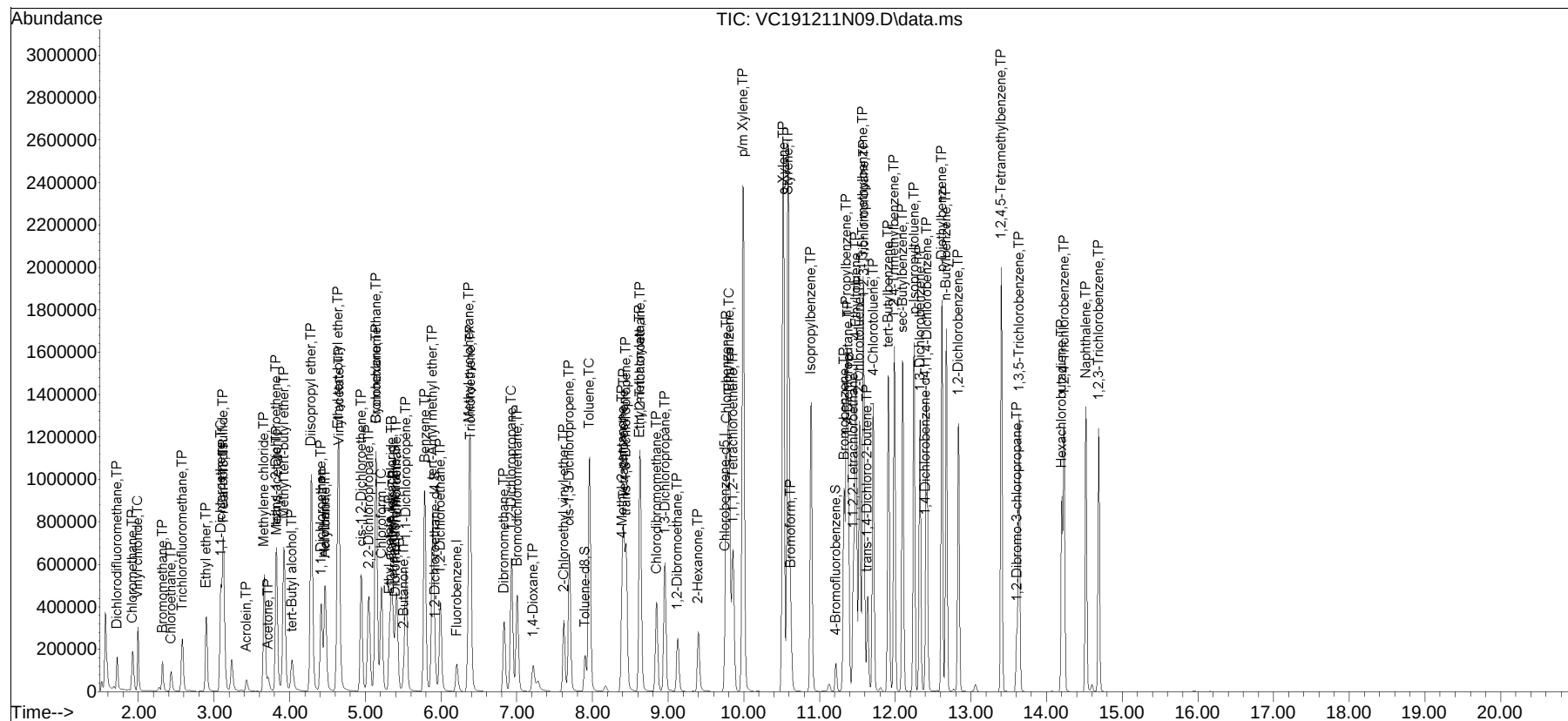
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
Data File : VC191211N09.D  
Acq On : 11 Dec 2019 9:00 pm  
Operator : CHARLIE:MAB  
Sample : I8260STD100PPB  
Misc : WG1319953  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 12 09:23:18 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 12 09:12:37 2019  
Response via : Initial Calibration

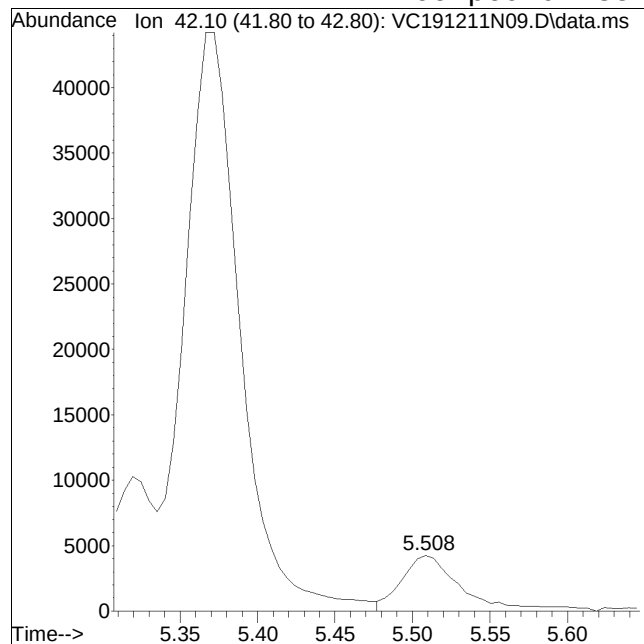
Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

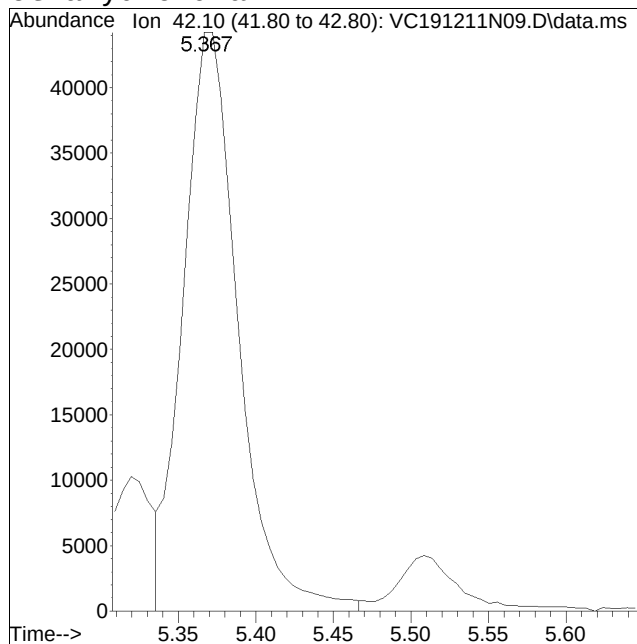
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N09.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 9:00 pm Instrument : Charlie  
Sample : I8260STD100PPB Quant Date : 12/12/2019 9:13 am

## Compound #35: Tetrahydrofuran



Original Peak Response = 11500

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 108957 M3

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N10.D  
 Acq On : 11 Dec 2019 9:28 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD200PPB  
 Misc : WG1319953  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 09:13:55 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Fluorobenzene             | 6.205          | 96   | 134944     | 20.000   | ug/L  | -0.01    |
| Standard Area 1 = 125548     |                |      | Recovery = | 107.48%  |       |          |
| 59) Chlorobenzene-d5         | 9.750          | 117  | 100430     | 20.000   | ug/L  | -0.02    |
| Standard Area 1 = 92632      |                |      | Recovery = | 108.42%  |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 53113      | 20.000   | ug/L  | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 107.64%  |       |          |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 38485      | 20.231   | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 101.16%  |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.922          | 65   | 46654      | 21.054   | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 105.27%  |       |          |
| 60) Toluene-d8               | 7.904          | 98   | 135869     | 20.038   | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.19%  |       |          |
| 83) 4-Bromofluorobenzene     | 11.213         | 95   | 54177      | 19.837   | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 99.19%   |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 244494     | 194.340  | ug/L  | # 96     |
| 3) Chloromethane             | 1.927          | 50   | 444763     | 192.494  | ug/L  | 100      |
| 4) Vinyl chloride            | 1.995          | 62   | 461978     | 192.671  | ug/L  | 96       |
| 5) Bromomethane              | 2.320          | 94   | 155007     | 179.321  | ug/L  | 99       |
| 6) Chloroethane              | 2.420          | 64   | 106096     | 86.617   | ug/L  | 98       |
| 7) Trichlorofluoromethane    | 2.567          | 101  | 406897     | 164.076  | ug/L  | 100      |
| 8) Ethyl ether               | 2.897          | 74   | 202155     | 162.228  | ug/L  | # 48     |
| 10) 1,1-Dichloroethene       | 3.086          | 96   | 340078     | 198.575  | ug/L  | # 52     |
| 11) Carbon disulfide         | 3.117          | 76   | 1083896    | 199.059  | ug/L  | 100      |
| 12) Freon-113                | 3.123          | 101  | 352399     | 198.746  | ug/L  | 82       |
| 14) Acrolein                 | 3.427          | 56   | 116156     | 215.340  | ug/L  | 92       |
| 15) Methylene chloride       | 3.663          | 84   | 456472     | 188.100  | ug/L  | # 55     |
| 17) Acetone                  | 3.715          | 43   | 173022     | 204.484  | ug/L  | 97       |
| 18) trans-1,2-Dichloroethene | 3.820          | 96   | 414576     | 195.311  | ug/L  | # 67     |
| 19) Methyl acetate           | 3.830          | 43   | 516522     | 211.513  | ug/L  | # 85     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 1446333    | 197.836  | ug/L  | # 83     |
| 21) tert-Butyl alcohol       | 4.035          | 59   | 486103     | 1125.351 | ug/L  | 94       |
| 22) Diisopropyl ether        | 4.287          | 45   | 2286961    | 194.078  | ug/L  | # 84     |
| 23) 1,1-Dichloroethane       | 4.412          | 63   | 985425     | 192.465  | ug/L  | 95       |
| 24) Halothane                | 4.465          | 117  | 334658     | 201.776  | ug/L  | 100      |
| 25) Acrylonitrile            | 4.465          | 53   | 239296     | 211.937  | ug/L  | 97       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N10.D  
 Acq On : 11 Dec 2019 9:28 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD200PPB  
 Misc : WG1319953  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 09:13:55 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.638  | 59   | 2120517  | 195.844   | ug/L   | 85       |
| 27) Vinyl acetate             | 4.648  | 43   | 1619423  | 199.823   | ug/L # | 91       |
| 28) cis-1,2-Dichloroethene    | 4.942  | 96   | 492089   | 192.477   | ug/L # | 67       |
| 29) 2,2-Dichloropropane       | 5.042  | 77   | 642038   | 193.622   | ug/L   | 85       |
| 30) Bromochloromethane        | 5.136  | 128  | 236374   | 188.663   | ug/L # | 52       |
| 31) Cyclohexane               | 5.136  | 56   | 941261   | 200.832   | ug/L # | 59       |
| 32) Chloroform                | 5.209  | 83   | 821939   | 187.533   | ug/L # | 93       |
| 33) Ethyl acetate             | 5.314  | 43   | 783417   | 206.036   | ug/L # | 92       |
| 34) Carbon tetrachloride      | 5.346  | 117  | 601942   | 196.434   | ug/L   | 99       |
| 35) Tetrahydrofuran           | 5.367  | 42   | 230705   | 209.698   | ug/L # | 75       |
| 37) 1,1,1-Trichloroethane     | 5.409  | 97   | 668014   | 193.245   | ug/L   | 89       |
| 39) 2-Butanone                | 5.508  | 43   | 338512   | 214.359   | ug/L # | 75       |
| 40) 1,1-Dichloropropene       | 5.534  | 75   | 585624   | 195.197   | ug/L   | 96       |
| 41) Benzene                   | 5.781  | 78   | 1777888  | 192.672   | ug/L # | 87       |
| 42) tert-Amyl methyl ether    | 5.891  | 73   | 1549052  | 199.033   | ug/L   | 93       |
| 44) 1,2-Dichloroethane        | 5.990  | 62   | 810714   | 187.882   | ug/L   | 96       |
| 47) Methyl cyclohexane        | 6.373  | 83   | 712871   | 200.243   | ug/L # | 46       |
| 48) Trichloroethene           | 6.384  | 95   | 451566   | 193.840   | ug/L   | 93       |
| 50) Dibromomethane            | 6.829  | 93   | 328371   | 197.883   | ug/L   | 93       |
| 51) 1,2-Dichloropropane       | 6.929  | 63   | 606084   | 193.213   | ug/L # | 93       |
| 53) 2-Chloroethyl vinyl ether | 7.621  | 63   | 365379   | 202.191   | ug/L # | 75       |
| 54) Bromodichloromethane      | 7.002  | 83   | 703480   | 194.935   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 7.212  | 88   | 307740   | 11221.777 | ug/L # | 56       |
| 58) cis-1,3-Dichloropropene   | 7.694  | 75   | 860967   | 195.512   | ug/L # | 84       |
| 61) Toluene                   | 7.957  | 92   | 1129003  | 193.165   | ug/L   | 97       |
| 62) 4-Methyl-2-pentanone      | 8.387  | 58   | 300102   | 210.635   | ug/L # | 93       |
| 63) Tetrachloroethene         | 8.413  | 166  | 441815   | 194.757   | ug/L   | 94       |
| 65) trans-1,3-Dichloropropene | 8.444  | 75   | 810573   | 197.921   | ug/L   | 86       |
| 67) Ethyl methacrylate        | 8.623  | 69   | 742793   | 204.745   | ug/L   | 81       |
| 68) 1,1,2-Trichloroethane     | 8.628  | 83   | 388098   | 192.314   | ug/L   | 98       |
| 69) Chlorodibromomethane      | 8.848  | 129  | 565605   | 197.930   | ug/L   | 100      |
| 70) 1,3-Dichloropropane       | 8.953  | 76   | 803578   | 191.647   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 9.126  | 107  | 470587   | 196.127   | ug/L   | 100      |
| 72) 2-Hexanone                | 9.393  | 43   | 548030   | 214.727   | ug/L   | 99       |
| 73) Chlorobenzene             | 9.771  | 112  | 1312752  | 189.217   | ug/L   | 92       |
| 74) Ethylbenzene              | 9.807  | 91   | 2161966  | 191.081   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.855  | 131  | 494940   | 190.445   | ug/L   | 99       |
| 76) p/m Xylene                | 9.991  | 106  | 1679192  | 382.343   | ug/L   | 92       |
| 77) o Xylene                  | 10.520 | 106  | 1656139  | 377.846   | ug/L   | 92       |
| 78) Styrene                   | 10.583 | 104  | 2893631  | 380.862   | ug/L   | 91       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N10.D  
 Acq On : 11 Dec 2019 9:28 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD200PPB  
 Misc : WG1319953  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 09:13:55 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|--------|----------|
| 80)  | Bromoform                 | 10.620 | 173  | 378841   | 201.620 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.887 | 105  | 2075878  | 190.145 | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.323 | 156  | 551443   | 191.328 | ug/L   | 98       |
| 85)  | n-Propylbenzene           | 11.359 | 91   | 2524588  | 190.041 | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 11.380 | 55   | 1113996  | 193.111 | ug/L   | 96       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.448 | 83   | 652558   | 194.386 | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.480 | 105  | 2186758  | 188.593 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.527 | 91   | 1537539  | 188.820 | ug/L   | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.574 | 105  | 1804896  | 189.445 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 11.585 | 75   | 514088   | 192.702 | ug/L   | 94       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.632 | 53   | 245985   | 201.535 | ug/L # | 70       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 1634786  | 189.678 | ug/L   | 93       |
| 94)  | tert-Butylbenzene         | 11.910 | 119  | 1487996  | 190.316 | ug/L   | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.989 | 105  | 1828714  | 187.897 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 2245923  | 189.478 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 1917378  | 188.156 | ug/L   | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.324 | 146  | 1057725  | 188.648 | ug/L   | 98       |
| 101) | 1,4-Dichlorobenzene       | 12.418 | 146  | 1075193  | 186.420 | ug/L   | 97       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 1209578  | 189.804 | ug/L   | 97       |
| 103) | n-Butylbenzene            | 12.675 | 91   | 1821755  | 187.710 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 1027837  | 189.659 | ug/L   | 96       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 2016318  | 191.315 | ug/L   | 99       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 114973   | 217.868 | ug/L   | 100      |
| 107) | 1,3,5-Trichlorobenzene    | 13.635 | 180  | 773567   | 189.953 | ug/L   | 96       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 309587   | 191.667 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 721562   | 194.191 | ug/L   | 97       |
| 110) | Naphthalene               | 14.521 | 128  | 1974737  | 203.335 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.689 | 180  | 687224   | 196.277 | ug/L   | 98       |

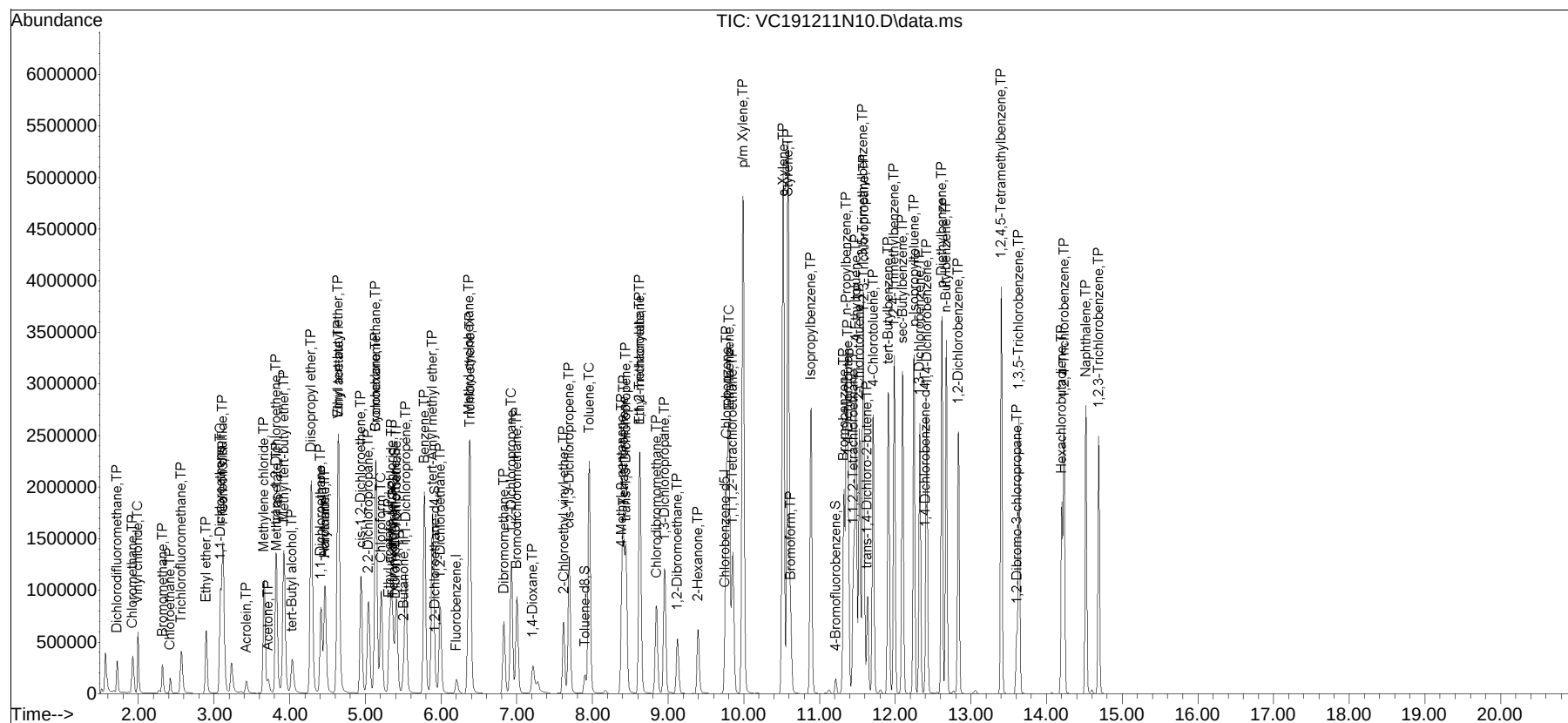
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
Data File : VC191211N10.D  
Acq On : 11 Dec 2019 9:28 pm  
Operator : CHARLIE:MAB  
Sample : I8260STD200PPB  
Misc : WG1319953  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 12 09:13:55 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 12 09:12:37 2019  
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•





# Manual Integration Report

|            |                                     |                                 |
|------------|-------------------------------------|---------------------------------|
| Data Path  | : I:\VOLATILES\Charlie\2019\QMethod | : C_191211N_8260.m              |
| Data File  | : VC191211N10.D                     | Operator : CHARLIE:MAB          |
| Date Inj'd | : 12/11/2019 9:28 pm                | Instrument : Charlie            |
| Sample     | : I8260STD200PPB                    | Quant Date : 12/12/2019 9:13 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N11.D  
 Acq On : 11 Dec 2019 9:55 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD300PPB  
 Misc : WG1319953  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 12 09:14:00 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|------------------------------|----------------|------|------------|----------|-------|----------|
| -----                        |                |      |            |          |       |          |
| Internal Standards           |                |      |            |          |       |          |
| 1) Fluorobenzene             | 6.211          | 96   | 147992     | 20.000   | ug/L  | 0.00     |
| Standard Area 1 = 125548     |                |      | Recovery = | 117.88%  |       |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 110222     | 20.000   | ug/L  | -0.01    |
| Standard Area 1 = 92632      |                |      | Recovery = | 118.99%  |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 57653      | 20.000   | ug/L  | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery = | 116.84%  |       |          |
| System Monitoring Compounds  |                |      |            |          |       |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 41803      | 20.037   | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 100.18%  |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.923          | 65   | 50307      | 20.701   | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 103.51%  |       |          |
| 60) Toluene-d8               | 7.904          | 98   | 148774     | 19.992   | ug/L  | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 99.96%   |       |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 58215      | 19.637   | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 98.19%   |       |          |
| Target Compounds             |                |      |            |          |       |          |
|                              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 422350     | 306.113  | ug/L  | # 96     |
| 3) Chloromethane             | 1.933          | 50   | 832204     | 328.423  | ug/L  | 98       |
| 4) Vinyl chloride            | 2.001          | 62   | 798583     | 303.690  | ug/L  | 96       |
| 5) Bromomethane              | 2.326          | 94   | 275953     | 291.091  | ug/L  | 99       |
| 6) Chloroethane              | 2.425          | 64   | 164528     | 122.478  | ug/L  | 99       |
| 7) Trichlorofluoromethane    | 2.557          | 101  | 618955     | 227.581  | ug/L  | 100      |
| 8) Ethyl ether               | 2.903          | 74   | 313608     | 229.480  | ug/L  | # 60     |
| 10) 1,1-Dichloroethene       | 3.086          | 96   | 585003     | 311.472  | ug/L  | # 53     |
| 11) Carbon disulfide         | 3.118          | 76   | 1891293    | 316.714  | ug/L  | 100      |
| 12) Freon-113                | 3.123          | 101  | 591581     | 304.224  | ug/L  | 78       |
| 14) Acrolein                 | 3.432          | 56   | 196024     | 331.365  | ug/L  | 91       |
| 15) Methylene chloride       | 3.668          | 84   | 784269     | 294.684  | ug/L  | # 57     |
| 17) Acetone                  | 3.720          | 43   | 290269     | 312.805  | ug/L  | 96       |
| 18) trans-1,2-Dichloroethene | 3.820          | 96   | 729811     | 313.507  | ug/L  | # 68     |
| 19) Methyl acetate           | 3.836          | 43   | 849036     | 317.022  | ug/L  | # 85     |
| 20) Methyl tert-butyl ether  | 3.930          | 73   | 2466813    | 307.673  | ug/L  | # 84     |
| 21) tert-Butyl alcohol       | 4.046          | 59   | 824448     | 1740.357 | ug/L  | 92       |
| 22) Diisopropyl ether        | 4.292          | 45   | 3882465    | 300.428  | ug/L  | # 84     |
| 23) 1,1-Dichloroethane       | 4.418          | 63   | 1704076    | 303.481  | ug/L  | 96       |
| 24) Halothane                | 4.470          | 117  | 584846     | 321.533  | ug/L  | 100      |
| 25) Acrylonitrile            | 4.470          | 53   | 403214     | 325.628  | ug/L  | 97       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N11.D  
 Acq On : 11 Dec 2019 9:55 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD300PPB  
 Misc : WG1319953  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 12 09:14:00 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.643  | 59   | 3607724  | 303.820   | ug/L   | 86       |
| 27) Vinyl acetate             | 4.654  | 43   | 2682577  | 301.823   | ug/L # | 92       |
| 28) cis-1,2-Dichloroethene    | 4.947  | 96   | 855083   | 304.971   | ug/L # | 67       |
| 29) 2,2-Dichloropropane       | 5.047  | 77   | 1102828  | 303.261   | ug/L   | 87       |
| 30) Bromochloromethane        | 5.141  | 128  | 402710   | 293.086   | ug/L # | 54       |
| 31) Cyclohexane               | 5.141  | 56   | 1600270  | 311.337   | ug/L # | 59       |
| 32) Chloroform                | 5.215  | 83   | 1408612  | 293.052   | ug/L # | 94       |
| 33) Ethyl acetate             | 5.320  | 43   | 1291845  | 309.796   | ug/L # | 93       |
| 34) Carbon tetrachloride      | 5.351  | 117  | 1033020  | 307.388   | ug/L   | 100      |
| 35) Tetrahydrofuran           | 5.372  | 42   | 379968   | 314.919   | ug/L # | 76       |
| 37) 1,1,1-Trichloroethane     | 5.414  | 97   | 1142347  | 301.326   | ug/L   | 89       |
| 39) 2-Butanone                | 5.508  | 43   | 562785   | 324.957   | ug/L # | 76       |
| 40) 1,1-Dichloropropene       | 5.540  | 75   | 1014716  | 308.399   | ug/L   | 96       |
| 41) Benzene                   | 5.786  | 78   | 3082589  | 304.611   | ug/L # | 88       |
| 42) tert-Amyl methyl ether    | 5.896  | 73   | 2658239  | 311.436   | ug/L   | 94       |
| 44) 1,2-Dichloroethane        | 5.991  | 62   | 1362328  | 287.881   | ug/L   | 97       |
| 47) Methyl cyclohexane        | 6.373  | 83   | 1217112  | 311.740   | ug/L # | 47       |
| 48) Trichloroethene           | 6.389  | 95   | 776408   | 303.898   | ug/L   | 94       |
| 50) Dibromomethane            | 6.835  | 93   | 559692   | 307.545   | ug/L   | 93       |
| 51) 1,2-Dichloropropane       | 6.934  | 63   | 1050368  | 305.324   | ug/L # | 93       |
| 53) 2-Chloroethyl vinyl ether | 7.621  | 63   | 619921   | 312.802   | ug/L # | 77       |
| 54) Bromodichloromethane      | 7.008  | 83   | 1203819  | 304.168   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 7.223  | 88   | 528530   | 17573.677 | ug/L # | 56       |
| 58) cis-1,3-Dichloropropene   | 7.700  | 75   | 1483218  | 307.120   | ug/L # | 86       |
| 61) Toluene                   | 7.962  | 92   | 1966255  | 306.526   | ug/L   | 96       |
| 62) 4-Methyl-2-pentanone      | 8.392  | 58   | 504209   | 322.453   | ug/L # | 91       |
| 63) Tetrachloroethene         | 8.413  | 166  | 762715   | 306.345   | ug/L   | 95       |
| 65) trans-1,3-Dichloropropene | 8.450  | 75   | 1385864  | 308.329   | ug/L   | 88       |
| 67) Ethyl methacrylate        | 8.628  | 69   | 1257426  | 315.808   | ug/L   | 81       |
| 68) 1,1,2-Trichloroethane     | 8.633  | 83   | 654511   | 295.516   | ug/L   | 98       |
| 69) Chlorodibromomethane      | 8.848  | 129  | 972245   | 310.005   | ug/L   | 100      |
| 70) 1,3-Dichloropropane       | 8.958  | 76   | 1366322  | 296.907   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 9.126  | 107  | 799891   | 303.754   | ug/L   | 100      |
| 72) 2-Hexanone                | 9.399  | 43   | 902924   | 322.350   | ug/L   | 99       |
| 73) Chlorobenzene             | 9.776  | 112  | 2273571  | 298.594   | ug/L   | 93       |
| 74) Ethylbenzene              | 9.808  | 91   | 3733150  | 300.636   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.860  | 131  | 853381   | 299.195   | ug/L   | 100      |
| 76) p/m Xylene                | 9.996  | 106  | 2827700  | 586.653   | ug/L   | 91       |
| 77) o Xylene                  | 10.526 | 106  | 2758224  | 573.380   | ug/L   | 91       |
| 78) Styrene                   | 10.589 | 104  | 4704394  | 564.187   | ug/L   | 90       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N11.D  
 Acq On : 11 Dec 2019 9:55 pm  
 Operator : CHARLIE:MAB  
 Sample : I8260STD300PPB  
 Misc : WG1319953  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 12 09:14:00 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:12:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|--------|----------|
| 80)  | Bromoform                 | 10.620 | 173  | 636671   | 312.156 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.888 | 105  | 3558982  | 300.322 | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.323 | 156  | 944810   | 301.996 | ug/L   | 99       |
| 85)  | n-Propylbenzene           | 11.360 | 91   | 4252056  | 294.872 | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 11.381 | 55   | 1833094  | 292.744 | ug/L   | 95       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 1084388  | 297.584 | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.485 | 105  | 3725230  | 295.976 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.533 | 91   | 2630224  | 297.573 | ug/L   | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.580 | 105  | 2996442  | 289.745 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 11.590 | 75   | 846405   | 292.285 | ug/L   | 92       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.637 | 53   | 411026   | 310.234 | ug/L # | 69       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 2802136  | 299.519 | ug/L   | 93       |
| 94)  | tert-Butylbenzene         | 11.915 | 119  | 2494446  | 293.919 | ug/L   | 94       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.989 | 105  | 3117320  | 295.076 | ug/L   | 96       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 3776916  | 293.548 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 3214662  | 290.619 | ug/L   | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.330 | 146  | 1797133  | 295.284 | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 1812811  | 289.560 | ug/L   | 96       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 2022865  | 292.427 | ug/L   | 96       |
| 103) | n-Butylbenzene            | 12.676 | 91   | 3036442  | 288.231 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 1733302  | 294.647 | ug/L   | 96       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 3369467  | 294.530 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 195423   | 341.156 | ug/L   | 100      |
| 107) | 1,3,5-Trichlorobenzene    | 13.640 | 180  | 1305152  | 295.249 | ug/L   | 96       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 536355   | 305.912 | ug/L   | 98       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 1241414  | 307.787 | ug/L   | 97       |
| 110) | Naphthalene               | 14.521 | 128  | 3353212  | 318.085 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.689 | 180  | 1182606  | 311.165 | ug/L   | 98       |

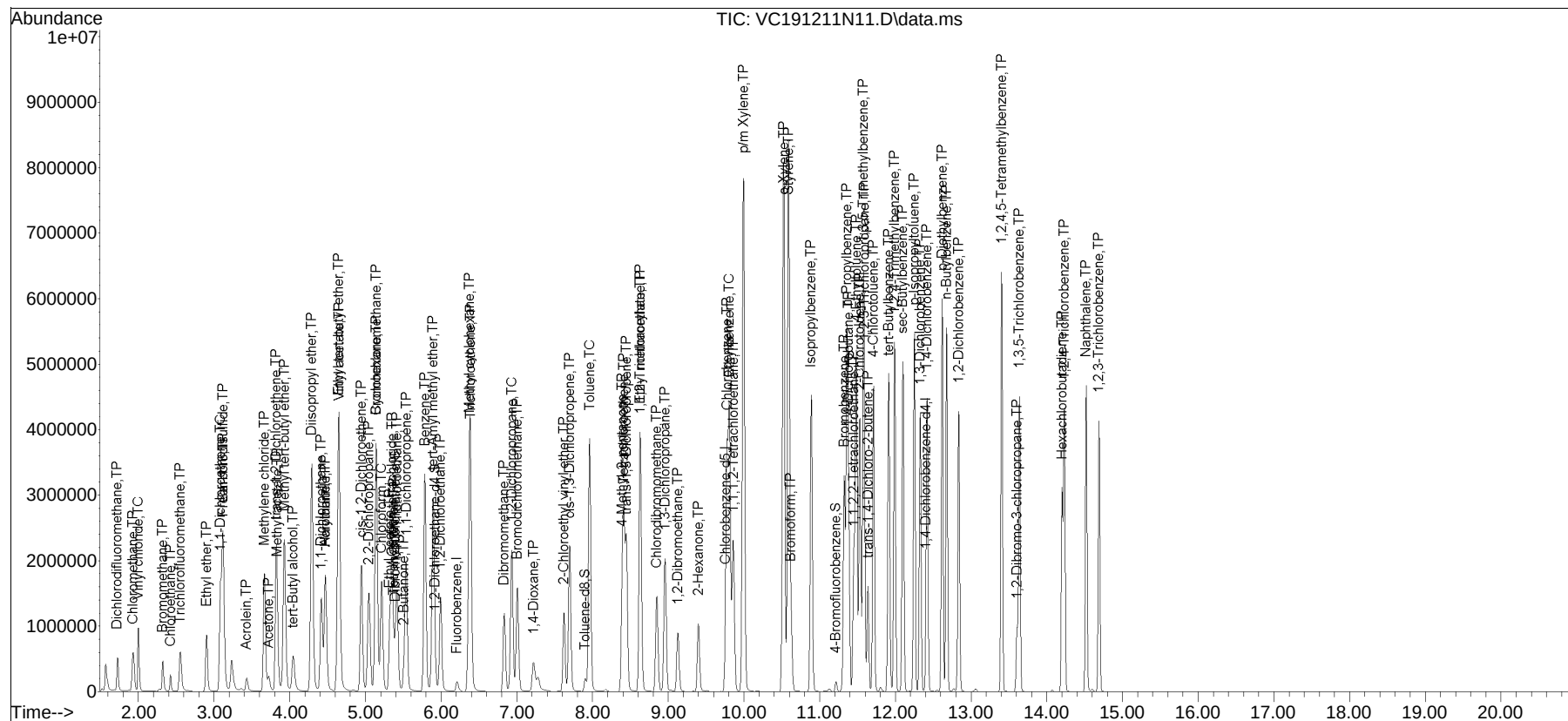
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
Data File : VC191211N11.D  
Acq On : 11 Dec 2019 9:55 pm  
Operator : CHARLIE:MAB  
Sample : I8260STD300PPB  
Misc : WG1319953  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 12 09:14:00 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 12 09:12:37 2019  
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

|            |                                     |                                 |
|------------|-------------------------------------|---------------------------------|
| Data Path  | : I:\VOLATILES\Charlie\2019\QMethod | : C_191211N_8260.m              |
| Data File  | : VC191211N11.D                     | Operator : CHARLIE:MAB          |
| Date Inj'd | : 12/11/2019 9:55 pm                | Instrument : Charlie            |
| Sample     | : I8260STD300PPB                    | Quant Date : 12/12/2019 9:13 am |

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

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

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

|       | Compound                 | AvgRF    | CCRF   | %Dev  | Area% | Dev(min) |
|-------|--------------------------|----------|--------|-------|-------|----------|
| 1 I   | Fluorobenzene            | 1.000    | 1.000  | 0.0   | 104   | 0.00     |
| 2 TP  | Dichlorodifluoromethane  | 0.193    | 0.181  | 6.2   | 101   | 0.00     |
| 3 TP  | Chloromethane            | 0.377    | 0.325  | 13.8  | 99    | 0.00     |
| 4 TC  | Vinyl chloride           | 0.358    | 0.341  | 4.7   | 100   | 0.00     |
| 5 TP  | Bromomethane             | * 40.000 | 44.889 | -12.2 | 112   | 0.00     |
| 6 TP  | Chloroethane             | 0.184    | 0.139  | 24.5# | 80    | 0.00     |
| 7 TP  | Trichlorofluoromethane   | 0.350    | 0.355  | -1.4  | 101   | 0.00     |
| 8 TP  | Ethyl ether              | 0.174    | 0.169  | 2.9   | 95    | 0.00     |
| 10 TC | 1,1-Dichloroethene       | 0.257    | 0.240  | 6.6   | 98    | 0.00     |
| 11 TP | Carbon disulfide         | 0.843    | 0.565  | 33.0# | 73    | 0.00     |
| 12 TP | Freon-113                | 0.265    | 0.295  | -11.3 | 117   | 0.00     |
| 14 TP | Acrolein                 | 0.080    | 0.080  | 0.0   | 104   | 0.00     |
| 15 TP | Methylene chloride       | 0.373    | 0.335  | 10.2  | 97    | 0.00     |
| 17 TP | Acetone                  | 0.136    | 0.108  | 20.6# | 90    | 0.00     |
| 18 TP | trans-1,2-Dichloroethene | 0.314    | 0.296  | 5.7   | 98    | 0.00     |
| 19 TP | Methyl acetate           | 0.372    | 0.352  | 5.4   | 101   | 0.00     |
| 20 TP | Methyl tert-butyl ether  | 1.068    | 0.988  | 7.5   | 95    | 0.00     |
| 21 TP | tert-Butyl alcohol       | 0.067    | 0.058  | 13.4  | 94    | 0.00     |
| 22 TP | Diisopropyl ether        | 1.694    | 1.486  | 12.3  | 89    | 0.00     |
| 23 TP | 1,1-Dichloroethane       | 0.754    | 0.705  | 6.5   | 97    | 0.00     |
| 24 TP | Halothane                | 0.248    | 0.231  | 6.9   | 98    | 0.00     |
| 25 TP | Acrylonitrile            | 0.161    | 0.176  | -9.3  | 110   | 0.00     |
| 26 TP | Ethyl tert-butyl ether   | 1.553    | 1.405  | 9.5   | 91    | 0.00     |
| 27 TP | Vinyl acetate            | 1.121    | 0.973  | 13.2  | 84    | 0.00     |
| 28 TP | cis-1,2-Dichloroethene   | 0.373    | 0.356  | 4.6   | 98    | 0.00     |
| 29 TP | 2,2-Dichloropropane      | 0.481    | 0.448  | 6.9   | 95    | 0.00     |
| 30 TP | Bromochloromethane       | 0.176    | 0.183  | -4.0  | 102   | 0.00     |
| 31 TP | Cyclohexane              | 0.688    | 0.721  | -4.8  | 108   | 0.00     |
| 32 TC | Chloroform               | 0.642    | 0.603  | 6.1   | 96    | 0.00     |
| 33 TP | Ethyl acetate            | 0.539    | 0.506  | 6.1   | 93    | 0.00     |
| 34 TP | Carbon tetrachloride     | 0.452    | 0.431  | 4.6   | 99    | 0.00     |
| 35 TP | Tetrahydrofuran          | 0.169    | 0.151  | 10.7  | 96    | 0.00     |
| 36 S  | Dibromofluoromethane     | 0.284    | 0.289  | -1.8  | 107   | 0.00     |
| 37 TP | 1,1,1-Trichloroethane    | 0.516    | 0.495  | 4.1   | 100   | 0.00     |
| 39 TP | 2-Butanone               | 0.245    | 0.199  | 18.8  | 89    | 0.00     |
| 40 TP | 1,1-Dichloropropene      | 0.443    | 0.432  | 2.5   | 101   | 0.00     |
| 41 TP | Benzene                  | 1.375    | 1.284  | 6.6   | 98    | 0.00     |
| 42 TP | tert-Amyl methyl ether   | 1.117    | 0.990  | 11.4  | 89    | 0.00     |
| 43 S  | 1,2-Dichloroethane-d4    | 0.339    | 0.332  | 2.1   | 105   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

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

|       | Compound                  | AvgRF    | CCRF     | %Dev  | Area% | Dev(min) |
|-------|---------------------------|----------|----------|-------|-------|----------|
| 44 TP | 1,2-Dichloroethane        | 0.631    | 0.610    | 3.3   | 99    | 0.00     |
| 47 TP | Methyl cyclohexane        | 0.523    | 0.520    | 0.6   | 102   | -0.01    |
| 48 TP | Trichloroethene           | 0.340    | 0.332    | 2.4   | 100   | -0.01    |
| 50 TP | Dibromomethane            | 0.236    | 0.236    | 0.0   | 100   | -0.01    |
| 51 TC | 1,2-Dichloropropane       | 0.449    | 0.439    | 2.2   | 98    | 0.00     |
| 53 TP | 2-Chloroethyl vinyl ether | 0.260    | 0.198    | 23.8# | 77    | 0.00     |
| 54 TP | Bromodichloromethane      | 0.512    | 0.493    | 3.7   | 96    | -0.01    |
| 57 TP | 1,4-Dioxane               | 0.00401  | 0.00436# | -8.7  | 112   | -0.01    |
| 58 TP | cis-1,3-Dichloropropene   | * 40.000 | 36.340   | 9.1   | 94    | -0.01    |
| 59 I  | Chlorobenzene-d5          | 1.000    | 1.000    | 0.0   | 104   | -0.01    |
| 60 S  | Toluene-d8                | 1.366    | 1.366    | 0.0   | 105   | -0.01    |
| 61 TC | Toluene                   | 1.166    | 1.118    | 4.1   | 100   | -0.01    |
| 62 TP | 4-Methyl-2-pentanone      | 0.276    | 0.233    | 15.6  | 85    | 0.00     |
| 63 TP | Tetrachloroethene         | 0.448    | 0.441    | 1.6   | 101   | -0.01    |
| 65 TP | trans-1,3-Dichloropropene | * 40.000 | 38.323   | 4.2   | 100   | -0.01    |
| 67 TP | Ethyl methacrylate        | 0.708    | 0.654    | 7.6   | 94    | -0.01    |
| 68 TP | 1,1,2-Trichloroethane     | 0.388    | 0.390    | -0.5  | 101   | -0.01    |
| 69 TP | Chlorodibromomethane      | 0.525    | 0.532    | -1.3  | 97    | 0.00     |
| 70 TP | 1,3-Dichloropropane       | 0.803    | 0.800    | 0.4   | 99    | -0.01    |
| 71 TP | 1,2-Dibromoethane         | 0.452    | 0.465    | -2.9  | 101   | 0.00     |
| 72 TP | 2-Hexanone                | 0.491    | 0.422    | 14.1  | 86    | -0.01    |
| 73 TP | Chlorobenzene             | 1.373    | 1.321    | 3.8   | 99    | 0.00     |
| 74 TC | Ethylbenzene              | 2.255    | 2.205    | 2.2   | 101   | -0.01    |
| 75 TP | 1,1,1,2-Tetrachloroethane | 0.488    | 0.504    | -3.3  | 101   | -0.01    |
| 76 TP | p/m Xylene                | 0.847    | 0.845    | 0.2   | 100   | -0.01    |
| 77 TP | o Xylene                  | 0.828    | 0.807    | 2.5   | 96    | -0.01    |
| 78 TP | Styrene                   | 1.385    | 1.391    | -0.4  | 95    | -0.01    |
| 79 I  | 1,4-Dichlorobenzene-d4    | 1.000    | 1.000    | 0.0   | 105   | 0.00     |
| 80 TP | Bromoform                 | 0.650    | 0.682    | -4.9  | 101   | -0.01    |
| 82 TP | Isopropylbenzene          | 4.017    | 3.834    | 4.6   | 98    | -0.01    |
| 83 S  | 4-Bromofluorobenzene      | 1.039    | 1.027    | 1.2   | 105   | 0.00     |
| 84 TP | Bromobenzene              | 1.068    | 1.049    | 1.8   | 101   | 0.00     |
| 85 TP | n-Propylbenzene           | 4.963    | 4.695    | 5.4   | 98    | 0.00     |
| 86 TP | 1,4-Dichlorobutane        | 2.131    | 1.984    | 6.9   | 96    | 0.00     |
| 87 TP | 1,1,2,2-Tetrachloroethane | 1.244    | 1.213    | 2.5   | 100   | 0.00     |
| 88 TP | 4-Ethyltoluene            | 4.281    | 3.516    | 17.9  | 84    | 0.00     |
| 89 TP | 2-Chlorotoluene           | 3.137    | 2.964    | 5.5   | 101   | -0.01    |



# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

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

|        | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|--------|-----------------------------|-------|-------|-------|-------|----------|
| 90 TP  | 1,3,5-Trimethylbenzene      | 3.522 | 3.349 | 4.9   | 98    | 0.00     |
| 91 TP  | 1,2,3-Trichloropropane      | 1.004 | 0.978 | 2.6   | 102   | 0.00     |
| 92 TP  | trans-1,4-Dichloro-2-butene | 0.437 | 0.375 | 14.2  | 85    | 0.00     |
| 93 TP  | 4-Chlorotoluene             | 3.240 | 3.038 | 6.2   | 98    | 0.00     |
| 94 TP  | tert-Butylbenzene           | 2.877 | 2.768 | 3.8   | 98    | 0.00     |
| 97 TP  | 1,2,4-Trimethylbenzene      | 3.529 | 3.543 | -0.4  | 101   | 0.00     |
| 98 TP  | sec-Butylbenzene            | 4.397 | 4.256 | 3.2   | 100   | 0.00     |
| 99 TP  | p-Isopropyltoluene          | 3.705 | 3.539 | 4.5   | 97    | 0.00     |
| 100 TP | 1,3-Dichlorobenzene         | 2.070 | 1.976 | 4.5   | 98    | 0.00     |
| 101 TP | 1,4-Dichlorobenzene         | 2.170 | 1.979 | 8.8   | 95    | 0.00     |
| 102 TP | p-Diethylbenzene            | 2.296 | 1.809 | 21.2# | 79    | 0.00     |
| 103 TP | n-Butylbenzene              | 3.586 | 3.399 | 5.2   | 97    | 0.00     |
| 104 TP | 1,2-Dichlorobenzene         | 2.002 | 1.895 | 5.3   | 97    | 0.00     |
| 105 TP | 1,2,4,5-Tetramethylbenzene  | 3.807 | 3.096 | 18.7  | 82    | 0.00     |
| 106 TP | 1,2-Dibromo-3-chloropropane | 0.196 | 0.195 | 0.5   | 103   | 0.00     |
| 107 TP | 1,3,5-Trichlorobenzene      | 1.506 | 1.313 | 12.8  | 90    | 0.00     |
| 108 TP | Hexachlorobutadiene         | 0.611 | 0.557 | 8.8   | 96    | 0.00     |
| 109 TP | 1,2,4-Trichlorobenzene      | 1.390 | 1.327 | 4.5   | 99    | 0.00     |
| 110 TP | Naphthalene                 | 3.665 | 3.559 | 2.9   | 102   | 0.00     |
| 111 TP | 1,2,3-Trichlorobenzene      | 1.348 | 1.245 | 7.6   | 99    | 0.00     |

\* Evaluation of CC level amount vs concentration.  
 (#) = Out of Range SPCC's out = 1 CCC's out = 0

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 6.211          | 96   | 130609   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 125548     |                |      | Recovery | =       | 104.03% |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 95995    | 20.000  | ug/L    | -0.01    |
| Standard Area 1 = 92632      |                |      | Recovery | =       | 103.63% |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 51688    | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 49342      |                |      | Recovery | =       | 104.75% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 37713    | 20.356  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 101.78% |          |
| 43) 1,2-Dichloroethane-d4    | 5.928          | 65   | 43351    | 19.610  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 98.05%  |          |
| 60) Toluene-d8               | 7.904          | 98   | 131172   | 20.005  | ug/L    | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 100.02% |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 53105    | 19.780  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 98.90%  |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.717          | 85   | 47155    | 37.439  | ug/L    | # 95     |
| 3) Chloromethane             | 1.927          | 50   | 84984    | 34.561  | ug/L    | 98       |
| 4) Vinyl chloride            | 1.995          | 62   | 89014    | 38.082  | ug/L    | 97       |
| 5) Bromomethane              | 2.320          | 94   | 36008    | 44.889  | ug/L    | 100      |
| 6) Chloroethane              | 2.441          | 64   | 36411    | 30.257  | ug/L    | 95       |
| 7) Trichlorofluoromethane    | 2.583          | 101  | 92830    | 40.623  | ug/L    | 99       |
| 8) Ethyl ether               | 2.902          | 74   | 44270    | 38.916  | ug/L    | # 49     |
| 10) 1,1-Dichloroethene       | 3.091          | 96   | 62633    | 37.341  | ug/L    | # 54     |
| 11) Carbon disulfide         | 3.123          | 76   | 147539   | 26.795  | ug/L    | 99       |
| 12) Freon-113                | 3.128          | 101  | 77138    | 44.529  | ug/L    | # 66     |
| 14) Acrolein                 | 3.432          | 56   | 20954    | 40.352  | ug/L    | 89       |
| 15) Methylene chloride       | 3.668          | 84   | 87533    | 35.906  | ug/L    | # 56     |
| 17) Acetone                  | 3.720          | 43   | 28231M1  | 31.753  | ug/L    |          |
| 18) trans-1,2-Dichloroethene | 3.825          | 96   | 77294    | 37.642  | ug/L    | # 68     |
| 19) Methyl acetate           | 3.836          | 43   | 91943    | 37.853  | ug/L    | # 85     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 257966   | 36.976  | ug/L    | # 81     |
| 21) tert-Butyl alcohol       | 4.035          | 59   | 75243    | 172.520 | ug/L    | 95       |
| 22) Diisopropyl ether        | 4.292          | 45   | 388215   | 35.100  | ug/L    | # 85     |
| 23) 1,1-Dichloroethane       | 4.418          | 63   | 184281   | 37.424  | ug/L    | 96       |
| 24) Halothane                | 4.470          | 117  | 60338    | 37.234  | ug/L    | 99       |
| 25) Acrylonitrile            | 4.470          | 53   | 46056    | 43.855  | ug/L    | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.643  | 59   | 367031   | 36.201   | ug/L   | 89       |
| 27) Vinyl acetate             | 4.659  | 43   | 254064   | 34.697   | ug/L # | 90       |
| 28) cis-1,2-Dichloroethene    | 4.947  | 96   | 93030    | 38.218   | ug/L # | 67       |
| 29) 2,2-Dichloropropane       | 5.047  | 77   | 117090   | 37.254   | ug/L # | 83       |
| 30) Bromochloromethane        | 5.141  | 128  | 47746    | 41.514   | ug/L # | 52       |
| 31) Cyclohexane               | 5.141  | 56   | 188237   | 41.895   | ug/L # | 60       |
| 32) Chloroform                | 5.215  | 83   | 157394   | 37.549   | ug/L # | 92       |
| 33) Ethyl acetate             | 5.325  | 43   | 132161   | 37.521   | ug/L # | 93       |
| 34) Carbon tetrachloride      | 5.351  | 117  | 112568   | 38.108   | ug/L   | 99       |
| 35) Tetrahydrofuran           | 5.372  | 42   | 39504M1  | 35.881   | ug/L   |          |
| 37) 1,1,1-Trichloroethane     | 5.414  | 97   | 129173   | 38.336   | ug/L   | 88       |
| 39) 2-Butanone                | 5.513  | 43   | 52077    | 32.589   | ug/L # | 78       |
| 40) 1,1-Dichloropropene       | 5.540  | 75   | 112884   | 39.002   | ug/L   | 96       |
| 41) Benzene                   | 5.786  | 78   | 335485   | 37.363   | ug/L # | 87       |
| 42) tert-Amyl methyl ether    | 5.896  | 73   | 258517   | 35.437   | ug/L   | 91       |
| 44) 1,2-Dichloroethane        | 5.996  | 62   | 159333   | 38.689   | ug/L   | 96       |
| 47) Methyl cyclohexane        | 6.373  | 83   | 135703   | 39.769   | ug/L # | 47       |
| 48) Trichloroethene           | 6.389  | 95   | 86755    | 39.094   | ug/L   | 94       |
| 50) Dibromomethane            | 6.835  | 93   | 61693    | 40.093   | ug/L   | 92       |
| 51) 1,2-Dichloropropane       | 6.934  | 63   | 114802   | 39.151   | ug/L # | 94       |
| 53) 2-Chloroethyl vinyl ether | 7.626  | 63   | 51848    | 30.545   | ug/L # | 76       |
| 54) Bromodichloromethane      | 7.008  | 83   | 128801   | 38.550   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 7.223  | 88   | 56968M1  | 2175.865 | ug/L   |          |
| 58) cis-1,3-Dichloropropene   | 7.700  | 75   | 154697   | 36.340   | ug/L # | 82       |
| 61) Toluene                   | 7.962  | 92   | 214727   | 38.361   | ug/L   | 97       |
| 62) 4-Methyl-2-pentanone      | 8.397  | 58   | 44799    | 33.784   | ug/L # | 94       |
| 63) Tetrachloroethene         | 8.413  | 166  | 84719    | 39.387   | ug/L   | 93       |
| 65) trans-1,3-Dichloropropene | 8.450  | 75   | 150594   | 38.323   | ug/L   | 86       |
| 67) Ethyl methacrylate        | 8.628  | 69   | 125565   | 36.966   | ug/L   | 85       |
| 68) 1,1,2-Trichloroethane     | 8.633  | 83   | 74963    | 40.204   | ug/L   | 98       |
| 69) Chlorodibromomethane      | 8.853  | 129  | 102079   | 40.528   | ug/L   | 100      |
| 70) 1,3-Dichloropropane       | 8.958  | 76   | 153573   | 39.825   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 9.131  | 107  | 89289    | 41.143   | ug/L   | 100      |
| 72) 2-Hexanone                | 9.404  | 43   | 80955    | 34.349   | ug/L   | 99       |
| 73) Chlorobenzene             | 9.776  | 112  | 253711   | 38.502   | ug/L   | 93       |
| 74) Ethylbenzene              | 9.807  | 91   | 423340   | 39.120   | ug/L   | 97       |
| 75) 1,1,1,2-Tetrachloroethane | 9.855  | 131  | 96736    | 41.322   | ug/L   | 99       |
| 76) p/m Xylene                | 9.991  | 106  | 324570   | 79.839   | ug/L   | 92       |
| 77) o Xylene                  | 10.521 | 106  | 309745   | 77.966   | ug/L   | 93       |
| 78) Styrene                   | 10.583 | 104  | 534301   | 80.355   | ug/L   | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191211N\VC191211N08.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 80)  | Bromoform                 | 10.615 | 173  | 70539    | 42.014 | ug/L   | 98       |
| 82)  | Isopropylbenzene          | 10.888 | 105  | 396389   | 38.178 | ug/L   | 97       |
| 84)  | Bromobenzene              | 11.328 | 156  | 108456   | 39.295 | ug/L   | 98       |
| 85)  | n-Propylbenzene           | 11.359 | 91   | 485351   | 37.843 | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 11.380 | 55   | 205057   | 37.240 | ug/L   | 96       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.449 | 83   | 125350   | 39.000 | ug/L   | 99       |
| 88)  | 4-Ethyltoluene            | 11.480 | 105  | 363446   | 32.853 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 11.527 | 91   | 306409M1 | 37.795 | ug/L   |          |
| 90)  | 1,3,5-Trimethylbenzene    | 11.574 | 105  | 346250   | 38.038 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 11.585 | 75   | 101080M1 | 38.941 | ug/L   |          |
| 92)  | trans-1,4-Dichloro-2-b... | 11.637 | 53   | 38747    | 34.271 | ug/L # | 63       |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 314070   | 37.503 | ug/L   | 93       |
| 94)  | tert-Butylbenzene         | 11.910 | 119  | 286178   | 38.494 | ug/L   | 94       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.989 | 105  | 366224   | 40.158 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 439944   | 38.718 | ug/L   | 99       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 365820   | 38.201 | ug/L   | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.329 | 146  | 204270   | 38.183 | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 204626   | 36.486 | ug/L   | 96       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 187050   | 31.527 | ug/L   | 97       |
| 103) | n-Butylbenzene            | 12.675 | 91   | 351382   | 37.910 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 195904   | 37.869 | ug/L   | 97       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 320050   | 32.532 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 20169    | 39.745 | ug/L   | 100      |
| 107) | 1,3,5-Trichlorobenzene    | 13.640 | 180  | 135688   | 34.864 | ug/L   | 96       |
| 108) | Hexachlorobutadiene       | 14.201 | 225  | 57588    | 36.493 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 137226   | 38.206 | ug/L   | 98       |
| 110) | Naphthalene               | 14.521 | 128  | 367959   | 38.850 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.689 | 180  | 128659   | 36.931 | ug/L   | 99       |

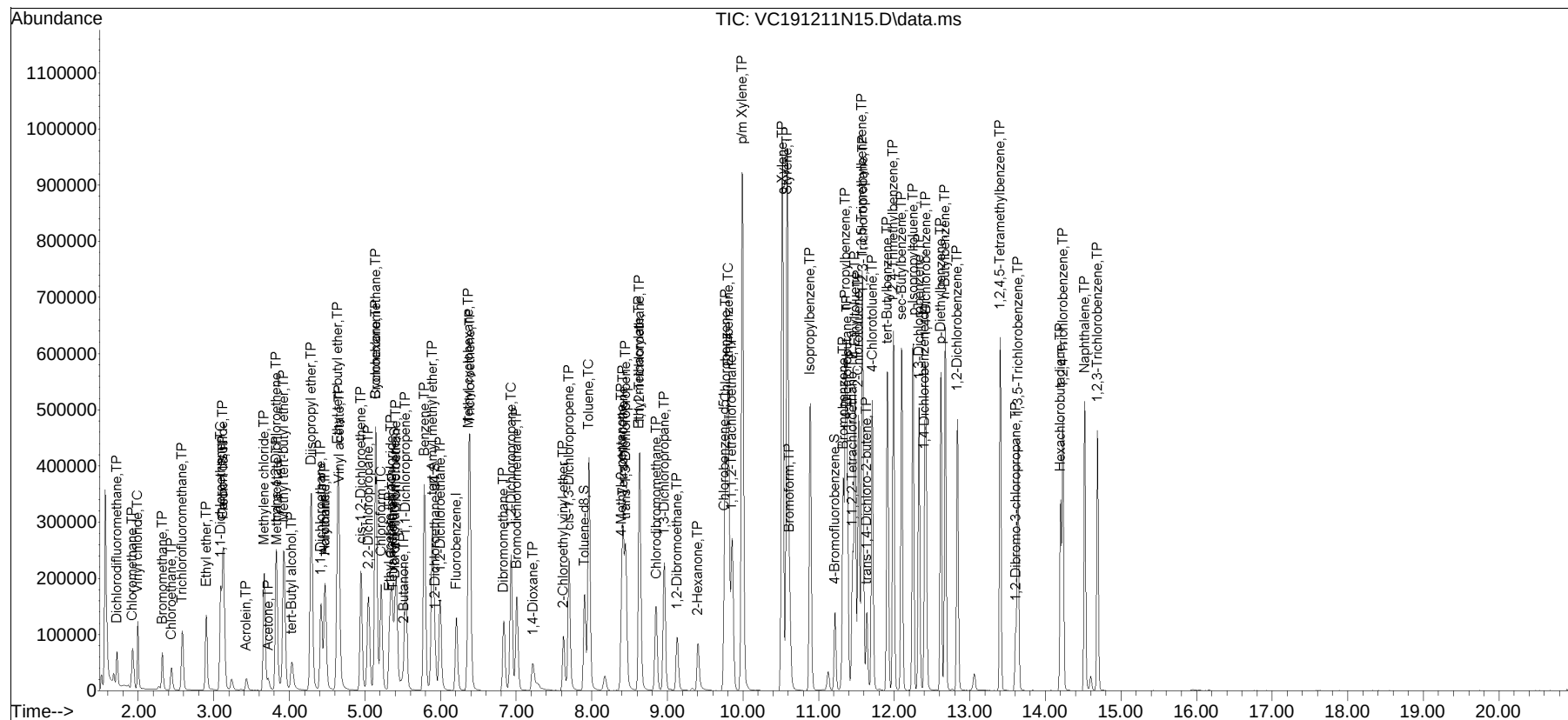
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191211N\  
 Data File : VC191211N15.D  
 Acq On : 11 Dec 2019 11:45 pm  
 Operator : CHARLIE:MAB  
 Sample : C8260STD40PPB  
 Misc : WG1319953  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 12 10:00:52 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191211N\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

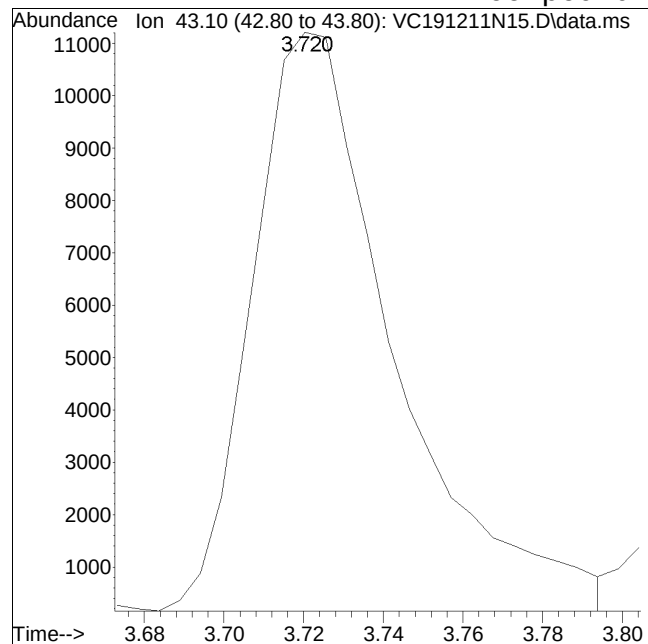
Sub List : 8260-CurveSoil - Megamix plus Diox11N\VC191211N08.D•



# Manual Integration Report

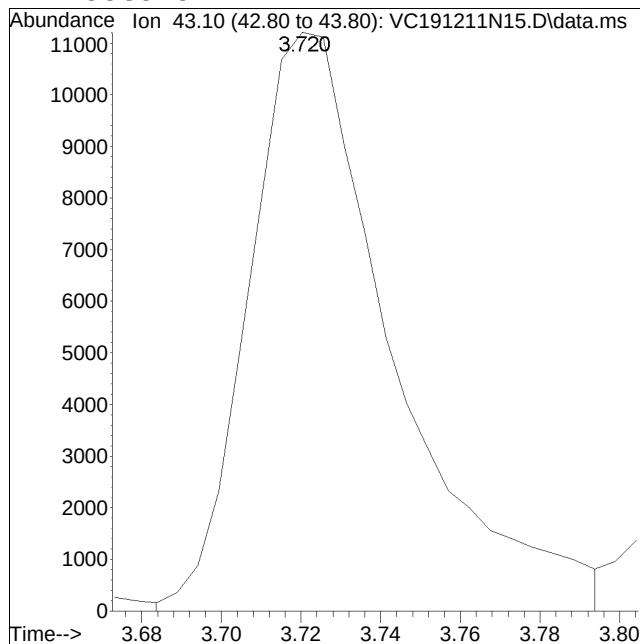
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N15.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 11:45 pm Instrument : Charlie  
Sample : C8260STD40PPB Quant Date : 12/12/2019 10:00 am

## Compound #17: Acetone



Original Peak Response = 27174

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

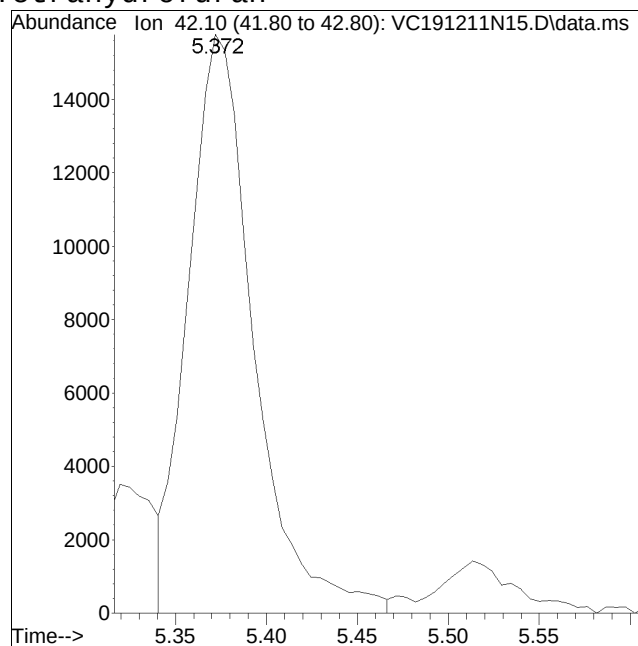
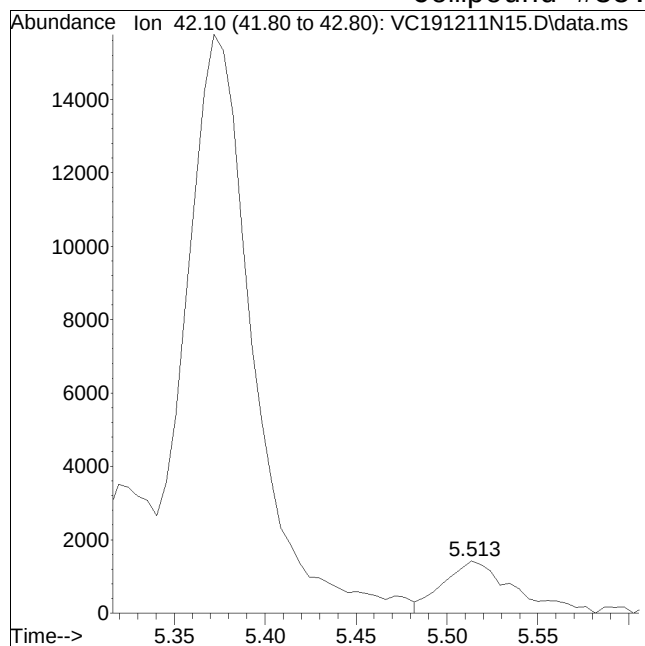


Manual Peak Response = 28231 M1

# Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N15.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 11:45 pm Instrument : Charlie  
Sample : C8260STD40PPB Quant Date : 12/12/2019 10:00 am

## Compound #35: Tetrahydrofuran



Original Peak Response = 3827

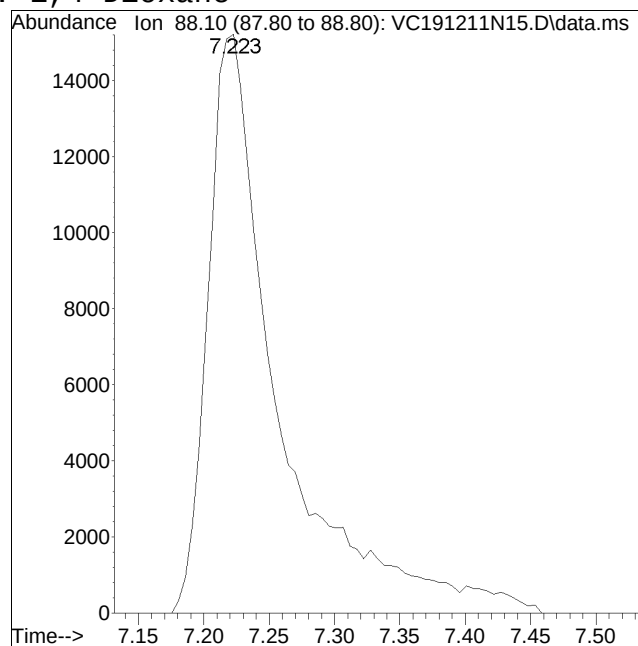
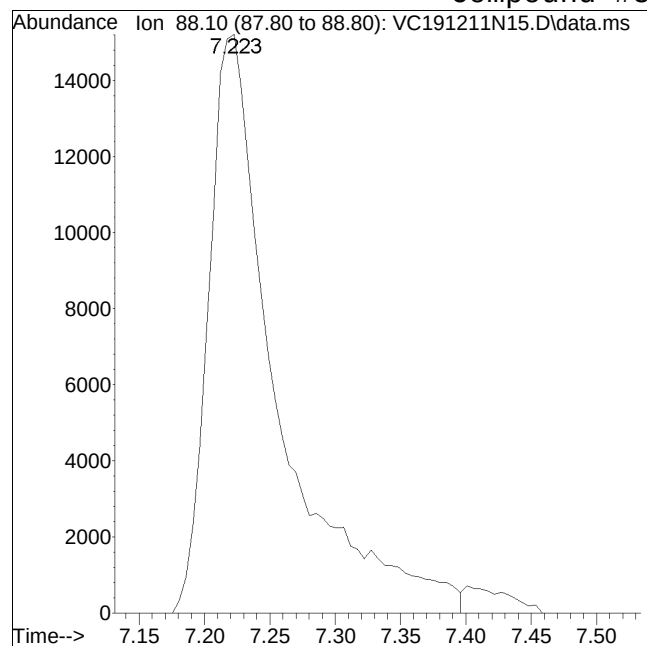
Manual Peak Response = 39504 M1

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

# Manual Integration Report

Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N15.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 11:45 pm Instrument : Charlie  
Sample : C8260STD40PPB Quant Date : 12/12/2019 10:00 am

## Compound #57: 1,4-Dioxane



Original Peak Response = 55340

Manual Peak Response = 56968 M1

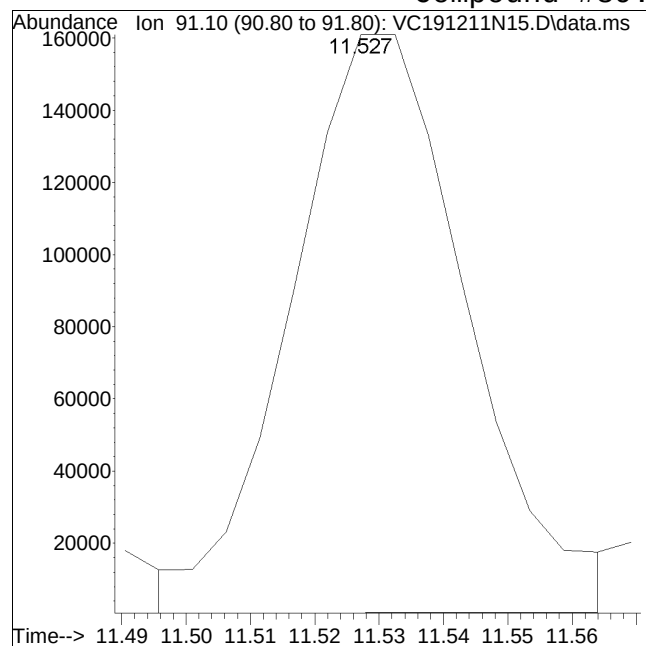
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



# Manual Integration Report

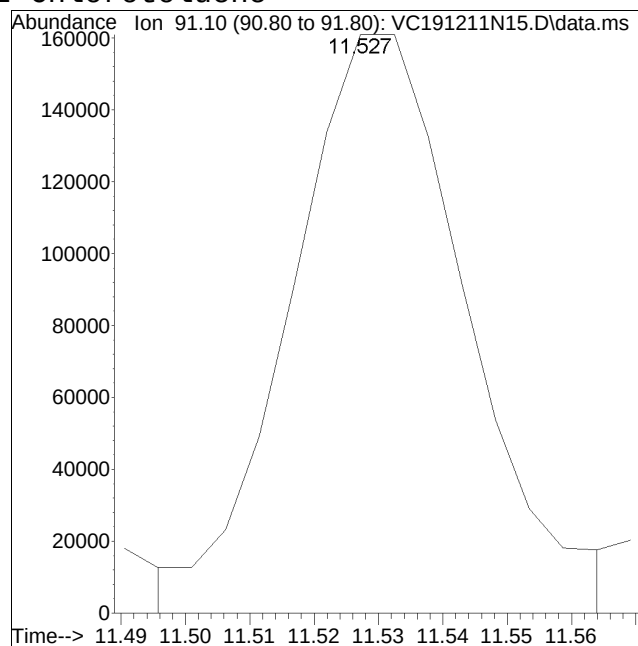
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N15.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 11:45 pm Instrument : Charlie  
Sample : C8260STD40PPB Quant Date : 12/12/2019 10:00 am

## Compound #89: 2-Chlorotoluene



Original Peak Response = 303311

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

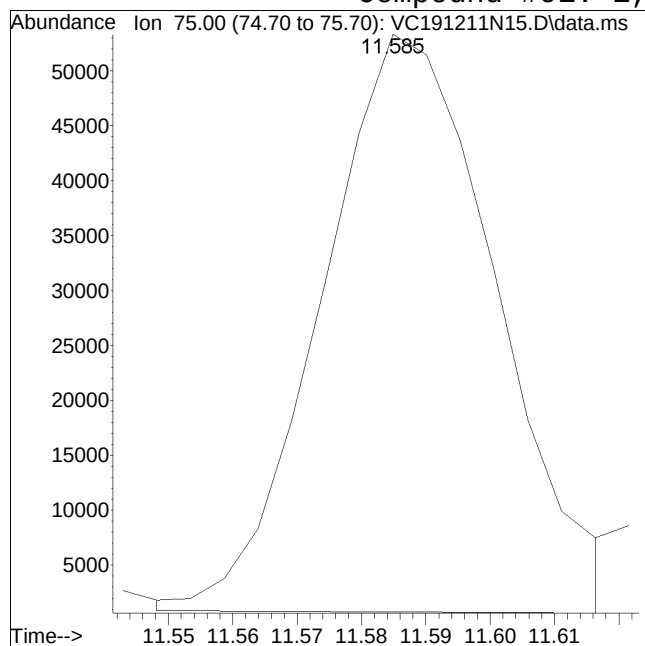


Manual Peak Response = 306409 M1

# Manual Integration Report

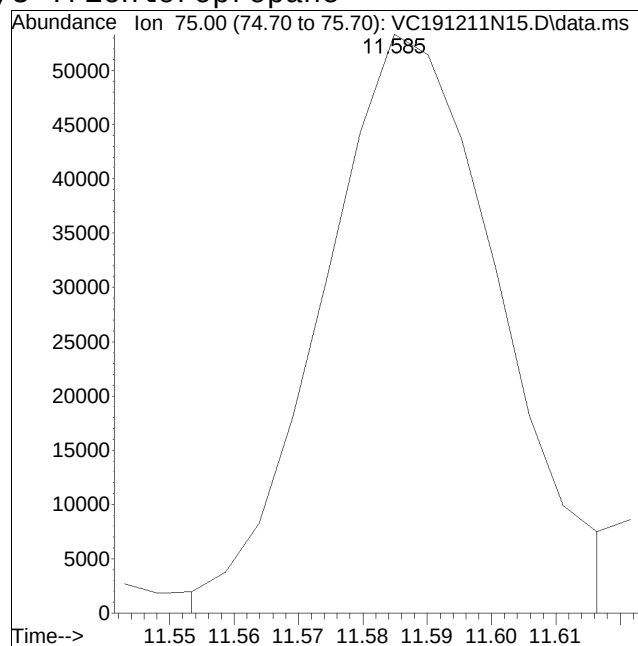
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191211N15.D Operator : CHARLIE:MAB  
Date Inj'd : 12/11/2019 11:45 pm Instrument : Charlie  
Sample : C8260STD40PPB Quant Date : 12/12/2019 10:00 am

## Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 98580

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



Manual Peak Response = 101080 M1

# Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2019\191220\  
Method File : V111\_191220A\_8260.m  
Title : VOLATILES BY GC/MS  
Last Update : Fri Dec 20 14:19:02 2019  
Response Via : Initial Calibration

## Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

| Compound       |                   | L1    | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0     | Avg    | %RSD |
|----------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|------|
| -----ISTD----- |                   |       |       |       |       |       |       |       |       |        |        |      |
| 1) I           | Fluorobenzene     |       |       |       |       |       |       |       |       |        |        |      |
| 2) TP          | Dichlorodifluo... | 0.221 | 0.249 | 0.219 | 0.224 | 0.247 | 0.231 | 0.229 | 0.237 | 0.232  | 4.86   |      |
| 3) TP          | Chloromethane     | 0.340 | 0.350 | 0.298 | 0.306 | 0.359 | 0.307 | 0.302 | 0.312 | 0.322  | 7.45   |      |
| 4) TC          | Vinyl chloride    | 0.307 | 0.333 | 0.279 | 0.286 | 0.326 | 0.284 | 0.271 | 0.268 | 0.294  | 8.48   |      |
| 5) TP          | Bromomethane      |       | 0.239 | 0.177 | 0.171 | 0.249 | 0.162 | 0.152 | 0.157 | *L     | 0.9989 |      |
| 6) TP          | Chloroethane      | 0.187 | 0.204 | 0.166 | 0.166 | 0.204 | 0.154 | 0.128 |       | 0.173  | 16.07  |      |
| 7) TP          | Trichlorofluor... | 0.354 | 0.388 | 0.329 | 0.336 | 0.381 | 0.340 | 0.334 | 0.334 | 0.349  | 6.57   |      |
| 8) TP          | Ethyl ether       | 0.139 | 0.154 | 0.134 | 0.145 | 0.150 | 0.145 | 0.143 | 0.143 | 0.144  | 4.15   |      |
| 10) TP         | 1,1-Dichloroet... | 0.198 | 0.218 | 0.193 | 0.196 | 0.218 | 0.201 | 0.199 | 0.206 | 0.204  | 4.68   |      |
| 11) TP         | Carbon disulfide  | 1.132 | 0.904 | 0.723 | 0.733 | 1.008 | 0.736 | 0.724 | 0.734 | 0.837  | 19.04  |      |
| 12) TP         | Freon-113         | 0.199 | 0.237 | 0.203 | 0.212 | 0.223 | 0.214 | 0.209 | 0.213 | 0.214  | 5.57   |      |
| 13) TP         | Iodomethane       |       | 0.134 | 0.195 | 0.236 | 0.100 | 0.251 | 0.247 | 0.254 | *L     | 0.9989 |      |
| 14) TP         | Acrolein          | 0.029 | 0.036 | 0.035 | 0.040 | 0.031 | 0.041 | 0.041 | 0.041 | 0.037# | 12.99  |      |
| 15) TP         | Methylene chlo... |       | 0.341 | 0.258 | 0.263 | 0.377 | 0.259 | 0.251 | 0.254 | 0.286  | 17.77  |      |
| 17) TP         | Acetone           | 0.089 | 0.067 | 0.057 | 0.062 | 0.074 | 0.058 | 0.057 | 0.055 | 0.065# | 17.67  |      |
| 18) TP         | trans-1,2-Dich... | 0.234 | 0.252 | 0.222 | 0.235 | 0.252 | 0.232 | 0.229 | 0.233 | 0.236  | 4.46   |      |
| 19) TP         | Methyl acetate    | 0.174 | 0.181 | 0.160 | 0.178 | 0.183 | 0.174 | 0.170 | 0.166 | 0.173  | 4.46   |      |
| 20) TP         | Methyl tert-bu... | 0.593 | 0.660 | 0.611 | 0.680 | 0.618 | 0.688 | 0.685 | 0.693 | 0.654  | 6.12   |      |
| 21) TP         | tert-Butyl alc... | 0.021 | 0.023 | 0.021 | 0.024 | 0.020 | 0.023 | 0.024 | 0.024 | 0.022# | 6.66   |      |
| 22) TP         | Diisopropyl ether | 0.821 | 0.936 | 0.887 | 0.975 | 0.885 | 0.992 | 0.959 | 0.942 | 0.925  | 6.11   |      |
| 23) TC         | 1,1-Dichloroet... | 0.488 | 0.552 | 0.474 | 0.498 | 0.536 | 0.489 | 0.474 | 0.477 | 0.498  | 5.91   |      |
| 24) TP         | Halothane         | 0.170 | 0.193 | 0.165 | 0.172 | 0.190 | 0.173 | 0.170 | 0.173 | 0.176  | 5.73   |      |
| 25) TP         | Acrylonitrile     | 0.054 | 0.073 | 0.066 | 0.074 | 0.061 | 0.075 | 0.073 | 0.072 | 0.069  | 10.74  |      |
| 26) TP         | Ethyl tert-but... | 0.667 | 0.781 | 0.754 | 0.832 | 0.728 | 0.854 | 0.834 | 0.833 | 0.785  | 8.29   |      |
| 27) TP         | Vinyl acetate     | 0.491 | 0.616 | 0.608 | 0.682 | 0.561 | 0.685 | 0.652 | 0.636 | 0.616  | 10.52  |      |
| 28) TP         | cis-1,2-Dichlo... | 0.254 | 0.273 | 0.250 | 0.263 | 0.260 | 0.262 | 0.257 | 0.262 | 0.260  | 2.64   |      |
| 29) TP         | 2,2-Dichloropr... | 0.363 | 0.400 | 0.346 | 0.362 | 0.377 | 0.365 | 0.361 | 0.363 | 0.367  | 4.26   |      |
| 30) TP         | Bromochloromet... | 0.112 | 0.128 | 0.113 | 0.118 | 0.124 | 0.113 | 0.110 | 0.110 | 0.116  | 5.77   |      |
| 31) TP         | Cyclohexane       | 0.337 | 0.408 | 0.395 | 0.425 | 0.376 | 0.443 | 0.430 | 0.432 | 0.406  | 8.71   |      |
| 32) TC         | Chloroform        | 0.469 | 0.508 | 0.436 | 0.455 | 0.499 | 0.446 | 0.437 | 0.443 | 0.462  | 6.04   |      |
| 33) TP         | Ethyl acetate     | 0.191 | 0.221 | 0.210 | 0.235 | 0.211 | 0.228 | 0.225 | 0.222 | 0.218  | 6.43   |      |

## Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2019\191220\  
 Method File : V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Fri Dec 20 14:19:02 2019  
 Response Via : Initial Calibration

## Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
 L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

|     | Compound             | L1             | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0     | Avg   | %RSD |
|-----|----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|
| 34) | TP Carbon tetrach... | 0.302          | 0.342 | 0.300 | 0.312 | 0.317 | 0.314 | 0.312 | 0.322 | 0.315  | 4.15  |      |
| 35) | TP Tetrahydrofuran   | 0.058          | 0.078 | 0.076 | 0.086 | 0.072 | 0.084 | 0.081 | 0.080 | 0.077  | 11.33 |      |
| 36) | S Dibromofluorom...  | 0.275          | 0.269 | 0.263 | 0.263 | 0.269 | 0.261 | 0.261 | 0.260 | 0.275  | 2.22  |      |
| 37) | TP 1,1,1-Trichlor... | 0.360          | 0.406 | 0.350 | 0.361 | 0.378 | 0.364 | 0.361 | 0.367 | 0.403  | 5.29  |      |
| 39) | TP 2-Butanone        | 0.089          | 0.116 | 0.092 | 0.102 | 0.099 | 0.101 | 0.099 | 0.099 | 0.100# | 8.26  |      |
| 40) | TP 1,1-Dichloropr... | 0.287          | 0.335 | 0.309 | 0.324 | 0.304 | 0.334 | 0.330 | 0.336 | 0.326  | 5.28  |      |
| 41) | TP Benzene           | 0.997          | 1.100 | 0.972 | 1.019 | 1.064 | 1.003 | 0.977 | 0.994 | 1.094  | 4.79  |      |
| 42) | TP tert-Amyl meth... | 0.546          | 0.635 | 0.631 | 0.700 | 0.584 | 0.714 | 0.710 | 0.720 | 0.655  | 10.11 |      |
| 43) | S 1,2-Dichloroet...  | 0.296          | 0.288 | 0.282 | 0.282 | 0.288 | 0.279 | 0.280 | 0.277 | 0.289  | 2.19  |      |
| 44) | TP 1,2-Dichloroet... | 0.352          | 0.383 | 0.333 | 0.352 | 0.384 | 0.342 | 0.331 | 0.330 | 0.351  | 6.23  |      |
| 47) | TP Methyl cyclohe... | 0.327          | 0.378 | 0.362 | 0.392 | 0.374 | 0.408 | 0.402 | 0.410 | 0.382  | 7.27  |      |
| 48) | TP Trichloroethene   | 0.245          | 0.263 | 0.236 | 0.243 | 0.261 | 0.242 | 0.239 | 0.243 | 0.260  | 4.16  |      |
| 50) | TP Dibromomethane    | 0.134          | 0.160 | 0.140 | 0.148 | 0.146 | 0.145 | 0.143 | 0.145 | 0.145  | 5.14  |      |
| 51) | TC 1,2-Dichloropr... | 0.269          | 0.303 | 0.268 | 0.287 | 0.286 | 0.287 | 0.278 | 0.283 | 0.282  | 4.02  |      |
| 53) | TP 2-Chloroethyl ... | 0.088          | 0.095 | 0.116 |       | 0.125 | 0.131 | 0.133 |       | 0.115  | 16.83 |      |
| 54) | TP Bromodichlorom... | 0.343          | 0.394 | 0.347 | 0.364 | 0.374 | 0.363 | 0.359 | 0.366 | 0.349  | 4.32  |      |
| 57) | TP 1,4-Dioxane       | 0.001          | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002# | 18.63 |      |
| 58) | TP cis-1,3-Dichlo... | 0.354          | 0.411 | 0.400 | 0.439 | 0.381 | 0.444 | 0.440 | 0.447 | 0.378  | 8.31  |      |
| 59) | I Chlorobenzene-d5   | -----ISTD----- |       |       |       |       |       |       |       |        |       |      |
| 60) | S Toluene-d8         | 1.402          | 1.398 | 1.421 | 1.404 | 1.391 | 1.381 | 1.393 | 1.369 | 1.394  | 1.395 | 1.06 |
| 61) | TC Toluene           | 0.778          | 0.884 | 0.778 | 0.814 | 0.857 | 0.793 | 0.780 | 0.794 | 0.810  | 4.94  |      |
| 62) | TP 4-Methyl-2-pen... | 0.092          | 0.096 | 0.112 | 0.076 | 0.114 | 0.116 | 0.116 |       | 0.103  | 14.89 |      |
| 63) | TP Tetrachloroethene | 0.290          | 0.326 | 0.297 | 0.302 | 0.307 | 0.299 | 0.298 | 0.304 | 0.303  | 3.32  |      |
| 65) | TP trans-1,3-Dich... | 0.384          | 0.496 | 0.465 | 0.519 | 0.454 | 0.515 | 0.517 | 0.521 | 0.484  | 9.91  |      |
| 67) | TP Ethyl methacry... | 0.319          | 0.342 | 0.406 | 0.263 | 0.421 | 0.426 | 0.429 |       | 0.372  | 17.52 |      |
| 68) | TP 1,1,2-Trichlor... | 0.227          | 0.267 | 0.236 | 0.254 | 0.248 | 0.238 | 0.235 | 0.234 | 0.242  | 5.39  |      |
| 69) | TP Chlorodibromom... | 0.280          | 0.331 | 0.302 | 0.327 | 0.313 | 0.321 | 0.323 | 0.327 | 0.294  | 5.60  |      |
| 70) | TP 1,3-Dichloropr... | 0.447          | 0.539 | 0.483 | 0.519 | 0.508 | 0.500 | 0.492 | 0.496 | 0.498  | 5.46  |      |
| 71) | TP 1,2-Dibromoethane | 0.227          | 0.278 | 0.250 | 0.269 | 0.245 | 0.259 | 0.257 | 0.259 | 0.255  | 6.09  |      |
| 72) | TP 2-Hexanone        | 0.157          | 0.171 | 0.204 | 0.125 | 0.205 | 0.207 | 0.206 |       | 0.182  | 17.56 |      |
| 73) | TP Chlorobenzene     | 0.863          | 0.950 | 0.828 | 0.878 | 0.892 | 0.852 | 0.843 | 0.856 | 0.944  | 4.90  |      |

## Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2019\191220\  
 Method File : V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Fri Dec 20 14:19:02 2019  
 Response Via : Initial Calibration

## Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
 L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

|      | Compound                 | L1             | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0    | Avg   | %RSD  |
|------|--------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74)  | TC Ethylbenzene          | 1.271          | 1.487 | 1.429 | 1.538 | 1.412 | 1.514 | 1.489 | 1.510 |       | 1.456 | 5.92  |
| 75)  | TP 1,1,1,2-Tetrac...     | 0.309          | 0.352 | 0.303 | 0.321 | 0.315 | 0.316 | 0.311 | 0.315 | 0.325 | 0.319 | 4.39  |
| 76)  | TP p/m Xylene            | 0.437          | 0.537 | 0.541 | 0.577 | 0.489 | 0.561 | 0.551 | 0.555 | 0.449 | 0.522 | 9.74  |
| 77)  | TP o Xylene              | 0.403          | 0.520 | 0.522 | 0.565 | 0.464 | 0.550 | 0.536 | 0.533 | 0.442 | 0.504 | 10.87 |
| 78)  | TP Styrene               | 0.655          | 0.893 | 0.912 | 0.984 | 0.760 | 0.938 | 0.899 | 0.891 | 0.660 | 0.844 | 14.34 |
| 79)  | I 1,4-Dichlorobenzene-d4 | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 80)  | TP Bromoform             | 0.335          | 0.398 | 0.360 | 0.389 | 0.355 | 0.382 | 0.377 | 0.376 |       | 0.371 | 5.48  |
| 82)  | TP Isopropylbenzene      | 2.122          | 2.537 | 2.490 | 2.718 | 2.320 | 2.744 | 2.718 | 2.791 |       | 2.555 | 9.26  |
| 83)  | S 4-Bromofluorob...      | 1.024          | 1.010 | 0.999 | 1.028 | 1.024 | 1.046 | 1.049 | 1.064 | 1.041 | 1.032 | 1.95  |
| 84)  | TP Bromobenzene          | 0.690          | 0.739 | 0.643 | 0.689 | 0.727 | 0.678 | 0.672 | 0.692 |       | 0.691 | 4.41  |
| 85)  | TP n-Propylbenzene       | 3.024          | 3.425 | 3.233 | 3.451 | 3.240 | 3.400 | 3.317 | 3.383 |       | 3.309 | 4.26  |
| 86)  | TP 1,4-Dichlorobu...     | 0.981          | 1.070 | 0.974 | 1.045 | 1.023 | 0.992 | 0.954 | 0.961 |       | 1.000 | 4.15  |
| 87)  | TP 1,1,2,2-Tetrac...     | 0.713          | 0.771 | 0.668 | 0.709 | 0.739 | 0.667 | 0.656 | 0.667 | 0.798 | 0.710 | 7.16  |
| 88)  | TP 4-Ethyltoluene        | 2.153          | 2.652 | 2.617 | 2.804 | 2.415 | 2.802 | 2.768 | 2.881 |       | 2.637 | 9.25  |
| 89)  | TP 2-Chlorotoluene       | 2.211          | 2.553 | 2.310 | 2.426 | 2.434 | 2.373 | 2.343 | 2.418 |       | 2.384 | 4.22  |
| 90)  | TP 1,3,5-Trimethy...     | 1.819          | 2.255 | 2.216 | 2.337 | 2.053 | 2.331 | 2.308 | 2.386 |       | 2.213 | 8.56  |
| 91)  | TP 1,2,3-Trichlor...     | 0.572          | 0.620 | 0.521 | 0.565 | 0.594 | 0.534 | 0.524 | 0.530 |       | 0.557 | 6.49  |
| 92)  | TP trans-1,4-Dich...     | 0.155          | 0.198 | 0.194 | 0.208 | 0.172 | 0.201 | 0.201 | 0.201 |       | 0.191 | 9.56  |
| 93)  | TP 4-Chlorotoluene       | 1.840          | 2.238 | 2.076 | 2.198 | 2.114 | 2.161 | 2.155 | 2.244 |       | 2.128 | 6.10  |
| 94)  | TP tert-Butylbenzene     | 1.405          | 1.753 | 1.727 | 1.890 | 1.665 | 1.925 | 1.897 | 1.958 |       | 1.777 | 10.33 |
| 97)  | TP 1,2,4-Trimethy...     | 1.641          | 2.185 | 2.218 | 2.372 | 1.864 | 2.351 | 2.328 | 2.414 |       | 2.172 | 12.71 |
| 98)  | TP sec-Butylbenzene      | 2.231          | 2.870 | 2.799 | 2.977 | 2.526 | 2.939 | 2.872 | 2.950 |       | 2.771 | 9.40  |
| 99)  | TP p-Isopropyltol...     | 1.682          | 2.138 | 2.228 | 2.427 | 1.916 | 2.465 | 2.408 | 2.488 |       | 2.219 | 13.18 |
| 100) | TP 1,3-Dichlorobe...     | 1.324          | 1.464 | 1.291 | 1.347 | 1.417 | 1.310 | 1.279 | 1.324 |       | 1.344 | 4.77  |
| 101) | TP 1,4-Dichlorobe...     | 1.408          | 1.456 | 1.315 | 1.361 | 1.478 | 1.310 | 1.293 | 1.341 |       | 1.370 | 5.09  |
| 102) | TP p-Diethylbenzene      | 1.031          | 1.260 | 1.336 | 1.470 | 1.193 | 1.486 | 1.483 | 1.552 |       | 1.351 | 13.31 |
| 103) | TP n-Butylbenzene        | 1.954          | 2.390 | 2.368 | 2.485 | 2.158 | 2.433 | 2.355 | 2.447 |       | 2.324 | 7.71  |
| 104) | TP 1,2-Dichlorobe...     | 1.198          | 1.312 | 1.174 | 1.241 | 1.262 | 1.221 | 1.194 | 1.241 |       | 1.230 | 3.57  |
| 105) | TP 1,2,4,5-Tetram...     | 1.418          | 1.774 | 1.955 | 2.299 | 1.585 | 2.384 | 2.353 | 2.474 |       | 2.030 | 19.90 |
| 106) | TP 1,2-Dibromo-3-...     |                | 0.083 | 0.081 | 0.092 | 0.072 | 0.095 | 0.095 | 0.099 |       | 0.088 | 11.18 |
| 107) | TP 1,3,5-Trichlor...     | 0.865          | 0.967 | 0.882 | 0.943 | 0.909 | 0.940 | 0.936 | 1.001 |       | 0.930 | 4.77  |

# Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2019\191220\  
Method File : V111\_191220A\_8260.m  
Title : VOLATILES BY GC/MS  
Last Update : Fri Dec 20 14:19:02 2019  
Response Via : Initial Calibration

## Calibration Files

L1 =V11191220A05.D L2 =V11191220A07.D L3 =V11191220A08.D L4 =V11191220A09.D L1.5=V11191220A06.D  
L6 =V11191220A10.D L7 =V11191220A11.D L8 =V11191220A12.D L0 =V11191220A04.D

| Compound |                      | L1    | L2    | L3    | L4    | L1.5  | L6    | L7    | L8    | L0    | Avg   | %RSD |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 108)     | TP Hexachlorobuta... | 0.464 | 0.467 | 0.398 | 0.425 | 0.451 | 0.449 | 0.436 | 0.471 | 0.445 | 5.52  |      |
| 109)     | TP 1,2,4-Trichlor... | 0.680 | 0.768 | 0.732 | 0.816 | 0.704 | 0.838 | 0.843 | 0.915 | 0.787 | 10.15 |      |
| 110)     | TP Naphthalene       | 1.194 | 1.370 | 1.409 | 1.708 | 1.256 | 1.770 | 1.771 | 1.881 | 1.545 | 17.25 |      |
| 111)     | TP 1,2,3-Trichlor... | 0.666 | 0.719 | 0.650 | 0.740 | 0.675 | 0.751 | 0.743 | 0.801 | 0.718 | 7.12  |      |

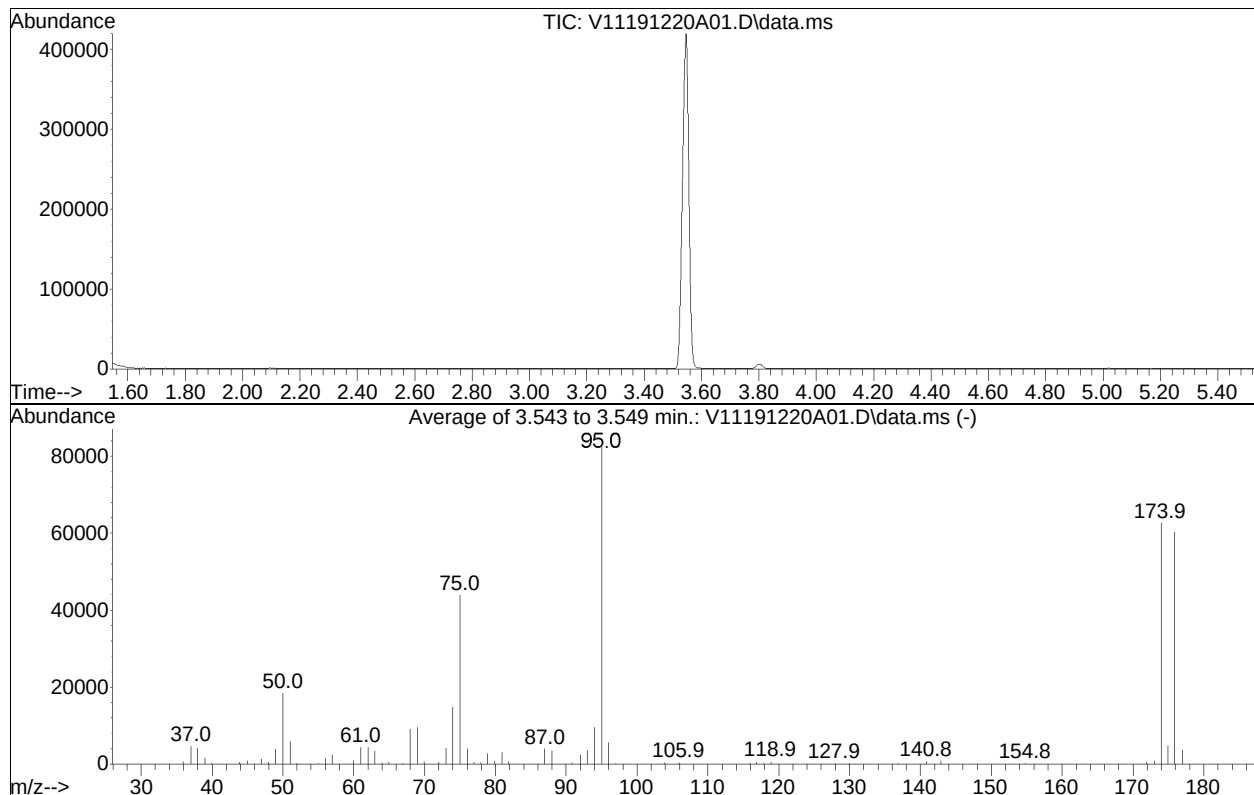
(#) = Out of Range

## BFB

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A01.D  
 Acq On : 20 Dec 2019 02:50 am  
 Operator : VOA111:JC  
 Sample : WG1323373-1  
 Misc : WG1323373,ICAL  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Fri Dec 20 14:19:02 2019



Spectrum Information: Average of 3.543 to 3.549 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 22.1      | 18373   | PASS             |
| 75          | 95           | 30           | 60           | 52.9      | 43888   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 83011   | PASS             |
| 96          | 95           | 5            | 9            | 6.8       | 5640    | PASS             |
| 173         | 174          | 0.00         | 2            | 1.4       | 849     | PASS             |
| 174         | 95           | 50           | 100          | 75.5      | 62659   | PASS             |
| 175         | 174          | 5            | 9            | 7.6       | 4755    | PASS             |
| 176         | 174          | 95           | 101          | 96.2      | 60291   | PASS             |
| 177         | 176          | 5            | 9            | 6.3       | 3798    | PASS             |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A04.D  
 Acq On : 20 Dec 2019 04:12 am  
 Operator : VOA111:JC  
 Sample : I8260STD.5PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 13:35:50 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-L0 - SOILS Level 0.5ppb with Chlorodibromomethane

| Compound                      | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|---------|----------|
| -----                         |                |      |          |        |         |          |
| Internal Standards            |                |      |          |        |         |          |
| 1) Fluorobenzene              | 5.454          | 96   | 237236   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 259600      |                |      | Recovery | =      | 91.39%  |          |
| 59) Chlorobenzene-d5          | 8.915          | 117  | 176393   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 193339      |                |      | Recovery | =      | 91.24%  |          |
| 79) 1,4-Dichlorobenzene-d4    | 11.746         | 152  | 82251    | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 101708      |                |      | Recovery | =      | 80.87%  |          |
|                               |                |      |          |        |         |          |
| System Monitoring Compounds   |                |      |          |        |         |          |
| 36) Dibromofluoromethane      | 4.678          | 113  | 65280    | 20.921 | ug/L    | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery | =      | 104.60% |          |
| 43) 1,2-Dichloroethane-d4     | 5.176          | 65   | 68525    | 20.514 | ug/L    | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery | =      | 102.57% |          |
| 60) Toluene-d8                | 7.106          | 98   | 245839   | 19.848 | ug/L    | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery | =      | 99.24%  |          |
| 83) 4-Bromofluorobenzene      | 10.467         | 95   | 85628    | 20.251 | ug/L    | 0.00     |
| Spiked Amount 20.000          | Range 70 - 130 |      | Recovery | =      | 101.26% |          |
|                               |                |      |          |        |         |          |
| Target Compounds              |                |      |          |        |         | Qvalue   |
| 37) 1,1,1-Trichloroethane     | 4.694          | 97   | 2392     | 0.559  | ug/L #  | 93       |
| 40) 1,1-Dichloropropene       | 4.820          | 75   | 1935     | 0.504  | ug/L    | 88       |
| 41) Benzene                   | 5.056          | 78   | 6487     | 0.537  | ug/L #  | 88       |
| 48) Trichloroethene           | 5.627          | 95   | 1543     | 0.534  | ug/L    | 96       |
| 54) Bromodichloromethane      | 6.220          | 83   | 2070     | 0.480  | ug/L #  | 95       |
| 58) cis-1,3-Dichloropropene   | 6.907          | 75   | 2242     | 0.430  | ug/L #  | 85       |
| 63) Tetrachloroethene         | 7.609          | 166  | 1335     | 0.502  | ug/L    | 93       |
| 69) Chlorodibromomethane      | 8.029          | 129  | 1297     | 0.450  | ug/L    | 92       |
| 73) Chlorobenzene             | 8.930          | 112  | 4161     | 0.537  | ug/L #  | 53       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025          | 131  | 1432     | 0.506  | ug/L #  | 63       |
| 76) p/m Xylene                | 9.177          | 106  | 3958     | 0.778  | ug/L    | 89       |
| 77) o Xylene                  | 9.712          | 106  | 3900     | 0.782  | ug/L    | 99       |
| 78) Styrene                   | 9.790          | 104  | 5824     | 0.671  | ug/L    | 96       |
| 87) 1,1,2,2-Tetrachloroethane | 10.739         | 83   | 1641     | 0.563  | ug/L #  | 86       |
| -----                         |                |      |          |        |         |          |

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

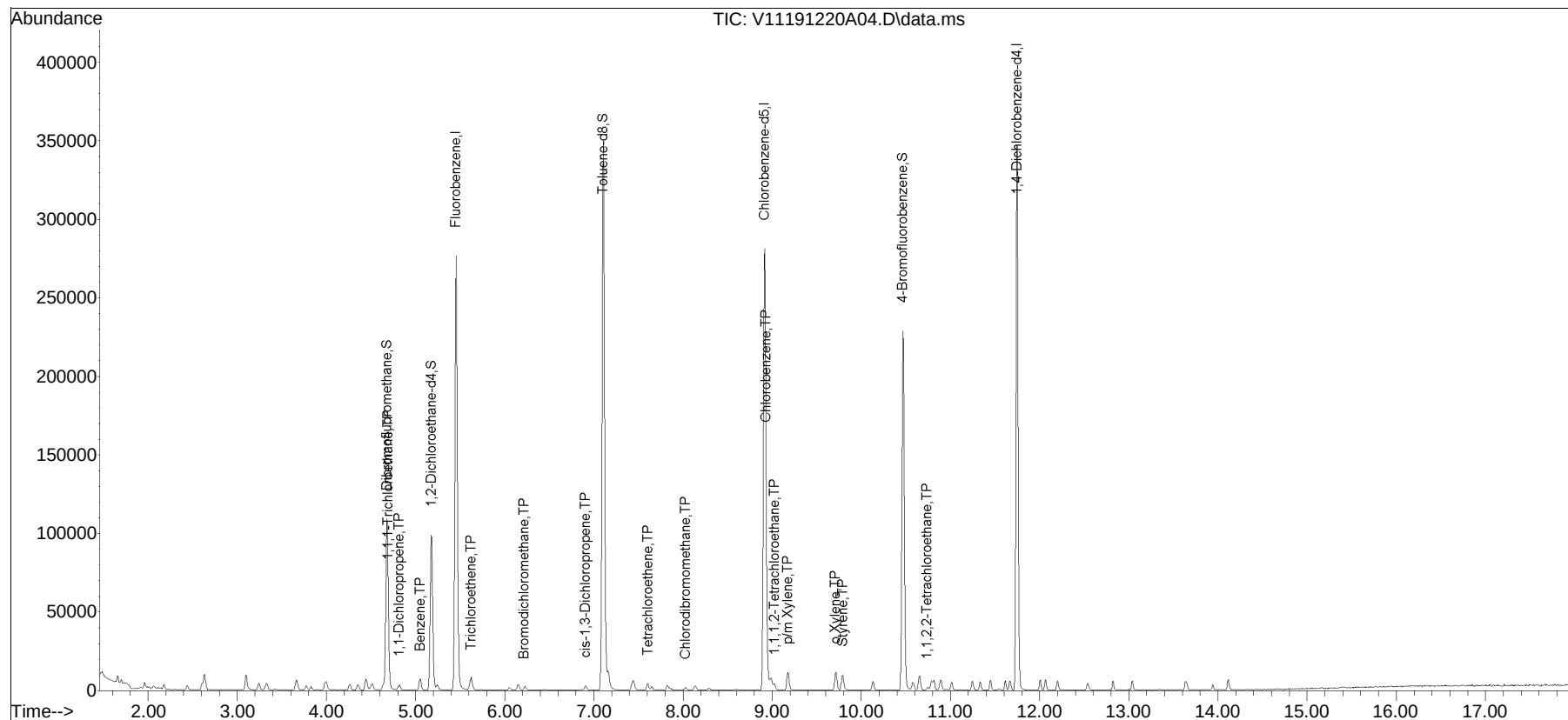


# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A04.D  
 Acq On : 20 Dec 2019 04:12 am  
 Operator : VOA111:JC  
 Sample : I8260STD.5PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 13:35:50 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

Sub List : 8260-L0 - SOILS Level 0.5ppb with Chlorodibromomethane



# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\1Q | Method     | : V111_191220A_8260.m |
| Data File  | : V11191220A04.D              | Operator   | : VOA111:JC           |
| Date Inj'd | : 12/20/2019 4:12 am          | Instrument | : VOA111              |
| Sample     | : I8260STD.5PPB               | Quant Date | : 12/20/2019 1:33 pm  |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A05.D  
 Acq On : 20 Dec 2019 04:37 am  
 Operator : VOA111:JC  
 Sample : I8260STD1PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 14:17:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:16:13 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 238830   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =      | 92.00%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 177262   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =      | 91.68%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 85617    | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =      | 84.18%  |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 65651    | 20.651 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 103.26% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 70691    | 20.809 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 104.05% |          |
| 60) Toluene-d8               | 7.106          | 98   | 248576   | 20.109 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 100.55% |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 87648    | 19.847 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.24%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 2642     | 0.953  | ug/L    | 92       |
| 3) Chloromethane             | 1.658          | 50   | 4059     | 1.056  | ug/L    | 96       |
| 4) Vinyl chloride            | 1.700          | 62   | 3665     | 1.043  | ug/L    | 98       |
| 5) Bromomethane              | 1.962          | 94   | 2806     | 0.500  | ug/L    | 95       |
| 6) Chloroethane              | 2.062          | 64   | 2229     | 1.082  | ug/L    | 88       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 4225     | 1.013  | ug/L    | 98       |
| 8) Ethyl ether               | 2.445          | 74   | 1657     | 0.962  | ug/L    | 84       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 2370     | 0.974  | ug/L    | 87       |
| 11) Carbon disulfide         | 2.628          | 76   | 13514    | 1.352  | ug/L    | 97       |
| 12) Freon-113                | 2.639          | 101  | 2376     | 0.931  | ug/L    | 91       |
| 13) Iodomethane              | 2.733          | 142  | 842      | 1.400  | ug/L #  | 78       |
| 14) Acrolein                 | 2.890          | 56   | 349      | 0.791  | ug/L #  | 66       |
| 15) Methylene chloride       | 3.100          | 84   | 5536     | 1.621  | ug/L    | 76       |
| 17) Acetone                  | 3.137          | 43   | 1058     | 1.366  | ug/L #  | 72       |
| 18) trans-1,2-Dichloroethene | 3.242          | 96   | 2793     | 0.990  | ug/L    | 96       |
| 19) Methyl acetate           | 3.252          | 43   | 2077     | 1.004  | ug/L #  | 87       |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 7079     | 0.907  | ug/L    | 97       |
| 21) tert-Butyl alcohol       | 3.415          | 59   | 1261     | 4.711  | ug/L #  | 77       |
| 22) Diisopropyl ether        | 3.666          | 45   | 9809     | 0.888  | ug/L    | 91       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 5826     | 0.979  | ug/L    | 98       |
| 24) Halothane                | 3.829          | 117  | 2027     | 0.966  | ug/L    | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A05.D  
 Acq On : 20 Dec 2019 04:37 am  
 Operator : VOA111:JC  
 Sample : I8260STD1PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 14:17:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:16:13 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 25) Acrylonitrile             | 3.824 | 53   | 650      | 0.793  | ug/L   | 88       |
| 26) Ethyl tert-butyl ether    | 3.991 | 59   | 7968     | 0.850  | ug/L   | 95       |
| 27) Vinyl acetate             | 4.002 | 43   | 5861     | 0.796  | ug/L   | 99       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 3039     | 0.978  | ug/L   | 92       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 4334     | 0.989  | ug/L   | 92       |
| 30) Bromochloromethane        | 4.442 | 128  | 1339     | 0.968  | ug/L   | 93       |
| 31) Cyclohexane               | 4.442 | 56   | 4027     | 0.831  | ug/L   | 85       |
| 32) Chloroform                | 4.510 | 83   | 5596     | 1.015  | ug/L   | 95       |
| 33) Ethyl acetate             | 4.631 | 43   | 2275     | 0.874  | ug/L # | 92       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 3609     | 0.959  | ug/L   | 97       |
| 35) Tetrahydrofuran           | 4.657 | 42   | 697      | 0.758  | ug/L # | 55       |
| 37) 1,1,1-Trichloroethane     | 4.704 | 97   | 4293     | 0.966  | ug/L   | 99       |
| 39) 2-Butanone                | 4.799 | 43   | 1059     | 0.890  | ug/L # | 69       |
| 40) 1,1-Dichloropropene       | 4.820 | 75   | 3424     | 0.895  | ug/L   | 91       |
| 41) Benzene                   | 5.051 | 78   | 11900    | 0.973  | ug/L   | 90       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 6516     | 0.833  | ug/L   | 94       |
| 44) 1,2-Dichloroethane        | 5.245 | 62   | 4203     | 1.003  | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 3906     | 0.857  | ug/L # | 77       |
| 48) Trichloroethene           | 5.633 | 95   | 2930     | 0.990  | ug/L   | 94       |
| 50) Dibromomethane            | 6.052 | 93   | 1597     | 0.922  | ug/L   | 95       |
| 51) 1,2-Dichloropropane       | 6.152 | 63   | 3211     | 0.952  | ug/L   | 99       |
| 53) 2-Chloroethyl vinyl ether | 6.854 | 63   | 537      | 0.392  | ug/L # | 82       |
| 54) Bromodichloromethane      | 6.230 | 83   | 4096     | 0.947  | ug/L # | 95       |
| 57) 1,4-Dioxane               | 6.450 | 88   | 691      | 30.277 | ug/L # | 69       |
| 58) cis-1,3-Dichloropropene   | 6.907 | 75   | 4232     | 0.863  | ug/L # | 86       |
| 61) Toluene                   | 7.158 | 92   | 6898     | 0.961  | ug/L   | 96       |
| 62) 4-Methyl-2-pentanone      | 7.609 | 58   | 546      | 0.597  | ug/L # | 60       |
| 63) Tetrachloroethene         | 7.604 | 166  | 2568     | 0.957  | ug/L   | 95       |
| 65) trans-1,3-Dichloropropene | 7.651 | 75   | 3399     | 0.793  | ug/L   | 90       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 2144     | 0.650  | ug/L # | 83       |
| 68) 1,1,2-Trichloroethane     | 7.824 | 83   | 2014     | 0.938  | ug/L   | 96       |
| 69) Chlorodibromomethane      | 8.029 | 129  | 2480     | 0.894  | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.139 | 76   | 3959     | 0.897  | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.291 | 107  | 2009     | 0.887  | ug/L   | 97       |
| 72) 2-Hexanone                | 8.616 | 43   | 806      | 0.499  | ug/L # | 71       |
| 73) Chlorobenzene             | 8.936 | 112  | 7647     | 0.982  | ug/L # | 72       |
| 74) Ethylbenzene              | 8.988 | 91   | 11262    | 0.873  | ug/L   | 99       |
| 75) 1,1,1,2-Tetrachloroethane | 9.035 | 131  | 2740     | 0.971  | ug/L   | 95       |
| 76) p/m Xylene                | 9.177 | 106  | 7752     | 1.676  | ug/L   | 93       |
| 77) o Xylene                  | 9.712 | 106  | 7138     | 1.598  | ug/L   | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A05.D  
 Acq On : 20 Dec 2019 04:37 am  
 Operator : VOA111:JC  
 Sample : I8260STD1PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 14:17:59 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:16:13 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|-------|-------|----------|-----|
| 78)  | Styrene                   | 9.790  | 104  | 11619    | 1.554 | ug/L  |          | 95  |
| 80)  | Bromoform                 | 9.801  | 173  | 1434     | 0.902 | ug/L  |          | 91  |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 9084     | 0.831 | ug/L  |          | 97  |
| 84)  | Bromobenzene              | 10.577 | 156  | 2953     | 0.998 | ug/L  |          | 95  |
| 85)  | n-Propylbenzene           | 10.650 | 91   | 12947    | 0.914 | ug/L  |          | 92  |
| 86)  | 1,4-Dichlorobutane        | 10.661 | 55   | 4198     | 0.981 | ug/L  |          | 97  |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.745 | 83   | 3052     | 1.004 | ug/L  |          | 93  |
| 88)  | 4-Ethyltoluene            | 10.786 | 105  | 9216     | 0.817 | ug/L  |          | 97  |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 9465     | 0.928 | ug/L  |          | 93  |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 7787     | 0.822 | ug/L  |          | 95  |
| 91)  | 1,2,3-Trichloropropane    | 10.881 | 75   | 2447     | 1.025 | ug/L  | #        | 82  |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 662      | 0.809 | ug/L  | #        | 87  |
| 93)  | 4-Chlorotoluene           | 11.012 | 91   | 7878     | 0.865 | ug/L  |          | 93  |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 6014     | 0.790 | ug/L  |          | 92  |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 7027     | 0.756 | ug/L  |          | 98  |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 9550     | 0.805 | ug/L  |          | 98  |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 7201     | 0.758 | ug/L  |          | 98  |
| 100) | 1,3-Dichlorobenzene       | 11.667 | 146  | 5666     | 0.985 | ug/L  |          | 95  |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 6026M3   | 1.027 | ug/L  |          |     |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 4413     | 0.763 | ug/L  |          | 95  |
| 103) | n-Butylbenzene            | 12.066 | 91   | 8365     | 0.841 | ug/L  | #        | 90  |
| 104) | 1,2-Dichlorobenzene       | 12.202 | 146  | 5129     | 0.974 | ug/L  |          | 96  |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 6071     | 0.698 | ug/L  |          | 98  |
| 106) | 1,2-Dibromo-3-chloropr... | 13.004 | 155  | 108      | 0.286 | ug/L  | #        | 1   |
| 107) | 1,3,5-Trichlorobenzene    | 13.041 | 180  | 3701     | 0.929 | ug/L  |          | 95  |
| 108) | Hexachlorobutadiene       | 13.633 | 225  | 1987     | 1.043 | ug/L  |          | 94  |
| 109) | 1,2,4-Trichlorobenzene    | 13.649 | 180  | 2909     | 0.864 | ug/L  |          | 95  |
| 110) | Naphthalene               | 13.943 | 128  | 5111     | 0.773 | ug/L  |          | 100 |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 2850     | 0.927 | ug/L  |          | 97  |

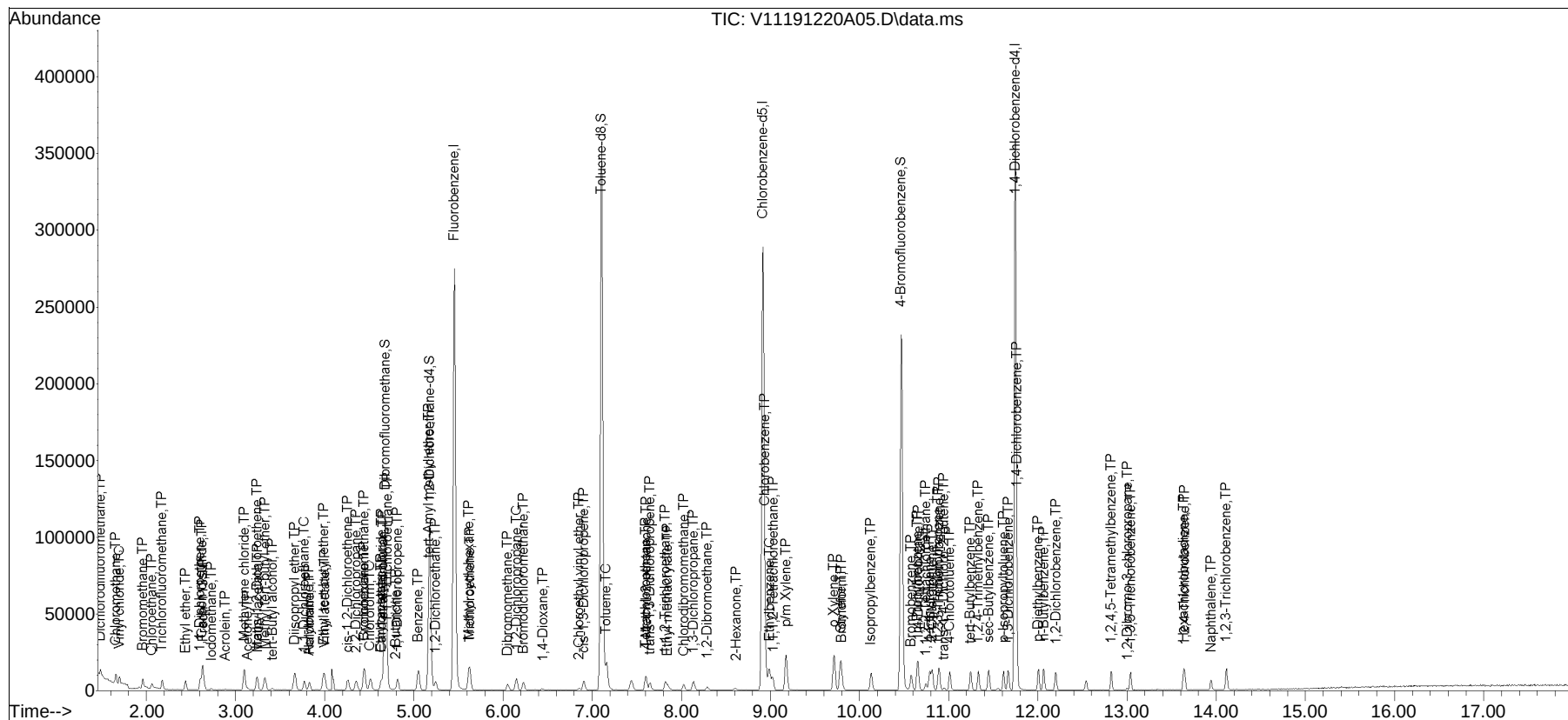
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\VOLATILES\VOA111\2019\191220\  
Data File  : V11191220A05.D  
Acq On     : 20 Dec 2019   04:37 am  
Operator   : VOA111:JC  
Sample     : I8260STD1PPB  
Misc       : WG1323373,ICAL  
ALS Vial   : 4      Sample Multiplier: 1
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Quant Time: Dec 20 14:17:59 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:16:13 2019  
Response via : Initial Calibration

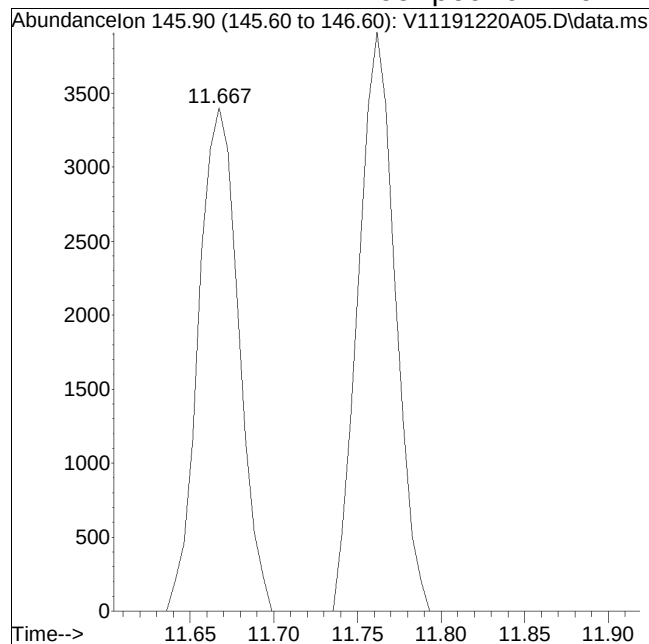
Sub List : 8260-Curve - Megamix plus Diox91220\V1191220A09.D•



# Manual Integration Report

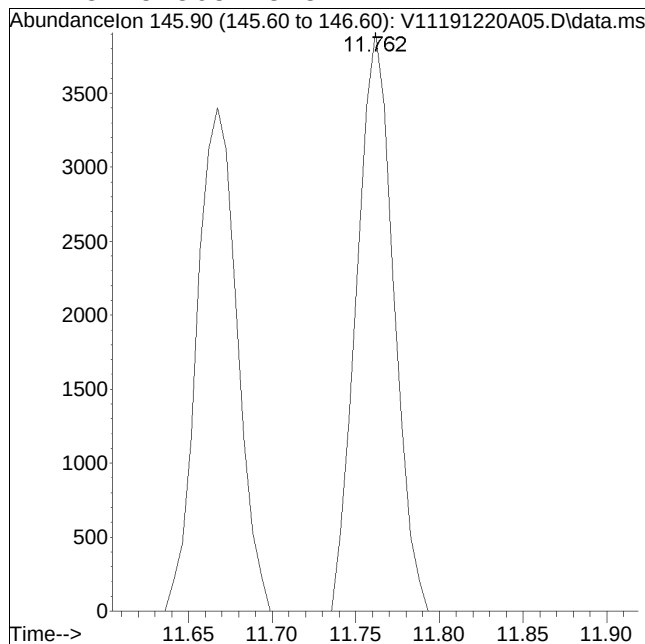
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A05.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 4:37 am Instrument : VOA111  
Sample : I8260STD1PPB Quant Date : 12/20/2019 2:17 pm

## Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 5666

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 6026 M3

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A06.D  
 Acq On : 20 Dec 2019 05:02 am  
 Operator : VOA111:JC  
 Sample : I8260STD2PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 14:19:45 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 242974   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =      | 93.60%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 179036   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =      | 92.60%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 87836    | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =      | 86.36%  |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 65329    | 20.199 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 101.00% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 70042    | 20.266 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 101.33% |          |
| 60) Toluene-d8               | 7.106          | 98   | 248982   | 19.943 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.72%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 89968    | 19.858 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.29%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 5995     | 2.125  | ug/L    | 96       |
| 3) Chloromethane             | 1.653          | 50   | 8734     | 2.233  | ug/L    | 98       |
| 4) Vinyl chloride            | 1.695          | 62   | 7927     | 2.217  | ug/L    | 97       |
| 5) Bromomethane              | 1.962          | 94   | 6044     | 1.542  | ug/L    | 99       |
| 6) Chloroethane              | 2.062          | 64   | 4952     | 2.363  | ug/L    | 100      |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 9253     | 2.181  | ug/L    | 97       |
| 8) Ethyl ether               | 2.440          | 74   | 3639     | 2.077  | ug/L    | 80       |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 5298     | 2.141  | ug/L    | 90       |
| 11) Carbon disulfide         | 2.634          | 76   | 24485    | 2.409  | ug/L    | 97       |
| 12) Freon-113                | 2.644          | 101  | 5408     | 2.084  | ug/L    | 98       |
| 13) Iodomethane              | 2.728          | 142  | 2419     | 2.416  | ug/L    | # 94     |
| 14) Acrolein                 | 2.890          | 56   | 755      | 1.682  | ug/L    | 97       |
| 15) Methylene chloride       | 3.100          | 84   | 9150     | 2.634  | ug/L    | 76       |
| 17) Acetone                  | 3.142          | 43   | 1792     | 2.273  | ug/L    | 92       |
| 18) trans-1,2-Dichloroethene | 3.237          | 96   | 6128     | 2.136  | ug/L    | 91       |
| 19) Methyl acetate           | 3.247          | 43   | 4446     | 2.113  | ug/L    | # 93     |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 15024    | 1.892  | ug/L    | 94       |
| 21) tert-Butyl alcohol       | 3.415          | 59   | 2459     | 9.030  | ug/L    | 92       |
| 22) Diisopropyl ether        | 3.666          | 45   | 21514    | 1.915  | ug/L    | 89       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 13022    | 2.150  | ug/L    | 100      |
| 24) Halothane                | 3.824          | 117  | 4623     | 2.166  | ug/L    | 99       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A06.D  
 Acq On : 20 Dec 2019 05:02 am  
 Operator : VOA111:JC  
 Sample : I8260STD2PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 14:19:45 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 25) Acrylonitrile             | 3.818 | 53   | 1493     | 1.790  | ug/L   | 97       |
| 26) Ethyl tert-butyl ether    | 3.992 | 59   | 17687    | 1.854  | ug/L   | 98       |
| 27) Vinyl acetate             | 4.002 | 43   | 13635M1  | 1.821  | ug/L   |          |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 6326     | 2.002  | ug/L   | 92       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 9160     | 2.054  | ug/L   | 94       |
| 30) Bromochloromethane        | 4.442 | 128  | 3002     | 2.133  | ug/L   | 86       |
| 31) Cyclohexane               | 4.442 | 56   | 9144     | 1.854  | ug/L   | 79       |
| 32) Chloroform                | 4.511 | 83   | 12119    | 2.160  | ug/L   | 97       |
| 33) Ethyl acetate             | 4.631 | 43   | 5132     | 1.937  | ug/L   | 95       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 7697     | 2.010  | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.663 | 42   | 1750     | 1.871  | ug/L   | 98       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 9174     | 2.029  | ug/L   | 98       |
| 39) 2-Butanone                | 4.799 | 43   | 2415     | 1.994  | ug/L   | 97       |
| 40) 1,1-Dichloropropene       | 4.820 | 75   | 7388     | 1.898  | ug/L   | 96       |
| 41) Benzene                   | 5.051 | 78   | 25850    | 2.077  | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 14182    | 1.782  | ug/L   | 96       |
| 44) 1,2-Dichloroethane        | 5.245 | 62   | 9321     | 2.186  | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 9094     | 1.962  | ug/L   | 80       |
| 48) Trichloroethene           | 5.633 | 95   | 6330     | 2.101  | ug/L   | 91       |
| 50) Dibromomethane            | 6.052 | 93   | 3546     | 2.012  | ug/L   | 96       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 6942     | 2.023  | ug/L   | 96       |
| 53) 2-Chloroethyl vinyl ether | 6.849 | 63   | 1730     | 1.243  | ug/L # | 78       |
| 54) Bromodichloromethane      | 6.230 | 83   | 9089     | 2.066  | ug/L # | 97       |
| 57) 1,4-Dioxane               | 6.445 | 88   | 1262     | 54.353 | ug/L # | 87       |
| 58) cis-1,3-Dichloropropene   | 6.907 | 75   | 9251     | 1.855  | ug/L # | 89       |
| 61) Toluene                   | 7.164 | 92   | 15342    | 2.117  | ug/L   | 97       |
| 62) 4-Methyl-2-pentanone      | 7.599 | 58   | 1360     | 1.473  | ug/L   | 78       |
| 63) Tetrachloroethene         | 7.604 | 166  | 5491     | 2.025  | ug/L   | 95       |
| 65) trans-1,3-Dichloropropene | 7.651 | 75   | 8134     | 1.878  | ug/L   | 88       |
| 67) Ethyl methacrylate        | 7.850 | 69   | 4701     | 1.411  | ug/L   | 84       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 4436     | 2.045  | ug/L   | 99       |
| 69) Chlorodibromomethane      | 8.029 | 129  | 5606     | 2.000  | ug/L   | 97       |
| 70) 1,3-Dichloropropane       | 8.134 | 76   | 9103     | 2.042  | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.291 | 107  | 4385     | 1.918  | ug/L   | 99       |
| 72) 2-Hexanone                | 8.605 | 43   | 2242     | 1.374  | ug/L # | 90       |
| 73) Chlorobenzene             | 8.936 | 112  | 15975    | 2.032  | ug/L # | 81       |
| 74) Ethylbenzene              | 8.983 | 91   | 25286    | 1.940  | ug/L   | 95       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 5646     | 1.980  | ug/L   | 95       |
| 76) p/m Xylene                | 9.177 | 106  | 17506    | 3.747  | ug/L   | 93       |
| 77) o Xylene                  | 9.717 | 106  | 16626    | 3.685  | ug/L   | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A06.D  
 Acq On : 20 Dec 2019 05:02 am  
 Operator : VOA111:JC  
 Sample : I8260STD2PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 14:19:45 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 78)  | Styrene                   | 9.785  | 104  | 27226    | 3.605 | ug/L  | 99       |
| 80)  | Bromoform                 | 9.801  | 173  | 3118     | 1.911 | ug/L  | 95       |
| 82)  | Isopropylbenzene          | 10.131 | 105  | 20376    | 1.816 | ug/L  | 97       |
| 84)  | Bromobenzene              | 10.582 | 156  | 6389     | 2.104 | ug/L  | 99       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 28457    | 1.958 | ug/L  | 95       |
| 86)  | 1,4-Dichlorobutane        | 10.656 | 55   | 8984     | 2.046 | ug/L  | 99       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 6490     | 2.082 | ug/L  | 97       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 21214    | 1.832 | ug/L  | 97       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 21376    | 2.042 | ug/L  | 95       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 18030    | 1.855 | ug/L  | 97       |
| 91)  | 1,2,3-Trichloropropane    | 10.881 | 75   | 5220     | 2.132 | ug/L  | 90       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 1508     | 1.796 | ug/L  | 85       |
| 93)  | 4-Chlorotoluene           | 11.012 | 91   | 18568    | 1.987 | ug/L  | 90       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 14628    | 1.874 | ug/L  | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 16371    | 1.716 | ug/L  | 97       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 22188    | 1.824 | ug/L  | 95       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 16830    | 1.727 | ug/L  | 94       |
| 100) | 1,3-Dichlorobenzene       | 11.667 | 146  | 12450    | 2.109 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 12984M3  | 2.158 | ug/L  |          |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 10476    | 1.765 | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 18954    | 1.857 | ug/L  | 96       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 11082    | 2.051 | ug/L  | 98       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 13926    | 1.562 | ug/L  | 96       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 632      | 1.631 | ug/L  | 97       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 7988     | 1.955 | ug/L  | 97       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 3959     | 2.025 | ug/L  | 97       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 6182     | 1.789 | ug/L  | 96       |
| 110) | Naphthalene               | 13.938 | 128  | 11032    | 1.626 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 5929     | 1.880 | ug/L  | 98       |

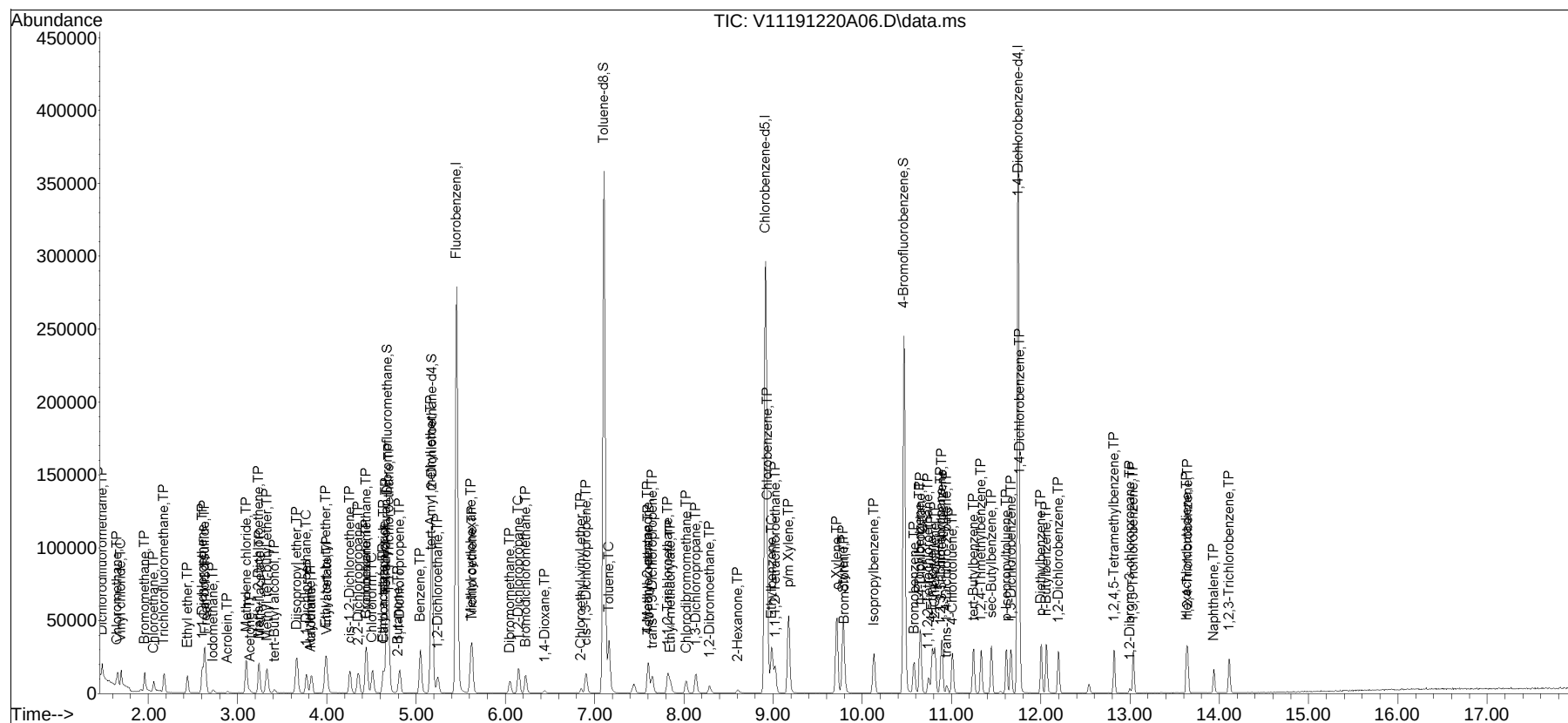
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
Data File : V11191220A06.D  
Acq On : 20 Dec 2019 05:02 am  
Operator : VOA111:JC  
Sample : I8260STD2PPB  
Misc : WG1323373,ICAL  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 14:19:45 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:19:02 2019  
Response via : Initial Calibration

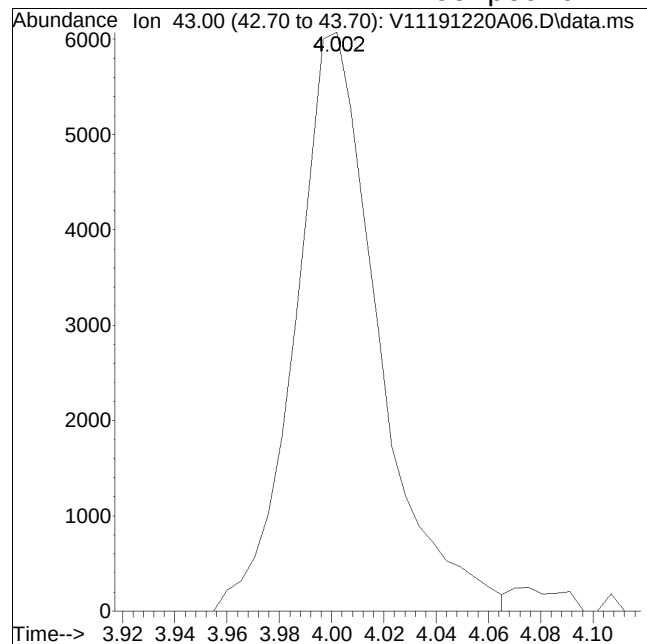
Sub List : 8260-Curve - Megamix plus Diox91220\V1191220A09.D•



# Manual Integration Report

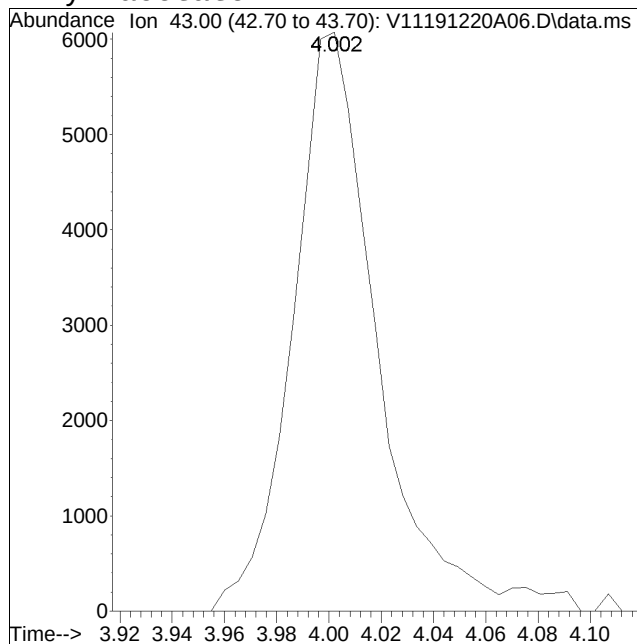
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A06.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 5:02 am Instrument : VOA111  
Sample : I8260STD2PPB Quant Date : 12/20/2019 2:19 pm

## Compound #27: Vinyl acetate



Original Peak Response = 13300

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

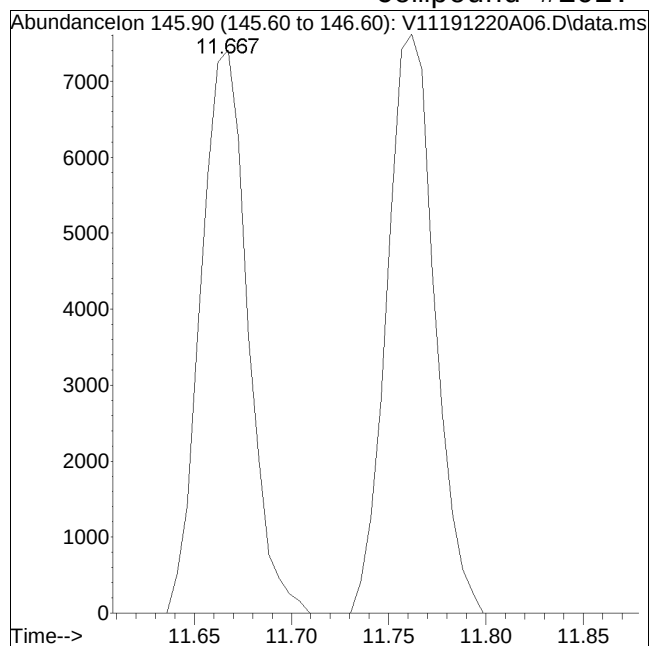


Manual Peak Response = 13635 M1

# Manual Integration Report

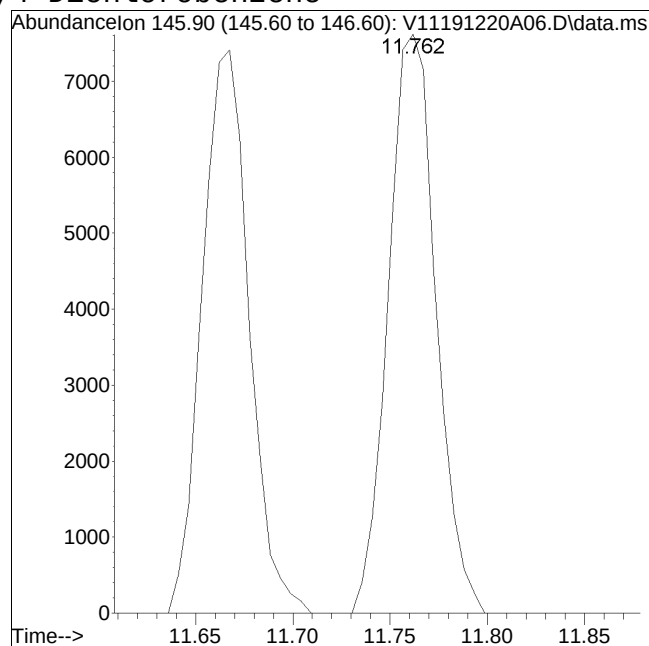
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A06.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 5:02 am Instrument : VOA111  
Sample : I8260STD2PPB Quant Date : 12/20/2019 2:19 pm

## Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 12450

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



Manual Peak Response = 12984 M3

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A07.D  
 Acq On : 20 Dec 2019 05:27 am  
 Operator : VOA111:JC  
 Sample : I8260STD4PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 14:02:58 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 245702   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =      | 94.65%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 180497   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =      | 93.36%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 91480    | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =      | 89.94%  |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 66031    | 20.433 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 102.16% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 70885    | 20.489 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 102.45% |          |
| 60) Toluene-d8               | 7.106          | 98   | 252259   | 19.904 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.52%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 92427    | 19.654 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 98.27%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 12252M1  | 4.446  | ug/L    |          |
| 3) Chloromethane             | 1.653          | 50   | 17207    | 4.574  | ug/L    | 99       |
| 4) Vinyl chloride            | 1.700          | 62   | 16377    | 4.664  | ug/L    | 99       |
| 5) Bromomethane              | 1.957          | 94   | 11758    | 5.597  | ug/L    | 99       |
| 6) Chloroethane              | 2.062          | 64   | 10017    | 4.906  | ug/L    | 98       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 19063    | 4.625  | ug/L    | 97       |
| 8) Ethyl ether               | 2.439          | 74   | 7550     | 4.225  | ug/L    | 77       |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 10703    | 4.435  | ug/L    | 94       |
| 11) Carbon disulfide         | 2.633          | 76   | 44415    | 4.929  | ug/L    | 99       |
| 12) Freon-113                | 2.639          | 101  | 11653    | 4.476  | ug/L    | 95       |
| 13) Iodomethane              | 2.723          | 142  | 6599     | 2.273  | ug/L    | 98       |
| 14) Acrolein                 | 2.890          | 56   | 1779     | 3.622  | ug/L    | 95       |
| 15) Methylene chloride       | 3.100          | 84   | 16734    | 5.176  | ug/L    | 75       |
| 17) Acetone                  | 3.137          | 43   | 3312     | 4.351  | ug/L    | 99       |
| 18) trans-1,2-Dichloroethene | 3.242          | 96   | 12372    | 4.286  | ug/L    | 94       |
| 19) Methyl acetate           | 3.247          | 43   | 8896     | 4.076  | ug/L #  | 93       |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 32419    | 3.881  | ug/L    | 94       |
| 21) tert-Butyl alcohol       | 3.415          | 59   | 5533     | 18.740 | ug/L    | 90       |
| 22) Diisopropyl ether        | 3.666          | 45   | 45985    | 3.838  | ug/L    | 90       |
| 23) 1,1-Dichloroethane       | 3.776          | 63   | 27113    | 4.434  | ug/L    | 99       |
| 24) Halothane                | 3.829          | 117  | 9465     | 4.469  | ug/L    | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A07.D  
 Acq On : 20 Dec 2019 05:27 am  
 Operator : VOA111:JC  
 Sample : I8260STD4PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 14:02:58 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 25) Acrylonitrile             | 3.813 | 53   | 3572     | 3.935   | ug/L   | 99       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 38385    | 3.754   | ug/L   | 95       |
| 27) Vinyl acetate             | 3.997 | 43   | 30273    | 3.616   | ug/L   | 97       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 13414    | 4.146   | ug/L   | 94       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 19634    | 4.418   | ug/L   | 96       |
| 30) Bromochloromethane        | 4.442 | 128  | 6275     | 4.322   | ug/L   | 87       |
| 31) Cyclohexane               | 4.442 | 56   | 20059    | 3.838   | ug/L   | 82       |
| 32) Chloroform                | 4.516 | 83   | 24983    | 4.465   | ug/L   | 97       |
| 33) Ethyl acetate             | 4.626 | 43   | 10882    | 3.762   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 16809    | 4.388   | ug/L   | 97       |
| 35) Tetrahydrofuran           | 4.657 | 42   | 3846     | 3.620   | ug/L # | 86       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 19933    | 4.496   | ug/L   | 98       |
| 39) 2-Butanone                | 4.799 | 43   | 5719     | 4.555   | ug/L   | 93       |
| 40) 1,1-Dichloropropene       | 4.820 | 75   | 16458    | 4.141   | ug/L   | 94       |
| 41) Benzene                   | 5.051 | 78   | 54035    | 4.318   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 31224    | 3.629   | ug/L   | 96       |
| 44) 1,2-Dichloroethane        | 5.245 | 62   | 18845    | 4.353   | ug/L   | 99       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 18584    | 3.862   | ug/L   | 82       |
| 48) Trichloroethene           | 5.632 | 95   | 12919    | 4.320   | ug/L   | 94       |
| 50) Dibromomethane            | 6.052 | 93   | 7855     | 4.308   | ug/L   | 93       |
| 51) 1,2-Dichloropropane       | 6.152 | 63   | 14913    | 4.237   | ug/L   | 96       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 4302     | 3.013   | ug/L # | 84       |
| 54) Bromodichloromethane      | 6.230 | 83   | 19361    | 4.335   | ug/L # | 97       |
| 57) 1,4-Dioxane               | 6.440 | 88   | 4591     | 186.135 | ug/L # | 78       |
| 58) cis-1,3-Dichloropropene   | 6.907 | 75   | 20200    | 3.743   | ug/L   | 89       |
| 61) Toluene                   | 7.163 | 92   | 31916    | 4.346   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 7.599 | 58   | 3335     | 3.296   | ug/L # | 92       |
| 63) Tetrachloroethene         | 7.599 | 166  | 11778    | 4.327   | ug/L   | 95       |
| 65) trans-1,3-Dichloropropene | 7.646 | 75   | 17905    | 3.821   | ug/L   | 91       |
| 67) Ethyl methacrylate        | 7.850 | 69   | 11504    | 3.138   | ug/L   | 92       |
| 68) 1,1,2-Trichloroethane     | 7.824 | 83   | 9626     | 4.191   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 11955    | 4.056   | ug/L   | 99       |
| 70) 1,3-Dichloropropane       | 8.133 | 76   | 19468    | 4.155   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 8.291 | 107  | 10039    | 4.139   | ug/L   | 98       |
| 72) 2-Hexanone                | 8.605 | 43   | 5680     | 3.091   | ug/L   | 96       |
| 73) Chlorobenzene             | 8.936 | 112  | 34288    | 4.326   | ug/L   | 90       |
| 74) Ethylbenzene              | 8.988 | 91   | 53681    | 3.868   | ug/L   | 96       |
| 75) 1,1,1,2-Tetrachloroethane | 9.020 | 131  | 12704    | 4.387   | ug/L   | 98       |
| 76) p/m Xylene                | 9.172 | 106  | 38786    | 7.448   | ug/L   | 94       |
| 77) o Xylene                  | 9.712 | 106  | 37555    | 7.360   | ug/L   | 97       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A07.D  
 Acq On : 20 Dec 2019 05:27 am  
 Operator : VOA111:JC  
 Sample : I8260STD4PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 14:02:58 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 78)  | Styrene                   | 9.785  | 104  | 64441    | 7.254 | ug/L  | 97       |
| 80)  | Bromoform                 | 9.796  | 173  | 7280     | 4.094 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.131 | 105  | 46417    | 3.734 | ug/L  | 98       |
| 84)  | Bromobenzene              | 10.577 | 156  | 13526    | 4.290 | ug/L  | 99       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 62671    | 3.971 | ug/L  | 96       |
| 86)  | 1,4-Dichlorobutane        | 10.655 | 55   | 19572    | 4.095 | ug/L  | 98       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.745 | 83   | 14105    | 4.351 | ug/L  | 98       |
| 88)  | 4-Ethyltoluene            | 10.786 | 105  | 48529    | 3.783 | ug/L  | 97       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 46702    | 4.209 | ug/L  | 95       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 41257    | 3.859 | ug/L  | 96       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 11335    | 4.389 | ug/L  | 92       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 3627     | 3.815 | ug/L  | 92       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 40945    | 4.073 | ug/L  | 95       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 32065    | 3.709 | ug/L  | 94       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 39979    | 3.685 | ug/L  | 95       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 52505    | 3.856 | ug/L  | 96       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 39124    | 3.525 | ug/L  | 97       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 26778    | 4.348 | ug/L  | 97       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 26644    | 4.281 | ug/L  | 94       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 23054    | 3.428 | ug/L  | 95       |
| 103) | n-Butylbenzene            | 12.066 | 91   | 43723    | 3.847 | ug/L  | 96       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 24009    | 4.231 | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 32460    | 3.087 | ug/L  | 97       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 1526     | 3.621 | ug/L  | 99       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 17698    | 4.102 | ug/L  | 96       |
| 108) | Hexachlorobutadiene       | 13.633 | 225  | 8552     | 4.396 | ug/L  | 100      |
| 109) | 1,2,4-Trichlorobenzene    | 13.649 | 180  | 14058    | 3.768 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 25064    | 3.208 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 13156    | 3.885 | ug/L  | 98       |

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

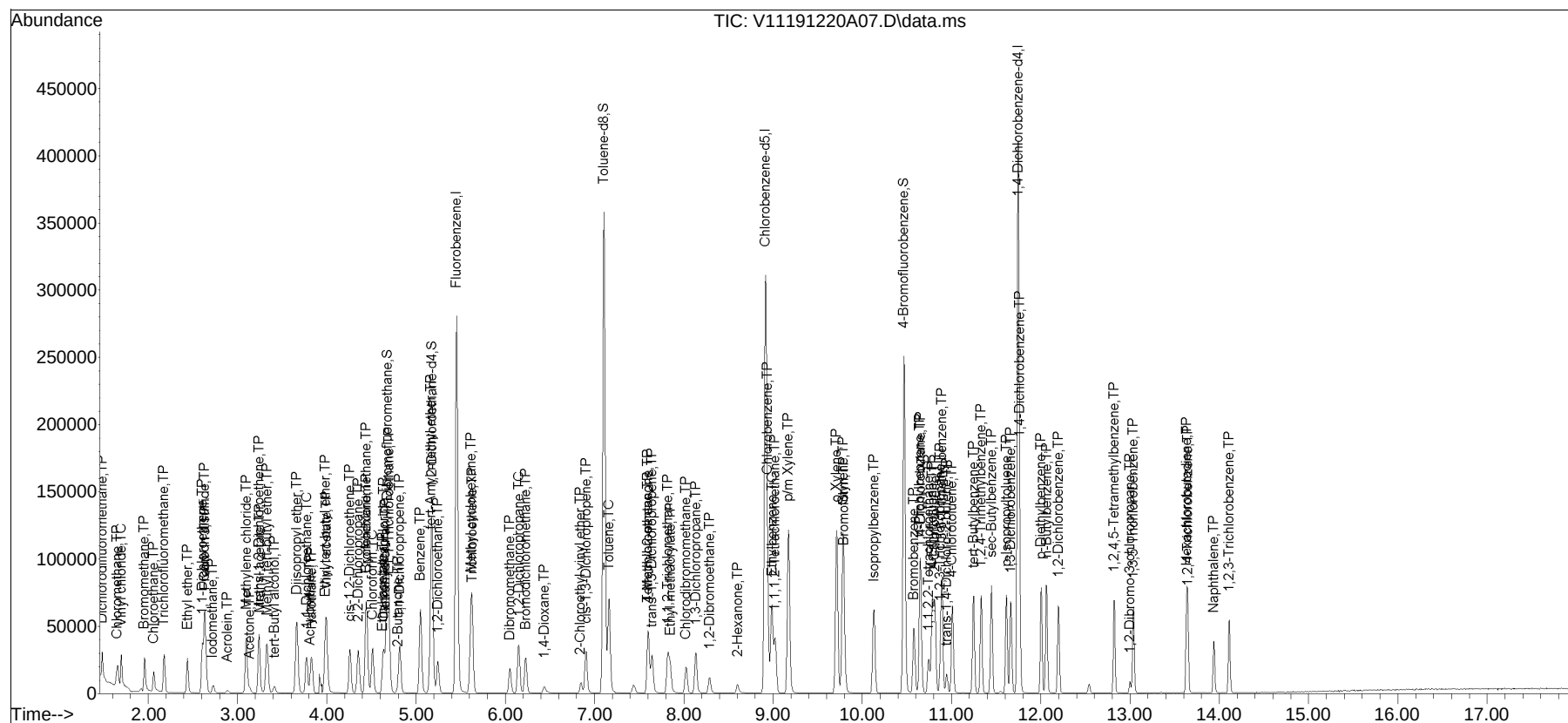


Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
Data File : V11191220A07.D  
Acq On : 20 Dec 2019 05:27 am  
Operator : VOA111:JC  
Sample : I8260STD4PPB  
Misc : WG1323373,ICAL  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 14:02:58 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 13:33:04 2019  
Response via : Initial Calibration

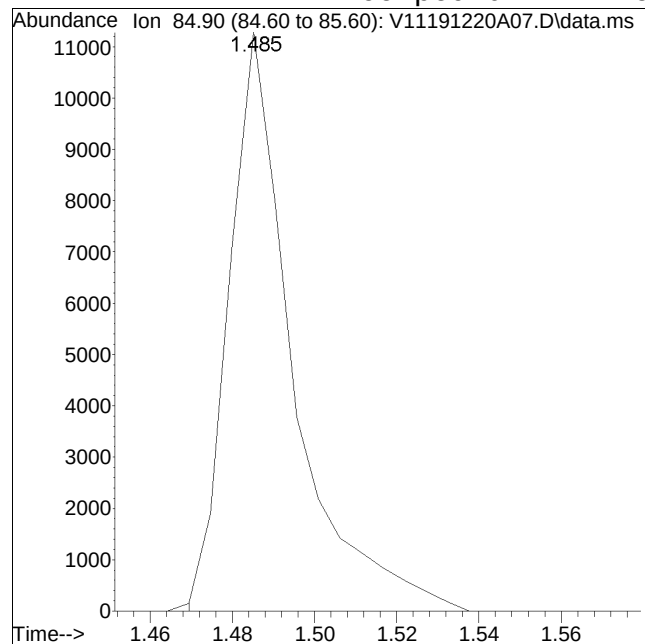
Sub List : 8260-Curve - Megamix plus Diox91220\V1191220A09.D•



# Manual Integration Report

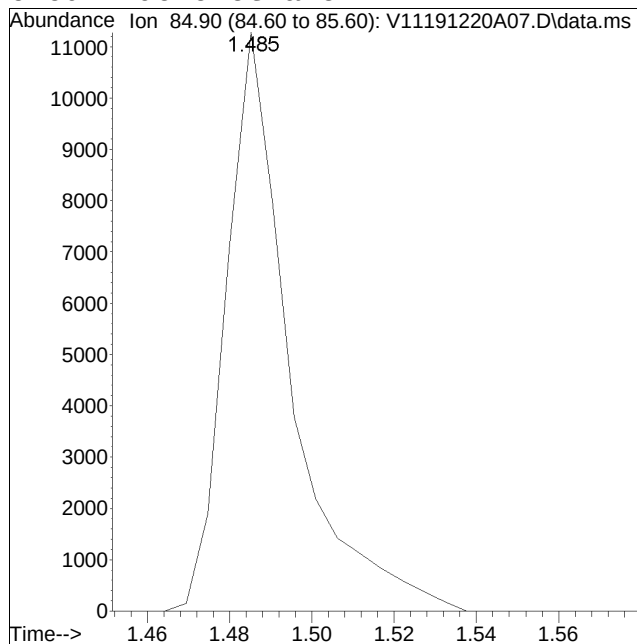
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A07.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 5:27 am Instrument : VOA111  
Sample : I8260STD4PPB Quant Date : 12/20/2019 1:33 pm

## Compound #2: Dichlorodifluoromethane



Original Peak Response = 12203

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



Manual Peak Response = 12252 M1

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A08.D  
 Acq On : 20 Dec 2019 05:52 am  
 Operator : VOA111:JC  
 Sample : I8260STD20PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 14:04:42 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 247486   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =      | 95.33%  |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 183720   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =      | 95.02%  |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 96135    | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =      | 94.52%  |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 65077    | 19.993 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.96%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.177          | 65   | 69683    | 19.996 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.98%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 261077   | 20.238 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 101.19% |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 96053    | 19.436 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 97.18%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 54303M1  | 19.562 | ug/L    |          |
| 3) Chloromethane             | 1.653          | 50   | 73865    | 19.493 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.695          | 62   | 69155    | 19.551 | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 43841    | 20.719 | ug/L    | 100      |
| 6) Chloroethane              | 2.062          | 64   | 41034    | 19.954 | ug/L    | 95       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 81403    | 19.606 | ug/L    | 99       |
| 8) Ethyl ether               | 2.440          | 74   | 33248    | 18.469 | ug/L    | 77       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 47687    | 19.617 | ug/L    | 89       |
| 11) Carbon disulfide         | 2.628          | 76   | 178885   | 19.709 | ug/L    | 99       |
| 12) Freon-113                | 2.639          | 101  | 50178    | 19.136 | ug/L    | 95       |
| 13) Iodomethane              | 2.728          | 142  | 48194    | 16.479 | ug/L    | 99       |
| 14) Acrolein                 | 2.885          | 56   | 8775     | 17.735 | ug/L    | 99       |
| 15) Methylene chloride       | 3.100          | 84   | 63851    | 19.607 | ug/L    | 76       |
| 17) Acetone                  | 3.137          | 43   | 14091    | 18.376 | ug/L    | 96       |
| 18) trans-1,2-Dichloroethene | 3.237          | 96   | 54991    | 18.914 | ug/L    | 94       |
| 19) Methyl acetate           | 3.247          | 43   | 39620    | 18.022 | ug/L    | # 91     |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 151221   | 17.973 | ug/L    | 91       |
| 21) tert-Butyl alcohol       | 3.410          | 59   | 25758    | 86.611 | ug/L    | 95       |
| 22) Diisopropyl ether        | 3.661          | 45   | 219492   | 18.187 | ug/L    | 94       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 117334   | 19.048 | ug/L    | 98       |
| 24) Halothane                | 3.829          | 117  | 40827    | 19.139 | ug/L    | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A08.D  
 Acq On : 20 Dec 2019 05:52 am  
 Operator : VOA111:JC  
 Sample : I8260STD20PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 14:04:42 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 25) Acrylonitrile             | 3.813 | 53   | 16340    | 17.872   | ug/L   | 96       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 186626   | 18.121   | ug/L   | 94       |
| 27) Vinyl acetate             | 3.997 | 43   | 150487   | 17.845   | ug/L # | 94       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 61854    | 18.981   | ug/L   | 91       |
| 29) 2,2-Dichloropropane       | 4.348 | 77   | 85570    | 19.117   | ug/L   | 94       |
| 30) Bromochloromethane        | 4.437 | 128  | 27851    | 19.044   | ug/L   | 83       |
| 31) Cyclohexane               | 4.442 | 56   | 97726    | 18.564   | ug/L   | 82       |
| 32) Chloroform                | 4.511 | 83   | 108021   | 19.166   | ug/L   | 97       |
| 33) Ethyl acetate             | 4.621 | 43   | 51851    | 17.795   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 74193    | 19.227   | ug/L   | 96       |
| 35) Tetrahydrofuran           | 4.657 | 42   | 18892    | 17.653   | ug/L # | 85       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 86635    | 19.400   | ug/L   | 100      |
| 39) 2-Butanone                | 4.794 | 43   | 22649    | 17.911   | ug/L # | 78       |
| 40) 1,1-Dichloropropene       | 4.815 | 75   | 76506    | 19.111   | ug/L   | 95       |
| 41) Benzene                   | 5.051 | 78   | 240469   | 19.079   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 156255   | 18.027   | ug/L   | 95       |
| 44) 1,2-Dichloroethane        | 5.245 | 62   | 82515    | 18.921   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 89629    | 18.494   | ug/L   | 80       |
| 48) Trichloroethene           | 5.627 | 95   | 58367    | 19.377   | ug/L   | 94       |
| 50) Dibromomethane            | 6.052 | 93   | 34595    | 18.837   | ug/L   | 95       |
| 51) 1,2-Dichloropropane       | 6.152 | 63   | 66265    | 18.691   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 23407M1  | 16.275   | ug/L   |          |
| 54) Bromodichloromethane      | 6.225 | 83   | 85813    | 19.074   | ug/L   | 98       |
| 57) 1,4-Dioxane               | 6.435 | 88   | 28249    | 1137.058 | ug/L # | 84       |
| 58) cis-1,3-Dichloropropene   | 6.902 | 75   | 98961    | 18.204   | ug/L   | 90       |
| 61) Toluene                   | 7.164 | 92   | 142863   | 19.114   | ug/L   | 96       |
| 62) 4-Methyl-2-pentanone      | 7.599 | 58   | 17654    | 17.144   | ug/L # | 90       |
| 63) Tetrachloroethene         | 7.604 | 166  | 54492    | 19.668   | ug/L   | 97       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 85409    | 17.907   | ug/L   | 85       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 62789    | 16.826   | ug/L   | 96       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 43341    | 18.541   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.024 | 129  | 55450    | 18.484   | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.134 | 76   | 88766    | 18.611   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.286 | 107  | 45879    | 18.586   | ug/L   | 98       |
| 72) 2-Hexanone                | 8.595 | 43   | 31471M1  | 16.827   | ug/L   |          |
| 73) Chlorobenzene             | 8.936 | 112  | 152122   | 18.855   | ug/L   | 94       |
| 74) Ethylbenzene              | 8.983 | 91   | 262514   | 18.585   | ug/L   | 99       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 55751    | 18.913   | ug/L   | 98       |
| 76) p/m Xylene                | 9.172 | 106  | 198620   | 37.471   | ug/L   | 93       |
| 77) o Xylene                  | 9.712 | 106  | 191850   | 36.937   | ug/L   | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A08.D  
 Acq On : 20 Dec 2019 05:52 am  
 Operator : VOA111:JC  
 Sample : I8260STD20PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 14:04:42 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 78)  | Styrene                   | 9.780  | 104  | 335266   | 37.079 | ug/L  | 96       |
| 80)  | Bromoform                 | 9.796  | 173  | 34609    | 18.520 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.131 | 105  | 239343   | 18.319 | ug/L  | 98       |
| 84)  | Bromobenzene              | 10.577 | 156  | 61815    | 18.655 | ug/L  | 100      |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 310837   | 18.740 | ug/L  | 96       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 93663    | 18.650 | ug/L  | 99       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 64241    | 18.858 | ug/L  | 97       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 251629   | 18.667 | ug/L  | 98       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 222114   | 19.048 | ug/L  | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.892 | 105  | 213032   | 18.963 | ug/L  | 95       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 50106    | 18.461 | ug/L  | 94       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 18674    | 18.688 | ug/L  | 95       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 199597   | 18.895 | ug/L  | 94       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 166017   | 18.272 | ug/L  | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 213251   | 18.707 | ug/L  | 97       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 269107   | 18.806 | ug/L  | 96       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 214214   | 18.363 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 124089   | 19.172 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 126408   | 19.327 | ug/L  | 99       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 128430   | 18.172 | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 227678   | 19.064 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 112848   | 18.925 | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 187987   | 17.012 | ug/L  | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 7739     | 17.473 | ug/L  | 97       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 84770    | 18.695 | ug/L  | 98       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 38280    | 18.725 | ug/L  | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 70342    | 17.939 | ug/L  | 98       |
| 110) | Naphthalene               | 13.938 | 128  | 135453   | 16.498 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 62473    | 17.557 | ug/L  | 98       |

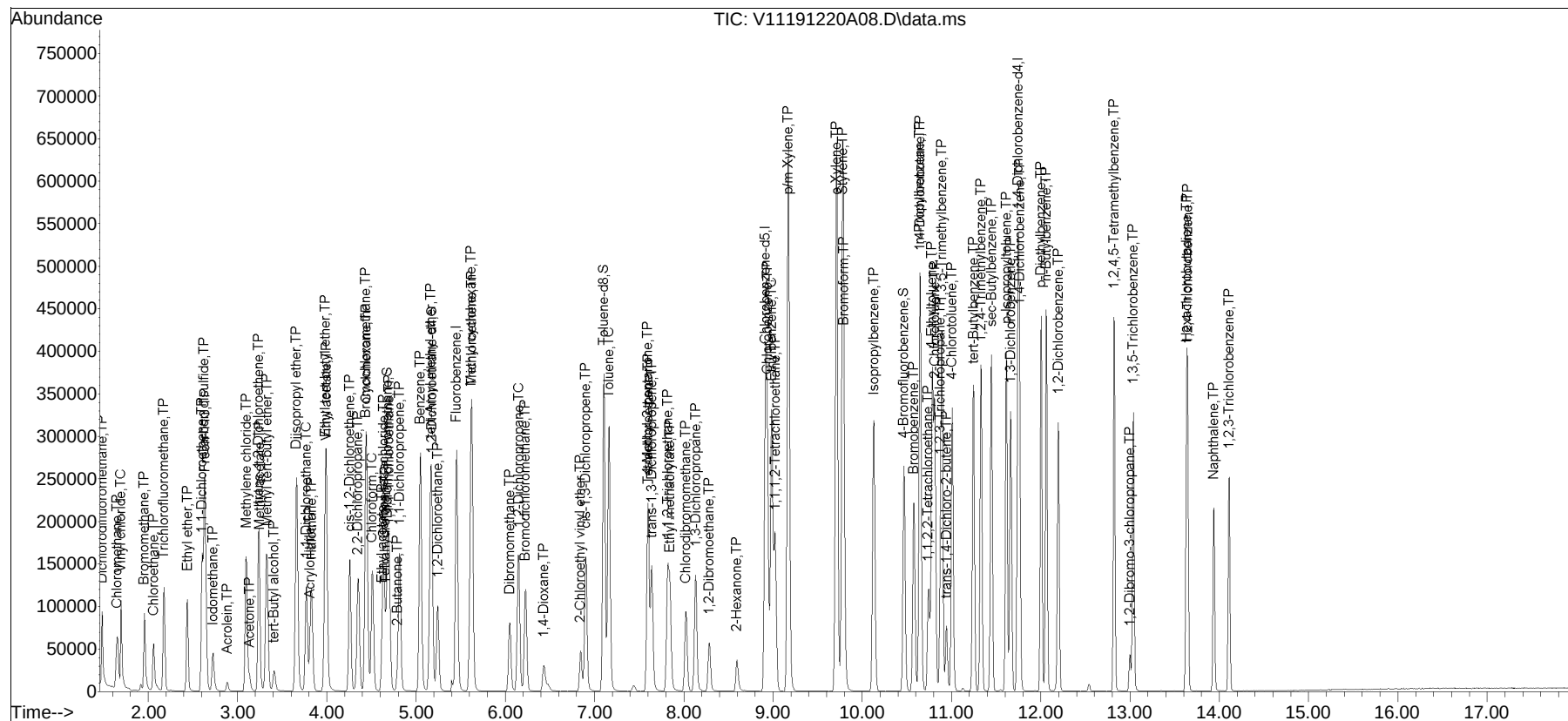
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A08.D  
 Acq On : 20 Dec 2019 05:52 am  
 Operator : VOA111:JC  
 Sample : I8260STD20PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 14:04:42 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

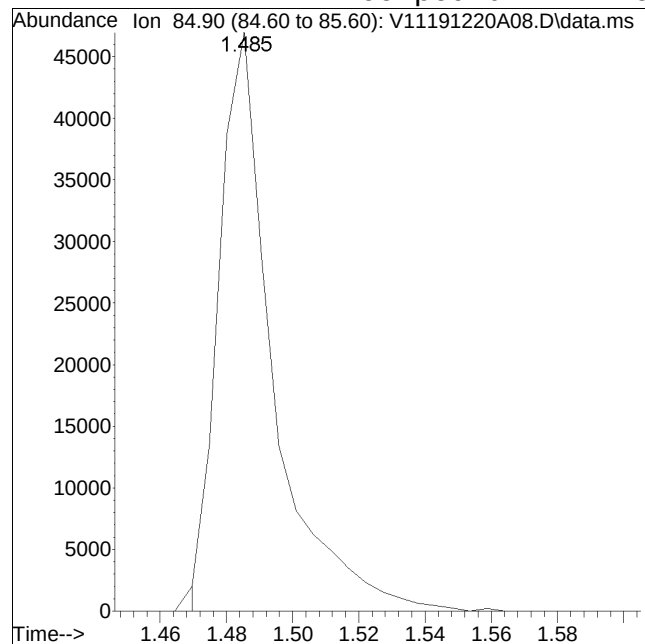
Sub List : 8260-Curve - Megamix plus Diox91220\V11191220A09.D•



# Manual Integration Report

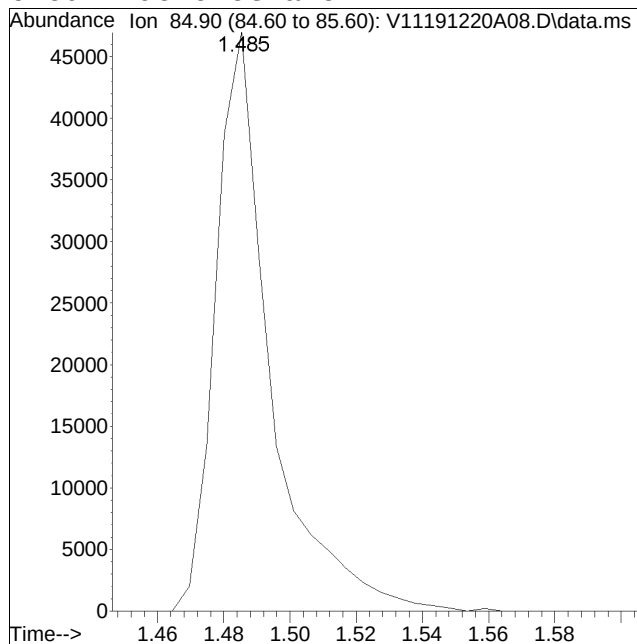
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A08.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 5:52 am Instrument : VOA111  
Sample : I8260STD20PPB Quant Date : 12/20/2019 1:33 pm

## Compound #2: Dichlorodifluoromethane



Original Peak Response = 53666

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

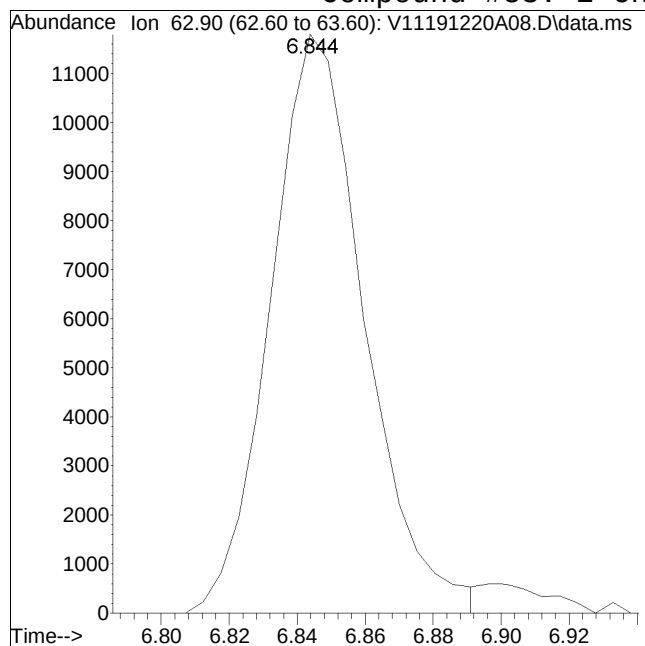


Manual Peak Response = 54303 M1

# Manual Integration Report

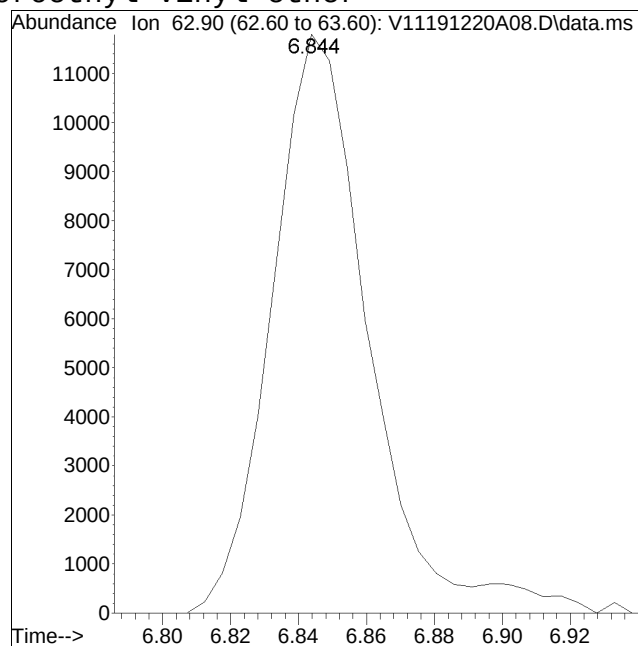
Data Path : I:\VOLATILES\VOA111\2019\10Method : V111\_191220A\_8260.m  
Data File : V11191220A08.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 5:52 am Instrument : VOA111  
Sample : I8260STD20PPB Quant Date : 12/20/2019 1:33 pm

## Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 22598

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



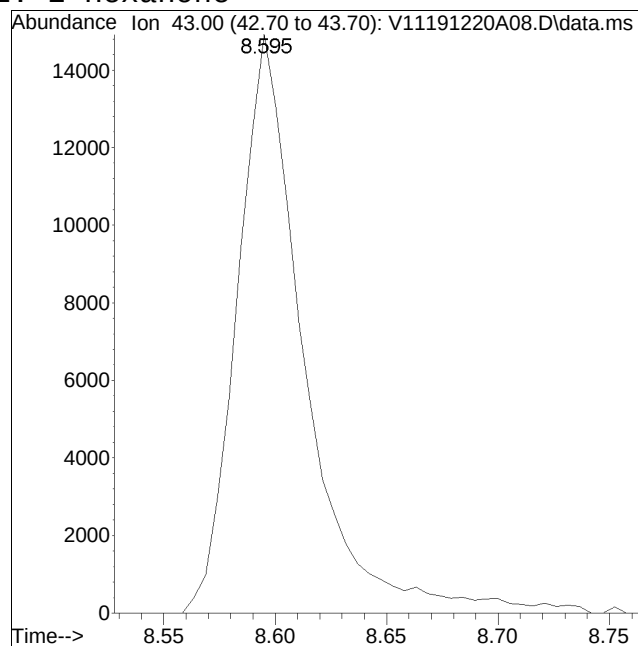
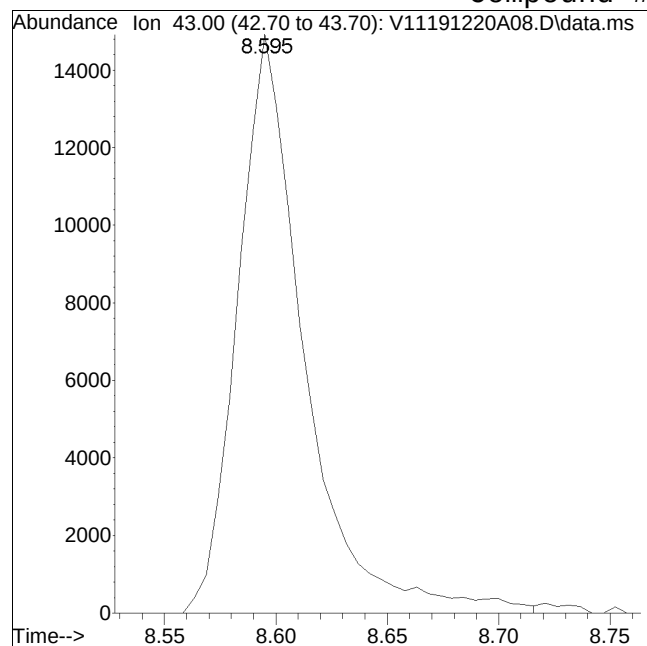
Manual Peak Response = 23407 M1



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A08.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 5:52 am Instrument : VOA111  
Sample : I8260STD20PPB Quant Date : 12/20/2019 1:33 pm

## Compound #72: 2-Hexanone



Original Peak Response = 31219

Manual Peak Response = 31471 M1

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A09.D  
 Acq On : 20 Dec 2019 06:18 am  
 Operator : VOA111:JC  
 Sample : I8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 13:32:06 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:29:50 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc     | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|----------|---------|----------|
| -----                        |                |      |          |          |         |          |
| Internal Standards           |                |      |          |          |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 259600   | 20.000   | ug/L    | -0.02    |
| Standard Area 1 = 259600     |                |      | Recovery | =        | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 193339   | 20.000   | ug/L    | -0.02    |
| Standard Area 1 = 193339     |                |      | Recovery | =        | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 101708   | 20.000   | ug/L    | -0.01    |
| Standard Area 1 = 101708     |                |      | Recovery | =        | 100.00% |          |
| System Monitoring Compounds  |                |      |          |          |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 68288    | 19.858   | ug/L    | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =        | 99.29%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 73107    | 23.663   | ug/L    | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =        | 118.32% |          |
| 60) Toluene-d8               | 7.106          | 98   | 271515   | 21.528   | ug/L    | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =        | 107.64% |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 104570   | 23.435   | ug/L    | -0.02    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =        | 117.17% |          |
| Target Compounds             |                |      |          |          |         |          |
|                              |                |      |          |          |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 116470M1 | 71.591   | ug/L    |          |
| 3) Chloromethane             | 1.653          | 50   | 158994   | 80.923   | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 148410   | 39.170   | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 88783    | 24.047   | ug/L    | 99       |
| 6) Chloroethane              | 2.062          | 64   | 86285    | 26.467   | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 174204   | 34.134   | ug/L    | 100      |
| 8) Ethyl ether               | 2.439          | 74   | 75531    | 47.844   | ug/L    | 76       |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 101997   | 39.812   | ug/L    | 93       |
| 11) Carbon disulfide         | 2.628          | 76   | 380816   | 46.804   | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 110019   | 41.973   | ug/L    | 93       |
| 13) Iodomethane              | 2.728          | 142  | 122711   | No Calib |         |          |
| 14) Acrolein                 | 2.885          | 56   | 20760    | 67.755   | ug/L    | 97       |
| 15) Methylene chloride       | 3.100          | 84   | 136641   | 41.805   | ug/L    | 77       |
| 17) Acetone                  | 3.137          | 43   | 32174    | 60.633   | ug/L    | 97       |
| 18) trans-1,2-Dichloroethene | 3.242          | 96   | 121991   | 39.069   | ug/L    | 92       |
| 19) Methyl acetate           | 3.247          | 43   | 92241    | 67.710   | ug/L    | # 91     |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 353021   | 45.803   | ug/L    | 89       |
| 21) tert-Butyl alcohol       | 3.409          | 59   | 62391    | 289.823  | ug/L    | 97       |
| 22) Diisopropyl ether        | 3.661          | 45   | 506368   | 61.410   | ug/L    | 95       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 258451   | 49.280   | ug/L    | 97       |
| 24) Halothane                | 3.829          | 117  | 89503    | 36.197   | ug/L    | 98       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A09.D  
 Acq On : 20 Dec 2019 06:18 am  
 Operator : VOA111:JC  
 Sample : I8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 13:32:06 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:29:50 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 25) Acrylonitrile             | 3.813 | 53   | 38361    | 65.837   | ug/L   | 97       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 432130   | 50.697   | ug/L   | 93       |
| 27) Vinyl acetate             | 3.997 | 43   | 353837   | 79.357   | ug/L # | 94       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 136730   | 38.420   | ug/L   | 92       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 187805   | 43.088   | ug/L   | 92       |
| 30) Bromochloromethane        | 4.437 | 128  | 61363    | 37.532   | ug/L   | 84       |
| 31) Cyclohexane               | 4.442 | 56   | 220876   | 55.301   | ug/L   | 82       |
| 32) Chloroform                | 4.510 | 83   | 236472   | 37.313   | ug/L   | 96       |
| 33) Ethyl acetate             | 4.621 | 43   | 122260   | 63.218   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 161903   | 36.311   | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 44903    | 73.761   | ug/L # | 83       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 187374   | 36.140   | ug/L   | 100      |
| 39) 2-Butanone                | 4.788 | 43   | 53057    | 67.746   | ug/L # | 81       |
| 40) 1,1-Dichloropropene       | 4.814 | 75   | 167968   | 41.078   | ug/L   | 96       |
| 41) Benzene                   | 5.050 | 78   | 528845   | 40.359   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 363678   | 45.269   | ug/L   | 94       |
| 44) 1,2-Dichloroethane        | 5.244 | 62   | 182982   | 45.041   | ug/L   | 99       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 203347   | 40.645   | ug/L   | 80       |
| 48) Trichloroethene           | 5.627 | 95   | 126388   | 35.769   | ug/L   | 93       |
| 50) Dibromomethane            | 6.047 | 93   | 77057    | 38.160   | ug/L   | 95       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 148756   | 49.582   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 60344    | 48.383   | ug/L   | 86       |
| 54) Bromodichloromethane      | 6.225 | 83   | 188770   | 39.034   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.429 | 88   | 52120    | 2036.427 | ug/L # | 85       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 228092   | 43.460   | ug/L   | 90       |
| 61) Toluene                   | 7.163 | 92   | 314620   | 38.790   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 43347    | 59.673   | ug/L   | 89       |
| 63) Tetrachloroethene         | 7.599 | 166  | 116625   | 34.569   | ug/L   | 97       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 200776   | 46.795   | ug/L   | 84       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 157086   | 52.411   | ug/L   | 91       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 98401    | 43.912   | ug/L   | 95       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 126280   | 37.986   | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.133 | 76   | 200766   | 44.443   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.285 | 107  | 103911   | 39.330   | ug/L   | 99       |
| 72) 2-Hexanone                | 8.595 | 43   | 78727    | 73.435   | ug/L   | 96       |
| 73) Chlorobenzene             | 8.936 | 112  | 339611   | 33.941   | ug/L   | 94       |
| 74) Ethylbenzene              | 8.983 | 91   | 594573   | 38.813   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 124087   | 35.420   | ug/L   | 99       |
| 76) p/m Xylene                | 9.172 | 106  | 446248   | 70.319   | ug/L   | 93       |
| 77) o Xylene                  | 9.712 | 106  | 437274   | 69.782   | ug/L   | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A09.D  
 Acq On : 20 Dec 2019 06:18 am  
 Operator : VOA111:JC  
 Sample : I8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 13:32:06 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:29:50 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 78)  | Styrene                   | 9.780  | 104  | 761230   | 72.239 | ug/L  | 96       |
| 80)  | Bromoform                 | 9.795  | 173  | 79081    | 38.933 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 552900   | 36.898 | ug/L  | 97       |
| 84)  | Bromobenzene              | 10.577 | 156  | 140226   | 35.716 | ug/L  | 99       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 701947   | 39.490 | ug/L  | 96       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 212529   | 56.329 | ug/L  | 98       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 144165   | 42.837 | ug/L  | 97       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 570448   | 36.960 | ug/L  | 98       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 493474   | 39.142 | ug/L  | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 475404   | 37.278 | ug/L  | 97       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 114859   | 45.482 | ug/L  | 94       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 42286    | 58.854 | ug/L  | 89       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 447039   | 39.868 | ug/L  | 94       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 384497   | 35.961 | ug/L  | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.326 | 105  | 482426   | 37.602 | ug/L  | 97       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 605555   | 37.443 | ug/L  | 97       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 493659   | 36.323 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 273901   | 35.373 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 276792   | 34.904 | ug/L  | 100      |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 299084   | 35.875 | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.060 | 91   | 505395   | 39.143 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 252342   | 35.233 | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 467642   | 35.807 | ug/L  | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 18744    | 40.867 | ug/L  | 96       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 191889   | 35.274 | ug/L  | 98       |
| 108) | Hexachlorobutadiene       | 13.633 | 225  | 86513    | 37.017 | ug/L  | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 165938   | 36.859 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 347454   | 37.868 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 150585   | 37.620 | ug/L  | 98       |

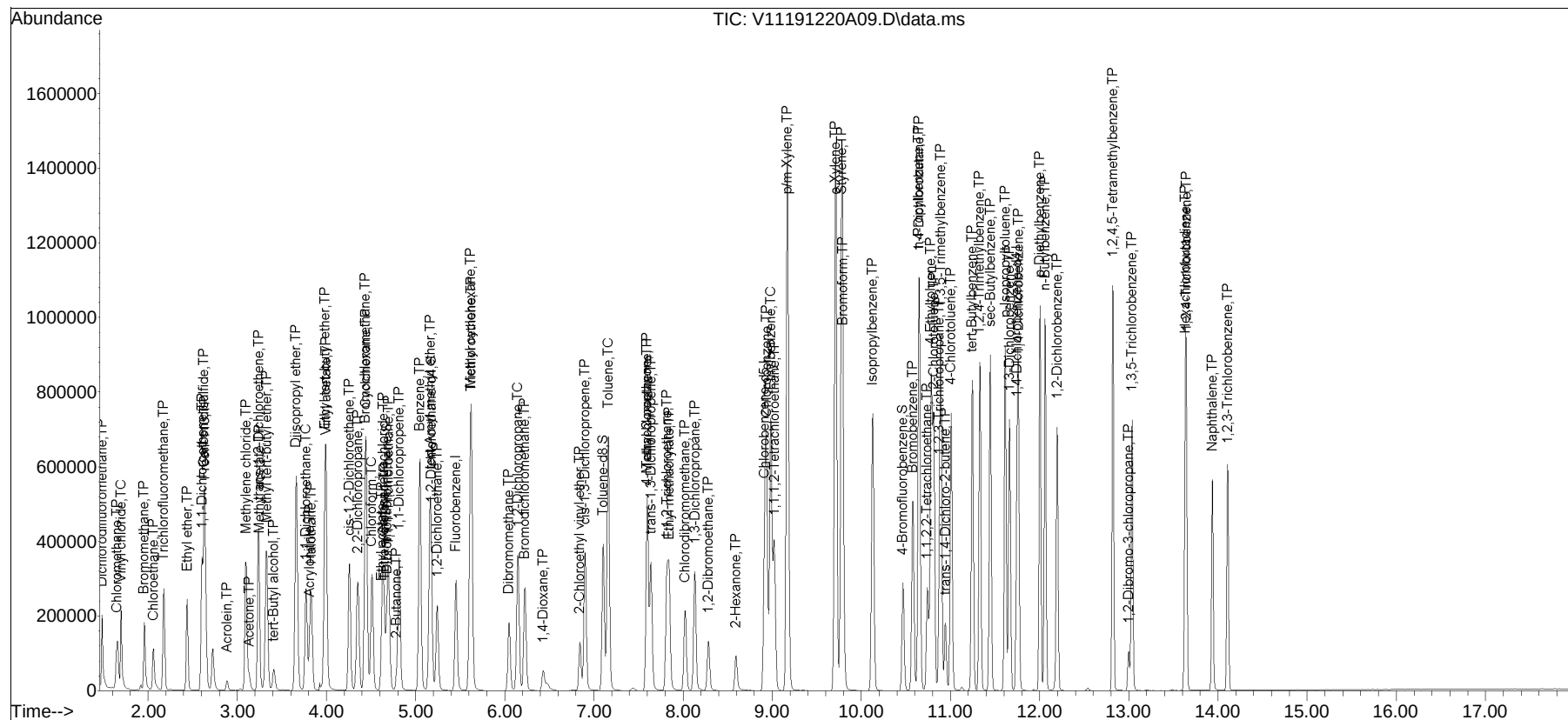
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A09.D  
 Acq On : 20 Dec 2019 06:18 am  
 Operator : VOA111:JC  
 Sample : I8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 13:32:06 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:29:50 2019  
 Response via : Initial Calibration

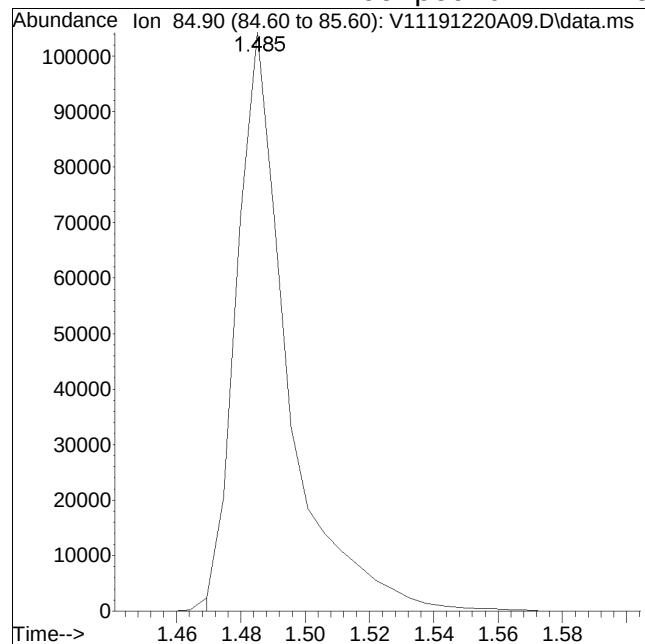
Sub List : 8260-Curve - Megamix plus Diox91220\V11191220A09.D•



# Manual Integration Report

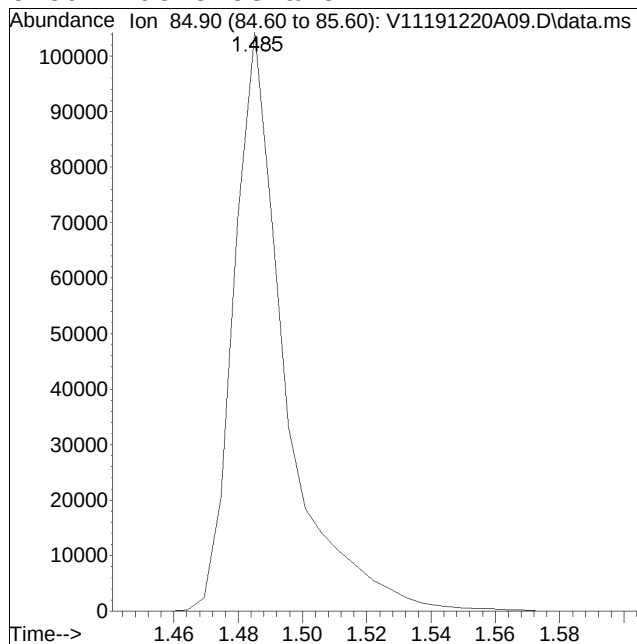
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A09.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 6:18 am Instrument : VOA111  
Sample : I8260STD40PPB Quant Date : 12/20/2019 1:31 pm

## Compound #2: Dichlorodifluoromethane



Original Peak Response = 115657

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



Manual Peak Response = 116470 M1

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A10.D  
 Acq On : 20 Dec 2019 06:44 am  
 Operator : VOA111:JC  
 Sample : I8260STD100PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 14:05:29 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 269346   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =       | 103.75% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 204632   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =       | 105.84% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 104700   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =       | 102.94% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 70278    | 19.838  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.19%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 75225    | 19.835  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.17%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 282498   | 19.661  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 98.31%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 109492   | 20.343  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 101.72% |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 311028M1 | 102.953 | ug/L    |          |
| 3) Chloromethane             | 1.653          | 50   | 413980   | 100.381 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.695          | 62   | 382098   | 99.258  | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 218604   | 94.925  | ug/L    | 99       |
| 6) Chloroethane              | 2.057          | 64   | 206940   | 92.462  | ug/L    | 98       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 457457   | 101.239 | ug/L    | 100      |
| 8) Ethyl ether               | 2.439          | 74   | 195477   | 99.776  | ug/L    | 76       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 270637   | 102.295 | ug/L    | 93       |
| 11) Carbon disulfide         | 2.628          | 76   | 991112   | 100.337 | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 288021   | 100.928 | ug/L    | 94       |
| 13) Iodomethane              | 2.723          | 142  | 337442   | 106.016 | ug/L    | 99       |
| 14) Acrolein                 | 2.885          | 56   | 55250    | 102.603 | ug/L    | 96       |
| 15) Methylene chloride       | 3.095          | 84   | 348412   | 98.303  | ug/L    | 77       |
| 17) Acetone                  | 3.132          | 43   | 78699    | 94.301  | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 312782   | 98.848  | ug/L    | 94       |
| 19) Methyl acetate           | 3.242          | 43   | 234738   | 98.110  | ug/L    | # 90     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 926926   | 101.228 | ug/L    | 87       |
| 21) tert-Butyl alcohol       | 3.409          | 59   | 155789   | 481.326 | ug/L    | 96       |
| 22) Diisopropyl ether        | 3.661          | 45   | 1336401  | 101.748 | ug/L    | 97       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 658559   | 98.236  | ug/L    | 97       |
| 24) Halothane                | 3.829          | 117  | 232930   | 100.333 | ug/L    | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A10.D  
 Acq On : 20 Dec 2019 06:44 am  
 Operator : VOA111:JC  
 Sample : I8260STD100PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 14:05:29 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 25) Acrylonitrile             | 3.808 | 53   | 101062   | 101.567  | ug/L   | 98       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 1149665  | 102.568  | ug/L   | 94       |
| 27) Vinyl acetate             | 3.991 | 43   | 922063   | 100.464  | ug/L # | 94       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 352684   | 99.443   | ug/L   | 93       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 492069   | 101.012  | ug/L   | 91       |
| 30) Bromochloromethane        | 4.437 | 128  | 152806   | 96.004   | ug/L   | 83       |
| 31) Cyclohexane               | 4.442 | 56   | 597119   | 104.224  | ug/L   | 83       |
| 32) Chloroform                | 4.511 | 83   | 601197   | 98.015   | ug/L   | 96       |
| 33) Ethyl acetate             | 4.621 | 43   | 307619   | 97.002   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 423544   | 100.855  | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 112699   | 96.761   | ug/L # | 81       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 490499   | 100.921  | ug/L   | 99       |
| 39) 2-Butanone                | 4.788 | 43   | 135693   | 98.598   | ug/L # | 79       |
| 40) 1,1-Dichloropropene       | 4.815 | 75   | 449492   | 103.169  | ug/L   | 96       |
| 41) Benzene                   | 5.051 | 78   | 1351297  | 98.509   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 961701   | 101.948  | ug/L   | 92       |
| 44) 1,2-Dichloroethane        | 5.245 | 62   | 461093   | 97.148   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 549130   | 104.110  | ug/L # | 78       |
| 48) Trichloroethene           | 5.627 | 95   | 325248   | 99.212   | ug/L   | 94       |
| 50) Dibromomethane            | 6.047 | 93   | 195155   | 97.639   | ug/L   | 96       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 385849   | 99.999   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 168067   | 107.375  | ug/L # | 85       |
| 54) Bromodichloromethane      | 6.225 | 83   | 489495   | 99.970   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.430 | 88   | 146267   | 5409.612 | ug/L # | 83       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 597437   | 100.980  | ug/L # | 89       |
| 61) Toluene                   | 7.158 | 92   | 811618   | 97.493   | ug/L   | 97       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 116382   | 101.469  | ug/L # | 84       |
| 63) Tetrachloroethene         | 7.599 | 166  | 306283   | 99.252   | ug/L   | 97       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 526920   | 99.183   | ug/L   | 83       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 430727   | 103.626  | ug/L   | 88       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 243119   | 93.374   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 328564   | 98.331   | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.134 | 76   | 511811   | 96.344   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.286 | 107  | 265389   | 96.522   | ug/L   | 98       |
| 72) 2-Hexanone                | 8.590 | 43   | 209947   | 100.784  | ug/L   | 94       |
| 73) Chlorobenzene             | 8.936 | 112  | 871408   | 96.972   | ug/L   | 94       |
| 74) Ethylbenzene              | 8.983 | 91   | 1549004  | 98.459   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 322826   | 98.321   | ug/L   | 99       |
| 76) p/m Xylene                | 9.172 | 106  | 1148952  | 194.608  | ug/L   | 93       |
| 77) o Xylene                  | 9.712 | 106  | 1125218  | 194.500  | ug/L   | 93       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A10.D  
 Acq On : 20 Dec 2019 06:44 am  
 Operator : VOA111:JC  
 Sample : I8260STD100PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 14:05:29 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|-------|----------|
| 78)  | Styrene                   | 9.780  | 104  | 1919103  | 190.554 | ug/L  | 96       |
| 80)  | Bromoform                 | 9.796  | 173  | 200037   | 98.289  | ug/L  | 100      |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 1436516  | 100.956 | ug/L  | 98       |
| 84)  | Bromobenzene              | 10.577 | 156  | 355169   | 98.418  | ug/L  | 99       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 1779781  | 98.521  | ug/L  | 96       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 519504   | 94.982  | ug/L  | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 349225   | 94.127  | ug/L  | 98       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 1466638  | 99.902  | ug/L  | 98       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 1242326  | 97.823  | ug/L  | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 1220325  | 99.743  | ug/L  | 97       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 279435   | 94.533  | ug/L  | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 105358   | 96.814  | ug/L  | 84       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 1131211  | 98.326  | ug/L  | 94       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 1007565  | 101.824 | ug/L  | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 1230874  | 99.141  | ug/L  | 96       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 1538383  | 98.714  | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 1290431  | 101.573 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 685701   | 97.277  | ug/L  | 98       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 685657   | 96.255  | ug/L  | 99       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 777958   | 101.072 | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 1273770  | 97.933  | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 638974   | 98.393  | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 1248065  | 103.703 | ug/L  | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 49772    | 103.179 | ug/L  | 99       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 492067   | 99.642  | ug/L  | 99       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 235153   | 105.618 | ug/L  | 100      |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 438483   | 102.678 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 926485   | 103.612 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 393097   | 101.435 | ug/L  | 98       |

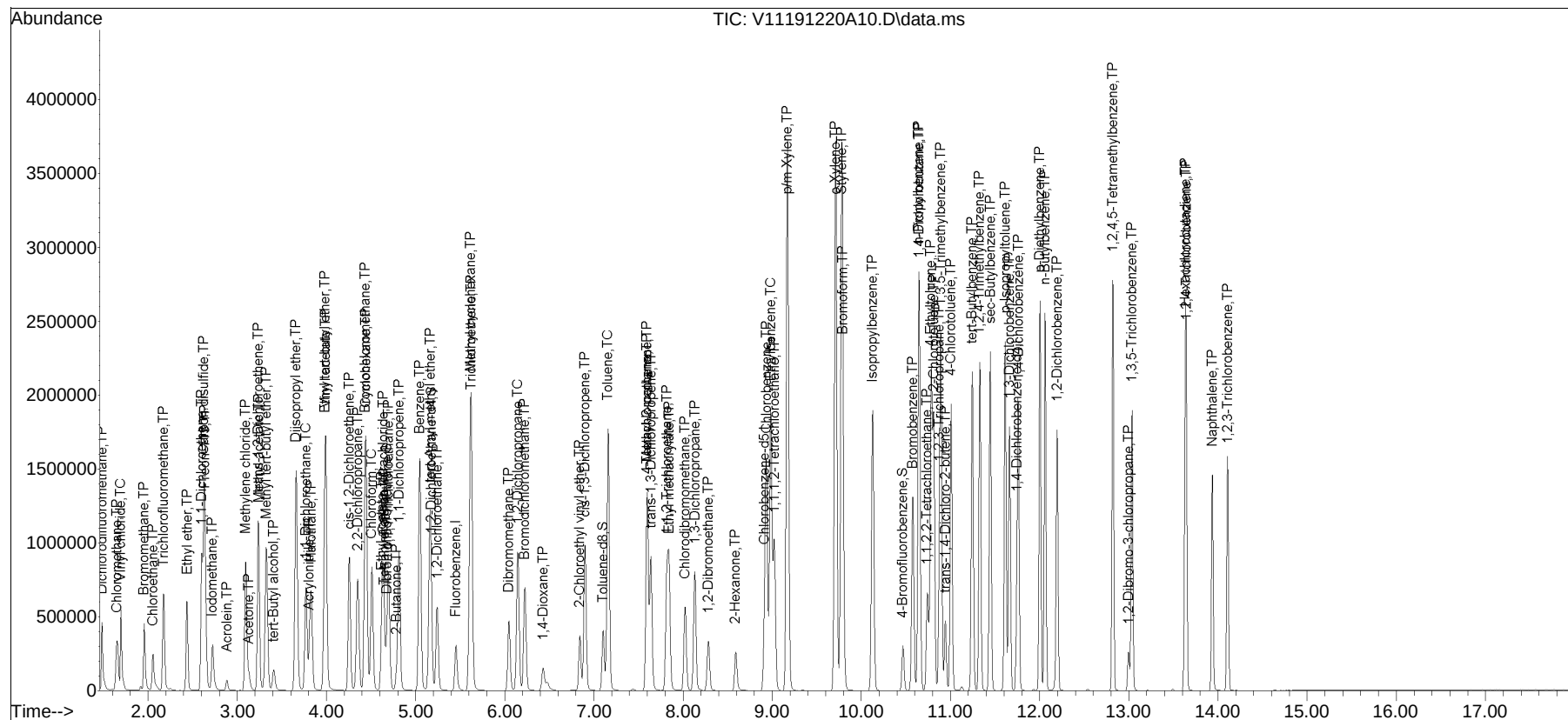
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A10.D  
 Acq On : 20 Dec 2019 06:44 am  
 Operator : VOA111:JC  
 Sample : I8260STD100PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 14:05:29 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

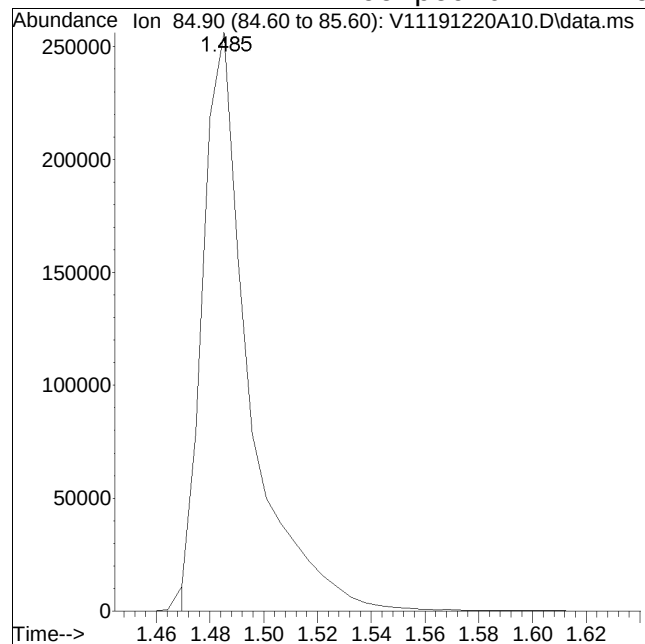
Sub List : 8260-Curve - Megamix plus Diox91220\V11191220A09.D•



# Manual Integration Report

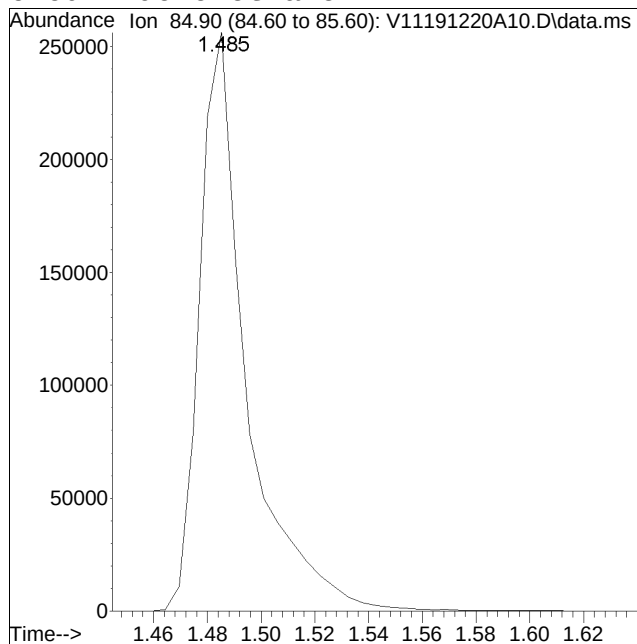
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A10.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 6:44 am Instrument : VOA111  
Sample : I8260STD100PPB Quant Date : 12/20/2019 1:34 pm

## Compound #2: Dichlorodifluoromethane



Original Peak Response = 307358

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



Manual Peak Response = 311028 M1

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A11.D  
 Acq On : 20 Dec 2019 07:09 am  
 Operator : VOA111:JC  
 Sample : I8260STD200PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 14:06:18 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 287362   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =       | 110.69% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 216071   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =       | 111.76% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 109805   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =       | 107.96% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 75088    | 19.867  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.34%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 80318    | 19.850  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.25%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 300972   | 19.837  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.19%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 115136   | 20.397  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 101.98% |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 656782M1 | 203.771 | ug/L    |          |
| 3) Chloromethane             | 1.653          | 50   | 868196   | 197.321 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 777958   | 189.421 | ug/L    | 98       |
| 5) Bromomethane              | 1.957          | 94   | 435801   | 177.376 | ug/L    | 99       |
| 6) Chloroethane              | 2.046          | 64   | 366919   | 153.663 | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.172          | 101  | 959159   | 198.961 | ug/L    | 100      |
| 8) Ethyl ether               | 2.439          | 74   | 411560   | 196.899 | ug/L    | 75       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 573200   | 203.074 | ug/L    | 93       |
| 11) Carbon disulfide         | 2.628          | 76   | 2081845  | 197.546 | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 600065   | 197.091 | ug/L    | 95       |
| 13) Iodomethane              | 2.722          | 142  | 708773   | 208.718 | ug/L    | 99       |
| 14) Acrolein                 | 2.885          | 56   | 118731   | 206.667 | ug/L    | 97       |
| 15) Methylene chloride       | 3.095          | 84   | 720299   | 190.488 | ug/L    | 76       |
| 17) Acetone                  | 3.131          | 43   | 162687   | 182.719 | ug/L    | 90       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 658544   | 195.071 | ug/L    | 94       |
| 19) Methyl acetate           | 3.242          | 43   | 488075   | 191.204 | ug/L    | # 89     |
| 20) Methyl tert-butyl ether  | 3.325          | 73   | 1969603  | 201.611 | ug/L    | 87       |
| 21) tert-Butyl alcohol       | 3.415          | 59   | 338677   | 980.774 | ug/L    | 93       |
| 22) Diisopropyl ether        | 3.661          | 45   | 2754729  | 196.584 | ug/L    | 97       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 1361984  | 190.427 | ug/L    | 97       |
| 24) Halothane                | 3.829          | 117  | 487794   | 196.940 | ug/L    | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A11.D  
 Acq On : 20 Dec 2019 07:09 am  
 Operator : VOA111:JC  
 Sample : I8260STD200PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 14:06:18 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-----------|--------|----------|
| 25) Acrylonitrile             | 3.808 | 53   | 210826   | 198.596   | ug/L   | 98       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 2395246  | 200.295   | ug/L   | 95       |
| 27) Vinyl acetate             | 3.997 | 43   | 1872287  | 191.207   | ug/L # | 93       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 737176   | 194.824   | ug/L   | 93       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 1037368  | 199.600   | ug/L   | 89       |
| 30) Bromochloromethane        | 4.437 | 128  | 315272   | 185.658   | ug/L   | 82       |
| 31) Cyclohexane               | 4.442 | 56   | 1236404  | 202.277   | ug/L   | 83       |
| 32) Chloroform                | 4.510 | 83   | 1256711  | 192.040   | ug/L   | 96       |
| 33) Ethyl acetate             | 4.620 | 43   | 647973   | 191.517   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 897035   | 200.212   | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 232899   | 187.425   | ug/L # | 77       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 1038245  | 200.228   | ug/L   | 98       |
| 39) 2-Butanone                | 4.788 | 43   | 285665   | 194.558   | ug/L # | 81       |
| 40) 1,1-Dichloropropene       | 4.814 | 75   | 947677   | 203.877   | ug/L   | 96       |
| 41) Benzene                   | 5.050 | 78   | 2808504  | 191.903   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 2039495  | 202.647   | ug/L   | 91       |
| 44) 1,2-Dichloroethane        | 5.244 | 62   | 951428   | 187.890   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 1153945  | 205.061   | ug/L # | 78       |
| 48) Trichloroethene           | 5.627 | 95   | 686955   | 196.407   | ug/L   | 93       |
| 50) Dibromomethane            | 6.047 | 93   | 412214   | 193.306   | ug/L   | 97       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 800269   | 194.400   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 377181   | 225.866   | ug/L   | 85       |
| 54) Bromodichloromethane      | 6.225 | 83   | 1032534  | 197.655   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.429 | 88   | 297745   | 10321.562 | ug/L # | 82       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 1265206  | 200.441   | ug/L # | 87       |
| 61) Toluene                   | 7.163 | 92   | 1685757  | 191.775   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 250177   | 206.572   | ug/L # | 81       |
| 63) Tetrachloroethene         | 7.599 | 166  | 644700   | 197.856   | ug/L   | 97       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 1116185  | 198.979   | ug/L # | 81       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 920983   | 209.844   | ug/L   | 87       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 506974   | 184.403   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 697841   | 197.790   | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.133 | 76   | 1062420  | 189.404   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.285 | 107  | 554270   | 190.916   | ug/L   | 99       |
| 72) 2-Hexanone                | 8.590 | 43   | 446607   | 203.041   | ug/L   | 91       |
| 73) Chlorobenzene             | 8.936 | 112  | 1821576  | 191.977   | ug/L   | 94       |
| 74) Ethylbenzene              | 8.983 | 91   | 3217524  | 193.687   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 671971   | 193.824   | ug/L   | 99       |
| 76) p/m Xylene                | 9.172 | 106  | 2380508  | 381.862   | ug/L   | 92       |
| 77) o Xylene                  | 9.712 | 106  | 2317454  | 379.377   | ug/L   | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A11.D  
 Acq On : 20 Dec 2019 07:09 am  
 Operator : VOA111:JC  
 Sample : I8260STD200PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 14:06:18 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|--------|----------|
| 78)  | Styrene                   | 9.785  | 104  | 3886449  | 365.469 | ug/L   | 95       |
| 80)  | Bromoform                 | 9.795  | 173  | 413892   | 193.913 | ug/L   | 100      |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 2984858  | 200.018 | ug/L   | 97       |
| 84)  | Bromobenzene              | 10.577 | 156  | 737579   | 194.883 | ug/L   | 100      |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 3641805  | 192.223 | ug/L   | 96       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 1047803  | 182.665 | ug/L   | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 720239   | 185.101 | ug/L   | 98       |
| 88)  | 4-Ethyltoluene            | 10.786 | 105  | 3038963  | 197.380 | ug/L   | 98       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 2572841  | 193.171 | ug/L   | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 2534811  | 197.549 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 575725   | 185.713 | ug/L   | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 220443   | 193.149 | ug/L # | 81       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 2365999  | 196.093 | ug/L   | 93       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 2082830  | 200.703 | ug/L   | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 2555725  | 196.280 | ug/L   | 96       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 3153748  | 192.960 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 2643603  | 198.409 | ug/L   | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 1404112  | 189.933 | ug/L   | 98       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 1420002  | 190.076 | ug/L   | 99       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 1628297  | 201.713 | ug/L   | 97       |
| 103) | n-Butylbenzene            | 12.060 | 91   | 2585475  | 189.541 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 1311435  | 192.553 | ug/L   | 98       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 2583961  | 204.722 | ug/L   | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 104528   | 206.616 | ug/L   | 97       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 1027396  | 198.372 | ug/L   | 98       |
| 108) | Hexachlorobutadiene       | 13.633 | 225  | 478919   | 205.104 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 925730   | 206.696 | ug/L   | 99       |
| 110) | Naphthalene               | 13.937 | 128  | 1944102  | 207.307 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 816340   | 200.855 | ug/L   | 98       |

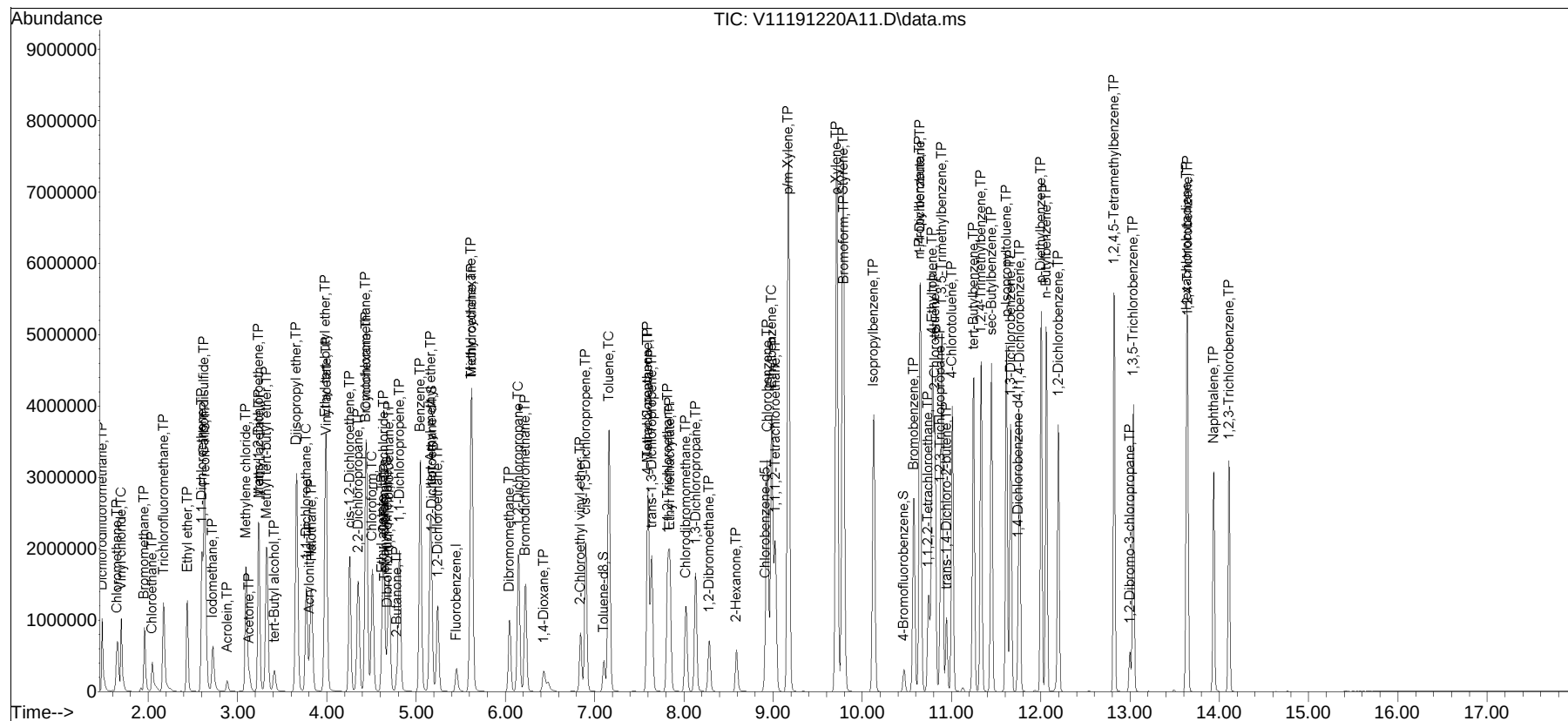
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
Data File : V11191220A11.D  
Acq On : 20 Dec 2019 07:09 am  
Operator : VOA111:JC  
Sample : I8260STD200PPB  
Misc : WG1323373,ICAL  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 20 14:06:18 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 13:33:04 2019  
Response via : Initial Calibration

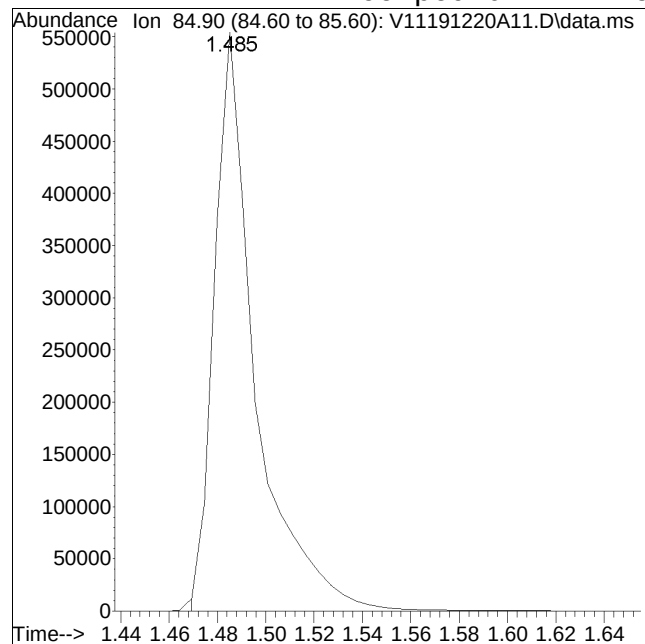
Sub List : 8260-Curve - Megamix plus Diox91220\V1191220A09.D•



# Manual Integration Report

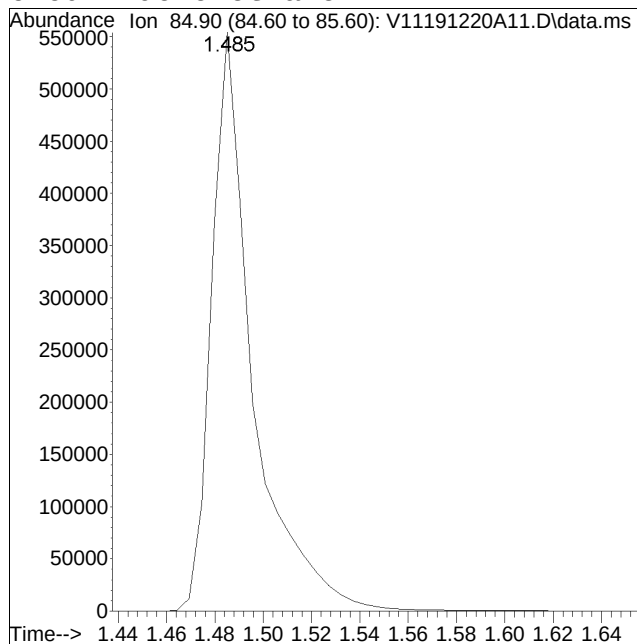
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A11.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 7:09 am Instrument : VOA111  
Sample : I8260STD200PPB Quant Date : 12/20/2019 1:34 pm

## Compound #2: Dichlorodifluoromethane



Original Peak Response = 652813

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



Manual Peak Response = 656782 M1



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A12.D  
 Acq On : 20 Dec 2019 07:34 am  
 Operator : VOA111:JC  
 Sample : I8260STD300PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 14:07:10 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response  | Conc     | Units   | Dev(Min) |
|------------------------------|----------------|------|-----------|----------|---------|----------|
| -----                        |                |      |           |          |         |          |
| Internal Standards           |                |      |           |          |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 290250    | 20.000   | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery  | =        | 111.81% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 219727    | 20.000   | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery  | =        | 113.65% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 109963    | 20.000   | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery  | =        | 108.12% |          |
| System Monitoring Compounds  |                |      |           |          |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 75504     | 19.778   | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery  | =        | 98.89%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 80326     | 19.654   | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery  | =        | 98.27%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 300805    | 19.497   | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery  | =        | 97.48%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 116948    | 20.688   | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery  | =        | 103.44% |          |
| Target Compounds             |                |      |           |          |         |          |
|                              |                |      |           |          |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 1033506M1 | 317.462  | ug/L    |          |
| 3) Chloromethane             | 1.653          | 50   | 1358909   | 305.775  | ug/L    | 98       |
| 4) Vinyl chloride            | 1.695          | 62   | 1166318   | 281.155  | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 684032    | 275.638  | ug/L    | 99       |
| 6) Chloroethane              | 2.041          | 64   | 435610M1  | 180.615  | ug/L    |          |
| 7) Trichlorofluoromethane    | 2.167          | 101  | 1453090   | 298.419  | ug/L    | 100      |
| 8) Ethyl ether               | 2.434          | 74   | 623934    | 295.533  | ug/L    | 74       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 895724    | 314.181  | ug/L    | 92       |
| 11) Carbon disulfide         | 2.628          | 76   | 3197210   | 300.364  | ug/L    | 100      |
| 12) Freon-113                | 2.633          | 101  | 927046    | 301.457  | ug/L    | 96       |
| 13) Iodomethane              | 2.723          | 142  | 1105655   | 322.351  | ug/L    | 99       |
| 14) Acrolein                 | 2.885          | 56   | 180030    | 310.249  | ug/L    | 97       |
| 15) Methylene chloride       | 3.095          | 84   | 1106513   | 289.713  | ug/L    | 75       |
| 17) Acetone                  | 3.131          | 43   | 240978    | 267.957  | ug/L    | 90       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 1014221   | 297.439  | ug/L    | 94       |
| 19) Methyl acetate           | 3.242          | 43   | 721711    | 279.919  | ug/L    | # 89     |
| 20) Methyl tert-butyl ether  | 3.325          | 73   | 3015141   | 305.562  | ug/L    | 86       |
| 21) tert-Butyl alcohol       | 3.415          | 59   | 520024    | 1490.953 | ug/L    | 93       |
| 22) Diisopropyl ether        | 3.661          | 45   | 4099413   | 289.633  | ug/L    | # 97     |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 2078627   | 287.734  | ug/L    | 97       |
| 24) Halothane                | 3.829          | 117  | 752966    | 300.975  | ug/L    | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A12.D  
 Acq On : 20 Dec 2019 07:34 am  
 Operator : VOA111:JC  
 Sample : I8260STD300PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 14:07:10 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-----------|--------|----------|
| 25) Acrylonitrile             | 3.808 | 53   | 314384   | 293.199   | ug/L   | 98       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 3626585  | 300.245   | ug/L   | 96       |
| 27) Vinyl acetate             | 3.991 | 43   | 2769331  | 280.004   | ug/L # | 93       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 1139731  | 298.216   | ug/L   | 92       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 1579547  | 300.897   | ug/L   | 88       |
| 30) Bromochloromethane        | 4.437 | 128  | 476905   | 278.047   | ug/L   | 80       |
| 31) Cyclohexane               | 4.442 | 56   | 1878984  | 304.346   | ug/L   | 81       |
| 32) Chloroform                | 4.510 | 83   | 1928994  | 291.839   | ug/L   | 95       |
| 33) Ethyl acetate             | 4.620 | 43   | 968166   | 283.307   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 1401213  | 309.629   | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 347435   | 276.816   | ug/L # | 76       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 1599468  | 305.393   | ug/L   | 98       |
| 39) 2-Butanone                | 4.788 | 43   | 431433   | 290.913   | ug/L # | 78       |
| 40) 1,1-Dichloropropene       | 4.814 | 75   | 1463134  | 311.638   | ug/L   | 97       |
| 41) Benzene                   | 5.050 | 78   | 4326282  | 292.670   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 3132862  | 308.189   | ug/L   | 91       |
| 44) 1,2-Dichloroethane        | 5.244 | 62   | 1436283  | 280.817   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 1783305  | 313.748   | ug/L # | 78       |
| 48) Trichloroethene           | 5.627 | 95   | 1057188  | 299.253   | ug/L   | 93       |
| 50) Dibromomethane            | 6.047 | 93   | 630199   | 292.589   | ug/L   | 97       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 1230578  | 295.956   | ug/L   | 97       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 579508   | 343.572   | ug/L # | 85       |
| 54) Bromodichloromethane      | 6.225 | 83   | 1592775  | 301.866   | ug/L   | 98       |
| 57) 1,4-Dioxane               | 6.435 | 88   | 466023   | 15994.306 | ug/L # | 81       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 1944177  | 304.943   | ug/L # | 87       |
| 61) Toluene                   | 7.163 | 92   | 2615873  | 292.635   | ug/L   | 99       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 381312   | 309.612   | ug/L # | 79       |
| 63) Tetrachloroethene         | 7.599 | 166  | 1002893  | 302.663   | ug/L   | 97       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 1715842  | 300.789   | ug/L # | 81       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 1414511  | 316.931   | ug/L   | 87       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 770561   | 275.615   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 1077838  | 300.410   | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.133 | 76   | 1633352  | 286.342   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.285 | 107  | 855131   | 289.646   | ug/L   | 99       |
| 72) 2-Hexanone                | 8.590 | 43   | 679496   | 303.780   | ug/L   | 91       |
| 73) Chlorobenzene             | 8.936 | 112  | 2819860  | 292.241   | ug/L   | 94       |
| 74) Ethylbenzene              | 8.988 | 91   | 4977109  | 294.624   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 1036719  | 294.057   | ug/L   | 99       |
| 76) p/m Xylene                | 9.177 | 106  | 3655675  | 576.657   | ug/L   | 93       |
| 77) o Xylene                  | 9.717 | 106  | 3514729  | 565.802   | ug/L   | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A12.D  
 Acq On : 20 Dec 2019 07:34 am  
 Operator : VOA111:JC  
 Sample : I8260STD300PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 14:07:10 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 13:33:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|--------|----------|
| 78)  | Styrene                   | 9.785  | 104  | 5872647  | 543.055 | ug/L   | 94       |
| 80)  | Bromoform                 | 9.801  | 173  | 620264   | 290.184 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.131 | 105  | 4603518  | 308.043 | ug/L   | 98       |
| 84)  | Bromobenzene              | 10.577 | 156  | 1140691  | 300.959 | ug/L   | 100      |
| 85)  | n-Propylbenzene           | 10.650 | 91   | 5580028  | 294.104 | ug/L   | 97       |
| 86)  | 1,4-Dichlorobutane        | 10.655 | 55   | 1585800  | 276.057 | ug/L   | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.744 | 83   | 1100394  | 282.395 | ug/L   | 98       |
| 88)  | 4-Ethyltoluene            | 10.786 | 105  | 4751996  | 308.197 | ug/L   | 97       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 3989130  | 299.077 | ug/L   | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 3935633  | 306.281 | ug/L   | 97       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 874735   | 281.760 | ug/L   | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 331308   | 289.870 | ug/L # | 78       |
| 93)  | 4-Chlorotoluene           | 11.012 | 91   | 3701420  | 306.331 | ug/L   | 93       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 3229563  | 310.756 | ug/L   | 94       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 3982002  | 305.379 | ug/L   | 96       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 4866548  | 297.328 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 4104446  | 307.607 | ug/L   | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 2184297  | 295.044 | ug/L   | 98       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 2212042  | 295.671 | ug/L   | 99       |
| 102) | p-Diethylbenzene          | 12.008 | 119  | 2560456  | 316.733 | ug/L   | 97       |
| 103) | n-Butylbenzene            | 12.060 | 91   | 4036543  | 295.493 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 2047449  | 300.187 | ug/L   | 98       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 4081223  | 322.883 | ug/L   | 97       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 164015   | 323.735 | ug/L   | 98       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 1651116  | 318.344 | ug/L   | 99       |
| 108) | Hexachlorobutadiene       | 13.633 | 225  | 776066   | 331.884 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 1508432  | 336.317 | ug/L   | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 3103049  | 330.415 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 1321063  | 324.571 | ug/L   | 98       |

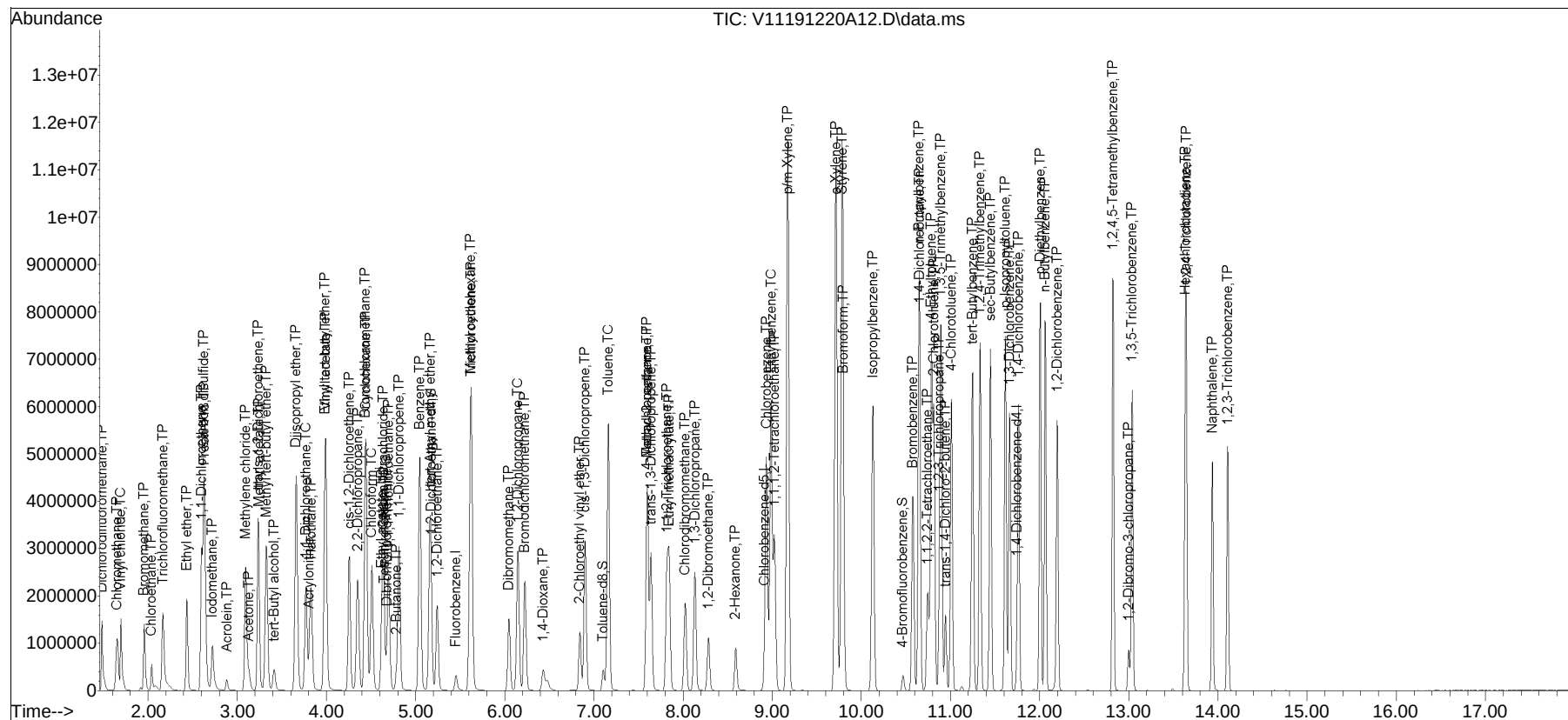
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
Data File : V11191220A12.D  
Acq On : 20 Dec 2019 07:34 am  
Operator : VOA111:JC  
Sample : I8260STD300PPB  
Misc : WG1323373,ICAL  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 20 14:07:10 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 13:33:04 2019  
Response via : Initial Calibration

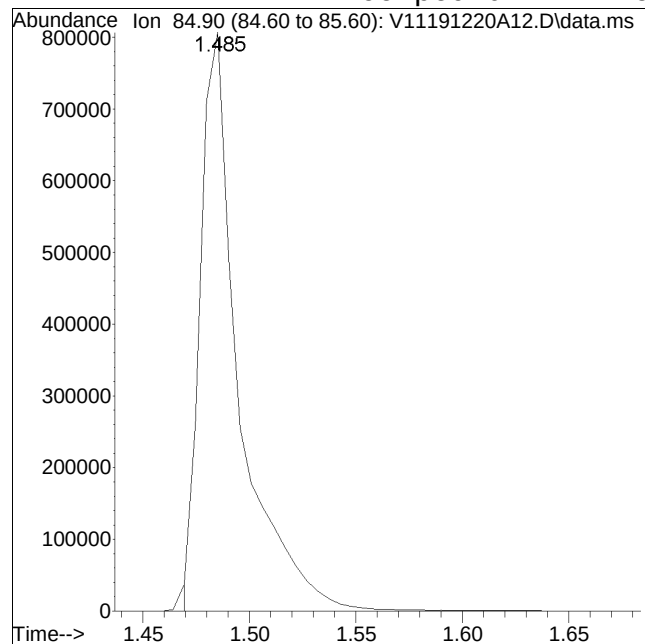
Sub List : 8260-Curve - Megamix plus Diox91220\V1191220A09.D•



# Manual Integration Report

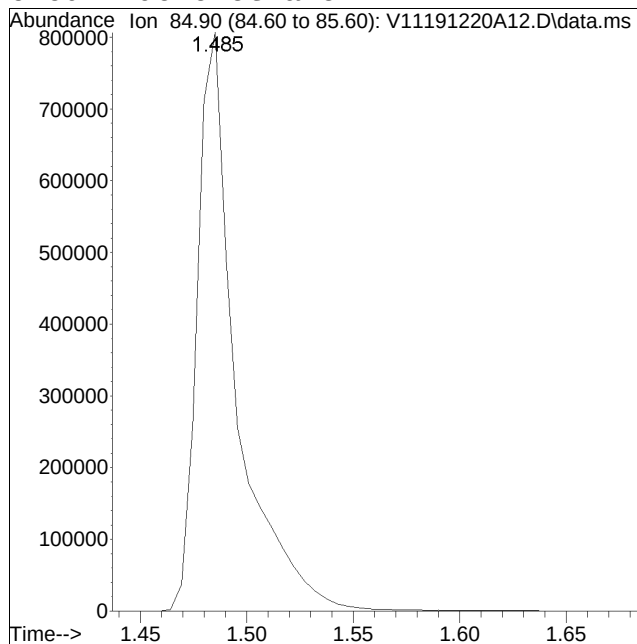
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A12.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 7:34 am Instrument : VOA111  
Sample : I8260STD300PPB Quant Date : 12/20/2019 1:34 pm

## Compound #2: Dichlorodifluoromethane



Original Peak Response = 1017781

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

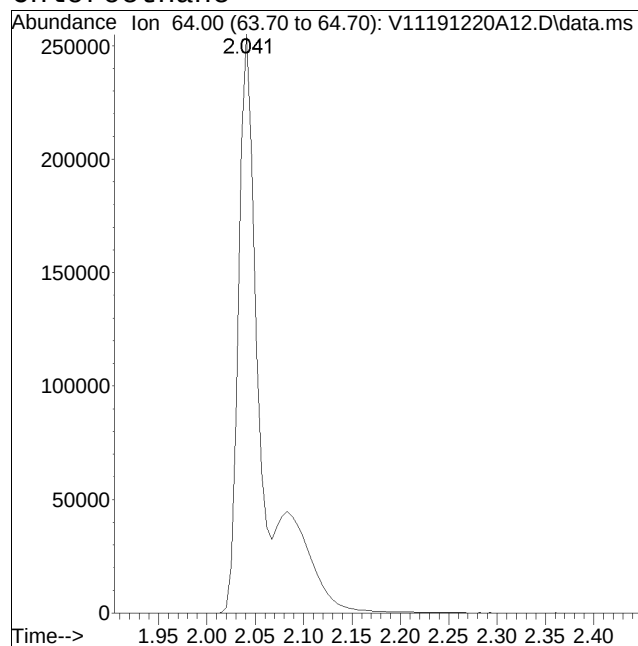
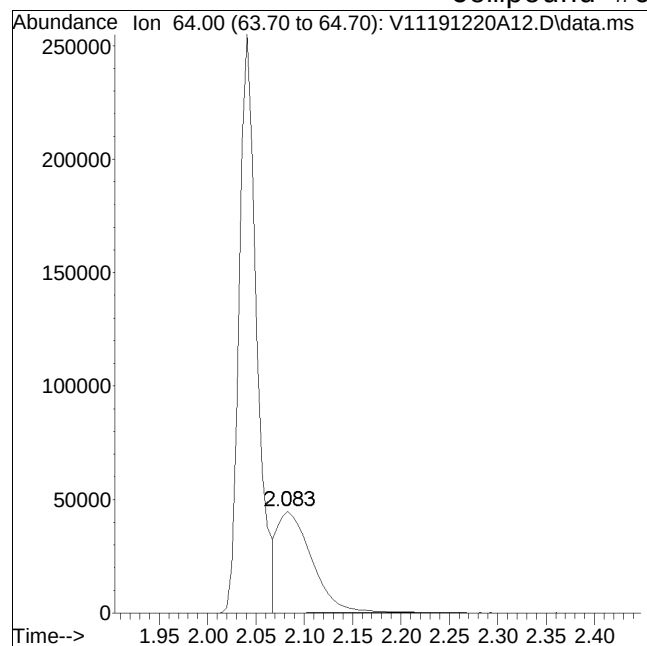


Manual Peak Response = 1033506 M1

# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A12.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 7:34 am Instrument : VOA111  
Sample : I8260STD300PPB Quant Date : 12/20/2019 1:34 pm

## Compound #6: Chloroethane



Original Peak Response = 110377

Manual Peak Response = 435610 M1

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

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                 | AvgRF    | CCRF   | %Dev   | Area% | Dev(min) |
|-------|--------------------------|----------|--------|--------|-------|----------|
| 1 I   | Fluorobenzene            | 1.000    | 1.000  | 0.0    | 108   | 0.00     |
| 2 TP  | Dichlorodifluoromethane  | 0.232    | 0.140  | 39.7#  | 67    | 0.00     |
| 3 TP  | Chloromethane            | 0.322    | 0.261  | 18.9   | 92    | 0.00     |
| 4 TC  | Vinyl chloride           | 0.294    | 0.246  | 16.3   | 93    | 0.00     |
| 5 TP  | Bromomethane             | * 40.000 | 40.312 | -0.8   | 103   | 0.00     |
| 6 TP  | Chloroethane             | 0.173    | 0.145  | 16.2   | 94    | 0.00     |
| 7 TP  | Trichlorofluoromethane   | 0.349    | 0.366  | -4.9   | 118   | 0.00     |
| 8 TP  | Ethyl ether              | 0.144    | 0.176  | -22.2# | 130   | 0.00     |
| 10 TP | 1,1-Dichloroethene       | 0.204    | 0.198  | 2.9    | 109   | 0.00     |
| 11 TP | Carbon disulfide         | 0.837    | 0.916  | -9.4   | 135   | 0.00     |
| 12 TP | Freon-113                | 0.214    | 0.236  | -10.3  | 120   | 0.00     |
| 13 TP | Iodomethane              | * 40.000 | 37.419 | 6.5    | 103   | 0.00     |
| 14 TP | Acrolein                 | 0.037    | 0.040# | -8.1   | 109   | 0.00     |
| 15 TP | Methylene chloride       | 0.286    | 0.270  | 5.6    | 111   | 0.00     |
| 17 TP | Acetone                  | 0.065    | 0.065# | 0.0    | 114   | 0.00     |
| 18 TP | trans-1,2-Dichloroethene | 0.236    | 0.244  | -3.4   | 112   | 0.00     |
| 19 TP | Methyl acetate           | 0.173    | 0.179  | -3.5   | 109   | 0.00     |
| 20 TP | Methyl tert-butyl ether  | 0.654    | 0.789  | -20.6# | 125   | 0.00     |
| 21 TP | tert-Butyl alcohol       | 0.022    | 0.027# | -22.7# | 122   | 0.00     |
| 22 TP | Diisopropyl ether        | 0.925    | 1.113  | -20.3# | 123   | 0.00     |
| 23 TC | 1,1-Dichloroethane       | 0.498    | 0.518  | -4.0   | 112   | 0.00     |
| 24 TP | Halothane                | 0.176    | 0.188  | -6.8   | 118   | 0.00     |
| 25 TP | Acrylonitrile            | 0.069    | 0.089  | -29.0# | 131   | 0.00     |
| 26 TP | Ethyl tert-butyl ether   | 0.785    | 0.989  | -26.0# | 128   | 0.00     |
| 27 TP | Vinyl acetate            | 0.616    | 0.739  | -20.0  | 117   | 0.00     |
| 28 TP | cis-1,2-Dichloroethene   | 0.260    | 0.282  | -8.5   | 116   | 0.00     |
| 29 TP | 2,2-Dichloropropane      | 0.367    | 0.371  | -1.1   | 111   | 0.00     |
| 30 TP | Bromochloromethane       | 0.116    | 0.126  | -8.6   | 115   | 0.00     |
| 31 TP | Cyclohexane              | 0.406    | 0.481  | -18.5  | 122   | 0.00     |
| 32 TC | Chloroform               | 0.462    | 0.485  | -5.0   | 115   | 0.00     |
| 33 TP | Ethyl acetate            | 0.218    | 0.254  | -16.5  | 116   | 0.00     |
| 34 TP | Carbon tetrachloride     | 0.315    | 0.334  | -6.0   | 116   | 0.00     |
| 35 TP | Tetrahydrofuran          | 0.077    | 0.094  | -22.1# | 117   | 0.00     |
| 36 S  | Dibromofluoromethane     | 0.266    | 0.260  | 2.3    | 107   | 0.00     |
| 37 TP | 1,1,1-Trichloroethane    | 0.372    | 0.394  | -5.9   | 118   | 0.00     |
| 39 TP | 2-Butanone               | 0.100    | 0.107  | -7.0   | 113   | 0.00     |
| 40 TP | 1,1-Dichloropropene      | 0.320    | 0.360  | -12.5  | 120   | 0.00     |
| 41 TP | Benzene                  | 1.024    | 1.075  | -5.0   | 114   | 0.00     |
| 42 TP | tert-Amyl methyl ether   | 0.655    | 0.808  | -23.4# | 124   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                  | AvgRF   | CCRF     | %Dev   | Area% | Dev(min) |
|-------|---------------------------|---------|----------|--------|-------|----------|
| 43 S  | 1,2-Dichloroethane-d4     | 0.284   | 0.280    | 1.4    | 107   | 0.00     |
| 44 TP | 1,2-Dichloroethane        | 0.351   | 0.374    | -6.6   | 114   | 0.00     |
| 47 TP | Methyl cyclohexane        | 0.382   | 0.431    | -12.8  | 119   | 0.00     |
| 48 TP | Trichloroethene           | 0.248   | 0.269    | -8.5   | 119   | 0.00     |
| 50 TP | Dibromomethane            | 0.145   | 0.155    | -6.9   | 113   | 0.00     |
| 51 TC | 1,2-Dichloropropane       | 0.282   | 0.308    | -9.2   | 116   | 0.00     |
| 53 TP | 2-Chloroethyl vinyl ether | 0.115   | 0.125    | -8.7   | 116   | 0.00     |
| 54 TP | Bromodichloromethane      | 0.362   | 0.375    | -3.6   | 111   | 0.00     |
| 57 TP | 1,4-Dioxane               | 0.00191 | 0.00218# | -14.1  | 117   | 0.00     |
| 58 TP | cis-1,3-Dichloropropene   | 0.410   | 0.459    | -12.0  | 113   | 0.00     |
| 59 I  | Chlorobenzene-d5          | 1.000   | 1.000    | 0.0    | 109   | 0.00     |
| 60 S  | Toluene-d8                | 1.395   | 1.388    | 0.5    | 107   | 0.00     |
| 61 TC | Toluene                   | 0.810   | 0.871    | -7.5   | 116   | 0.00     |
| 62 TP | 4-Methyl-2-pentanone      | 0.103   | 0.118    | -14.6  | 114   | 0.00     |
| 63 TP | Tetrachloroethene         | 0.303   | 0.337    | -11.2  | 121   | 0.00     |
| 65 TP | trans-1,3-Dichloropropene | 0.484   | 0.563    | -16.3  | 118   | 0.00     |
| 67 TP | Ethyl methacrylate        | 0.372   | 0.474    | -27.4# | 127   | 0.00     |
| 68 TP | 1,1,2-Trichloroethane     | 0.242   | 0.267    | -10.3  | 114   | 0.00     |
| 69 TP | Chlorodibromomethane      | 0.313   | 0.344    | -9.9   | 114   | 0.00     |
| 70 TP | 1,3-Dichloropropane       | 0.498   | 0.548    | -10.0  | 115   | 0.00     |
| 71 TP | 1,2-Dibromoethane         | 0.255   | 0.289    | -13.3  | 117   | 0.00     |
| 72 TP | 2-Hexanone                | 0.182   | 0.212    | -16.5  | 113   | 0.00     |
| 73 TP | Chlorobenzene             | 0.878   | 0.950    | -8.2   | 118   | 0.00     |
| 74 TC | Ethylbenzene              | 1.456   | 1.725    | -18.5  | 122   | 0.00     |
| 75 TP | 1,1,1,2-Tetrachloroethane | 0.319   | 0.353    | -10.7  | 120   | 0.00     |
| 76 TP | p/m Xylene                | 0.522   | 0.632    | -21.1# | 119   | 0.00     |
| 77 TP | o Xylene                  | 0.504   | 0.628    | -24.6# | 121   | 0.00     |
| 78 TP | Styrene                   | 0.844   | 1.074    | -27.3# | 119   | 0.00     |
| 79 I  | 1,4-Dichlorobenzene-d4    | 1.000   | 1.000    | 0.0    | 106   | 0.00     |
| 80 TP | Bromoform                 | 0.371   | 0.426    | -14.8  | 116   | 0.00     |
| 82 TP | Isopropylbenzene          | 2.555   | 3.000    | -17.4  | 117   | 0.00     |
| 83 S  | 4-Bromofluorobenzene      | 1.032   | 1.062    | -2.9   | 110   | 0.00     |
| 84 TP | Bromobenzene              | 0.691   | 0.772    | -11.7  | 119   | 0.00     |
| 85 TP | n-Propylbenzene           | 3.309   | 3.843    | -16.1  | 118   | 0.00     |
| 86 TP | 1,4-Dichlorobutane        | 1.000   | 1.211    | -21.1# | 123   | 0.00     |
| 87 TP | 1,1,2,2-Tetrachloroethane | 0.710   | 0.757    | -6.6   | 113   | 0.00     |
| 88 TP | 4-Ethyltoluene            | 2.637   | 3.151    | -19.5  | 119   | 0.00     |



# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|        | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|--------|-----------------------------|-------|-------|--------|-------|----------|
| 89 TP  | 2-Chlorotoluene             | 2.384 | 2.673 | -12.1  | 117   | 0.00     |
| 90 TP  | 1,3,5-Trimethylbenzene      | 2.213 | 2.592 | -17.1  | 118   | 0.00     |
| 91 TP  | 1,2,3-Trichloropropane      | 0.557 | 0.598 | -7.4   | 112   | 0.00     |
| 92 TP  | trans-1,4-Dichloro-2-butene | 0.191 | 0.215 | -12.6  | 110   | 0.00     |
| 93 TP  | 4-Chlorotoluene             | 2.128 | 2.373 | -11.5  | 115   | 0.00     |
| 94 TP  | tert-Butylbenzene           | 1.777 | 2.120 | -19.3  | 119   | 0.00     |
| 97 TP  | 1,2,4-Trimethylbenzene      | 2.172 | 2.702 | -24.4# | 121   | 0.00     |
| 98 TP  | sec-Butylbenzene            | 2.771 | 3.363 | -21.4# | 120   | 0.00     |
| 99 TP  | p-Isopropyltoluene          | 2.219 | 2.713 | -22.3# | 119   | 0.00     |
| 100 TP | 1,3-Dichlorobenzene         | 1.344 | 1.472 | -9.5   | 116   | 0.00     |
| 101 TP | 1,4-Dichlorobenzene         | 1.370 | 1.464 | -6.9   | 114   | 0.00     |
| 102 TP | p-Diethylbenzene            | 1.351 | 1.567 | -16.0  | 113   | 0.00     |
| 103 TP | n-Butylbenzene              | 2.324 | 2.782 | -19.7  | 119   | 0.00     |
| 104 TP | 1,2-Dichlorobenzene         | 1.230 | 1.343 | -9.2   | 115   | 0.00     |
| 105 TP | 1,2,4,5-Tetramethylbenzene  | 2.030 | 2.549 | -25.6# | 118   | 0.00     |
| 106 TP | 1,2-Dibromo-3-chloropropane | 0.088 | 0.101 | -14.8  | 117   | 0.00     |
| 107 TP | 1,3,5-Trichlorobenzene      | 0.930 | 1.010 | -8.6   | 114   | 0.00     |
| 108 TP | Hexachlorobutadiene         | 0.445 | 0.488 | -9.7   | 122   | 0.00     |
| 109 TP | 1,2,4-Trichlorobenzene      | 0.787 | 0.941 | -19.6  | 123   | 0.00     |
| 110 TP | Naphthalene                 | 1.545 | 1.938 | -25.4# | 120   | 0.00     |
| 111 TP | 1,2,3-Trichlorobenzene      | 0.718 | 0.840 | -17.0  | 120   | 0.00     |

\* Evaluation of CC level amount vs concentration.

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 279918   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 259600     |                |      | Recovery | =       | 107.83% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 210219   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 193339     |                |      | Recovery | =       | 108.73% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 107982   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 101708     |                |      | Recovery | =       | 106.17% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 72792    | 19.536  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 97.68%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 78260    | 19.656  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 98.28%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 291743   | 19.901  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.50%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 114722   | 20.597  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 102.99% |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 78377M1  | 24.113  | ug/L    |          |
| 3) Chloromethane             | 1.658          | 50   | 146109   | 32.422  | ug/L    | 97       |
| 4) Vinyl chloride            | 1.700          | 62   | 137506   | 33.389  | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 91478    | 40.312  | ug/L    | 100      |
| 6) Chloroethane              | 2.057          | 64   | 80912    | 33.510  | ug/L    | 98       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 204731   | 41.881  | ug/L    | 100      |
| 8) Ethyl ether               | 2.439          | 74   | 98484    | 48.795  | ug/L    | 74       |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 110981   | 38.927  | ug/L    | 92       |
| 11) Carbon disulfide         | 2.628          | 76   | 512689   | 43.776  | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 132120   | 44.190  | ug/L    | 95       |
| 13) Iodomethane              | 2.728          | 142  | 126010   | 37.419  | ug/L    | 99       |
| 14) Acrolein                 | 2.885          | 56   | 22656    | 43.804  | ug/L    | 96       |
| 15) Methylene chloride       | 3.100          | 84   | 151370   | 37.819  | ug/L    | 77       |
| 17) Acetone                  | 3.137          | 43   | 36644    | 40.353  | ug/L    | 92       |
| 18) trans-1,2-Dichloroethene | 3.242          | 96   | 136506   | 41.297  | ug/L    | 93       |
| 19) Methyl acetate           | 3.247          | 43   | 100199   | 41.334  | ug/L    | # 89     |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 441949   | 48.319  | ug/L    | 88       |
| 21) tert-Butyl alcohol       | 3.415          | 59   | 76313    | 243.247 | ug/L    | 97       |
| 22) Diisopropyl ether        | 3.661          | 45   | 622897   | 48.131  | ug/L    | 96       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 290217   | 41.598  | ug/L    | 97       |
| 24) Halothane                | 3.829          | 117  | 105424   | 42.870  | ug/L    | 98       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 25) Acrylonitrile             | 3.813 | 53   | 50097    | 52.150   | ug/L   | 98       |
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 553410   | 50.347   | ug/L   | 97       |
| 27) Vinyl acetate             | 3.997 | 43   | 413842   | 47.983   | ug/L # | 94       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 158038   | 43.403   | ug/L   | 92       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 207946   | 40.482   | ug/L   | 91       |
| 30) Bromochloromethane        | 4.437 | 128  | 70330    | 43.375   | ug/L   | 83       |
| 31) Cyclohexane               | 4.442 | 56   | 269098   | 47.368   | ug/L   | 82       |
| 32) Chloroform                | 4.511 | 83   | 271601   | 42.021   | ug/L   | 96       |
| 33) Ethyl acetate             | 4.621 | 43   | 142413   | 46.664   | ug/L # | 97       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 187044   | 42.406   | ug/L   | 97       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 52386    | 48.609   | ug/L # | 81       |
| 37) 1,1,1-Trichloroethane     | 4.699 | 97   | 220821   | 42.389   | ug/L   | 99       |
| 39) 2-Butanone                | 4.788 | 43   | 60022    | 43.024   | ug/L # | 81       |
| 40) 1,1-Dichloropropene       | 4.815 | 75   | 201290   | 44.878   | ug/L   | 96       |
| 41) Benzene                   | 5.051 | 78   | 601833   | 41.982   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.166 | 73   | 452121   | 49.319   | ug/L   | 93       |
| 44) 1,2-Dichloroethane        | 5.245 | 62   | 209285   | 42.598   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.617 | 83   | 241438   | 45.214   | ug/L # | 78       |
| 48) Trichloroethene           | 5.627 | 95   | 150671   | 43.416   | ug/L   | 93       |
| 50) Dibromomethane            | 6.047 | 93   | 86848    | 42.764   | ug/L   | 96       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 172235   | 43.562   | ug/L   | 99       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 69812    | 43.531   | ug/L # | 84       |
| 54) Bromodichloromethane      | 6.225 | 83   | 210030   | 41.441   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.435 | 88   | 60936    | 2278.089 | ug/L # | 84       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 257209   | 44.776   | ug/L # | 88       |
| 61) Toluene                   | 7.164 | 92   | 366267   | 43.035   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 49488    | 45.663   | ug/L # | 86       |
| 63) Tetrachloroethene         | 7.599 | 166  | 141558   | 44.470   | ug/L   | 97       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 236608   | 46.532   | ug/L   | 84       |
| 67) Ethyl methacrylate        | 7.845 | 69   | 199348   | 50.951   | ug/L   | 87       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 112464   | 44.166   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 144504   | 43.912   | ug/L   | 99       |
| 70) 1,3-Dichloropropane       | 8.134 | 76   | 230454   | 44.023   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 8.286 | 107  | 121365   | 45.203   | ug/L   | 99       |
| 72) 2-Hexanone                | 8.595 | 43   | 89296    | 46.623   | ug/L   | 95       |
| 73) Chlorobenzene             | 8.936 | 112  | 399552   | 43.278   | ug/L   | 94       |
| 74) Ethylbenzene              | 8.983 | 91   | 725056   | 47.370   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.025 | 131  | 148331   | 44.307   | ug/L   | 99       |
| 76) p/m Xylene                | 9.172 | 106  | 531785   | 96.949   | ug/L   | 93       |
| 77) o Xylene                  | 9.712 | 106  | 528488   | 99.756   | ug/L   | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191220\V11191220A09.D  
 Sub List : 8260-Curve - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|-------|----------|
| 78)  | Styrene                   | 9.785  | 104  | 902922   | 101.814 | ug/L  | 95       |
| 80)  | Bromoform                 | 9.796  | 173  | 92092    | 45.918  | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 647958   | 46.972  | ug/L  | 97       |
| 84)  | Bromobenzene              | 10.577 | 156  | 166656   | 44.650  | ug/L  | 99       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 830017   | 46.457  | ug/L  | 96       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 261539   | 48.439  | ug/L  | 98       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 163447   | 42.652  | ug/L  | 98       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 680480   | 47.803  | ug/L  | 98       |
| 89)  | 2-Chlorotoluene           | 10.813 | 91   | 577322   | 44.862  | ug/L  | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 559805   | 46.849  | ug/L  | 97       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 129207   | 42.929  | ug/L  | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.944 | 53   | 46325    | 44.876  | ug/L  | 88       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 512577   | 44.609  | ug/L  | 94       |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 457839   | 47.709  | ug/L  | 95       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 583628   | 49.777  | ug/L  | 96       |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 726385   | 48.561  | ug/L  | 97       |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 585848   | 48.898  | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 317871   | 43.795  | ug/L  | 98       |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 316187   | 42.740  | ug/L  | 99       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 338327   | 46.370  | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 600866   | 47.894  | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 289938   | 43.648  | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 550432   | 50.209  | ug/L  | 97       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 21862    | 45.886  | ug/L  | 94       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 218225   | 43.443  | ug/L  | 99       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 105467   | 43.877  | ug/L  | 100      |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 203315   | 47.862  | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 418638   | 50.193  | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.111 | 180  | 181371   | 46.777  | ug/L  | 99       |

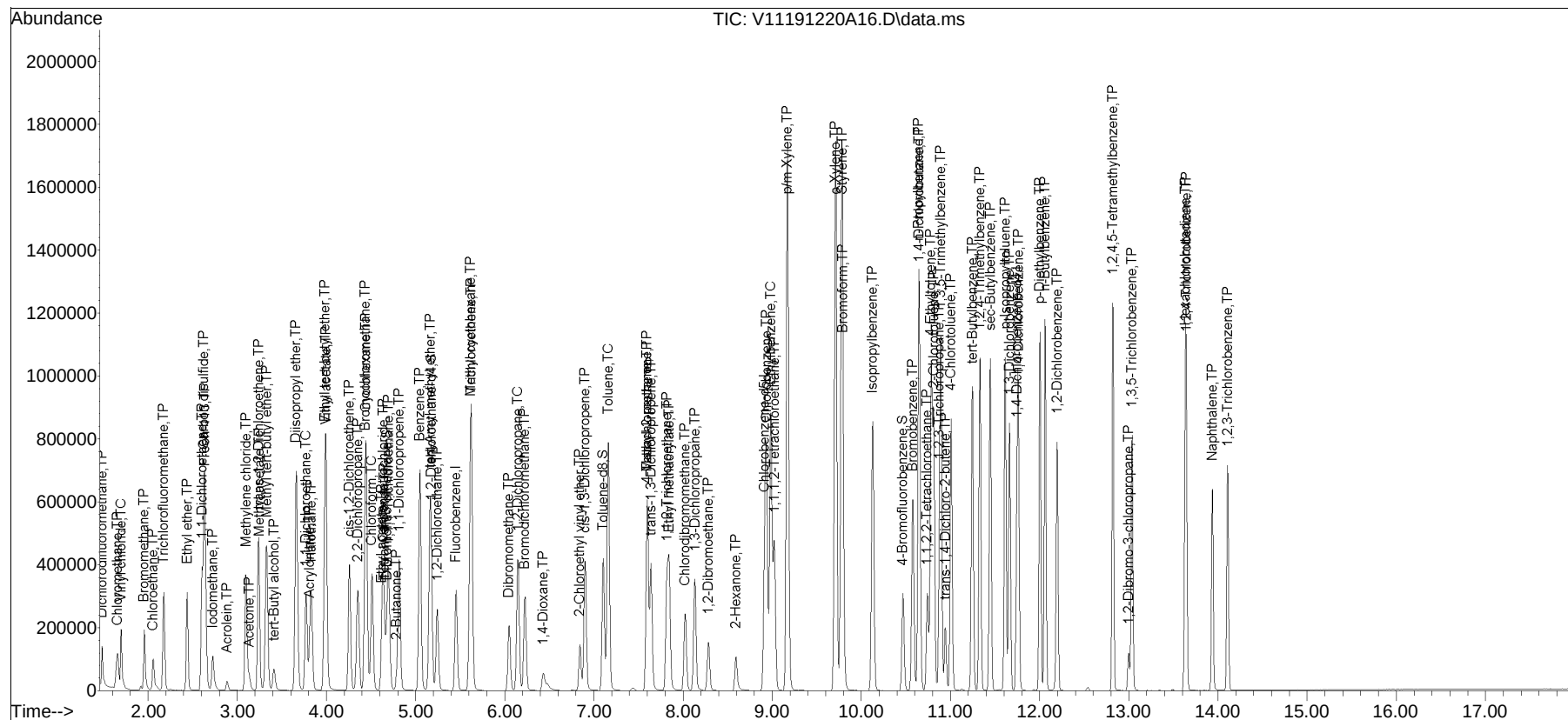
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191220\  
 Data File : V11191220A16.D  
 Acq On : 20 Dec 2019 09:14 am  
 Operator : VOA111:JC  
 Sample : C8260STD40PPB  
 Misc : WG1323373,ICAL  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 20 14:21:14 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191220\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

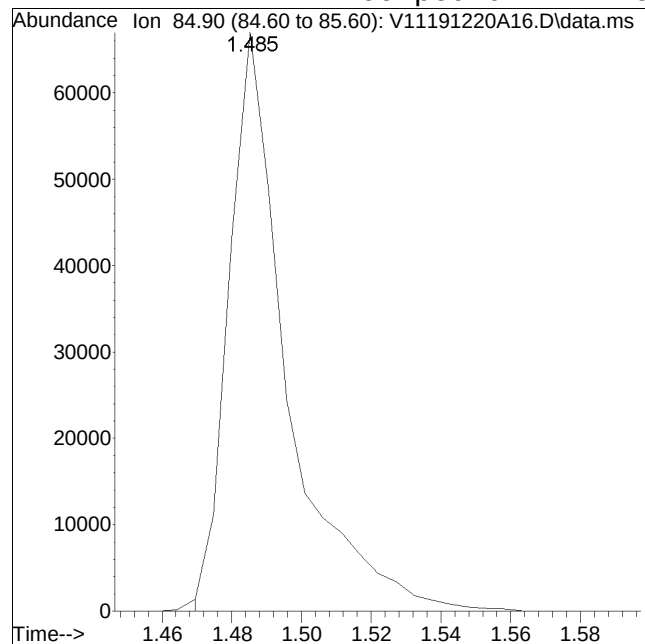
Sub List : 8260-Curve - Megamix plus Diox91220\V11191220A09.D•



## Manual Integration Report

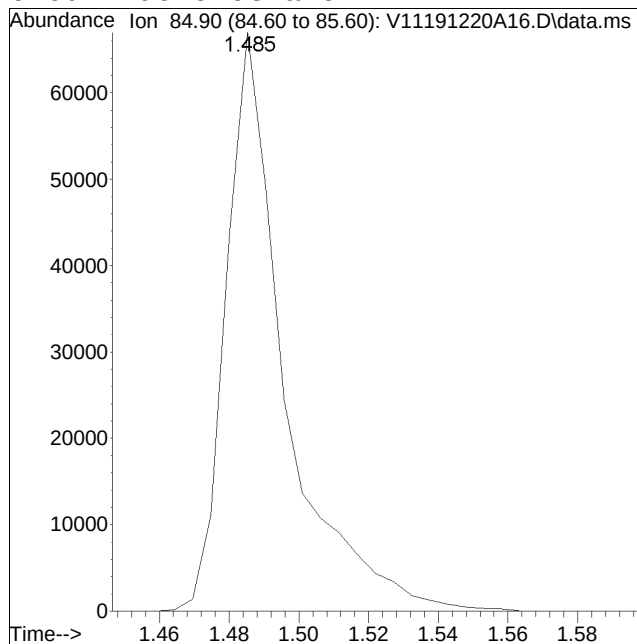
Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191220A16.D Operator : VOA111:JC  
Date Inj'd : 12/20/2019 9:14 am Instrument : VOA111  
Sample : C8260STD40PPB Quant Date : 12/20/2019 2:21 pm

### Compound #2: Dichlorodifluoromethane



Original Peak Response = 77877

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



Manual Peak Response = 78377 M1

# **Continuing Calibration**

# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Lab File ID : V11191227A01  
 Sample No : WG1325768-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/27/19 05:20  
 Init. Calib. Date(s) : 12/20/19 12/20/19  
 Init. Calib. Times : 04:12 07:34

| Compound                 | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|--------------------------|----------|--------|---------|--------|--------|-------|----------|
| Fluorobenzene            | 1        | 1      | -       | 0      | 20     | 105   | 0        |
| Dichlorodifluoromethane  | 0.232    | 0.202  | -       | 12.9   | 20     | 95    | 0        |
| Chloromethane            | 0.322    | 0.267  | -       | 17.1   | 20     | 92    | 0        |
| Vinyl chloride           | 0.294    | 0.296  | -       | -0.7   | 20     | 109   | 0        |
| Bromomethane             | 40       | 47.565 | -       | -18.9  | 20     | 118   | 0        |
| Chloroethane             | 0.173    | 0.198  | -       | -14.5  | 20     | 125   | 0        |
| Trichlorofluoromethane   | 0.349    | 0.326  | -       | 6.6    | 20     | 102   | 0        |
| Ethyl ether              | 0.144    | 0.139  | -       | 3.5    | 20     | 101   | 0        |
| 1,1-Dichloroethene       | 0.204    | 0.21   | -       | -2.9   | 20     | 112   | 0        |
| Carbon disulfide         | 0.837    | 0.73   | -       | 12.8   | 20     | 105   | 0        |
| Freon-113                | 0.214    | 0.223  | -       | -4.2   | 20     | 111   | 0        |
| Acrolein                 | 0.037    | 0.037* | -       | 0      | 20     | 98    | 0        |
| Methylene chloride       | 0.286    | 0.261  | -       | 8.7    | 20     | 104   | 0        |
| Acetone                  | 0.065    | 0.06*  | -       | 7.7    | 20     | 102   | 0        |
| trans-1,2-Dichloroethene | 0.236    | 0.25   | -       | -5.9   | 20     | 112   | 0        |
| Methyl acetate           | 0.173    | 0.162  | -       | 6.4    | 20     | 96    | 0        |
| Methyl tert-butyl ether  | 0.654    | 0.681  | -       | -4.1   | 20     | 105   | 0        |
| tert-Butyl alcohol       | 0.022    | 0.023* | -       | -4.5   | 20     | 101   | 0        |
| Diisopropyl ether        | 0.925    | 0.99   | -       | -7     | 20     | 107   | 0        |
| 1,1-Dichloroethane       | 0.498    | 0.52   | -       | -4.4   | 20     | 110   | 0        |
| Halothane                | 0.176    | 0.195  | -       | -10.8  | 20     | 119   | 0        |
| Acrylonitrile            | 0.069    | 0.073  | -       | -5.8   | 20     | 104   | 0        |
| Ethyl tert-butyl ether   | 0.785    | 0.888  | -       | -13.1  | 20     | 112   | 0        |
| Vinyl acetate            | 0.616    | 0.686  | -       | -11.4  | 20     | 106   | 0        |
| cis-1,2-Dichloroethene   | 0.26     | 0.293  | -       | -12.7  | 20     | 117   | 0        |
| 2,2-Dichloropropane      | 0.367    | 0.422  | -       | -15    | 20     | 123   | 0        |
| Bromochloromethane       | 0.116    | 0.126  | -       | -8.6   | 20     | 112   | 0        |
| Cyclohexane              | 0.406    | 0.501  | -       | -23.4* | 20     | 124   | 0        |
| Chloroform               | 0.462    | 0.494  | -       | -6.9   | 20     | 114   | 0        |
| Ethyl acetate            | 0.218    | 0.234  | -       | -7.3   | 20     | 104   | 0        |
| Carbon tetrachloride     | 0.315    | 0.363  | -       | -15.2  | 20     | 122   | 0        |
| Tetrahydrofuran          | 0.077    | 0.084  | -       | -9.1   | 20     | 103   | 0        |
| Dibromofluoromethane     | 0.266    | 0.277  | -       | -4.1   | 20     | 111   | 0        |
| 1,1,1-Trichloroethane    | 0.372    | 0.414  | -       | -11.3  | 20     | 121   | 0        |
| 2-Butanone               | 0.1      | 0.11   | -       | -10    | 20     | 114   | 0        |
| 1,1-Dichloropropene      | 0.32     | 0.386  | -       | -20.6* | 20     | 125   | 0        |
| Benzene                  | 1.024    | 1.081  | -       | -5.6   | 20     | 112   | 0        |
| tert-Amyl methyl ether   | 0.655    | 0.72   | -       | -9.9   | 20     | 108   | 0        |
| 1,2-Dichloroethane-d4    | 0.284    | 0.274  | -       | 3.5    | 20     | 102   | 0        |
| 1,2-Dichloroethane       | 0.351    | 0.348  | -       | 0.9    | 20     | 104   | 0        |
| Methyl cyclohexane       | 0.382    | 0.458  | -       | -19.9  | 20     | 123   | 0        |
| Trichloroethene          | 0.248    | 0.276  | -       | -11.3  | 20     | 119   | 0        |
| Dibromomethane           | 0.145    | 0.154  | -       | -6.2   | 20     | 109   | 0        |

\* Value outside of QC limits.





# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Lab File ID : V11191227A01  
 Sample No : WG1325768-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/27/19 05:20  
 Init. Calib. Date(s) : 12/20/19 12/20/19  
 Init. Calib. Times : 04:12 07:34

| Compound                   | Ave. RRF | RRF      | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|----------|---------|-------|--------|-------|----------|
| 1,2-Dichloropropane        | 0.282    | 0.305    | -       | -8.2  | 20     | 112   | 0        |
| 2-Chloroethyl vinyl ether  | 0.115    | 0.119    | -       | -3.5  | 20     | 108   | 0        |
| Bromodichloromethane       | 0.362    | 0.384    | -       | -6.1  | 20     | 111   | 0        |
| 1,4-Dioxane                | 0.00191  | 0.00221* | -       | -15.7 | 20     | 116   | 0        |
| cis-1,3-Dichloropropene    | 0.41     | 0.468    | -       | -14.1 | 20     | 112   | 0        |
| Chlorobenzene-d5           | 1        | 1        | -       | 0     | 20     | 115   | 0        |
| Toluene-d8                 | 1.395    | 1.376    | -       | 1.4   | 20     | 112   | 0        |
| Toluene                    | 0.81     | 0.837    | -       | -3.3  | 20     | 118   | 0        |
| 4-Methyl-2-pentanone       | 0.103    | 0.107    | -       | -3.9  | 20     | 109   | 0        |
| Tetrachloroethene          | 0.303    | 0.331    | -       | -9.2  | 20     | 126   | 0        |
| trans-1,3-Dichloropropene  | 0.484    | 0.503    | -       | -3.9  | 20     | 111   | 0        |
| Ethyl methacrylate         | 0.372    | 0.386    | -       | -3.8  | 20     | 109   | 0        |
| 1,1,2-Trichloroethane      | 0.242    | 0.238    | -       | 1.7   | 20     | 107   | 0        |
| Chlorodibromomethane       | 0.313    | 0.317    | -       | -1.3  | 20     | 111   | 0        |
| 1,3-Dichloropropane        | 0.498    | 0.474    | -       | 4.8   | 20     | 105   | 0        |
| 1,2-Dibromoethane          | 0.255    | 0.251    | -       | 1.6   | 20     | 107   | 0        |
| 2-Hexanone                 | 0.182    | 0.178    | -       | 2.2   | 20     | 100   | 0        |
| Chlorobenzene              | 0.878    | 0.865    | -       | 1.5   | 20     | 113   | 0        |
| Ethylbenzene               | 1.456    | 1.563    | -       | -7.3  | 20     | 116   | 0        |
| 1,1,1,2-Tetrachloroethane  | 0.319    | 0.313    | -       | 1.9   | 20     | 112   | 0        |
| p/m Xylene                 | 0.522    | 0.59     | -       | -13   | 20     | 117   | 0        |
| o Xylene                   | 0.504    | 0.578    | -       | -14.7 | 20     | 117   | 0        |
| Styrene                    | 0.844    | 0.976    | -       | -15.6 | 20     | 114   | 0        |
| 1,4-Dichlorobenzene-d4     | 1        | 1        | -       | 0     | 20     | 118   | 0        |
| Bromoform                  | 0.371    | 0.358    | -       | 3.5   | 20     | 109   | 0        |
| Isopropylbenzene           | 2.555    | 2.743    | -       | -7.4  | 20     | 119   | 0        |
| 4-Bromofluorobenzene       | 1.032    | 1.028    | -       | 0.4   | 20     | 118   | 0        |
| Bromobenzene               | 0.691    | 0.662    | -       | 4.2   | 20     | 114   | 0        |
| n-Propylbenzene            | 3.309    | 3.44     | -       | -4    | 20     | 118   | 0        |
| 1,4-Dichlorobutane         | 1        | 0.928    | -       | 7.2   | 20     | 105   | 0        |
| 1,1,2,2-Tetrachloroethane  | 0.71     | 0.627    | -       | 11.7  | 20     | 105   | 0        |
| 4-Ethyltoluene             | 2.637    | 2.819    | -       | -6.9  | 20     | 119   | 0        |
| 2-Chlorotoluene            | 2.384    | 2.362    | -       | 0.9   | 20     | 115   | 0        |
| 1,3,5-Trimethylbenzene     | 2.213    | 2.318    | -       | -4.7  | 20     | 117   | 0        |
| 1,2,3-Trichloropropane     | 0.557    | 0.5      | -       | 10.2  | 20     | 105   | 0        |
| trans-1,4-Dichloro-2-buten | 0.191    | 0.184    | -       | 3.7   | 20     | 105   | 0        |
| 4-Chlorotoluene            | 2.128    | 2.138    | -       | -0.5  | 20     | 115   | 0        |
| tert-Butylbenzene          | 1.777    | 1.897    | -       | -6.8  | 20     | 119   | 0        |
| 1,2,4-Trimethylbenzene     | 2.172    | 2.317    | -       | -6.7  | 20     | 116   | 0        |
| sec-Butylbenzene           | 2.771    | 2.964    | -       | -7    | 20     | 118   | 0        |
| p-Isopropyltoluene         | 2.219    | 2.468    | -       | -11.2 | 20     | 120   | 0        |
| 1,3-Dichlorobenzene        | 1.344    | 1.315    | -       | 2.2   | 20     | 116   | 0        |
| 1,4-Dichlorobenzene        | 1.37     | 1.317    | -       | 3.9   | 20     | 115   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

**Client** : LaBella Associates, P.C.  
**Project Name** : FORMER WOLLENSACK OPTICAL  
**Instrument ID** : VOA111  
**Lab File ID** : V11191227A01  
**Sample No** : WG1325768-2  
**Channel** :

**Lab Number** : L1961284  
**Project Number** : 2182207  
**Calibration Date** : 12/27/19 05:20  
**Init. Calib. Date(s)** : 12/20/19 12/20/19  
**Init. Calib. Times** : 04:12 07:34

| Compound                   | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|-------|--------|-------|----------|
| p-Diethylbenzene           | 1.351    | 1.51  | -       | -11.8 | 20     | 121   | 0        |
| n-Butylbenzene             | 2.324    | 2.466 | -       | -6.1  | 20     | 117   | 0        |
| 1,2-Dichlorobenzene        | 1.23     | 1.19  | -       | 3.3   | 20     | 114   | 0        |
| 1,2,4,5-Tetramethylbenzene | 2.03     | 2.299 | -       | -13.3 | 20     | 118   | 0        |
| 1,2-Dibromo-3-chloropropan | 0.088    | 0.084 | -       | 4.5   | 20     | 108   | 0        |
| 1,3,5-Trichlorobenzene     | 0.93     | 0.932 | -       | -0.2  | 20     | 117   | 0        |
| Hexachlorobutadiene        | 0.445    | 0.444 | -       | 0.2   | 20     | 124   | 0        |
| 1,2,4-Trichlorobenzene     | 0.787    | 0.821 | -       | -4.3  | 20     | 119   | 0        |
| Naphthalene                | 1.545    | 1.654 | -       | -7.1  | 20     | 115   | 0        |
| 1,2,3-Trichlorobenzene     | 0.718    | 0.72  | -       | -0.3  | 20     | 115   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Lab File ID : V11191227A01  
 Sample No : WG1325770-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/27/19 05:20  
 Init. Calib. Date(s) : 12/20/19 12/20/19  
 Init. Calib. Times : 04:12 07:34

| Compound                 | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|--------------------------|----------|--------|---------|--------|--------|-------|----------|
| Fluorobenzene            | 1        | 1      | -       | 0      | 20     | 105   | 0        |
| Dichlorodifluoromethane  | 0.232    | 0.202  | -       | 12.9   | 20     | 95    | 0        |
| Chloromethane            | 0.322    | 0.267  | -       | 17.1   | 20     | 92    | 0        |
| Vinyl chloride           | 0.294    | 0.296  | -       | -0.7   | 20     | 109   | 0        |
| Bromomethane             | 40       | 47.565 | -       | -18.9  | 20     | 118   | 0        |
| Chloroethane             | 0.173    | 0.198  | -       | -14.5  | 20     | 125   | 0        |
| Trichlorofluoromethane   | 0.349    | 0.326  | -       | 6.6    | 20     | 102   | 0        |
| Ethyl ether              | 0.144    | 0.139  | -       | 3.5    | 20     | 101   | 0        |
| 1,1-Dichloroethene       | 0.204    | 0.21   | -       | -2.9   | 20     | 112   | 0        |
| Carbon disulfide         | 0.837    | 0.73   | -       | 12.8   | 20     | 105   | 0        |
| Freon-113                | 0.214    | 0.223  | -       | -4.2   | 20     | 111   | 0        |
| Acrolein                 | 0.037    | 0.037* | -       | 0      | 20     | 98    | 0        |
| Methylene chloride       | 0.286    | 0.261  | -       | 8.7    | 20     | 104   | 0        |
| Acetone                  | 0.065    | 0.06*  | -       | 7.7    | 20     | 102   | 0        |
| trans-1,2-Dichloroethene | 0.236    | 0.25   | -       | -5.9   | 20     | 112   | 0        |
| Methyl acetate           | 0.173    | 0.162  | -       | 6.4    | 20     | 96    | 0        |
| Methyl tert-butyl ether  | 0.654    | 0.681  | -       | -4.1   | 20     | 105   | 0        |
| tert-Butyl alcohol       | 0.022    | 0.023* | -       | -4.5   | 20     | 101   | 0        |
| Diisopropyl ether        | 0.925    | 0.99   | -       | -7     | 20     | 107   | 0        |
| 1,1-Dichloroethane       | 0.498    | 0.52   | -       | -4.4   | 20     | 110   | 0        |
| Halothane                | 0.176    | 0.195  | -       | -10.8  | 20     | 119   | 0        |
| Acrylonitrile            | 0.069    | 0.073  | -       | -5.8   | 20     | 104   | 0        |
| Ethyl tert-butyl ether   | 0.785    | 0.888  | -       | -13.1  | 20     | 112   | 0        |
| Vinyl acetate            | 0.616    | 0.686  | -       | -11.4  | 20     | 106   | 0        |
| cis-1,2-Dichloroethene   | 0.26     | 0.293  | -       | -12.7  | 20     | 117   | 0        |
| 2,2-Dichloropropane      | 0.367    | 0.422  | -       | -15    | 20     | 123   | 0        |
| Bromochloromethane       | 0.116    | 0.126  | -       | -8.6   | 20     | 112   | 0        |
| Cyclohexane              | 0.406    | 0.501  | -       | -23.4* | 20     | 124   | 0        |
| Chloroform               | 0.462    | 0.494  | -       | -6.9   | 20     | 114   | 0        |
| Ethyl acetate            | 0.218    | 0.234  | -       | -7.3   | 20     | 104   | 0        |
| Carbon tetrachloride     | 0.315    | 0.363  | -       | -15.2  | 20     | 122   | 0        |
| Tetrahydrofuran          | 0.077    | 0.084  | -       | -9.1   | 20     | 103   | 0        |
| Dibromofluoromethane     | 0.266    | 0.277  | -       | -4.1   | 20     | 111   | 0        |
| 1,1,1-Trichloroethane    | 0.372    | 0.414  | -       | -11.3  | 20     | 121   | 0        |
| 2-Butanone               | 0.1      | 0.11   | -       | -10    | 20     | 114   | 0        |
| 1,1-Dichloropropene      | 0.32     | 0.386  | -       | -20.6* | 20     | 125   | 0        |
| Benzene                  | 1.024    | 1.081  | -       | -5.6   | 20     | 112   | 0        |
| tert-Amyl methyl ether   | 0.655    | 0.72   | -       | -9.9   | 20     | 108   | 0        |
| 1,2-Dichloroethane-d4    | 0.284    | 0.274  | -       | 3.5    | 20     | 102   | 0        |
| 1,2-Dichloroethane       | 0.351    | 0.348  | -       | 0.9    | 20     | 104   | 0        |
| Methyl cyclohexane       | 0.382    | 0.458  | -       | -19.9  | 20     | 123   | 0        |
| Trichloroethene          | 0.248    | 0.276  | -       | -11.3  | 20     | 119   | 0        |
| Dibromomethane           | 0.145    | 0.154  | -       | -6.2   | 20     | 109   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Lab File ID : V11191227A01  
 Sample No : WG1325770-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/27/19 05:20  
 Init. Calib. Date(s) : 12/20/19 12/20/19  
 Init. Calib. Times : 04:12 07:34

| Compound                   | Ave. RRF | RRF      | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|----------|---------|-------|--------|-------|----------|
| 1,2-Dichloropropane        | 0.282    | 0.305    | -       | -8.2  | 20     | 112   | 0        |
| 2-Chloroethyl vinyl ether  | 0.115    | 0.119    | -       | -3.5  | 20     | 108   | 0        |
| Bromodichloromethane       | 0.362    | 0.384    | -       | -6.1  | 20     | 111   | 0        |
| 1,4-Dioxane                | 0.00191  | 0.00221* | -       | -15.7 | 20     | 116   | 0        |
| cis-1,3-Dichloropropene    | 0.41     | 0.468    | -       | -14.1 | 20     | 112   | 0        |
| Chlorobenzene-d5           | 1        | 1        | -       | 0     | 20     | 115   | 0        |
| Toluene-d8                 | 1.395    | 1.376    | -       | 1.4   | 20     | 112   | 0        |
| Toluene                    | 0.81     | 0.837    | -       | -3.3  | 20     | 118   | 0        |
| 4-Methyl-2-pentanone       | 0.103    | 0.107    | -       | -3.9  | 20     | 109   | 0        |
| Tetrachloroethene          | 0.303    | 0.331    | -       | -9.2  | 20     | 126   | 0        |
| trans-1,3-Dichloropropene  | 0.484    | 0.503    | -       | -3.9  | 20     | 111   | 0        |
| Ethyl methacrylate         | 0.372    | 0.386    | -       | -3.8  | 20     | 109   | 0        |
| 1,1,2-Trichloroethane      | 0.242    | 0.238    | -       | 1.7   | 20     | 107   | 0        |
| Chlorodibromomethane       | 0.313    | 0.317    | -       | -1.3  | 20     | 111   | 0        |
| 1,3-Dichloropropane        | 0.498    | 0.474    | -       | 4.8   | 20     | 105   | 0        |
| 1,2-Dibromoethane          | 0.255    | 0.251    | -       | 1.6   | 20     | 107   | 0        |
| 2-Hexanone                 | 0.182    | 0.178    | -       | 2.2   | 20     | 100   | 0        |
| Chlorobenzene              | 0.878    | 0.865    | -       | 1.5   | 20     | 113   | 0        |
| Ethylbenzene               | 1.456    | 1.563    | -       | -7.3  | 20     | 116   | 0        |
| 1,1,1,2-Tetrachloroethane  | 0.319    | 0.313    | -       | 1.9   | 20     | 112   | 0        |
| p/m Xylene                 | 0.522    | 0.59     | -       | -13   | 20     | 117   | 0        |
| o Xylene                   | 0.504    | 0.578    | -       | -14.7 | 20     | 117   | 0        |
| Styrene                    | 0.844    | 0.976    | -       | -15.6 | 20     | 114   | 0        |
| 1,4-Dichlorobenzene-d4     | 1        | 1        | -       | 0     | 20     | 118   | 0        |
| Bromoform                  | 0.371    | 0.358    | -       | 3.5   | 20     | 109   | 0        |
| Isopropylbenzene           | 2.555    | 2.743    | -       | -7.4  | 20     | 119   | 0        |
| 4-Bromofluorobenzene       | 1.032    | 1.028    | -       | 0.4   | 20     | 118   | 0        |
| Bromobenzene               | 0.691    | 0.662    | -       | 4.2   | 20     | 114   | 0        |
| n-Propylbenzene            | 3.309    | 3.44     | -       | -4    | 20     | 118   | 0        |
| 1,4-Dichlorobutane         | 1        | 0.928    | -       | 7.2   | 20     | 105   | 0        |
| 1,1,2,2-Tetrachloroethane  | 0.71     | 0.627    | -       | 11.7  | 20     | 105   | 0        |
| 4-Ethyltoluene             | 2.637    | 2.819    | -       | -6.9  | 20     | 119   | 0        |
| 2-Chlorotoluene            | 2.384    | 2.362    | -       | 0.9   | 20     | 115   | 0        |
| 1,3,5-Trimethylbenzene     | 2.213    | 2.318    | -       | -4.7  | 20     | 117   | 0        |
| 1,2,3-Trichloropropane     | 0.557    | 0.5      | -       | 10.2  | 20     | 105   | 0        |
| trans-1,4-Dichloro-2-buten | 0.191    | 0.184    | -       | 3.7   | 20     | 105   | 0        |
| 4-Chlorotoluene            | 2.128    | 2.138    | -       | -0.5  | 20     | 115   | 0        |
| tert-Butylbenzene          | 1.777    | 1.897    | -       | -6.8  | 20     | 119   | 0        |
| 1,2,4-Trimethylbenzene     | 2.172    | 2.317    | -       | -6.7  | 20     | 116   | 0        |
| sec-Butylbenzene           | 2.771    | 2.964    | -       | -7    | 20     | 118   | 0        |
| p-Isopropyltoluene         | 2.219    | 2.468    | -       | -11.2 | 20     | 120   | 0        |
| 1,3-Dichlorobenzene        | 1.344    | 1.315    | -       | 2.2   | 20     | 116   | 0        |
| 1,4-Dichlorobenzene        | 1.37     | 1.317    | -       | 3.9   | 20     | 115   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

**Client** : LaBella Associates, P.C.  
**Project Name** : FORMER WOLLENSACK OPTICAL  
**Instrument ID** : VOA111  
**Lab File ID** : V11191227A01  
**Sample No** : WG1325770-2  
**Channel** :

**Lab Number** : L1961284  
**Project Number** : 2182207  
**Calibration Date** : 12/27/19 05:20  
**Init. Calib. Date(s)** : 12/20/19 12/20/19  
**Init. Calib. Times** : 04:12 07:34

| Compound                   | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|-------|--------|-------|----------|
| p-Diethylbenzene           | 1.351    | 1.51  | -       | -11.8 | 20     | 121   | 0        |
| n-Butylbenzene             | 2.324    | 2.466 | -       | -6.1  | 20     | 117   | 0        |
| 1,2-Dichlorobenzene        | 1.23     | 1.19  | -       | 3.3   | 20     | 114   | 0        |
| 1,2,4,5-Tetramethylbenzene | 2.03     | 2.299 | -       | -13.3 | 20     | 118   | 0        |
| 1,2-Dibromo-3-chloropropan | 0.088    | 0.084 | -       | 4.5   | 20     | 108   | 0        |
| 1,3,5-Trichlorobenzene     | 0.93     | 0.932 | -       | -0.2  | 20     | 117   | 0        |
| Hexachlorobutadiene        | 0.445    | 0.444 | -       | 0.2   | 20     | 124   | 0        |
| 1,2,4-Trichlorobenzene     | 0.787    | 0.821 | -       | -4.3  | 20     | 119   | 0        |
| Naphthalene                | 1.545    | 1.654 | -       | -7.1  | 20     | 115   | 0        |
| 1,2,3-Trichlorobenzene     | 0.718    | 0.72  | -       | -0.3  | 20     | 115   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : CHARLIE  
 Lab File ID : VC191228A01  
 Sample No : WG1325623-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/28/19 07:27  
 Init. Calib. Date(s) : 12/11/19 12/11/19  
 Init. Calib. Times : 18:15 21:55

| Compound                 | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|--------------------------|----------|--------|---------|--------|--------|-------|----------|
| Fluorobenzene            | 1        | 1      | -       | 0      | 20     | 74    | 0        |
| Dichlorodifluoromethane  | 0.193    | 0.267  | -       | -38.3* | 20     | 106   | 0        |
| Chloromethane            | 0.377    | 0.35   | -       | 7.2    | 20     | 76    | 0        |
| Vinyl chloride           | 0.358    | 0.493  | -       | -37.7* | 20     | 103   | .01      |
| Bromomethane             | 40       | 72.666 | -       | -81.7* | 20     | 128   | .01      |
| Chloroethane             | 0.184    | 0.365  | -       | -98.4* | 20     | 149   | .01      |
| Trichlorofluoromethane   | 0.35     | 0.686  | -       | -96*   | 20     | 138   | .01      |
| Ethyl ether              | 0.174    | 0.288  | -       | -65.5* | 20     | 115   | 0        |
| 1,1-Dichloroethene       | 0.257    | 0.359  | -       | -39.7* | 20     | 104   | .01      |
| Carbon disulfide         | 0.843    | 1.146  | -       | -35.9* | 20     | 105   | 0        |
| Freon-113                | 0.265    | 0.364  | -       | -37.4* | 20     | 102   | 0        |
| Acrolein                 | 0.08     | 0.084  | -       | -5     | 20     | 77    | 0        |
| Methylene chloride       | 0.373    | 0.362  | -       | 2.9    | 20     | 74    | 0        |
| Acetone                  | 0.136    | 0.129  | -       | 5.1    | 20     | 76    | 0        |
| trans-1,2-Dichloroethene | 0.314    | 0.325  | -       | -3.5   | 20     | 76    | 0        |
| Methyl acetate           | 0.372    | 0.325  | -       | 12.6   | 20     | 66    | 0        |
| Methyl tert-butyl ether  | 1.068    | 1.06   | -       | 0.7    | 20     | 72    | 0        |
| tert-Butyl alcohol       | 0.067    | 0.054  | -       | 19.4   | 20     | 63    | 0        |
| Diisopropyl ether        | 1.694    | 1.49   | -       | 12     | 20     | 63    | 0        |
| 1,1-Dichloroethane       | 0.754    | 0.737  | -       | 2.3    | 20     | 72    | 0        |
| Halothane                | 0.248    | 0.246  | -       | 0.8    | 20     | 74    | 0        |
| Acrylonitrile            | 0.161    | 0.151  | -       | 6.2    | 20     | 66    | 0        |
| Ethyl tert-butyl ether   | 1.553    | 1.426  | -       | 8.2    | 20     | 66    | 0        |
| Vinyl acetate            | 1.121    | 1.189  | -       | -6.1   | 20     | 73    | 0        |
| cis-1,2-Dichloroethene   | 0.373    | 0.377  | -       | -1.1   | 20     | 73    | 0        |
| 2,2-Dichloropropane      | 0.481    | 0.517  | -       | -7.5   | 20     | 78    | 0        |
| Bromochloromethane       | 0.176    | 0.189  | -       | -7.4   | 20     | 75    | 0        |
| Cyclohexane              | 0.688    | 0.683  | -       | 0.7    | 20     | 73    | 0        |
| Chloroform               | 0.642    | 0.645  | -       | -0.5   | 20     | 73    | 0        |
| Ethyl acetate            | 0.539    | 0.443  | -       | 17.8   | 20     | 58    | 0        |
| Carbon tetrachloride     | 0.452    | 0.469  | -       | -3.8   | 20     | 76    | 0        |
| Tetrahydrofuran          | 0.169    | 0.14   | -       | 17.2   | 20     | 64    | 0        |
| Dibromofluoromethane     | 0.284    | 0.291  | -       | -2.5   | 20     | 76    | 0        |
| 1,1,1-Trichloroethane    | 0.516    | 0.524  | -       | -1.6   | 20     | 76    | 0        |
| 2-Butanone               | 0.245    | 0.209  | -       | 14.7   | 20     | 66    | 0        |
| 1,1-Dichloropropene      | 0.443    | 0.452  | -       | -2     | 20     | 75    | 0        |
| Benzene                  | 1.375    | 1.36   | -       | 1.1    | 20     | 74    | 0        |
| tert-Amyl methyl ether   | 1.117    | 1.078  | -       | 3.5    | 20     | 69    | 0        |
| 1,2-Dichloroethane-d4    | 0.339    | 0.32   | -       | 5.6    | 20     | 72    | 0        |
| 1,2-Dichloroethane       | 0.631    | 0.602  | -       | 4.6    | 20     | 70    | 0        |
| Methyl cyclohexane       | 0.523    | 0.545  | -       | -4.2   | 20     | 76    | 0        |
| Trichloroethene          | 0.34     | 0.351  | -       | -3.2   | 20     | 75    | 0        |
| Dibromomethane           | 0.236    | 0.251  | -       | -6.4   | 20     | 75    | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : CHARLIE  
 Lab File ID : VC191228A01  
 Sample No : WG1325623-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/28/19 07:27  
 Init. Calib. Date(s) : 12/11/19 12/11/19  
 Init. Calib. Times : 18:15 21:55

| Compound                   | Ave. RRF | RRF      | Min RRF | %D   | Max %D | Area% | Dev(min) |
|----------------------------|----------|----------|---------|------|--------|-------|----------|
| 1,2-Dichloropropane        | 0.449    | 0.437    | -       | 2.7  | 20     | 69    | 0        |
| 2-Chloroethyl vinyl ether  | 0.26     | 0.257    | -       | 1.2  | 20     | 71    | 0        |
| Bromodichloromethane       | 0.512    | 0.53     | -       | -3.5 | 20     | 73    | 0        |
| 1,4-Dioxane                | 0.00401  | 0.00411* | -       | -2.5 | 20     | 75    | 0        |
| cis-1,3-Dichloropropene    | 40       | 38.511   | -       | 3.7  | 20     | 71    | 0        |
| Chlorobenzene-d5           | 1        | 1        | -       | 0    | 20     | 77    | 0        |
| Toluene-d8                 | 1.366    | 1.332    | -       | 2.5  | 20     | 76    | 0        |
| Toluene                    | 1.166    | 1.093    | -       | 6.3  | 20     | 72    | 0        |
| 4-Methyl-2-pentanone       | 0.276    | 0.234    | -       | 15.2 | 20     | 64    | 0        |
| Tetrachloroethene          | 0.448    | 0.423    | -       | 5.6  | 20     | 72    | 0        |
| trans-1,3-Dichloropropene  | 40       | 36.963   | -       | 7.6  | 20     | 72    | 0        |
| Ethyl methacrylate         | 0.708    | 0.634    | -       | 10.5 | 20     | 68    | 0        |
| 1,1,2-Trichloroethane      | 0.388    | 0.384    | -       | 1    | 20     | 74    | 0        |
| Chlorodibromomethane       | 0.525    | 0.522    | -       | 0.6  | 20     | 71    | 0        |
| 1,3-Dichloropropane        | 0.803    | 0.765    | -       | 4.7  | 20     | 71    | 0        |
| 1,2-Dibromoethane          | 0.452    | 0.439    | -       | 2.9  | 20     | 71    | 0        |
| 2-Hexanone                 | 0.491    | 0.397    | -       | 19.1 | 20     | 60    | 0        |
| Chlorobenzene              | 1.373    | 1.275    | -       | 7.1  | 20     | 71    | 0        |
| Ethylbenzene               | 2.255    | 2.156    | -       | 4.4  | 20     | 74    | 0        |
| 1,1,1,2-Tetrachloroethane  | 0.488    | 0.48     | -       | 1.6  | 20     | 72    | 0        |
| p/m Xylene                 | 0.847    | 0.829    | -       | 2.1  | 20     | 73    | 0        |
| o Xylene                   | 0.828    | 0.829    | -       | -0.1 | 20     | 73    | 0        |
| Styrene                    | 1.385    | 1.418    | -       | -2.4 | 20     | 72    | 0        |
| 1,4-Dichlorobenzene-d4     | 1        | 1        | -       | 0    | 20     | 79    | 0        |
| Bromoform                  | 0.65     | 0.633    | -       | 2.6  | 20     | 70    | 0        |
| Isopropylbenzene           | 4.017    | 3.851    | -       | 4.1  | 20     | 74    | 0        |
| 4-Bromofluorobenzene       | 1.039    | 0.998    | -       | 3.9  | 20     | 76    | 0        |
| Bromobenzene               | 1.068    | 1.007    | -       | 5.7  | 20     | 73    | 0        |
| n-Propylbenzene            | 4.963    | 4.814    | -       | 3    | 20     | 76    | 0        |
| 1,4-Dichlorobutane         | 2.131    | 1.841    | -       | 13.6 | 20     | 67    | 0        |
| 1,1,2,2-Tetrachloroethane  | 1.244    | 1.166    | -       | 6.3  | 20     | 72    | 0        |
| 4-Ethyltoluene             | 4.281    | 4.034    | -       | 5.8  | 20     | 73    | 0        |
| 2-Chlorotoluene            | 3.137    | 2.884    | -       | 8.1  | 20     | 74    | 0        |
| 1,3,5-Trimethylbenzene     | 3.522    | 3.381    | -       | 4    | 20     | 74    | 0        |
| 1,2,3-Trichloropropane     | 1.004    | 0.905    | -       | 9.9  | 20     | 71    | 0        |
| trans-1,4-Dichloro-2-buten | 0.437    | 0.429    | -       | 1.8  | 20     | 73    | 0        |
| 4-Chlorotoluene            | 3.24     | 2.986    | -       | 7.8  | 20     | 72    | 0        |
| tert-Butylbenzene          | 2.877    | 2.721    | -       | 5.4  | 20     | 73    | 0        |
| 1,2,4-Trimethylbenzene     | 3.529    | 3.375    | -       | 4.4  | 20     | 72    | 0        |
| sec-Butylbenzene           | 4.397    | 4.223    | -       | 4    | 20     | 74    | 0        |
| p-Isopropyltoluene         | 3.705    | 3.549    | -       | 4.2  | 20     | 73    | 0        |
| 1,3-Dichlorobenzene        | 2.07     | 1.953    | -       | 5.7  | 20     | 73    | 0        |
| 1,4-Dichlorobenzene        | 2.17     | 1.989    | -       | 8.3  | 20     | 72    | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

**Client** : LaBella Associates, P.C.  
**Project Name** : FORMER WOLLENSACK OPTICAL  
**Instrument ID** : CHARLIE  
**Lab File ID** : VC191228A01  
**Sample No** : WG1325623-2  
**Channel** :

**Lab Number** : L1961284  
**Project Number** : 2182207  
**Calibration Date** : 12/28/19 07:27  
**Init. Calib. Date(s)** : 12/11/19 12/11/19  
**Init. Calib. Times** : 18:15 21:55

| Compound                   | Ave. RRF | RRF   | Min RRF | %D   | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|------|--------|-------|----------|
| p-Diethylbenzene           | 2.296    | 2.191 | -       | 4.6  | 20     | 72    | 0        |
| n-Butylbenzene             | 3.586    | 3.542 | -       | 1.2  | 20     | 76    | 0        |
| 1,2-Dichlorobenzene        | 2.002    | 1.872 | -       | 6.5  | 20     | 72    | 0        |
| 1,2,4,5-Tetramethylbenzene | 3.807    | 3.628 | -       | 4.7  | 20     | 72    | 0        |
| 1,2-Dibromo-3-chloropropan | 0.196    | 0.171 | -       | 12.8 | 20     | 68    | 0        |
| 1,3,5-Trichlorobenzene     | 1.506    | 1.419 | -       | 5.8  | 20     | 73    | 0        |
| Hexachlorobutadiene        | 0.611    | 0.529 | -       | 13.4 | 20     | 68    | 0        |
| 1,2,4-Trichlorobenzene     | 1.39     | 1.271 | -       | 8.6  | 20     | 71    | 0        |
| Naphthalene                | 3.665    | 3.258 | -       | 11.1 | 20     | 70    | 0        |
| 1,2,3-Trichlorobenzene     | 1.348    | 1.193 | -       | 11.5 | 20     | 71    | 0        |

\* Value outside of QC limits.





# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Lab File ID : V11191230A01  
 Sample No : WG1325794-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/30/19 05:40  
 Init. Calib. Date(s) : 12/20/19 12/20/19  
 Init. Calib. Times : 04:12 07:34

| Compound                 | Ave. RRF | RRF    | Min RRF | %D   | Max %D | Area% | Dev(min) |
|--------------------------|----------|--------|---------|------|--------|-------|----------|
| Fluorobenzene            | 1        | 1      | -       | 0    | 20     | 131   | 0        |
| Dichlorodifluoromethane  | 0.232    | 0.193  | -       | 16.8 | 20     | 113   | 0        |
| Chloromethane            | 0.322    | 0.266  | -       | 17.4 | 20     | 114   | 0        |
| Vinyl chloride           | 0.294    | 0.258  | -       | 12.2 | 20     | 118   | 0        |
| Bromomethane             | 40       | 39.6   | -       | 1    | 20     | 123   | 0        |
| Chloroethane             | 0.173    | 0.15   | -       | 13.3 | 20     | 118   | 0        |
| Trichlorofluoromethane   | 0.349    | 0.337  | -       | 3.4  | 20     | 132   | 0        |
| Ethyl ether              | 0.144    | 0.136  | -       | 5.6  | 20     | 123   | 0        |
| 1,1-Dichloroethene       | 0.204    | 0.209  | -       | -2.5 | 20     | 139   | 0        |
| Carbon disulfide         | 0.837    | 0.709  | -       | 15.3 | 20     | 127   | 0        |
| Freon-113                | 0.214    | 0.219  | -       | -2.3 | 20     | 136   | 0        |
| Acrolein                 | 0.037    | 0.037* | -       | 0    | 20     | 121   | 0        |
| Methylene chloride       | 0.286    | 0.246  | -       | 14   | 20     | 122   | 0        |
| Acetone                  | 0.065    | 0.055* | -       | 15.4 | 20     | 116   | 0        |
| trans-1,2-Dichloroethene | 0.236    | 0.238  | -       | -0.8 | 20     | 133   | 0        |
| Methyl acetate           | 0.173    | 0.144  | -       | 16.8 | 20     | 106   | 0        |
| Methyl tert-butyl ether  | 0.654    | 0.641  | -       | 2    | 20     | 124   | 0        |
| tert-Butyl alcohol       | 0.022    | 0.022* | -       | 0    | 20     | 119   | 0        |
| Diisopropyl ether        | 0.925    | 0.854  | -       | 7.7  | 20     | 115   | 0        |
| 1,1-Dichloroethane       | 0.498    | 0.458  | -       | 8    | 20     | 121   | 0        |
| Halothane                | 0.176    | 0.178  | -       | -1.1 | 20     | 136   | 0        |
| Acrylonitrile            | 0.069    | 0.065  | -       | 5.8  | 20     | 116   | 0        |
| Ethyl tert-butyl ether   | 0.785    | 0.777  | -       | 1    | 20     | 122   | 0        |
| Vinyl acetate            | 0.616    | 0.571  | -       | 7.3  | 20     | 110   | 0        |
| cis-1,2-Dichloroethene   | 0.26     | 0.261  | -       | -0.4 | 20     | 130   | 0        |
| 2,2-Dichloropropane      | 0.367    | 0.372  | -       | -1.4 | 20     | 135   | 0        |
| Bromochloromethane       | 0.116    | 0.114  | -       | 1.7  | 20     | 127   | 0        |
| Cyclohexane              | 0.406    | 0.428  | -       | -5.4 | 20     | 132   | 0        |
| Chloroform               | 0.462    | 0.429  | -       | 7.1  | 20     | 124   | 0        |
| Ethyl acetate            | 0.218    | 0.196  | -       | 10.1 | 20     | 109   | 0        |
| Carbon tetrachloride     | 0.315    | 0.316  | -       | -0.3 | 20     | 133   | 0        |
| Tetrahydrofuran          | 0.077    | 0.072  | -       | 6.5  | 20     | 109   | 0        |
| Dibromofluoromethane     | 0.266    | 0.26   | -       | 2.3  | 20     | 130   | 0        |
| 1,1,1-Trichloroethane    | 0.372    | 0.366  | -       | 1.6  | 20     | 133   | 0        |
| 2-Butanone               | 0.1      | 0.087* | -       | 13   | 20     | 112   | 0        |
| 1,1-Dichloropropene      | 0.32     | 0.334  | -       | -4.4 | 20     | 135   | 0        |
| Benzene                  | 1.024    | 0.991  | -       | 3.2  | 20     | 128   | 0        |
| tert-Amyl methyl ether   | 0.655    | 0.677  | -       | -3.4 | 20     | 127   | 0        |
| 1,2-Dichloroethane-d4    | 0.284    | 0.247  | -       | 13   | 20     | 115   | 0        |
| 1,2-Dichloroethane       | 0.351    | 0.302  | -       | 14   | 20     | 112   | 0        |
| Methyl cyclohexane       | 0.382    | 0.413  | -       | -8.1 | 20     | 138   | 0        |
| Trichloroethene          | 0.248    | 0.245  | -       | 1.2  | 20     | 132   | 0        |
| Dibromomethane           | 0.145    | 0.137  | -       | 5.5  | 20     | 121   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : VOA111  
 Lab File ID : V11191230A01  
 Sample No : WG1325794-2  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/30/19 05:40  
 Init. Calib. Date(s) : 12/20/19 12/20/19  
 Init. Calib. Times : 04:12 07:34

| Compound                   | Ave. RRF | RRF      | Min RRF | %D     | Max %D | Area% | Dev(min) |
|----------------------------|----------|----------|---------|--------|--------|-------|----------|
| 1,2-Dichloropropane        | 0.282    | 0.263    | -       | 6.7    | 20     | 120   | 0        |
| 2-Chloroethyl vinyl ether  | 0.115    | 0.103    | -       | 10.4   | 20     | 117   | 0        |
| Bromodichloromethane       | 0.362    | 0.332    | -       | 8.3    | 20     | 120   | 0        |
| 1,4-Dioxane                | 0.00191  | 0.00247* | -       | -29.3* | 20     | 161   | 0        |
| cis-1,3-Dichloropropene    | 0.41     | 0.419    | -       | -2.2   | 20     | 125   | 0        |
| Chlorobenzene-d5           | 1        | 1        | -       | 0      | 20     | 149   | 0        |
| Toluene-d8                 | 1.395    | 1.3      | -       | 6.8    | 20     | 138   | 0        |
| Toluene                    | 0.81     | 0.721    | -       | 11     | 20     | 132   | 0        |
| 4-Methyl-2-pentanone       | 0.103    | 0.092*   | -       | 10.7   | 20     | 122   | 0        |
| Tetrachloroethene          | 0.303    | 0.295    | -       | 2.6    | 20     | 146   | 0        |
| trans-1,3-Dichloropropene  | 0.484    | 0.429    | -       | 11.4   | 20     | 123   | 0        |
| Ethyl methacrylate         | 0.372    | 0.338    | -       | 9.1    | 20     | 124   | 0        |
| 1,1,2-Trichloroethane      | 0.242    | 0.201    | -       | 16.9   | 20     | 118   | 0        |
| Chlorodibromomethane       | 0.313    | 0.271    | -       | 13.4   | 20     | 124   | 0        |
| 1,3-Dichloropropane        | 0.498    | 0.417    | -       | 16.3   | 20     | 120   | 0        |
| 1,2-Dibromoethane          | 0.255    | 0.224    | -       | 12.2   | 20     | 125   | 0        |
| 2-Hexanone                 | 0.182    | 0.157    | -       | 13.7   | 20     | 115   | 0        |
| Chlorobenzene              | 0.878    | 0.778    | -       | 11.4   | 20     | 132   | 0        |
| Ethylbenzene               | 1.456    | 1.359    | -       | 6.7    | 20     | 132   | 0        |
| 1,1,1,2-Tetrachloroethane  | 0.319    | 0.275    | -       | 13.8   | 20     | 128   | 0        |
| p/m Xylene                 | 0.522    | 0.516    | -       | 1.1    | 20     | 134   | 0        |
| o Xylene                   | 0.504    | 0.499    | -       | 1      | 20     | 132   | 0        |
| Styrene                    | 0.844    | 0.828    | -       | 1.9    | 20     | 126   | 0        |
| 1,4-Dichlorobenzene-d4     | 1        | 1        | -       | 0      | 20     | 149   | 0        |
| Bromoform                  | 0.371    | 0.321    | -       | 13.5   | 20     | 123   | 0        |
| Isopropylbenzene           | 2.555    | 2.457    | -       | 3.8    | 20     | 134   | 0        |
| 4-Bromofluorobenzene       | 1.032    | 1.044    | -       | -1.2   | 20     | 151   | 0        |
| Bromobenzene               | 0.691    | 0.605    | -       | 12.4   | 20     | 131   | 0        |
| n-Propylbenzene            | 3.309    | 3.018    | -       | 8.8    | 20     | 130   | 0        |
| 1,4-Dichlorobutane         | 1        | 0.774    | -       | 22.6*  | 20     | 110   | 0        |
| 1,1,2,2-Tetrachloroethane  | 0.71     | 0.548    | -       | 22.8*  | 20     | 115   | 0        |
| 4-Ethyltoluene             | 2.637    | 2.523    | -       | 4.3    | 20     | 134   | 0        |
| 2-Chlorotoluene            | 2.384    | 2.056    | -       | 13.8   | 20     | 126   | 0        |
| 1,3,5-Trimethylbenzene     | 2.213    | 2.062    | -       | 6.8    | 20     | 131   | 0        |
| 1,2,3-Trichloropropane     | 0.557    | 0.43     | -       | 22.8*  | 20     | 113   | 0        |
| trans-1,4-Dichloro-2-buten | 0.191    | 0.153    | -       | 19.9   | 20     | 109   | 0        |
| 4-Chlorotoluene            | 2.128    | 1.877    | -       | 11.8   | 20     | 127   | 0        |
| tert-Butylbenzene          | 1.777    | 1.716    | -       | 3.4    | 20     | 135   | 0        |
| 1,2,4-Trimethylbenzene     | 2.172    | 2.056    | -       | 5.3    | 20     | 129   | 0        |
| sec-Butylbenzene           | 2.771    | 2.595    | -       | 6.4    | 20     | 130   | 0        |
| p-Isopropyltoluene         | 2.219    | 2.177    | -       | 1.9    | 20     | 133   | 0        |
| 1,3-Dichlorobenzene        | 1.344    | 1.154    | -       | 14.1   | 20     | 128   | 0        |
| 1,4-Dichlorobenzene        | 1.37     | 1.17     | -       | 14.6   | 20     | 128   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Volatiles

**Client** : LaBella Associates, P.C.  
**Project Name** : FORMER WOLLENSACK OPTICAL  
**Instrument ID** : VOA111  
**Lab File ID** : V11191230A01  
**Sample No** : WG1325794-2  
**Channel** :

**Lab Number** : L1961284  
**Project Number** : 2182207  
**Calibration Date** : 12/30/19 05:40  
**Init. Calib. Date(s)** : 12/20/19 12/20/19  
**Init. Calib. Times** : 04:12 07:34

| Compound                   | Ave. RRF | RRF   | Min RRF | %D   | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|------|--------|-------|----------|
| p-Diethylbenzene           | 1.351    | 1.322 | -       | 2.1  | 20     | 134   | 0        |
| n-Butylbenzene             | 2.324    | 2.108 | -       | 9.3  | 20     | 126   | 0        |
| 1,2-Dichlorobenzene        | 1.23     | 1.039 | -       | 15.5 | 20     | 125   | 0        |
| 1,2,4,5-Tetramethylbenzene | 2.03     | 2.03  | -       | 0    | 20     | 131   | 0        |
| 1,2-Dibromo-3-chloropropan | 0.088    | 0.075 | -       | 14.8 | 20     | 121   | 0        |
| 1,3,5-Trichlorobenzene     | 0.93     | 0.863 | -       | 7.2  | 20     | 136   | 0        |
| Hexachlorobutadiene        | 0.445    | 0.394 | -       | 11.5 | 20     | 138   | 0        |
| 1,2,4-Trichlorobenzene     | 0.787    | 0.751 | -       | 4.6  | 20     | 137   | 0        |
| Naphthalene                | 1.545    | 1.491 | -       | 3.5  | 20     | 130   | 0        |
| 1,2,3-Trichlorobenzene     | 0.718    | 0.649 | -       | 9.6  | 20     | 131   | 0        |

\* Value outside of QC limits.



# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                 | AvgRF    | CCRF   | %Dev   | Area% | Dev(min) |
|-------|--------------------------|----------|--------|--------|-------|----------|
| 1 I   | Fluorobenzene            | 1.000    | 1.000  | 0.0    | 105   | 0.00     |
| 2 TP  | Dichlorodifluoromethane  | 0.232    | 0.202  | 12.9   | 95    | 0.00     |
| 3 TP  | Chloromethane            | 0.322    | 0.267  | 17.1   | 92    | 0.00     |
| 4 TC  | Vinyl chloride           | 0.294    | 0.296  | -0.7   | 109   | 0.00     |
| 5 TP  | Bromomethane             | * 40.000 | 47.565 | -18.9  | 118   | 0.00     |
| 6 TP  | Chloroethane             | 0.173    | 0.198  | -14.5  | 125   | 0.00     |
| 7 TP  | Trichlorofluoromethane   | 0.349    | 0.326  | 6.6    | 102   | 0.00     |
| 8 TP  | Ethyl ether              | 0.144    | 0.139  | 3.5    | 101   | 0.00     |
| 10 TP | 1,1-Dichloroethene       | 0.204    | 0.210  | -2.9   | 112   | 0.00     |
| 11 TP | Carbon disulfide         | 0.837    | 0.730  | 12.8   | 105   | 0.00     |
| 12 TP | Freon-113                | 0.214    | 0.223  | -4.2   | 111   | 0.00     |
| 14 TP | Acrolein                 | 0.037    | 0.037# | 0.0    | 98    | 0.00     |
| 15 TP | Methylene chloride       | 0.286    | 0.261  | 8.7    | 104   | 0.00     |
| 17 TP | Acetone                  | 0.065    | 0.060# | 7.7    | 102   | 0.00     |
| 18 TP | trans-1,2-Dichloroethene | 0.236    | 0.250  | -5.9   | 112   | 0.00     |
| 19 TP | Methyl acetate           | 0.173    | 0.162  | 6.4    | 96    | 0.00     |
| 20 TP | Methyl tert-butyl ether  | 0.654    | 0.681  | -4.1   | 105   | 0.00     |
| 21 TP | tert-Butyl alcohol       | 0.022    | 0.023# | -4.5   | 101   | 0.00     |
| 22 TP | Diisopropyl ether        | 0.925    | 0.990  | -7.0   | 107   | 0.00     |
| 23 TC | 1,1-Dichloroethane       | 0.498    | 0.520  | -4.4   | 110   | 0.00     |
| 24 TP | Halothane                | 0.176    | 0.195  | -10.8  | 119   | 0.00     |
| 25 TP | Acrylonitrile            | 0.069    | 0.073  | -5.8   | 104   | 0.00     |
| 26 TP | Ethyl tert-butyl ether   | 0.785    | 0.888  | -13.1  | 112   | 0.00     |
| 27 TP | Vinyl acetate            | 0.616    | 0.686  | -11.4  | 106   | 0.00     |
| 28 TP | cis-1,2-Dichloroethene   | 0.260    | 0.293  | -12.7  | 117   | 0.00     |
| 29 TP | 2,2-Dichloropropane      | 0.367    | 0.422  | -15.0  | 123   | 0.00     |
| 30 TP | Bromochloromethane       | 0.116    | 0.126  | -8.6   | 112   | 0.00     |
| 31 TP | Cyclohexane              | 0.406    | 0.501  | -23.4# | 124   | 0.00     |
| 32 TC | Chloroform               | 0.462    | 0.494  | -6.9   | 114   | 0.00     |
| 33 TP | Ethyl acetate            | 0.218    | 0.234  | -7.3   | 104   | 0.00     |
| 34 TP | Carbon tetrachloride     | 0.315    | 0.363  | -15.2  | 122   | 0.00     |
| 35 TP | Tetrahydrofuran          | 0.077    | 0.084  | -9.1   | 103   | 0.00     |
| 36 S  | Dibromofluoromethane     | 0.266    | 0.277  | -4.1   | 111   | 0.00     |
| 37 TP | 1,1,1-Trichloroethane    | 0.372    | 0.414  | -11.3  | 121   | 0.00     |
| 39 TP | 2-Butanone               | 0.100    | 0.110  | -10.0  | 114   | 0.00     |
| 40 TP | 1,1-Dichloropropene      | 0.320    | 0.386  | -20.6# | 125   | 0.00     |
| 41 TP | Benzene                  | 1.024    | 1.081  | -5.6   | 112   | 0.00     |
| 42 TP | tert-Amyl methyl ether   | 0.655    | 0.720  | -9.9   | 108   | 0.00     |
| 43 S  | 1,2-Dichloroethane-d4    | 0.284    | 0.274  | 3.5    | 102   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                  | AvgRF   | CCRF     | %Dev  | Area% | Dev(min) |
|-------|---------------------------|---------|----------|-------|-------|----------|
| 44 TP | 1,2-Dichloroethane        | 0.351   | 0.348    | 0.9   | 104   | 0.00     |
| 47 TP | Methyl cyclohexane        | 0.382   | 0.458    | -19.9 | 123   | 0.00     |
| 48 TP | Trichloroethene           | 0.248   | 0.276    | -11.3 | 119   | 0.00     |
| 50 TP | Dibromomethane            | 0.145   | 0.154    | -6.2  | 109   | 0.00     |
| 51 TC | 1,2-Dichloropropane       | 0.282   | 0.305    | -8.2  | 112   | 0.00     |
| 53 TP | 2-Chloroethyl vinyl ether | 0.115   | 0.119    | -3.5  | 108   | 0.00     |
| 54 TP | Bromodichloromethane      | 0.362   | 0.384    | -6.1  | 111   | 0.00     |
| 57 TP | 1,4-Dioxane               | 0.00191 | 0.00221# | -15.7 | 116   | 0.00     |
| 58 TP | cis-1,3-Dichloropropene   | 0.410   | 0.468    | -14.1 | 112   | 0.00     |
| 59 I  | Chlorobenzene-d5          | 1.000   | 1.000    | 0.0   | 115   | 0.00     |
| 60 S  | Toluene-d8                | 1.395   | 1.376    | 1.4   | 112   | 0.00     |
| 61 TC | Toluene                   | 0.810   | 0.837    | -3.3  | 118   | 0.00     |
| 62 TP | 4-Methyl-2-pentanone      | 0.103   | 0.107    | -3.9  | 109   | 0.00     |
| 63 TP | Tetrachloroethene         | 0.303   | 0.331    | -9.2  | 126   | 0.00     |
| 65 TP | trans-1,3-Dichloropropene | 0.484   | 0.503    | -3.9  | 111   | 0.00     |
| 67 TP | Ethyl methacrylate        | 0.372   | 0.386    | -3.8  | 109   | 0.00     |
| 68 TP | 1,1,2-Trichloroethane     | 0.242   | 0.238    | 1.7   | 107   | 0.00     |
| 69 TP | Chlorodibromomethane      | 0.313   | 0.317    | -1.3  | 111   | 0.00     |
| 70 TP | 1,3-Dichloropropane       | 0.498   | 0.474    | 4.8   | 105   | 0.00     |
| 71 TP | 1,2-Dibromoethane         | 0.255   | 0.251    | 1.6   | 107   | 0.00     |
| 72 TP | 2-Hexanone                | 0.182   | 0.178    | 2.2   | 100   | 0.00     |
| 73 TP | Chlorobenzene             | 0.878   | 0.865    | 1.5   | 113   | 0.00     |
| 74 TC | Ethylbenzene              | 1.456   | 1.563    | -7.3  | 116   | 0.00     |
| 75 TP | 1,1,1,2-Tetrachloroethane | 0.319   | 0.313    | 1.9   | 112   | 0.00     |
| 76 TP | p/m Xylene                | 0.522   | 0.590    | -13.0 | 117   | 0.00     |
| 77 TP | o Xylene                  | 0.504   | 0.578    | -14.7 | 117   | 0.00     |
| 78 TP | Styrene                   | 0.844   | 0.976    | -15.6 | 114   | 0.00     |
| 79 I  | 1,4-Dichlorobenzene-d4    | 1.000   | 1.000    | 0.0   | 118   | 0.00     |
| 80 TP | Bromoform                 | 0.371   | 0.358    | 3.5   | 109   | 0.00     |
| 82 TP | Isopropylbenzene          | 2.555   | 2.743    | -7.4  | 119   | 0.00     |
| 83 S  | 4-Bromofluorobenzene      | 1.032   | 1.028    | 0.4   | 118   | 0.00     |
| 84 TP | Bromobenzene              | 0.691   | 0.662    | 4.2   | 114   | 0.00     |
| 85 TP | n-Propylbenzene           | 3.309   | 3.440    | -4.0  | 118   | 0.00     |
| 86 TP | 1,4-Dichlorobutane        | 1.000   | 0.928    | 7.2   | 105   | 0.00     |
| 87 TP | 1,1,2,2-Tetrachloroethane | 0.710   | 0.627    | 11.7  | 105   | 0.00     |
| 88 TP | 4-Ethyltoluene            | 2.637   | 2.819    | -6.9  | 119   | 0.00     |
| 89 TP | 2-Chlorotoluene           | 2.384   | 2.362    | 0.9   | 115   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|        | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|--------|-----------------------------|-------|-------|-------|-------|----------|
| 90 TP  | 1,3,5-Trimethylbenzene      | 2.213 | 2.318 | -4.7  | 117   | 0.00     |
| 91 TP  | 1,2,3-Trichloropropane      | 0.557 | 0.500 | 10.2  | 105   | 0.00     |
| 92 TP  | trans-1,4-Dichloro-2-butene | 0.191 | 0.184 | 3.7   | 105   | 0.00     |
| 93 TP  | 4-Chlorotoluene             | 2.128 | 2.138 | -0.5  | 115   | 0.00     |
| 94 TP  | tert-Butylbenzene           | 1.777 | 1.897 | -6.8  | 119   | 0.00     |
| 97 TP  | 1,2,4-Trimethylbenzene      | 2.172 | 2.317 | -6.7  | 116   | 0.00     |
| 98 TP  | sec-Butylbenzene            | 2.771 | 2.964 | -7.0  | 118   | 0.00     |
| 99 TP  | p-Isopropyltoluene          | 2.219 | 2.468 | -11.2 | 120   | 0.00     |
| 100 TP | 1,3-Dichlorobenzene         | 1.344 | 1.315 | 2.2   | 116   | 0.00     |
| 101 TP | 1,4-Dichlorobenzene         | 1.370 | 1.317 | 3.9   | 115   | 0.00     |
| 102 TP | p-Diethylbenzene            | 1.351 | 1.510 | -11.8 | 121   | 0.00     |
| 103 TP | n-Butylbenzene              | 2.324 | 2.466 | -6.1  | 117   | 0.00     |
| 104 TP | 1,2-Dichlorobenzene         | 1.230 | 1.190 | 3.3   | 114   | 0.00     |
| 105 TP | 1,2,4,5-Tetramethylbenzene  | 2.030 | 2.299 | -13.3 | 118   | 0.00     |
| 106 TP | 1,2-Dibromo-3-chloropropane | 0.088 | 0.084 | 4.5   | 108   | 0.00     |
| 107 TP | 1,3,5-Trichlorobenzene      | 0.930 | 0.932 | -0.2  | 117   | 0.00     |
| 108 TP | Hexachlorobutadiene         | 0.445 | 0.444 | 0.2   | 124   | 0.00     |
| 109 TP | 1,2,4-Trichlorobenzene      | 0.787 | 0.821 | -4.3  | 119   | 0.00     |
| 110 TP | Naphthalene                 | 1.545 | 1.654 | -7.1  | 115   | 0.00     |
| 111 TP | 1,2,3-Trichlorobenzene      | 0.718 | 0.720 | -0.3  | 115   | 0.00     |

\* Evaluation of CC level amount vs concentration.  
 (#) = Out of Range SPCC's out = 4 CCC's out = 0

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.449          | 96   | 272895   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =       | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 221514   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =       | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 120351   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =       | 100.00% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 75496    | 20.783  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 103.92% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 74637    | 19.228  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 96.14%  |          |
| 60) Toluene-d8               | 7.101          | 98   | 304770   | 19.730  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 98.65%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 123688   | 19.925  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.63%  |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 110107   | 34.746  | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 145939   | 33.218  | ug/L    | 99       |
| 4) Vinyl chloride            | 1.700          | 62   | 161626   | 40.255  | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 104599   | 47.565  | ug/L    | 98       |
| 6) Chloroethane              | 2.062          | 64   | 108248   | 45.984  | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 178146   | 37.380  | ug/L    | 99       |
| 8) Ethyl ether               | 2.439          | 74   | 76088    | 38.669  | ug/L    | 72       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 114434   | 41.171  | ug/L    | 90       |
| 11) Carbon disulfide         | 2.628          | 76   | 398247   | 34.880  | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 121847   | 41.803  | ug/L    | 95       |
| 14) Acrolein                 | 2.885          | 56   | 20358    | 40.374  | ug/L    | 97       |
| 15) Methylene chloride       | 3.095          | 84   | 142583   | 36.541  | ug/L    | 73       |
| 17) Acetone                  | 3.132          | 43   | 32778    | 37.025  | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 136251   | 42.281  | ug/L    | 91       |
| 19) Methyl acetate           | 3.242          | 43   | 88336    | 37.378  | ug/L    | # 88     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 371821   | 41.698  | ug/L    | 89       |
| 21) tert-Butyl alcohol       | 3.409          | 59   | 63005    | 205.996 | ug/L    | 96       |
| 22) Diisopropyl ether        | 3.661          | 45   | 540336   | 42.826  | ug/L    | 96       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 284013   | 41.756  | ug/L    | 97       |
| 24) Halothane                | 3.824          | 117  | 106422   | 44.390  | ug/L    | 99       |
| 25) Acrylonitrile            | 3.808          | 53   | 39718    | 42.410  | ug/L    | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 484442   | 45.207   | ug/L   | 96       |
| 27) Vinyl acetate             | 3.991 | 43   | 374455   | 44.534   | ug/L # | 94       |
| 28) cis-1,2-Dichloroethene    | 4.254 | 96   | 159669   | 44.979   | ug/L   | 90       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 230209   | 45.970   | ug/L   | 90       |
| 30) Bromochloromethane        | 4.437 | 128  | 68600    | 43.396   | ug/L   | 80       |
| 31) Cyclohexane               | 4.442 | 56   | 273344   | 49.353   | ug/L   | 80       |
| 32) Chloroform                | 4.511 | 83   | 269540   | 42.775   | ug/L   | 96       |
| 33) Ethyl acetate             | 4.621 | 43   | 127560   | 42.873   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 197897   | 46.021   | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 46068    | 43.847   | ug/L # | 79       |
| 37) 1,1,1-Trichloroethane     | 4.694 | 97   | 225794   | 44.459   | ug/L   | 98       |
| 39) 2-Butanone                | 4.783 | 43   | 60248    | 44.297   | ug/L # | 77       |
| 40) 1,1-Dichloropropene       | 4.815 | 75   | 210550   | 48.151   | ug/L   | 96       |
| 41) Benzene                   | 5.045 | 78   | 590150   | 42.226   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.161 | 73   | 392727   | 43.943   | ug/L   | 93       |
| 44) 1,2-Dichloroethane        | 5.239 | 62   | 189980   | 39.663   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.612 | 83   | 249783   | 47.980   | ug/L # | 77       |
| 48) Trichloroethene           | 5.622 | 95   | 150909   | 44.604   | ug/L   | 93       |
| 50) Dibromomethane            | 6.047 | 93   | 84131    | 42.492   | ug/L   | 97       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 166682   | 43.242   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 64909    | 41.516   | ug/L # | 84       |
| 54) Bromodichloromethane      | 6.225 | 83   | 209720   | 42.445   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.429 | 88   | 60273    | 2311.292 | ug/L # | 83       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 255568   | 45.636   | ug/L # | 88       |
| 61) Toluene                   | 7.158 | 92   | 370947   | 41.363   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 47288    | 41.408   | ug/L # | 82       |
| 63) Tetrachloroethene         | 7.599 | 166  | 146765   | 43.754   | ug/L   | 98       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 222888   | 41.599   | ug/L # | 82       |
| 67) Ethyl methacrylate        | 7.840 | 69   | 171127   | 41.508   | ug/L   | 91       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 105307   | 39.247   | ug/L   | 98       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 140372   | 40.481   | ug/L   | 99       |
| 70) 1,3-Dichloropropane       | 8.128 | 76   | 210163   | 38.100   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.280 | 107  | 111178   | 39.297   | ug/L   | 97       |
| 72) 2-Hexanone                | 8.590 | 43   | 78853    | 39.071   | ug/L   | 94       |
| 73) Chlorobenzene             | 8.930 | 112  | 383040   | 39.374   | ug/L   | 96       |
| 74) Ethylbenzene              | 8.983 | 91   | 692490   | 42.936   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.020 | 131  | 138748   | 39.331   | ug/L   | 99       |
| 76) p/m Xylene                | 9.172 | 106  | 522899   | 90.468   | ug/L   | 94       |
| 77) o Xylene                  | 9.706 | 106  | 511739   | 91.669   | ug/L   | 95       |
| 78) Styrene                   | 9.780 | 104  | 864644   | 92.526   | ug/L   | 97       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 80)  | Bromoform                 | 9.796  | 173  | 86072    | 38.506 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 660294   | 42.947 | ug/L  | 98       |
| 84)  | Bromobenzene              | 10.577 | 156  | 159268   | 38.285 | ug/L  | 100      |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 827948   | 41.579 | ug/L  | 97       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 223287   | 37.105 | ug/L  | 99       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 150851   | 35.319 | ug/L  | 99       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 678635   | 42.774 | ug/L  | 98       |
| 89)  | 2-Chlorotoluene           | 10.807 | 91   | 568640   | 39.646 | ug/L  | 95       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 557956   | 41.895 | ug/L  | 98       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 120239   | 35.843 | ug/L  | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.939 | 53   | 44311    | 38.513 | ug/L  | 85       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 514732   | 40.193 | ug/L  | 95       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 456508   | 42.681 | ug/L  | 96       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 557775   | 42.682 | ug/L  | 98       |
| 98)  | sec-Butylbenzene          | 11.442 | 105  | 713428   | 42.793 | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 11.610 | 119  | 594154   | 44.494 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 316421   | 39.114 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.756 | 146  | 317105   | 38.458 | ug/L  | 99       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 363370   | 44.684 | ug/L  | 98       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 593593   | 42.451 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 286432   | 38.688 | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 553319   | 45.285 | ug/L  | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 20222    | 38.082 | ug/L  | 97       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 224317   | 40.067 | ug/L  | 99       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 106899   | 39.902 | ug/L  | 100      |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 197572   | 41.730 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 398123   | 42.828 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.105 | 180  | 173318   | 40.106 | ug/L  | 99       |

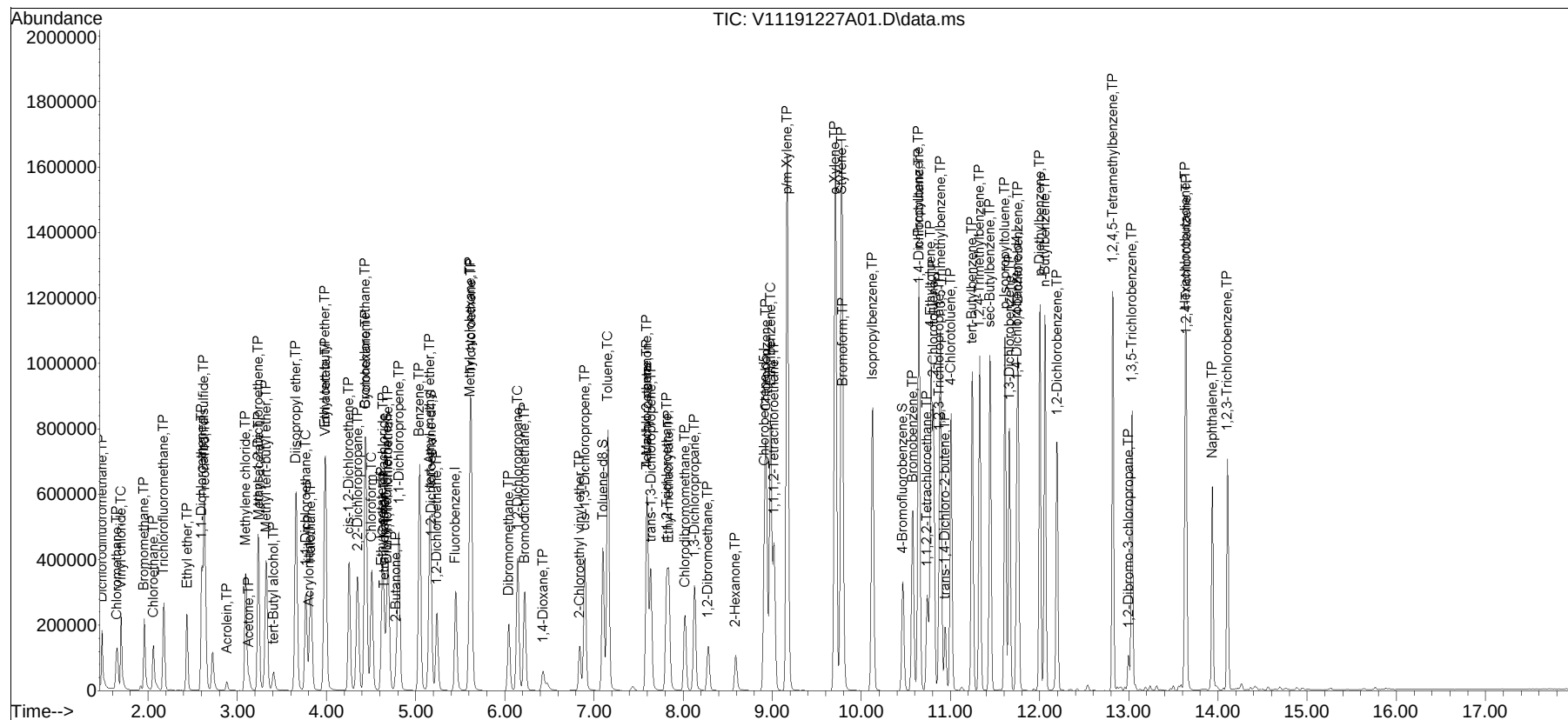
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-2  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•



# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\1Q | Method     | : V111_191220A_8260.m |
| Data File  | : V11191227A01.D              | Operator   | : VOA111:MV           |
| Date Inj'd | : 12/27/2019 5:20 am          | Instrument | : VOA111              |
| Sample     | : WG1325770-2                 | Quant Date | : 12/27/2019 6:25 am  |

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

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                 | AvgRF    | CCRF   | %Dev   | Area% | Dev(min) |
|-------|--------------------------|----------|--------|--------|-------|----------|
| 1 I   | Fluorobenzene            | 1.000    | 1.000  | 0.0    | 105   | 0.00     |
| 2 TP  | Dichlorodifluoromethane  | 0.232    | 0.202  | 12.9   | 95    | 0.00     |
| 3 TP  | Chloromethane            | 0.322    | 0.267  | 17.1   | 92    | 0.00     |
| 4 TC  | Vinyl chloride           | 0.294    | 0.296  | -0.7   | 109   | 0.00     |
| 5 TP  | Bromomethane             | * 40.000 | 47.565 | -18.9  | 118   | 0.00     |
| 6 TP  | Chloroethane             | 0.173    | 0.198  | -14.5  | 125   | 0.00     |
| 7 TP  | Trichlorofluoromethane   | 0.349    | 0.326  | 6.6    | 102   | 0.00     |
| 8 TP  | Ethyl ether              | 0.144    | 0.139  | 3.5    | 101   | 0.00     |
| 10 TP | 1,1-Dichloroethene       | 0.204    | 0.210  | -2.9   | 112   | 0.00     |
| 11 TP | Carbon disulfide         | 0.837    | 0.730  | 12.8   | 105   | 0.00     |
| 12 TP | Freon-113                | 0.214    | 0.223  | -4.2   | 111   | 0.00     |
| 14 TP | Acrolein                 | 0.037    | 0.037# | 0.0    | 98    | 0.00     |
| 15 TP | Methylene chloride       | 0.286    | 0.261  | 8.7    | 104   | 0.00     |
| 17 TP | Acetone                  | 0.065    | 0.060# | 7.7    | 102   | 0.00     |
| 18 TP | trans-1,2-Dichloroethene | 0.236    | 0.250  | -5.9   | 112   | 0.00     |
| 19 TP | Methyl acetate           | 0.173    | 0.162  | 6.4    | 96    | 0.00     |
| 20 TP | Methyl tert-butyl ether  | 0.654    | 0.681  | -4.1   | 105   | 0.00     |
| 21 TP | tert-Butyl alcohol       | 0.022    | 0.023# | -4.5   | 101   | 0.00     |
| 22 TP | Diisopropyl ether        | 0.925    | 0.990  | -7.0   | 107   | 0.00     |
| 23 TC | 1,1-Dichloroethane       | 0.498    | 0.520  | -4.4   | 110   | 0.00     |
| 24 TP | Halothane                | 0.176    | 0.195  | -10.8  | 119   | 0.00     |
| 25 TP | Acrylonitrile            | 0.069    | 0.073  | -5.8   | 104   | 0.00     |
| 26 TP | Ethyl tert-butyl ether   | 0.785    | 0.888  | -13.1  | 112   | 0.00     |
| 27 TP | Vinyl acetate            | 0.616    | 0.686  | -11.4  | 106   | 0.00     |
| 28 TP | cis-1,2-Dichloroethene   | 0.260    | 0.293  | -12.7  | 117   | 0.00     |
| 29 TP | 2,2-Dichloropropane      | 0.367    | 0.422  | -15.0  | 123   | 0.00     |
| 30 TP | Bromochloromethane       | 0.116    | 0.126  | -8.6   | 112   | 0.00     |
| 31 TP | Cyclohexane              | 0.406    | 0.501  | -23.4# | 124   | 0.00     |
| 32 TC | Chloroform               | 0.462    | 0.494  | -6.9   | 114   | 0.00     |
| 33 TP | Ethyl acetate            | 0.218    | 0.234  | -7.3   | 104   | 0.00     |
| 34 TP | Carbon tetrachloride     | 0.315    | 0.363  | -15.2  | 122   | 0.00     |
| 35 TP | Tetrahydrofuran          | 0.077    | 0.084  | -9.1   | 103   | 0.00     |
| 36 S  | Dibromofluoromethane     | 0.266    | 0.277  | -4.1   | 111   | 0.00     |
| 37 TP | 1,1,1-Trichloroethane    | 0.372    | 0.414  | -11.3  | 121   | 0.00     |
| 39 TP | 2-Butanone               | 0.100    | 0.110  | -10.0  | 114   | 0.00     |
| 40 TP | 1,1-Dichloropropene      | 0.320    | 0.386  | -20.6# | 125   | 0.00     |
| 41 TP | Benzene                  | 1.024    | 1.081  | -5.6   | 112   | 0.00     |
| 42 TP | tert-Amyl methyl ether   | 0.655    | 0.720  | -9.9   | 108   | 0.00     |
| 43 S  | 1,2-Dichloroethane-d4    | 0.284    | 0.274  | 3.5    | 102   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                  | AvgRF   | CCRF     | %Dev  | Area% | Dev(min) |
|-------|---------------------------|---------|----------|-------|-------|----------|
| 44 TP | 1,2-Dichloroethane        | 0.351   | 0.348    | 0.9   | 104   | 0.00     |
| 47 TP | Methyl cyclohexane        | 0.382   | 0.458    | -19.9 | 123   | 0.00     |
| 48 TP | Trichloroethene           | 0.248   | 0.276    | -11.3 | 119   | 0.00     |
| 50 TP | Dibromomethane            | 0.145   | 0.154    | -6.2  | 109   | 0.00     |
| 51 TC | 1,2-Dichloropropane       | 0.282   | 0.305    | -8.2  | 112   | 0.00     |
| 53 TP | 2-Chloroethyl vinyl ether | 0.115   | 0.119    | -3.5  | 108   | 0.00     |
| 54 TP | Bromodichloromethane      | 0.362   | 0.384    | -6.1  | 111   | 0.00     |
| 57 TP | 1,4-Dioxane               | 0.00191 | 0.00221# | -15.7 | 116   | 0.00     |
| 58 TP | cis-1,3-Dichloropropene   | 0.410   | 0.468    | -14.1 | 112   | 0.00     |
| 59 I  | Chlorobenzene-d5          | 1.000   | 1.000    | 0.0   | 115   | 0.00     |
| 60 S  | Toluene-d8                | 1.395   | 1.376    | 1.4   | 112   | 0.00     |
| 61 TC | Toluene                   | 0.810   | 0.837    | -3.3  | 118   | 0.00     |
| 62 TP | 4-Methyl-2-pentanone      | 0.103   | 0.107    | -3.9  | 109   | 0.00     |
| 63 TP | Tetrachloroethene         | 0.303   | 0.331    | -9.2  | 126   | 0.00     |
| 65 TP | trans-1,3-Dichloropropene | 0.484   | 0.503    | -3.9  | 111   | 0.00     |
| 67 TP | Ethyl methacrylate        | 0.372   | 0.386    | -3.8  | 109   | 0.00     |
| 68 TP | 1,1,2-Trichloroethane     | 0.242   | 0.238    | 1.7   | 107   | 0.00     |
| 69 TP | Chlorodibromomethane      | 0.313   | 0.317    | -1.3  | 111   | 0.00     |
| 70 TP | 1,3-Dichloropropane       | 0.498   | 0.474    | 4.8   | 105   | 0.00     |
| 71 TP | 1,2-Dibromoethane         | 0.255   | 0.251    | 1.6   | 107   | 0.00     |
| 72 TP | 2-Hexanone                | 0.182   | 0.178    | 2.2   | 100   | 0.00     |
| 73 TP | Chlorobenzene             | 0.878   | 0.865    | 1.5   | 113   | 0.00     |
| 74 TC | Ethylbenzene              | 1.456   | 1.563    | -7.3  | 116   | 0.00     |
| 75 TP | 1,1,1,2-Tetrachloroethane | 0.319   | 0.313    | 1.9   | 112   | 0.00     |
| 76 TP | p/m Xylene                | 0.522   | 0.590    | -13.0 | 117   | 0.00     |
| 77 TP | o Xylene                  | 0.504   | 0.578    | -14.7 | 117   | 0.00     |
| 78 TP | Styrene                   | 0.844   | 0.976    | -15.6 | 114   | 0.00     |
| 79 I  | 1,4-Dichlorobenzene-d4    | 1.000   | 1.000    | 0.0   | 118   | 0.00     |
| 80 TP | Bromoform                 | 0.371   | 0.358    | 3.5   | 109   | 0.00     |
| 82 TP | Isopropylbenzene          | 2.555   | 2.743    | -7.4  | 119   | 0.00     |
| 83 S  | 4-Bromofluorobenzene      | 1.032   | 1.028    | 0.4   | 118   | 0.00     |
| 84 TP | Bromobenzene              | 0.691   | 0.662    | 4.2   | 114   | 0.00     |
| 85 TP | n-Propylbenzene           | 3.309   | 3.440    | -4.0  | 118   | 0.00     |
| 86 TP | 1,4-Dichlorobutane        | 1.000   | 0.928    | 7.2   | 105   | 0.00     |
| 87 TP | 1,1,2,2-Tetrachloroethane | 0.710   | 0.627    | 11.7  | 105   | 0.00     |
| 88 TP | 4-Ethyltoluene            | 2.637   | 2.819    | -6.9  | 119   | 0.00     |
| 89 TP | 2-Chlorotoluene           | 2.384   | 2.362    | 0.9   | 115   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|        | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|--------|-----------------------------|-------|-------|-------|-------|----------|
| 90 TP  | 1,3,5-Trimethylbenzene      | 2.213 | 2.318 | -4.7  | 117   | 0.00     |
| 91 TP  | 1,2,3-Trichloropropane      | 0.557 | 0.500 | 10.2  | 105   | 0.00     |
| 92 TP  | trans-1,4-Dichloro-2-butene | 0.191 | 0.184 | 3.7   | 105   | 0.00     |
| 93 TP  | 4-Chlorotoluene             | 2.128 | 2.138 | -0.5  | 115   | 0.00     |
| 94 TP  | tert-Butylbenzene           | 1.777 | 1.897 | -6.8  | 119   | 0.00     |
| 97 TP  | 1,2,4-Trimethylbenzene      | 2.172 | 2.317 | -6.7  | 116   | 0.00     |
| 98 TP  | sec-Butylbenzene            | 2.771 | 2.964 | -7.0  | 118   | 0.00     |
| 99 TP  | p-Isopropyltoluene          | 2.219 | 2.468 | -11.2 | 120   | 0.00     |
| 100 TP | 1,3-Dichlorobenzene         | 1.344 | 1.315 | 2.2   | 116   | 0.00     |
| 101 TP | 1,4-Dichlorobenzene         | 1.370 | 1.317 | 3.9   | 115   | 0.00     |
| 102 TP | p-Diethylbenzene            | 1.351 | 1.510 | -11.8 | 121   | 0.00     |
| 103 TP | n-Butylbenzene              | 2.324 | 2.466 | -6.1  | 117   | 0.00     |
| 104 TP | 1,2-Dichlorobenzene         | 1.230 | 1.190 | 3.3   | 114   | 0.00     |
| 105 TP | 1,2,4,5-Tetramethylbenzene  | 2.030 | 2.299 | -13.3 | 118   | 0.00     |
| 106 TP | 1,2-Dibromo-3-chloropropane | 0.088 | 0.084 | 4.5   | 108   | 0.00     |
| 107 TP | 1,3,5-Trichlorobenzene      | 0.930 | 0.932 | -0.2  | 117   | 0.00     |
| 108 TP | Hexachlorobutadiene         | 0.445 | 0.444 | 0.2   | 124   | 0.00     |
| 109 TP | 1,2,4-Trichlorobenzene      | 0.787 | 0.821 | -4.3  | 119   | 0.00     |
| 110 TP | Naphthalene                 | 1.545 | 1.654 | -7.1  | 115   | 0.00     |
| 111 TP | 1,2,3-Trichlorobenzene      | 0.718 | 0.720 | -0.3  | 115   | 0.00     |

\* Evaluation of CC level amount vs concentration.  
 (#) = Out of Range SPCC's out = 4 CCC's out = 0

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.449          | 96   | 272895   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =       | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 221514   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =       | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 120351   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =       | 100.00% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 75496    | 20.783  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 103.92% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 74637    | 19.228  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 96.14%  |          |
| 60) Toluene-d8               | 7.101          | 98   | 304770   | 19.730  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 98.65%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 123688   | 19.925  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.63%  |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 110107   | 34.746  | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 145939   | 33.218  | ug/L    | 99       |
| 4) Vinyl chloride            | 1.700          | 62   | 161626   | 40.255  | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 104599   | 47.565  | ug/L    | 98       |
| 6) Chloroethane              | 2.062          | 64   | 108248   | 45.984  | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 178146   | 37.380  | ug/L    | 99       |
| 8) Ethyl ether               | 2.439          | 74   | 76088    | 38.669  | ug/L    | 72       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 114434   | 41.171  | ug/L    | 90       |
| 11) Carbon disulfide         | 2.628          | 76   | 398247   | 34.880  | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 121847   | 41.803  | ug/L    | 95       |
| 14) Acrolein                 | 2.885          | 56   | 20358    | 40.374  | ug/L    | 97       |
| 15) Methylene chloride       | 3.095          | 84   | 142583   | 36.541  | ug/L    | 73       |
| 17) Acetone                  | 3.132          | 43   | 32778    | 37.025  | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 136251   | 42.281  | ug/L    | 91       |
| 19) Methyl acetate           | 3.242          | 43   | 88336    | 37.378  | ug/L    | # 88     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 371821   | 41.698  | ug/L    | 89       |
| 21) tert-Butyl alcohol       | 3.409          | 59   | 63005    | 205.996 | ug/L    | 96       |
| 22) Diisopropyl ether        | 3.661          | 45   | 540336   | 42.826  | ug/L    | 96       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 284013   | 41.756  | ug/L    | 97       |
| 24) Halothane                | 3.824          | 117  | 106422   | 44.390  | ug/L    | 99       |
| 25) Acrylonitrile            | 3.808          | 53   | 39718    | 42.410  | ug/L    | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 484442   | 45.207   | ug/L   | 96       |
| 27) Vinyl acetate             | 3.991 | 43   | 374455   | 44.534   | ug/L # | 94       |
| 28) cis-1,2-Dichloroethene    | 4.254 | 96   | 159669   | 44.979   | ug/L   | 90       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 230209   | 45.970   | ug/L   | 90       |
| 30) Bromochloromethane        | 4.437 | 128  | 68600    | 43.396   | ug/L   | 80       |
| 31) Cyclohexane               | 4.442 | 56   | 273344   | 49.353   | ug/L   | 80       |
| 32) Chloroform                | 4.511 | 83   | 269540   | 42.775   | ug/L   | 96       |
| 33) Ethyl acetate             | 4.621 | 43   | 127560   | 42.873   | ug/L # | 96       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 197897   | 46.021   | ug/L   | 98       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 46068    | 43.847   | ug/L # | 79       |
| 37) 1,1,1-Trichloroethane     | 4.694 | 97   | 225794   | 44.459   | ug/L   | 98       |
| 39) 2-Butanone                | 4.783 | 43   | 60248    | 44.297   | ug/L # | 77       |
| 40) 1,1-Dichloropropene       | 4.815 | 75   | 210550   | 48.151   | ug/L   | 96       |
| 41) Benzene                   | 5.045 | 78   | 590150   | 42.226   | ug/L   | 92       |
| 42) tert-Amyl methyl ether    | 5.161 | 73   | 392727   | 43.943   | ug/L   | 93       |
| 44) 1,2-Dichloroethane        | 5.239 | 62   | 189980   | 39.663   | ug/L   | 98       |
| 47) Methyl cyclohexane        | 5.612 | 83   | 249783   | 47.980   | ug/L # | 77       |
| 48) Trichloroethene           | 5.622 | 95   | 150909   | 44.604   | ug/L   | 93       |
| 50) Dibromomethane            | 6.047 | 93   | 84131    | 42.492   | ug/L   | 97       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 166682   | 43.242   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.844 | 63   | 64909    | 41.516   | ug/L # | 84       |
| 54) Bromodichloromethane      | 6.225 | 83   | 209720   | 42.445   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.429 | 88   | 60273    | 2311.292 | ug/L # | 83       |
| 58) cis-1,3-Dichloropropene   | 6.901 | 75   | 255568   | 45.636   | ug/L # | 88       |
| 61) Toluene                   | 7.158 | 92   | 370947   | 41.363   | ug/L   | 98       |
| 62) 4-Methyl-2-pentanone      | 7.593 | 58   | 47288    | 41.408   | ug/L # | 82       |
| 63) Tetrachloroethene         | 7.599 | 166  | 146765   | 43.754   | ug/L   | 98       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 222888   | 41.599   | ug/L # | 82       |
| 67) Ethyl methacrylate        | 7.840 | 69   | 171127   | 41.508   | ug/L   | 91       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 105307   | 39.247   | ug/L   | 98       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 140372   | 40.481   | ug/L   | 99       |
| 70) 1,3-Dichloropropane       | 8.128 | 76   | 210163   | 38.100   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 8.280 | 107  | 111178   | 39.297   | ug/L   | 97       |
| 72) 2-Hexanone                | 8.590 | 43   | 78853    | 39.071   | ug/L   | 94       |
| 73) Chlorobenzene             | 8.930 | 112  | 383040   | 39.374   | ug/L   | 96       |
| 74) Ethylbenzene              | 8.983 | 91   | 692490   | 42.936   | ug/L   | 98       |
| 75) 1,1,1,2-Tetrachloroethane | 9.020 | 131  | 138748   | 39.331   | ug/L   | 99       |
| 76) p/m Xylene                | 9.172 | 106  | 522899   | 90.468   | ug/L   | 94       |
| 77) o Xylene                  | 9.706 | 106  | 511739   | 91.669   | ug/L   | 95       |
| 78) Styrene                   | 9.780 | 104  | 864644   | 92.526   | ug/L   | 97       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 80)  | Bromoform                 | 9.796  | 173  | 86072    | 38.506 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 660294   | 42.947 | ug/L  | 98       |
| 84)  | Bromobenzene              | 10.577 | 156  | 159268   | 38.285 | ug/L  | 100      |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 827948   | 41.579 | ug/L  | 97       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 223287   | 37.105 | ug/L  | 99       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 150851   | 35.319 | ug/L  | 99       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 678635   | 42.774 | ug/L  | 98       |
| 89)  | 2-Chlorotoluene           | 10.807 | 91   | 568640   | 39.646 | ug/L  | 95       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 557956   | 41.895 | ug/L  | 98       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 120239   | 35.843 | ug/L  | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.939 | 53   | 44311    | 38.513 | ug/L  | 85       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 514732   | 40.193 | ug/L  | 95       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 456508   | 42.681 | ug/L  | 96       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 557775   | 42.682 | ug/L  | 98       |
| 98)  | sec-Butylbenzene          | 11.442 | 105  | 713428   | 42.793 | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 11.610 | 119  | 594154   | 44.494 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 316421   | 39.114 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.756 | 146  | 317105   | 38.458 | ug/L  | 99       |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 363370   | 44.684 | ug/L  | 98       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 593593   | 42.451 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 286432   | 38.688 | ug/L  | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 553319   | 45.285 | ug/L  | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 20222    | 38.082 | ug/L  | 97       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 224317   | 40.067 | ug/L  | 99       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 106899   | 39.902 | ug/L  | 100      |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 197572   | 41.730 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 398123   | 42.828 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.105 | 180  | 173318   | 40.106 | ug/L  | 99       |

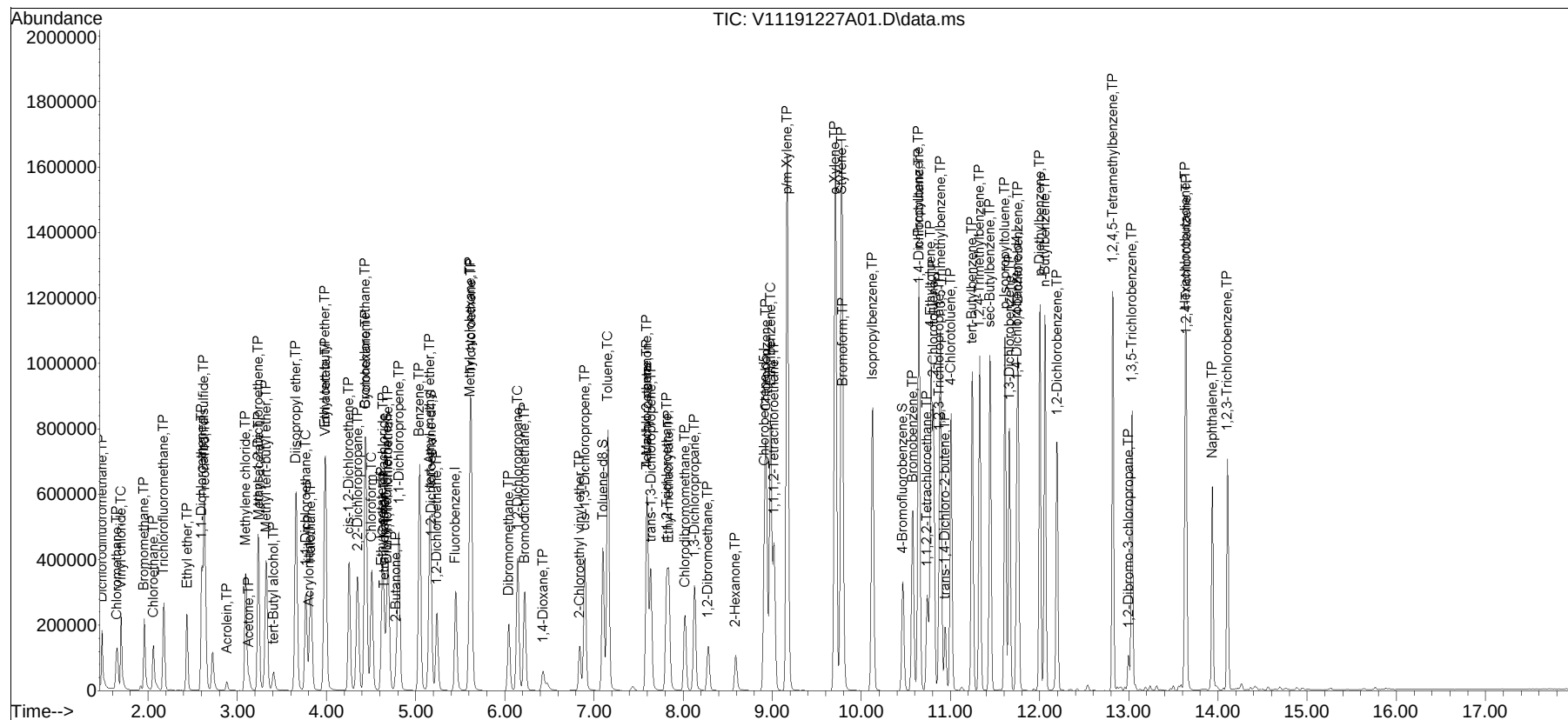
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•



# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\1Q | Method     | : V111_191220A_8260.m |
| Data File  | : V11191227A01.D              | Operator   | : VOA111:MV           |
| Date Inj'd | : 12/27/2019 5:20 am          | Instrument | : VOA111              |
| Sample     | : WG1325768-2                 | Quant Date | : 12/27/2019 6:25 am  |

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

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-2  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

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

|       | Compound                 | AvgRF    | CCRF   | %Dev   | Area% | Dev(min) |
|-------|--------------------------|----------|--------|--------|-------|----------|
| 1 I   | Fluorobenzene            | 1.000    | 1.000  | 0.0    | 74    | 0.00     |
| 2 TP  | Dichlorodifluoromethane  | 0.193    | 0.267  | -38.3# | 106   | 0.00     |
| 3 TP  | Chloromethane            | 0.377    | 0.350  | 7.2    | 76    | 0.00     |
| 4 TC  | Vinyl chloride           | 0.358    | 0.493  | -37.7# | 103   | 0.01     |
| 5 TP  | Bromomethane             | * 40.000 | 72.666 | -81.7# | 128   | 0.01     |
| 6 TP  | Chloroethane             | 0.184    | 0.365  | -98.4# | 149   | 0.01     |
| 7 TP  | Trichlorofluoromethane   | 0.350    | 0.686  | -96.0# | 138   | 0.01     |
| 8 TP  | Ethyl ether              | 0.174    | 0.288  | -65.5# | 115   | 0.00     |
| 10 TC | 1,1-Dichloroethene       | 0.257    | 0.359  | -39.7# | 104   | 0.01     |
| 11 TP | Carbon disulfide         | 0.843    | 1.146  | -35.9# | 105   | 0.00     |
| 12 TP | Freon-113                | 0.265    | 0.364  | -37.4# | 102   | 0.00     |
| 14 TP | Acrolein                 | 0.080    | 0.084  | -5.0   | 77    | 0.00     |
| 15 TP | Methylene chloride       | 0.373    | 0.362  | 2.9    | 74    | 0.00     |
| 17 TP | Acetone                  | 0.136    | 0.129  | 5.1    | 76    | 0.00     |
| 18 TP | trans-1,2-Dichloroethene | 0.314    | 0.325  | -3.5   | 76    | 0.00     |
| 19 TP | Methyl acetate           | 0.372    | 0.325  | 12.6   | 66    | 0.00     |
| 20 TP | Methyl tert-butyl ether  | 1.068    | 1.060  | 0.7    | 72    | 0.00     |
| 21 TP | tert-Butyl alcohol       | 0.067    | 0.054  | 19.4   | 63    | 0.00     |
| 22 TP | Diisopropyl ether        | 1.694    | 1.490  | 12.0   | 63    | 0.00     |
| 23 TP | 1,1-Dichloroethane       | 0.754    | 0.737  | 2.3    | 72    | 0.00     |
| 24 TP | Halothane                | 0.248    | 0.246  | 0.8    | 74    | 0.00     |
| 25 TP | Acrylonitrile            | 0.161    | 0.151  | 6.2    | 66    | 0.00     |
| 26 TP | Ethyl tert-butyl ether   | 1.553    | 1.426  | 8.2    | 66    | 0.00     |
| 27 TP | Vinyl acetate            | 1.121    | 1.189  | -6.1   | 73    | 0.00     |
| 28 TP | cis-1,2-Dichloroethene   | 0.373    | 0.377  | -1.1   | 73    | 0.00     |
| 29 TP | 2,2-Dichloropropane      | 0.481    | 0.517  | -7.5   | 78    | 0.00     |
| 30 TP | Bromochloromethane       | 0.176    | 0.189  | -7.4   | 75    | 0.00     |
| 31 TP | Cyclohexane              | 0.688    | 0.683  | 0.7    | 73    | 0.00     |
| 32 TC | Chloroform               | 0.642    | 0.645  | -0.5   | 73    | 0.00     |
| 33 TP | Ethyl acetate            | 0.539    | 0.443  | 17.8   | 58    | 0.00     |
| 34 TP | Carbon tetrachloride     | 0.452    | 0.469  | -3.8   | 76    | 0.00     |
| 35 TP | Tetrahydrofuran          | 0.169    | 0.140  | 17.2   | 64    | 0.00     |
| 36 S  | Dibromofluoromethane     | 0.284    | 0.291  | -2.5   | 76    | 0.00     |
| 37 TP | 1,1,1-Trichloroethane    | 0.516    | 0.524  | -1.6   | 76    | 0.00     |
| 39 TP | 2-Butanone               | 0.245    | 0.209  | 14.7   | 66    | 0.00     |
| 40 TP | 1,1-Dichloropropene      | 0.443    | 0.452  | -2.0   | 75    | 0.00     |
| 41 TP | Benzene                  | 1.375    | 1.360  | 1.1    | 74    | 0.00     |
| 42 TP | tert-Amyl methyl ether   | 1.117    | 1.078  | 3.5    | 69    | 0.00     |
| 43 S  | 1,2-Dichloroethane-d4    | 0.339    | 0.320  | 5.6    | 72    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-2  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

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

|       | Compound                  | AvgRF    | CCRF     | %Dev | Area% | Dev(min) |
|-------|---------------------------|----------|----------|------|-------|----------|
| 44 TP | 1,2-Dichloroethane        | 0.631    | 0.602    | 4.6  | 70    | 0.00     |
| 47 TP | Methyl cyclohexane        | 0.523    | 0.545    | -4.2 | 76    | 0.00     |
| 48 TP | Trichloroethene           | 0.340    | 0.351    | -3.2 | 75    | 0.00     |
| 50 TP | Dibromomethane            | 0.236    | 0.251    | -6.4 | 75    | 0.00     |
| 51 TC | 1,2-Dichloropropane       | 0.449    | 0.437    | 2.7  | 69    | 0.00     |
| 53 TP | 2-Chloroethyl vinyl ether | 0.260    | 0.257    | 1.2  | 71    | 0.00     |
| 54 TP | Bromodichloromethane      | 0.512    | 0.530    | -3.5 | 73    | 0.00     |
| 57 TP | 1,4-Dioxane               | 0.00401  | 0.00411# | -2.5 | 75    | 0.00     |
| 58 TP | cis-1,3-Dichloropropene   | * 40.000 | 38.511   | 3.7  | 71    | 0.00     |
| 59 I  | Chlorobenzene-d5          | 1.000    | 1.000    | 0.0  | 77    | 0.00     |
| 60 S  | Toluene-d8                | 1.366    | 1.332    | 2.5  | 76    | 0.00     |
| 61 TC | Toluene                   | 1.166    | 1.093    | 6.3  | 72    | 0.00     |
| 62 TP | 4-Methyl-2-pentanone      | 0.276    | 0.234    | 15.2 | 64    | 0.00     |
| 63 TP | Tetrachloroethene         | 0.448    | 0.423    | 5.6  | 72    | 0.00     |
| 65 TP | trans-1,3-Dichloropropene | * 40.000 | 36.963   | 7.6  | 72    | 0.00     |
| 67 TP | Ethyl methacrylate        | 0.708    | 0.634    | 10.5 | 68    | 0.00     |
| 68 TP | 1,1,2-Trichloroethane     | 0.388    | 0.384    | 1.0  | 74    | 0.00     |
| 69 TP | Chlorodibromomethane      | 0.525    | 0.522    | 0.6  | 71    | 0.00     |
| 70 TP | 1,3-Dichloropropane       | 0.803    | 0.765    | 4.7  | 71    | 0.00     |
| 71 TP | 1,2-Dibromoethane         | 0.452    | 0.439    | 2.9  | 71    | 0.00     |
| 72 TP | 2-Hexanone                | 0.491    | 0.397    | 19.1 | 60    | 0.00     |
| 73 TP | Chlorobenzene             | 1.373    | 1.275    | 7.1  | 71    | 0.00     |
| 74 TC | Ethylbenzene              | 2.255    | 2.156    | 4.4  | 74    | 0.00     |
| 75 TP | 1,1,1,2-Tetrachloroethane | 0.488    | 0.480    | 1.6  | 72    | 0.00     |
| 76 TP | p/m Xylene                | 0.847    | 0.829    | 2.1  | 73    | 0.00     |
| 77 TP | o Xylene                  | 0.828    | 0.829    | -0.1 | 73    | 0.00     |
| 78 TP | Styrene                   | 1.385    | 1.418    | -2.4 | 72    | 0.00     |
| 79 I  | 1,4-Dichlorobenzene-d4    | 1.000    | 1.000    | 0.0  | 79    | 0.00     |
| 80 TP | Bromoform                 | 0.650    | 0.633    | 2.6  | 70    | 0.00     |
| 82 TP | Isopropylbenzene          | 4.017    | 3.851    | 4.1  | 74    | 0.00     |
| 83 S  | 4-Bromofluorobenzene      | 1.039    | 0.998    | 3.9  | 76    | 0.00     |
| 84 TP | Bromobenzene              | 1.068    | 1.007    | 5.7  | 73    | 0.00     |
| 85 TP | n-Propylbenzene           | 4.963    | 4.814    | 3.0  | 76    | 0.00     |
| 86 TP | 1,4-Dichlorobutane        | 2.131    | 1.841    | 13.6 | 67    | 0.00     |
| 87 TP | 1,1,2,2-Tetrachloroethane | 1.244    | 1.166    | 6.3  | 72    | 0.00     |
| 88 TP | 4-Ethyltoluene            | 4.281    | 4.034    | 5.8  | 73    | 0.00     |
| 89 TP | 2-Chlorotoluene           | 3.137    | 2.884    | 8.1  | 74    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-2  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

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

|        | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|--------|-----------------------------|-------|-------|------|-------|----------|
| 90 TP  | 1,3,5-Trimethylbenzene      | 3.522 | 3.381 | 4.0  | 74    | 0.00     |
| 91 TP  | 1,2,3-Trichloropropane      | 1.004 | 0.905 | 9.9  | 71    | 0.00     |
| 92 TP  | trans-1,4-Dichloro-2-butene | 0.437 | 0.429 | 1.8  | 73    | 0.00     |
| 93 TP  | 4-Chlorotoluene             | 3.240 | 2.986 | 7.8  | 72    | 0.00     |
| 94 TP  | tert-Butylbenzene           | 2.877 | 2.721 | 5.4  | 73    | 0.00     |
| 97 TP  | 1,2,4-Trimethylbenzene      | 3.529 | 3.375 | 4.4  | 72    | 0.00     |
| 98 TP  | sec-Butylbenzene            | 4.397 | 4.223 | 4.0  | 74    | 0.00     |
| 99 TP  | p-Isopropyltoluene          | 3.705 | 3.549 | 4.2  | 73    | 0.00     |
| 100 TP | 1,3-Dichlorobenzene         | 2.070 | 1.953 | 5.7  | 73    | 0.00     |
| 101 TP | 1,4-Dichlorobenzene         | 2.170 | 1.989 | 8.3  | 72    | 0.00     |
| 102 TP | p-Diethylbenzene            | 2.296 | 2.191 | 4.6  | 72    | 0.00     |
| 103 TP | n-Butylbenzene              | 3.586 | 3.542 | 1.2  | 76    | 0.00     |
| 104 TP | 1,2-Dichlorobenzene         | 2.002 | 1.872 | 6.5  | 72    | 0.00     |
| 105 TP | 1,2,4,5-Tetramethylbenzene  | 3.807 | 3.628 | 4.7  | 72    | 0.00     |
| 106 TP | 1,2-Dibromo-3-chloropropane | 0.196 | 0.171 | 12.8 | 68    | 0.00     |
| 107 TP | 1,3,5-Trichlorobenzene      | 1.506 | 1.419 | 5.8  | 73    | 0.00     |
| 108 TP | Hexachlorobutadiene         | 0.611 | 0.529 | 13.4 | 68    | 0.00     |
| 109 TP | 1,2,4-Trichlorobenzene      | 1.390 | 1.271 | 8.6  | 71    | 0.00     |
| 110 TP | Naphthalene                 | 3.665 | 3.258 | 11.1 | 70    | 0.00     |
| 111 TP | 1,2,3-Trichlorobenzene      | 1.348 | 1.193 | 11.5 | 71    | 0.00     |

\* Evaluation of CC level amount vs concentration.  
 (#) = Out of Range SPCC's out = 1 CCC's out = 2

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-2  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.211          | 96   | 92781      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 92781      |                |      | Recovery = | 100.00% |       |          |
| 59) Chlorobenzene-d5         | 9.760          | 117  | 71520      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 71520      |                |      | Recovery = | 100.00% |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.408         | 152  | 38760      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 38760      |                |      | Recovery = | 100.00% |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.398          | 113  | 26955      | 20.481  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.41% |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.928          | 65   | 29693      | 18.908  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 94.54%  |       |          |
| 60) Toluene-d8               | 7.910          | 98   | 95292      | 19.507  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.54%  |       |          |
| 83) 4-Bromofluorobenzene     | 11.223         | 95   | 38677      | 19.211  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 96.05%  |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.728          | 85   | 49458      | 55.277  | ug/L  | # 96     |
| 3) Chloromethane             | 1.933          | 50   | 65007      | 37.216  | ug/L  | 99       |
| 4) Vinyl chloride            | 2.006          | 62   | 91470      | 55.088  | ug/L  | 95       |
| 5) Bromomethane              | 2.331          | 94   | 41077M1    | 72.666  | ug/L  |          |
| 6) Chloroethane              | 2.452          | 64   | 67704      | 79.199  | ug/L  | 94       |
| 7) Trichlorofluoromethane    | 2.593          | 101  | 127252     | 78.390  | ug/L  | 99       |
| 8) Ethyl ether               | 2.908          | 74   | 53452      | 66.146  | ug/L  | # 47     |
| 10) 1,1-Dichloroethene       | 3.102          | 96   | 66592      | 55.888  | ug/L  | # 36     |
| 11) Carbon disulfide         | 3.128          | 76   | 212649     | 54.366  | ug/L  | 100      |
| 12) Freon-113                | 3.133          | 101  | 67458      | 54.818  | ug/L  | 79       |
| 14) Acrolein                 | 3.437          | 56   | 15550      | 42.154  | ug/L  | 92       |
| 15) Methylene chloride       | 3.673          | 84   | 67187      | 38.797  | ug/L  | # 59     |
| 17) Acetone                  | 3.726          | 43   | 23953      | 37.925  | ug/L  | 99       |
| 18) trans-1,2-Dichloroethene | 3.830          | 96   | 60297      | 41.337  | ug/L  | # 74     |
| 19) Methyl acetate           | 3.841          | 43   | 60278      | 34.934  | ug/L  | # 89     |
| 20) Methyl tert-butyl ether  | 3.930          | 73   | 196754     | 39.701  | ug/L  | # 83     |
| 21) tert-Butyl alcohol       | 4.035          | 59   | 50311      | 162.387 | ug/L  | 99       |
| 22) Diisopropyl ether        | 4.292          | 45   | 276412     | 35.181  | ug/L  | # 90     |
| 23) 1,1-Dichloroethane       | 4.423          | 63   | 136803     | 39.109  | ug/L  | 95       |
| 24) Halothane                | 4.475          | 117  | 45695      | 39.694  | ug/L  | 99       |
| 25) Acrylonitrile            | 4.475          | 53   | 27940      | 37.452  | ug/L  | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-2  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 4.643  | 59   | 264603   | 36.739   | ug/L   | 82       |
| 27) Vinyl acetate             | 4.659  | 43   | 220686   | 42.427   | ug/L # | 92       |
| 28) cis-1,2-Dichloroethene    | 4.952  | 96   | 69875    | 40.409   | ug/L # | 72       |
| 29) 2,2-Dichloropropane       | 5.052  | 77   | 95952    | 42.975   | ug/L   | 84       |
| 30) Bromochloromethane        | 5.146  | 128  | 35010    | 42.852   | ug/L # | 57       |
| 31) Cyclohexane               | 5.146  | 56   | 126805   | 39.729   | ug/L # | 64       |
| 32) Chloroform                | 5.220  | 83   | 119605   | 40.168   | ug/L # | 92       |
| 33) Ethyl acetate             | 5.325  | 43   | 82269    | 32.879   | ug/L # | 94       |
| 34) Carbon tetrachloride      | 5.356  | 117  | 86942    | 41.433   | ug/L   | 99       |
| 35) Tetrahydrofuran           | 5.377  | 42   | 26045    | 33.301   | ug/L # | 81       |
| 37) 1,1,1-Trichloroethane     | 5.419  | 97   | 97284    | 40.644   | ug/L   | 88       |
| 39) 2-Butanone                | 5.519  | 43   | 38726M4  | 34.115   | ug/L   |          |
| 40) 1,1-Dichloropropene       | 5.545  | 75   | 83809    | 40.762   | ug/L   | 95       |
| 41) Benzene                   | 5.791  | 78   | 252434   | 39.576   | ug/L # | 90       |
| 42) tert-Amyl methyl ether    | 5.902  | 73   | 200033   | 38.600   | ug/L   | 92       |
| 44) 1,2-Dichloroethane        | 5.996  | 62   | 111723   | 38.189   | ug/L   | 96       |
| 47) Methyl cyclohexane        | 6.379  | 83   | 101171   | 41.738   | ug/L # | 59       |
| 48) Trichloroethene           | 6.394  | 95   | 65068    | 41.276   | ug/L   | 92       |
| 50) Dibromomethane            | 6.840  | 93   | 46551    | 42.587   | ug/L   | 89       |
| 51) 1,2-Dichloropropane       | 6.940  | 63   | 81125    | 38.946   | ug/L # | 94       |
| 53) 2-Chloroethyl vinyl ether | 7.632  | 63   | 47609    | 39.484   | ug/L # | 84       |
| 54) Bromodichloromethane      | 7.013  | 83   | 98307    | 41.419   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 7.228  | 88   | 38114    | 2049.272 | ug/L # | 64       |
| 58) cis-1,3-Dichloropropene   | 7.705  | 75   | 116505   | 38.511   | ug/L # | 83       |
| 61) Toluene                   | 7.967  | 92   | 156321   | 37.484   | ug/L   | 99       |
| 62) 4-Methyl-2-pentanone      | 8.397  | 58   | 33466    | 33.874   | ug/L # | 90       |
| 63) Tetrachloroethene         | 8.423  | 166  | 60491    | 37.747   | ug/L   | 90       |
| 65) trans-1,3-Dichloropropene | 8.455  | 75   | 108171   | 36.963   | ug/L   | 86       |
| 67) Ethyl methacrylate        | 8.633  | 69   | 90631    | 35.812   | ug/L   | 85       |
| 68) 1,1,2-Trichloroethane     | 8.644  | 83   | 54962    | 39.565   | ug/L   | 97       |
| 69) Chlorodibromomethane      | 8.853  | 129  | 74720    | 39.818   | ug/L   | 97       |
| 70) 1,3-Dichloropropane       | 8.963  | 76   | 109403   | 38.080   | ug/L   | 99       |
| 71) 1,2-Dibromoethane         | 9.136  | 107  | 62828    | 38.858   | ug/L   | 100      |
| 72) 2-Hexanone                | 9.409  | 43   | 56826    | 32.362   | ug/L   | 98       |
| 73) Chlorobenzene             | 9.781  | 112  | 182422   | 37.157   | ug/L   | 91       |
| 74) Ethylbenzene              | 9.813  | 91   | 308330   | 38.243   | ug/L   | 97       |
| 75) 1,1,1,2-Tetrachloroethane | 9.865  | 131  | 68602    | 39.332   | ug/L   | 100      |
| 76) p/m Xylene                | 9.996  | 106  | 237153   | 78.299   | ug/L   | 91       |
| 77) o Xylene                  | 10.526 | 106  | 237099   | 80.104   | ug/L   | 92       |
| 78) Styrene                   | 10.589 | 104  | 405605   | 81.875   | ug/L   | 92       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-2  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 80)  | Bromoform                 | 10.625 | 173  | 49051    | 38.960 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.893 | 105  | 298502   | 38.339 | ug/L  | 97       |
| 84)  | Bromobenzene              | 11.333 | 156  | 78077    | 37.724 | ug/L  | 100      |
| 85)  | n-Propylbenzene           | 11.365 | 91   | 373211   | 38.806 | ug/L  | 96       |
| 86)  | 1,4-Dichlorobutane        | 11.386 | 55   | 142679   | 34.554 | ug/L  | 99       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.454 | 83   | 90358    | 37.490 | ug/L  | 99       |
| 88)  | 4-Ethyltoluene            | 11.485 | 105  | 312727   | 37.697 | ug/L  | 97       |
| 89)  | 2-Chlorotoluene           | 11.533 | 91   | 223539   | 36.770 | ug/L  | 94       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.580 | 105  | 262081   | 38.395 | ug/L  | 96       |
| 91)  | 1,2,3-Trichloropropane    | 11.590 | 75   | 70138    | 36.033 | ug/L  | 95       |
| 92)  | trans-1,4-Dichloro-2-b... | 11.643 | 53   | 33281M4  | 39.255 | ug/L  |          |
| 93)  | 4-Chlorotoluene           | 11.711 | 91   | 231438   | 36.854 | ug/L  | 95       |
| 94)  | tert-Butylbenzene         | 11.915 | 119  | 210912   | 37.832 | ug/L  | 94       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 261657   | 38.261 | ug/L  | 97       |
| 98)  | sec-Butylbenzene          | 12.104 | 105  | 327332   | 38.416 | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 275096   | 38.309 | ug/L  | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.329 | 146  | 151373   | 37.733 | ug/L  | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 154195   | 36.665 | ug/L  | 97       |
| 102) | p-Diethylbenzene          | 12.618 | 119  | 169828   | 38.172 | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.676 | 91   | 274612   | 39.509 | ug/L  | 97       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 145138   | 37.413 | ug/L  | 97       |
| 105) | 1,2,4,5-Tetramethylben... | 13.404 | 119  | 281236   | 38.121 | ug/L  | 98       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 13289    | 34.922 | ug/L  | 100      |
| 107) | 1,3,5-Trichlorobenzene    | 13.640 | 180  | 110015   | 37.695 | ug/L  | 95       |
| 108) | Hexachlorobutadiene       | 14.206 | 225  | 41014    | 34.659 | ug/L  | 98       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 98502    | 36.571 | ug/L  | 98       |
| 110) | Naphthalene               | 14.521 | 128  | 252545   | 35.558 | ug/L  | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.694 | 180  | 92514    | 35.413 | ug/L  | 98       |

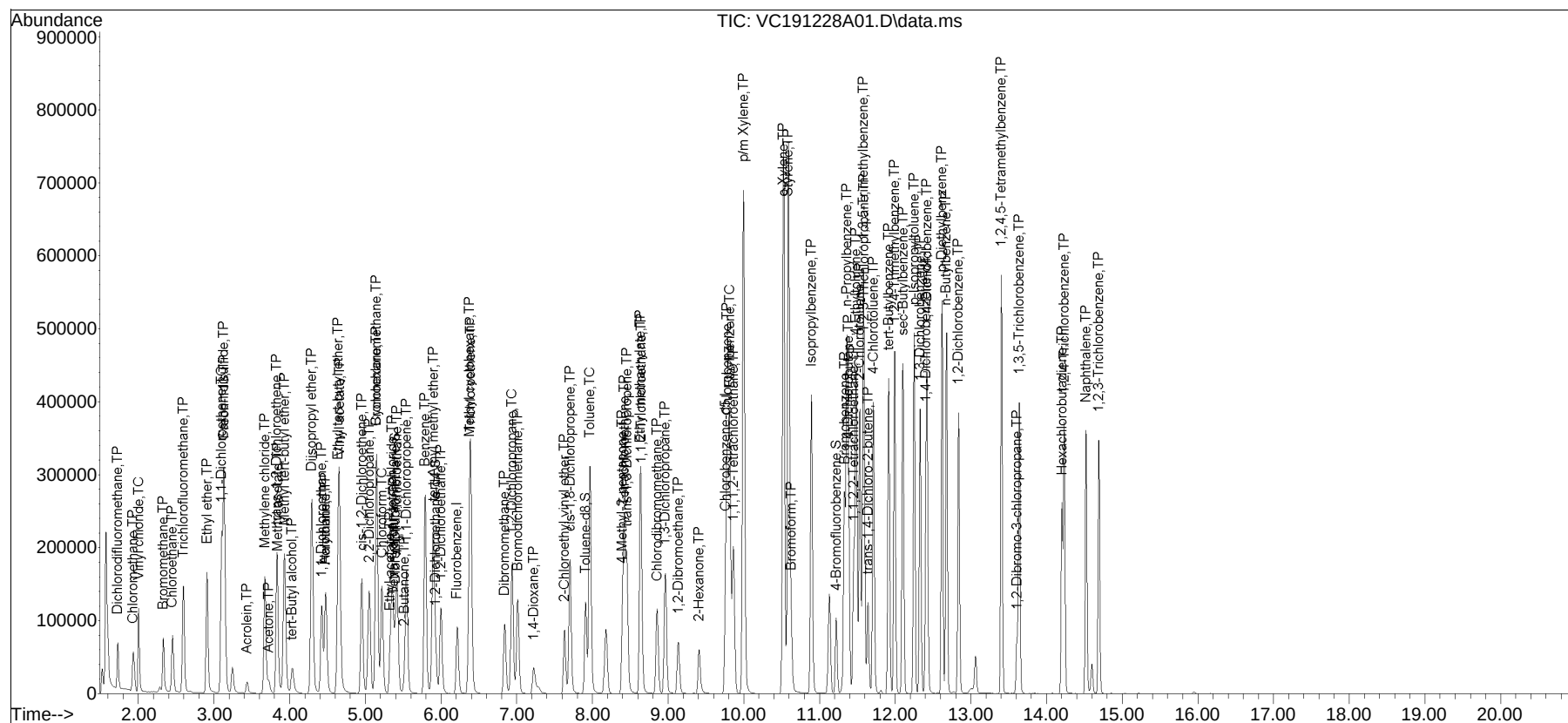
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A01.D  
Acq On : 28 Dec 2019 7:27 am  
Operator : CHARLIE:JAL  
Sample : WG1325623-2  
Misc : WG1325623,ICAL16358  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 12 09:59:41 2019  
Response via : Initial Calibration

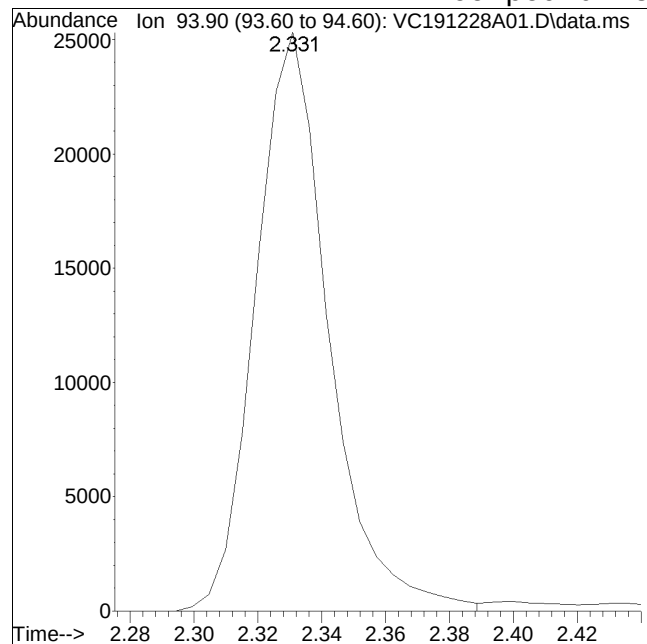
Sub List : 8260-CurveSoil - Megamix plus Diox28A\VC191228A01.D•



# Manual Integration Report

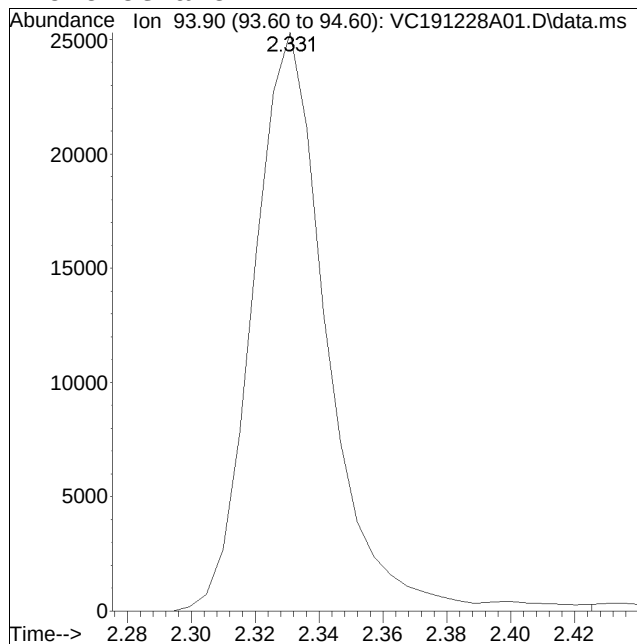
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191228A01.D Operator : CHARLIE:JAL  
Date Inj'd : 12/28/2019 7:27 am Instrument : Charlie  
Sample : WG1325623-2 Quant Date : 12/28/2019 8:06 am

## Compound #5: Bromomethane



Original Peak Response = 40328

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

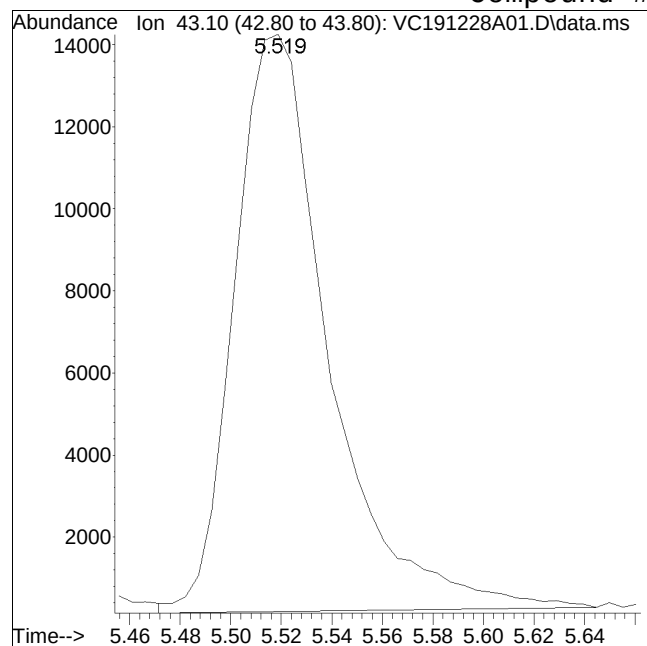


Manual Peak Response = 41077 M1

# Manual Integration Report

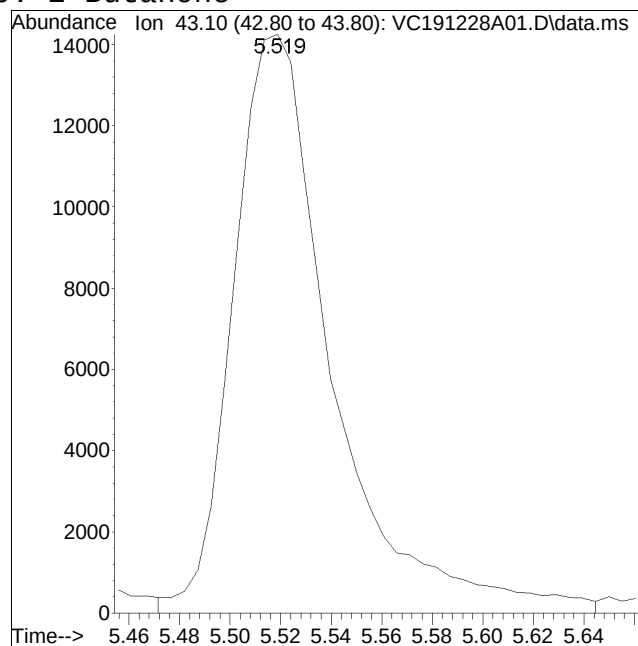
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191228A01.D Operator : CHARLIE:JAL  
Date Inj'd : 12/28/2019 7:27 am Instrument : Charlie  
Sample : WG1325623-2 Quant Date : 12/28/2019 8:06 am

## Compound #39: 2-Butanone



Original Peak Response = 36453

M4 = Poor automated baseline construction.

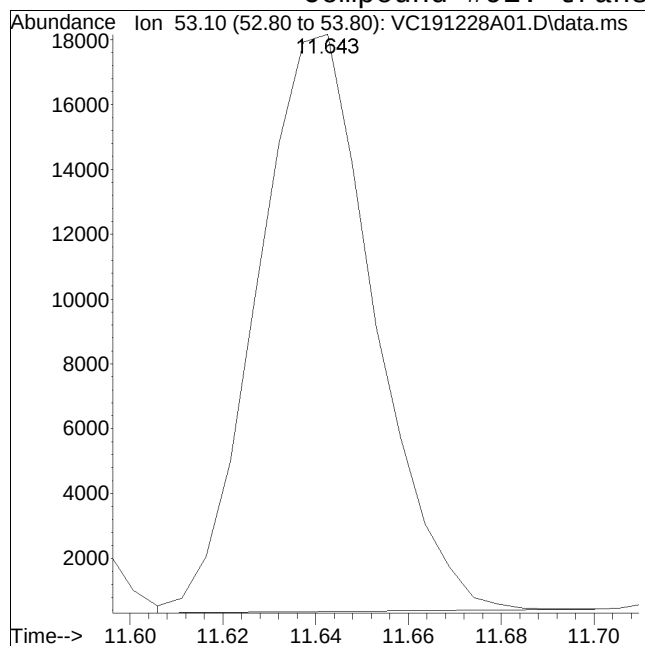


Manual Peak Response = 38726 M4

# Manual Integration Report

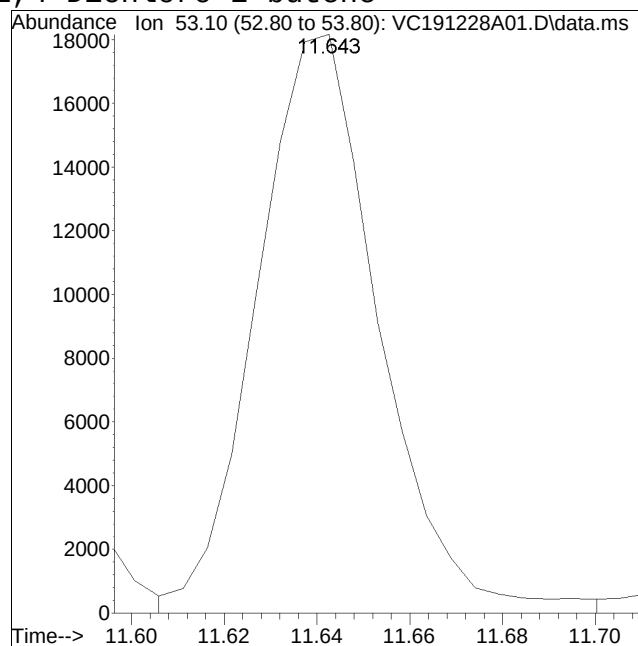
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191228A01.D Operator : CHARLIE:JAL  
Date Inj'd : 12/28/2019 7:27 am Instrument : Charlie  
Sample : WG1325623-2 Quant Date : 12/28/2019 8:06 am

## Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 31149

M4 = Poor automated baseline construction.



Manual Peak Response = 33281 M4

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                 | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|-------|--------------------------|----------|--------|------|-------|----------|
| 1 I   | Fluorobenzene            | 1.000    | 1.000  | 0.0  | 131   | 0.00     |
| 2 TP  | Dichlorodifluoromethane  | 0.232    | 0.193  | 16.8 | 113   | 0.00     |
| 3 TP  | Chloromethane            | 0.322    | 0.266  | 17.4 | 114   | 0.00     |
| 4 TC  | Vinyl chloride           | 0.294    | 0.258  | 12.2 | 118   | 0.00     |
| 5 TP  | Bromomethane             | * 40.000 | 39.600 | 1.0  | 123   | 0.00     |
| 6 TP  | Chloroethane             | 0.173    | 0.150  | 13.3 | 118   | 0.00     |
| 7 TP  | Trichlorofluoromethane   | 0.349    | 0.337  | 3.4  | 132   | 0.00     |
| 8 TP  | Ethyl ether              | 0.144    | 0.136  | 5.6  | 123   | 0.00     |
| 10 TP | 1,1-Dichloroethene       | 0.204    | 0.209  | -2.5 | 139   | 0.00     |
| 11 TP | Carbon disulfide         | 0.837    | 0.709  | 15.3 | 127   | 0.00     |
| 12 TP | Freon-113                | 0.214    | 0.219  | -2.3 | 136   | 0.00     |
| 14 TP | Acrolein                 | 0.037    | 0.037# | 0.0  | 121   | 0.00     |
| 15 TP | Methylene chloride       | 0.286    | 0.246  | 14.0 | 122   | 0.00     |
| 17 TP | Acetone                  | 0.065    | 0.055# | 15.4 | 116   | 0.00     |
| 18 TP | trans-1,2-Dichloroethene | 0.236    | 0.238  | -0.8 | 133   | 0.00     |
| 19 TP | Methyl acetate           | 0.173    | 0.144  | 16.8 | 106   | 0.00     |
| 20 TP | Methyl tert-butyl ether  | 0.654    | 0.641  | 2.0  | 124   | 0.00     |
| 21 TP | tert-Butyl alcohol       | 0.022    | 0.022# | 0.0  | 119   | 0.00     |
| 22 TP | Diisopropyl ether        | 0.925    | 0.854  | 7.7  | 115   | 0.00     |
| 23 TC | 1,1-Dichloroethane       | 0.498    | 0.458  | 8.0  | 121   | 0.00     |
| 24 TP | Halothane                | 0.176    | 0.178  | -1.1 | 136   | 0.00     |
| 25 TP | Acrylonitrile            | 0.069    | 0.065  | 5.8  | 116   | 0.00     |
| 26 TP | Ethyl tert-butyl ether   | 0.785    | 0.777  | 1.0  | 122   | 0.00     |
| 27 TP | Vinyl acetate            | 0.616    | 0.571  | 7.3  | 110   | 0.00     |
| 28 TP | cis-1,2-Dichloroethene   | 0.260    | 0.261  | -0.4 | 130   | 0.00     |
| 29 TP | 2,2-Dichloropropane      | 0.367    | 0.372  | -1.4 | 135   | 0.00     |
| 30 TP | Bromochloromethane       | 0.116    | 0.114  | 1.7  | 127   | 0.00     |
| 31 TP | Cyclohexane              | 0.406    | 0.428  | -5.4 | 132   | 0.00     |
| 32 TC | Chloroform               | 0.462    | 0.429  | 7.1  | 124   | 0.00     |
| 33 TP | Ethyl acetate            | 0.218    | 0.196  | 10.1 | 109   | 0.00     |
| 34 TP | Carbon tetrachloride     | 0.315    | 0.316  | -0.3 | 133   | 0.00     |
| 35 TP | Tetrahydrofuran          | 0.077    | 0.072  | 6.5  | 109   | 0.00     |
| 36 S  | Dibromofluoromethane     | 0.266    | 0.260  | 2.3  | 130   | 0.00     |
| 37 TP | 1,1,1-Trichloroethane    | 0.372    | 0.366  | 1.6  | 133   | 0.00     |
| 39 TP | 2-Butanone               | 0.100    | 0.087# | 13.0 | 112   | 0.00     |
| 40 TP | 1,1-Dichloropropene      | 0.320    | 0.334  | -4.4 | 135   | 0.00     |
| 41 TP | Benzene                  | 1.024    | 0.991  | 3.2  | 128   | 0.00     |
| 42 TP | tert-Amyl methyl ether   | 0.655    | 0.677  | -3.4 | 127   | 0.00     |
| 43 S  | 1,2-Dichloroethane-d4    | 0.284    | 0.247  | 13.0 | 115   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|       | Compound                  | AvgRF   | CCRF     | %Dev   | Area% | Dev(min) |
|-------|---------------------------|---------|----------|--------|-------|----------|
| 44 TP | 1,2-Dichloroethane        | 0.351   | 0.302    | 14.0   | 112   | 0.00     |
| 47 TP | Methyl cyclohexane        | 0.382   | 0.413    | -8.1   | 138   | 0.00     |
| 48 TP | Trichloroethene           | 0.248   | 0.245    | 1.2    | 132   | 0.00     |
| 50 TP | Dibromomethane            | 0.145   | 0.137    | 5.5    | 121   | 0.00     |
| 51 TC | 1,2-Dichloropropane       | 0.282   | 0.263    | 6.7    | 120   | 0.00     |
| 53 TP | 2-Chloroethyl vinyl ether | 0.115   | 0.103    | 10.4   | 117   | 0.00     |
| 54 TP | Bromodichloromethane      | 0.362   | 0.332    | 8.3    | 120   | 0.00     |
| 57 TP | 1,4-Dioxane               | 0.00191 | 0.00247# | -29.3# | 161   | 0.00     |
| 58 TP | cis-1,3-Dichloropropene   | 0.410   | 0.419    | -2.2   | 125   | 0.00     |
| 59 I  | Chlorobenzene-d5          | 1.000   | 1.000    | 0.0    | 149   | 0.00     |
| 60 S  | Toluene-d8                | 1.395   | 1.300    | 6.8    | 138   | 0.00     |
| 61 TC | Toluene                   | 0.810   | 0.721    | 11.0   | 132   | 0.00     |
| 62 TP | 4-Methyl-2-pentanone      | 0.103   | 0.092#   | 10.7   | 122   | 0.00     |
| 63 TP | Tetrachloroethene         | 0.303   | 0.295    | 2.6    | 146   | 0.00     |
| 65 TP | trans-1,3-Dichloropropene | 0.484   | 0.429    | 11.4   | 123   | 0.00     |
| 67 TP | Ethyl methacrylate        | 0.372   | 0.338    | 9.1    | 124   | 0.00     |
| 68 TP | 1,1,2-Trichloroethane     | 0.242   | 0.201    | 16.9   | 118   | 0.00     |
| 69 TP | Chlorodibromomethane      | 0.313   | 0.271    | 13.4   | 124   | 0.00     |
| 70 TP | 1,3-Dichloropropane       | 0.498   | 0.417    | 16.3   | 120   | 0.00     |
| 71 TP | 1,2-Dibromoethane         | 0.255   | 0.224    | 12.2   | 125   | 0.00     |
| 72 TP | 2-Hexanone                | 0.182   | 0.157    | 13.7   | 115   | 0.00     |
| 73 TP | Chlorobenzene             | 0.878   | 0.778    | 11.4   | 132   | 0.00     |
| 74 TC | Ethylbenzene              | 1.456   | 1.359    | 6.7    | 132   | 0.00     |
| 75 TP | 1,1,1,2-Tetrachloroethane | 0.319   | 0.275    | 13.8   | 128   | 0.00     |
| 76 TP | p/m Xylene                | 0.522   | 0.516    | 1.1    | 134   | 0.00     |
| 77 TP | o Xylene                  | 0.504   | 0.499    | 1.0    | 132   | 0.00     |
| 78 TP | Styrene                   | 0.844   | 0.828    | 1.9    | 126   | 0.00     |
| 79 I  | 1,4-Dichlorobenzene-d4    | 1.000   | 1.000    | 0.0    | 149   | 0.00     |
| 80 TP | Bromoform                 | 0.371   | 0.321    | 13.5   | 123   | 0.00     |
| 82 TP | Isopropylbenzene          | 2.555   | 2.457    | 3.8    | 134   | 0.00     |
| 83 S  | 4-Bromofluorobenzene      | 1.032   | 1.044    | -1.2   | 151   | 0.00     |
| 84 TP | Bromobenzene              | 0.691   | 0.605    | 12.4   | 131   | 0.00     |
| 85 TP | n-Propylbenzene           | 3.309   | 3.018    | 8.8    | 130   | 0.00     |
| 86 TP | 1,4-Dichlorobutane        | 1.000   | 0.774    | 22.6#  | 110   | 0.00     |
| 87 TP | 1,1,2,2-Tetrachloroethane | 0.710   | 0.548    | 22.8#  | 115   | 0.00     |
| 88 TP | 4-Ethyltoluene            | 2.637   | 2.523    | 4.3    | 134   | 0.00     |
| 89 TP | 2-Chlorotoluene           | 2.384   | 2.056    | 13.8   | 126   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

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

|        | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|--------|-----------------------------|-------|-------|-------|-------|----------|
| 90 TP  | 1,3,5-Trimethylbenzene      | 2.213 | 2.062 | 6.8   | 131   | 0.00     |
| 91 TP  | 1,2,3-Trichloropropane      | 0.557 | 0.430 | 22.8# | 113   | 0.00     |
| 92 TP  | trans-1,4-Dichloro-2-butene | 0.191 | 0.153 | 19.9  | 109   | 0.00     |
| 93 TP  | 4-Chlorotoluene             | 2.128 | 1.877 | 11.8  | 127   | 0.00     |
| 94 TP  | tert-Butylbenzene           | 1.777 | 1.716 | 3.4   | 135   | 0.00     |
| 97 TP  | 1,2,4-Trimethylbenzene      | 2.172 | 2.056 | 5.3   | 129   | 0.00     |
| 98 TP  | sec-Butylbenzene            | 2.771 | 2.595 | 6.4   | 130   | 0.00     |
| 99 TP  | p-Isopropyltoluene          | 2.219 | 2.177 | 1.9   | 133   | 0.00     |
| 100 TP | 1,3-Dichlorobenzene         | 1.344 | 1.154 | 14.1  | 128   | 0.00     |
| 101 TP | 1,4-Dichlorobenzene         | 1.370 | 1.170 | 14.6  | 128   | 0.00     |
| 102 TP | p-Diethylbenzene            | 1.351 | 1.322 | 2.1   | 134   | 0.00     |
| 103 TP | n-Butylbenzene              | 2.324 | 2.108 | 9.3   | 126   | 0.00     |
| 104 TP | 1,2-Dichlorobenzene         | 1.230 | 1.039 | 15.5  | 125   | 0.00     |
| 105 TP | 1,2,4,5-Tetramethylbenzene  | 2.030 | 2.030 | 0.0   | 131   | 0.00     |
| 106 TP | 1,2-Dibromo-3-chloropropane | 0.088 | 0.075 | 14.8  | 121   | 0.00     |
| 107 TP | 1,3,5-Trichlorobenzene      | 0.930 | 0.863 | 7.2   | 136   | 0.00     |
| 108 TP | Hexachlorobutadiene         | 0.445 | 0.394 | 11.5  | 138   | 0.00     |
| 109 TP | 1,2,4-Trichlorobenzene      | 0.787 | 0.751 | 4.6   | 137   | 0.00     |
| 110 TP | Naphthalene                 | 1.545 | 1.491 | 3.5   | 130   | 0.00     |
| 111 TP | 1,2,3-Trichlorobenzene      | 0.718 | 0.649 | 9.6   | 131   | 0.00     |

\* Evaluation of CC level amount vs concentration.  
 (#) = Out of Range SPCC's out = 6 CCC's out = 0



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.449          | 96   | 340789   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 340789     |                |      | Recovery | =       | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 288898   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 288898     |                |      | Recovery | =       | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 151324   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 151324     |                |      | Recovery | =       | 100.00% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 88703    | 19.554  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 97.77%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 84114    | 17.352  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 86.76%  |          |
| 60) Toluene-d8               | 7.101          | 98   | 375503   | 18.639  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 93.19%  |          |
| 83) 4-Bromofluorobenzene     | 10.462         | 95   | 157943   | 20.235  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 101.18% |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 131834   | 33.314  | ug/L    | 97       |
| 3) Chloromethane             | 1.648          | 50   | 181492   | 33.080  | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 175593   | 35.021  | ug/L    | 96       |
| 5) Bromomethane              | 1.957          | 94   | 109482   | 39.600  | ug/L    | 99       |
| 6) Chloroethane              | 2.062          | 64   | 102241   | 34.780  | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 229603   | 38.579  | ug/L    | 99       |
| 8) Ethyl ether               | 2.440          | 74   | 92639    | 37.701  | ug/L #  | 69       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 142211   | 40.971  | ug/L    | 84       |
| 11) Carbon disulfide         | 2.628          | 76   | 483404   | 33.903  | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 149252   | 41.004  | ug/L    | 100      |
| 14) Acrolein                 | 2.885          | 56   | 25217    | 40.047  | ug/L    | 98       |
| 15) Methylene chloride       | 3.095          | 84   | 167359   | 34.345  | ug/L    | 69       |
| 17) Acetone                  | 3.132          | 43   | 37429    | 33.855  | ug/L #  | 88       |
| 18) trans-1,2-Dichloroethene | 3.237          | 96   | 161958   | 40.245  | ug/L    | 88       |
| 19) Methyl acetate           | 3.242          | 43   | 97967    | 33.195  | ug/L #  | 85       |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 436869   | 39.232  | ug/L    | 85       |
| 21) tert-Butyl alcohol       | 3.410          | 59   | 74532    | 195.136 | ug/L    | 93       |
| 22) Diisopropyl ether        | 3.661          | 45   | 581862   | 36.930  | ug/L #  | 96       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 312229   | 36.759  | ug/L    | 97       |
| 24) Halothane                | 3.824          | 117  | 121593   | 40.614  | ug/L    | 99       |
| 25) Acrylonitrile            | 3.808          | 53   | 44471    | 38.024  | ug/L    | 97       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 26) Ethyl tert-butyl ether    | 3.986 | 59   | 529253   | 39.549   | ug/L   | 95       |
| 27) Vinyl acetate             | 3.992 | 43   | 389122   | 37.058   | ug/L # | 91       |
| 28) cis-1,2-Dichloroethene    | 4.259 | 96   | 177950   | 40.142   | ug/L   | 88       |
| 29) 2,2-Dichloropropane       | 4.353 | 77   | 253433   | 40.525   | ug/L   | 86       |
| 30) Bromochloromethane        | 4.437 | 128  | 77784    | 39.403   | ug/L # | 73       |
| 31) Cyclohexane               | 4.442 | 56   | 291517   | 42.148   | ug/L   | 76       |
| 32) Chloroform                | 4.511 | 83   | 292194   | 37.132   | ug/L   | 94       |
| 33) Ethyl acetate             | 4.621 | 43   | 133824   | 36.017   | ug/L # | 95       |
| 34) Carbon tetrachloride      | 4.636 | 117  | 215039   | 40.045   | ug/L   | 99       |
| 35) Tetrahydrofuran           | 4.652 | 42   | 48742    | 37.149   | ug/L # | 73       |
| 37) 1,1,1-Trichloroethane     | 4.694 | 97   | 249463   | 39.334   | ug/L   | 97       |
| 39) 2-Butanone                | 4.783 | 43   | 59446    | 35.000   | ug/L # | 71       |
| 40) 1,1-Dichloropropene       | 4.815 | 75   | 227373   | 41.639   | ug/L   | 98       |
| 41) Benzene                   | 5.045 | 78   | 675219   | 38.688   | ug/L   | 90       |
| 42) tert-Amyl methyl ether    | 5.161 | 73   | 461537   | 41.353   | ug/L   | 91       |
| 44) 1,2-Dichloroethane        | 5.239 | 62   | 205616   | 34.376   | ug/L   | 97       |
| 47) Methyl cyclohexane        | 5.612 | 83   | 281167   | 43.249   | ug/L # | 73       |
| 48) Trichloroethene           | 5.627 | 95   | 166916   | 39.506   | ug/L   | 96       |
| 50) Dibromomethane            | 6.047 | 93   | 93380    | 37.768   | ug/L   | 99       |
| 51) 1,2-Dichloropropane       | 6.146 | 63   | 179100   | 37.207   | ug/L   | 98       |
| 53) 2-Chloroethyl vinyl ether | 6.839 | 63   | 70365    | 36.039   | ug/L # | 81       |
| 54) Bromodichloromethane      | 6.225 | 83   | 226490   | 36.707   | ug/L   | 99       |
| 57) 1,4-Dioxane               | 6.430 | 88   | 84026    | 2580.214 | ug/L # | 77       |
| 58) cis-1,3-Dichloropropene   | 6.896 | 75   | 285910   | 40.882   | ug/L # | 84       |
| 61) Toluene                   | 7.158 | 92   | 416860   | 35.641   | ug/L   | 99       |
| 62) 4-Methyl-2-pentanone      | 7.594 | 58   | 53036    | 35.609   | ug/L # | 76       |
| 63) Tetrachloroethene         | 7.599 | 166  | 170533   | 38.982   | ug/L   | 98       |
| 65) trans-1,3-Dichloropropene | 7.641 | 75   | 247684   | 35.445   | ug/L # | 79       |
| 67) Ethyl methacrylate        | 7.840 | 69   | 195223   | 36.308   | ug/L   | 92       |
| 68) 1,1,2-Trichloroethane     | 7.819 | 83   | 115935   | 33.130   | ug/L   | 99       |
| 69) Chlorodibromomethane      | 8.023 | 129  | 156793   | 34.670   | ug/L   | 98       |
| 70) 1,3-Dichloropropane       | 8.128 | 76   | 240889   | 33.484   | ug/L   | 100      |
| 71) 1,2-Dibromoethane         | 8.280 | 107  | 129559   | 35.113   | ug/L   | 99       |
| 72) 2-Hexanone                | 8.590 | 43   | 90611    | 34.425   | ug/L   | 90       |
| 73) Chlorobenzene             | 8.931 | 112  | 449640   | 35.440   | ug/L   | 97       |
| 74) Ethylbenzene              | 8.983 | 91   | 785162   | 37.327   | ug/L   | 99       |
| 75) 1,1,1,2-Tetrachloroethane | 9.020 | 131  | 158648   | 34.483   | ug/L   | 99       |
| 76) p/m Xylene                | 9.166 | 106  | 596775   | 79.167   | ug/L   | 95       |
| 77) o Xylene                  | 9.707 | 106  | 576661   | 79.205   | ug/L   | 97       |
| 78) Styrene                   | 9.780 | 104  | 957040   | 78.526   | ug/L   | 98       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 80)  | Bromoform                 | 9.796  | 173  | 97014    | 34.517 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 743482   | 38.460 | ug/L   | 99       |
| 84)  | Bromobenzene              | 10.577 | 156  | 183124   | 35.010 | ug/L   | 100      |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 913262   | 36.476 | ug/L   | 98       |
| 86)  | 1,4-Dichlorobutane        | 10.650 | 55   | 234261   | 30.960 | ug/L   | 99       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 165774   | 30.869 | ug/L   | 98       |
| 88)  | 4-Ethyltoluene            | 10.781 | 105  | 763722   | 38.284 | ug/L   | 98       |
| 89)  | 2-Chlorotoluene           | 10.808 | 91   | 622128   | 34.497 | ug/L   | 96       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 624096   | 37.270 | ug/L   | 98       |
| 91)  | 1,2,3-Trichloropropane    | 10.876 | 75   | 130039   | 30.830 | ug/L   | 96       |
| 92)  | trans-1,4-Dichloro-2-b... | 10.939 | 53   | 46204    | 31.939 | ug/L # | 75       |
| 93)  | 4-Chlorotoluene           | 11.007 | 91   | 568048   | 35.277 | ug/L   | 96       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 519236   | 38.610 | ug/L   | 98       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 622192   | 37.867 | ug/L   | 98       |
| 98)  | sec-Butylbenzene          | 11.442 | 105  | 785346   | 37.465 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 11.610 | 119  | 658984   | 39.249 | ug/L   | 99       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 349245   | 34.336 | ug/L   | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.757 | 146  | 354094   | 34.155 | ug/L   | 100      |
| 102) | p-Diethylbenzene          | 12.003 | 119  | 400010   | 39.121 | ug/L   | 98       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 637985   | 36.287 | ug/L   | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.192 | 146  | 314573   | 33.793 | ug/L   | 99       |
| 105) | 1,2,4,5-Tetramethylben... | 12.821 | 119  | 614402   | 39.992 | ug/L   | 99       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 22656    | 33.933 | ug/L   | 95       |
| 107) | 1,3,5-Trichlorobenzene    | 13.036 | 180  | 261158   | 37.099 | ug/L   | 99       |
| 108) | Hexachlorobutadiene       | 13.634 | 225  | 119167   | 35.377 | ug/L   | 99       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 227139   | 38.155 | ug/L   | 98       |
| 110) | Naphthalene               | 13.938 | 128  | 451251   | 38.607 | ug/L   | 100      |
| 111) | 1,2,3-Trichlorobenzene    | 14.105 | 180  | 196554   | 36.173 | ug/L   | 97       |

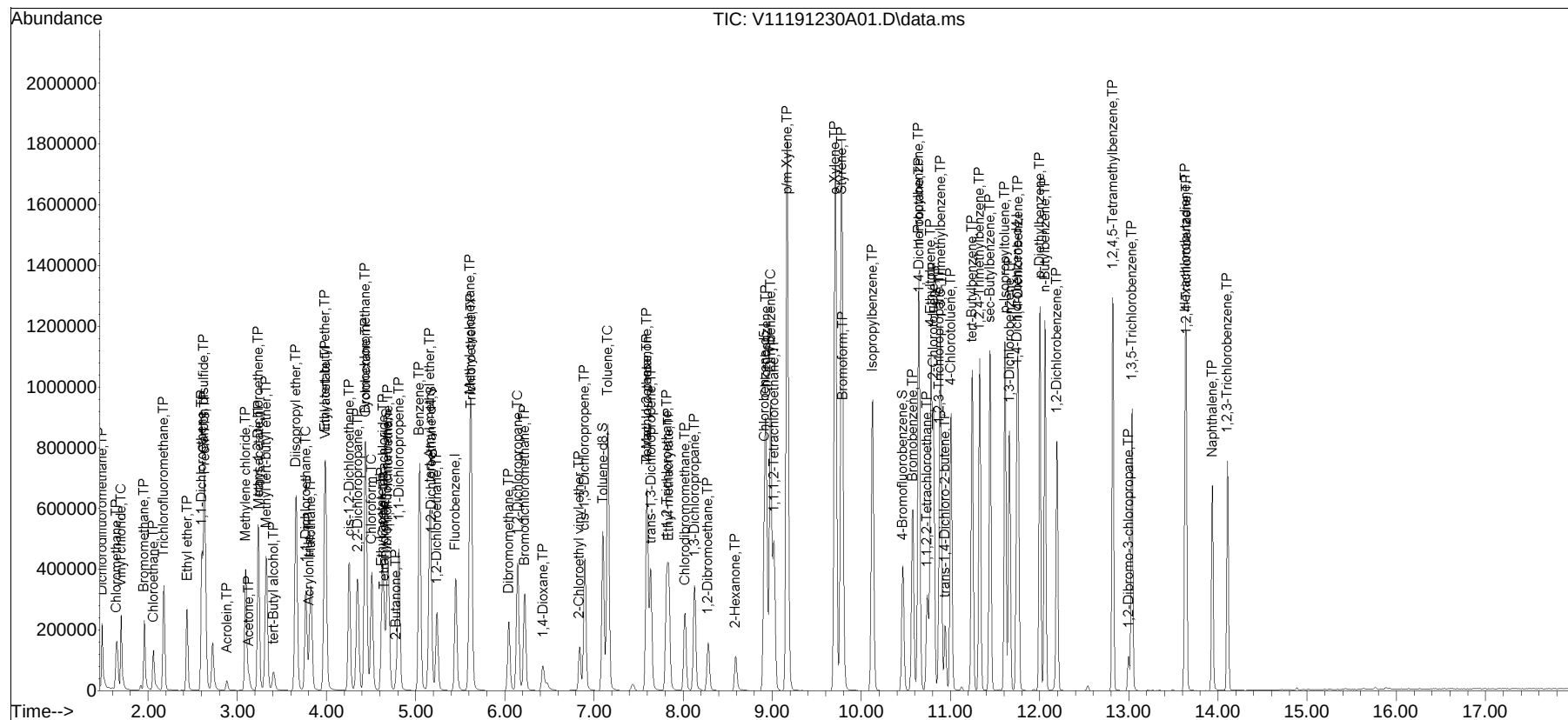
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-2  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox0A\V11191230A01.D•



# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\1Q | Method     | : V111_191220A_8260.m |
| Data File  | : V11191230A01.D              | Operator   | : VOA111:MV           |
| Date Inj'd | : 12/30/2019 5:40 am          | Instrument | : VOA111              |
| Sample     | : WG1325794-2                 | Quant Date | : 12/30/2019 6:52 am  |

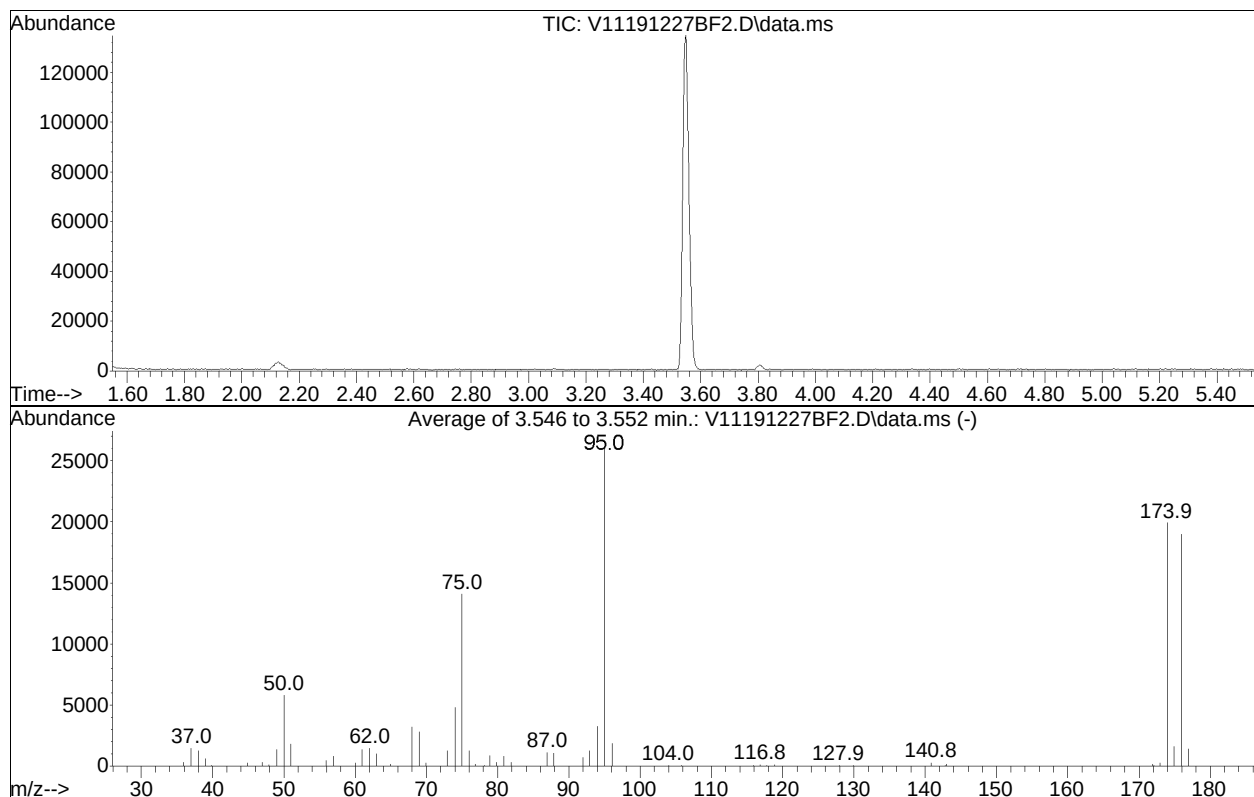
There are no manual integrations or false positives in this file.

## BFB

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227BF2.D  
 Acq On : 27 Dec 2019 04:55 am  
 Operator : VOA111:MV  
 Sample : WG1325770-1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Fri Dec 20 14:19:02 2019



Spectrum Information: Average of 3.546 to 3.552 min.

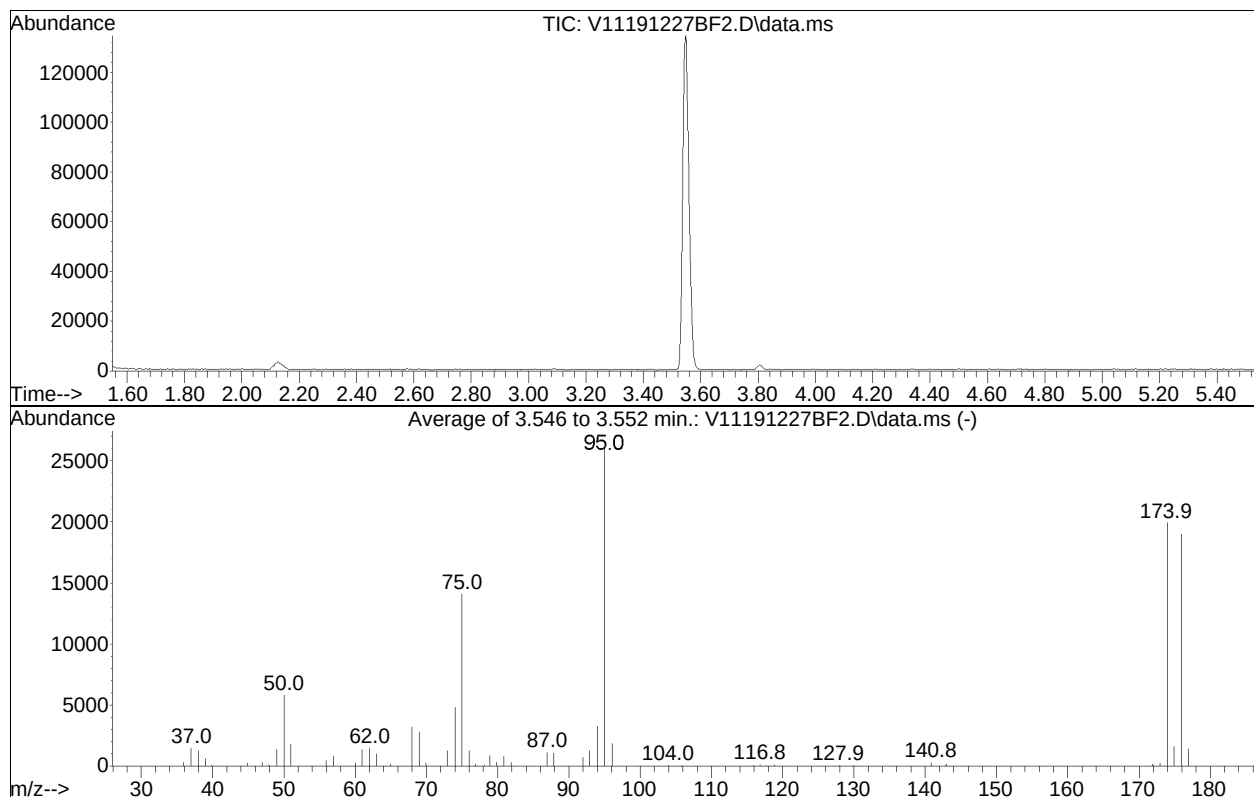
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 22.2      | 5811    | PASS             |
| 75          | 95           | 30           | 60           | 53.9      | 14107   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 26155   | PASS             |
| 96          | 95           | 5            | 9            | 7.1       | 1863    | PASS             |
| 173         | 174          | 0.00         | 2            | 1.4       | 271     | PASS             |
| 174         | 95           | 50           | 100          | 76.1      | 19917   | PASS             |
| 175         | 174          | 5            | 9            | 8.0       | 1599    | PASS             |
| 176         | 174          | 95           | 101          | 95.5      | 19013   | PASS             |
| 177         | 176          | 5            | 9            | 7.2       | 1378    | PASS             |

## BFB

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227BF2.D  
 Acq On : 27 Dec 2019 04:55 am  
 Operator : VOA111:MV  
 Sample : WG1325768-1  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Fri Dec 20 14:19:02 2019



Spectrum Information: Average of 3.546 to 3.552 min.

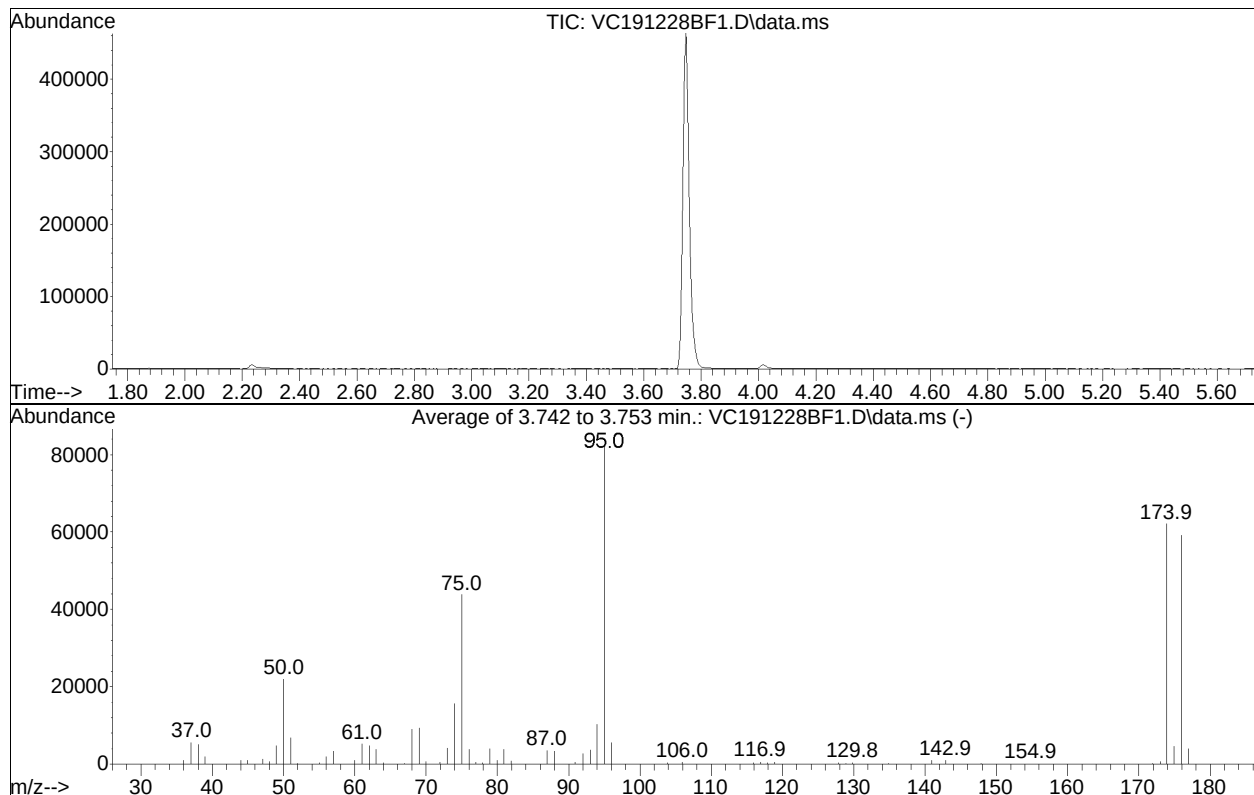
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 22.2      | 5811    | PASS             |
| 75          | 95           | 30           | 60           | 53.9      | 14107   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 26155   | PASS             |
| 96          | 95           | 5            | 9            | 7.1       | 1863    | PASS             |
| 173         | 174          | 0.00         | 2            | 1.4       | 271     | PASS             |
| 174         | 95           | 50           | 100          | 76.1      | 19917   | PASS             |
| 175         | 174          | 5            | 9            | 8.0       | 1599    | PASS             |
| 176         | 174          | 95           | 101          | 95.5      | 19013   | PASS             |
| 177         | 176          | 5            | 9            | 7.2       | 1378    | PASS             |

## BFB

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228BF1.D  
 Acq On : 28 Dec 2019 7:02 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-1  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Thu Dec 12 09:59:41 2019



Spectrum Information: Average of 3.742 to 3.753 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 26.6      | 22000   | PASS             |
| 75          | 95           | 30           | 60           | 53.0      | 43792   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 82603   | PASS             |
| 96          | 95           | 5            | 9            | 6.6       | 5485    | PASS             |
| 173         | 174          | 0.00         | 2            | 1.1       | 689     | PASS             |
| 174         | 95           | 50           | 100          | 75.3      | 62171   | PASS             |
| 175         | 174          | 5            | 9            | 7.5       | 4655    | PASS             |
| 176         | 174          | 95           | 101          | 95.1      | 59147   | PASS             |
| 177         | 176          | 5            | 9            | 6.7       | 3971    | PASS             |

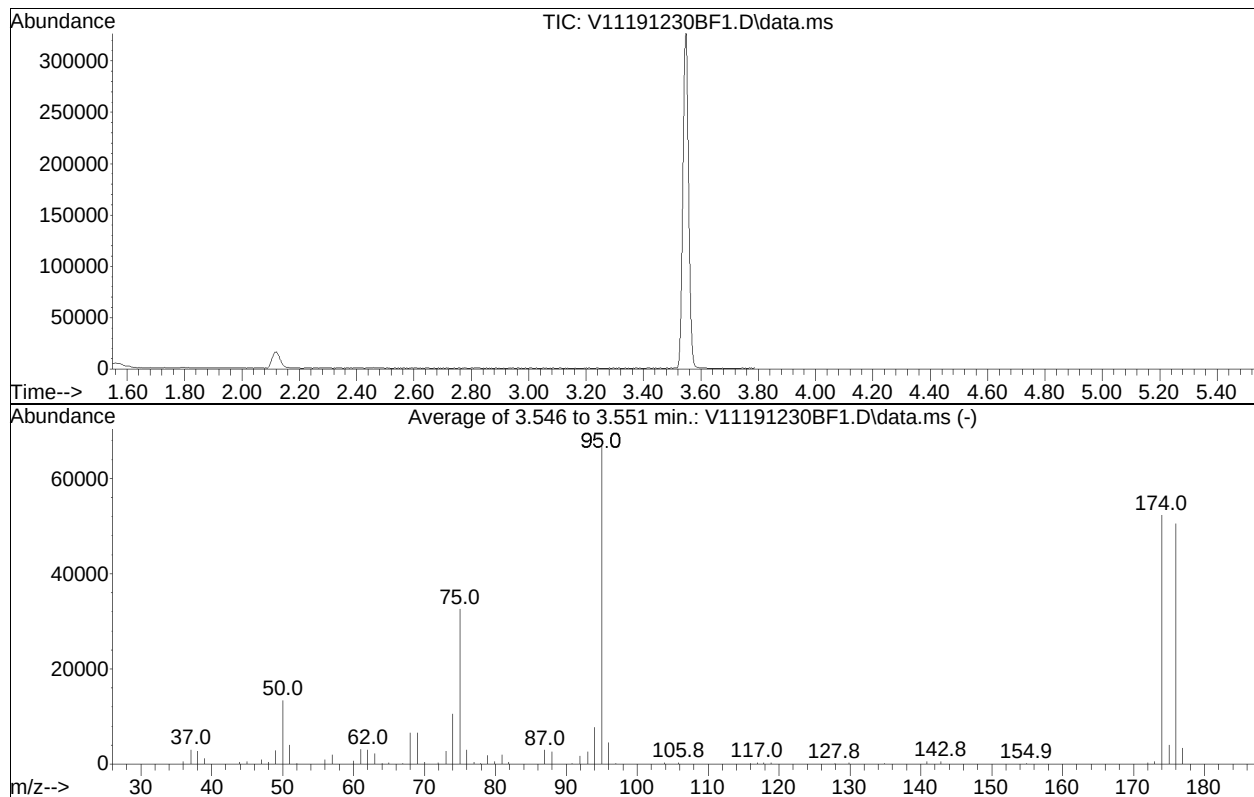


## BFB

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230BF1.D  
 Acq On : 30 Dec 2019 05:19 am  
 Operator : VOA111:MV  
 Sample : WG1325794-1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS  
 Last Update : Fri Dec 20 14:19:02 2019



Spectrum Information: Average of 3.546 to 3.551 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 20.0      | 13425   | PASS             |
| 75          | 95           | 30           | 60           | 48.6      | 32621   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 67139   | PASS             |
| 96          | 95           | 5            | 9            | 6.9       | 4603    | PASS             |
| 173         | 174          | 0.00         | 2            | 1.0       | 540     | PASS             |
| 174         | 95           | 50           | 100          | 78.0      | 52336   | PASS             |
| 175         | 174          | 5            | 9            | 7.7       | 4014    | PASS             |
| 176         | 174          | 95           | 101          | 96.4      | 50472   | PASS             |
| 177         | 176          | 5            | 9            | 6.7       | 3394    | PASS             |

## **Volatiles Raw QC Data**

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325770-5,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc         | Units | Dev(Min) |
|------------------------------|----------------|------|------------|--------------|-------|----------|
| -----                        |                |      |            |              |       |          |
| Internal Standards           |                |      |            |              |       |          |
| 1) Fluorobenzene             | 5.449          | 96   | 266441     | 20.000       | ug/L  | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery = | 97.63%       |       |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 210235     | 20.000       | ug/L  | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery = | 94.91%       |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 110674     | 20.000       | ug/L  | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery = | 91.96%       |       |          |
| System Monitoring Compounds  |                |      |            |              |       |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 67505      | 19.033       | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 95.17%       |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 72254      | 19.065       | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 95.33%       |       |          |
| 60) Toluene-d8               | 7.106          | 98   | 293051     | 19.989       | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 99.95%       |       |          |
| 83) 4-Bromofluorobenzene     | 10.461         | 95   | 106021     | 18.572       | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 92.86%       |       |          |
| Target Compounds             |                |      |            |              |       |          |
|                              |                |      |            |              |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0          | N.D.         |       |          |
| 3) Chloromethane             | 0.000          |      | 0          | N.D. d       |       |          |
| 4) Vinyl chloride            | 0.000          |      | 0          | N.D.         |       |          |
| 5) Bromomethane              | 1.957          | 94   | 742        | Below Cal    |       | 86       |
| 6) Chloroethane              | 0.000          |      | 0          | N.D.         |       |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0          | N.D.         |       |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0          | N.D.         |       |          |
| 11) Carbon disulfide         | 0.000          |      | 0          | N.D. d       |       |          |
| 12) Freon-113                | 0.000          |      | 0          | N.D.         |       |          |
| 15) Methylene chloride       | 3.084          | 84   | 751        | 0.197 ug/L   |       | 63       |
| 17) Acetone                  | 3.142          | 43   | 2399       | 2.775 ug/L   |       | 92       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0          | N.D.         |       |          |
| 19) Methyl acetate           | 0.000          |      | 0          | N.D. d       |       |          |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 1800       | 0.207 ug/L # |       | 79       |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0          | N.D.         |       |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0          | N.D.         |       |          |
| 31) Cyclohexane              | 0.000          |      | 0          | N.D.         |       |          |
| 32) Chloroform               | 0.000          |      | 0          | N.D.         |       |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0          | N.D.         |       |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0          | N.D.         |       |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325770-5,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 39)  | 2-Butanone                | 0.000  |      | 0        | N.D.  | d     |          |
| 41)  | Benzene                   | 5.051  | 78   | 219      | N.D.  |       |          |
| 44)  | 1,2-Dichloroethane        | 5.250  | 62   | 68       | N.D.  |       |          |
| 47)  | Methyl cyclohexane        | 0.000  |      | 0        | N.D.  |       |          |
| 48)  | Trichloroethene           | 0.000  |      | 0        | N.D.  |       |          |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        | N.D.  |       |          |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        | N.D.  |       |          |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        | N.D.  |       |          |
| 61)  | Toluene                   | 7.158  | 92   | 133      | N.D.  |       |          |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        | N.D.  |       |          |
| 63)  | Tetrachloroethene         | 0.000  |      | 0        | N.D.  |       |          |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        | N.D.  |       |          |
| 68)  | 1,1,2-Trichloroethane     | 0.000  |      | 0        | N.D.  |       |          |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        | N.D.  |       |          |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        | N.D.  |       |          |
| 72)  | 2-Hexanone                | 0.000  |      | 0        | N.D.  |       |          |
| 73)  | Chlorobenzene             | 8.941  | 112  | 102      | N.D.  |       |          |
| 74)  | Ethylbenzene              | 8.993  | 91   | 52       | N.D.  |       |          |
| 76)  | p/m Xylene                | 0.000  |      | 0        | N.D.  |       |          |
| 77)  | o Xylene                  | 0.000  |      | 0        | N.D.  |       |          |
| 78)  | Styrene                   | 9.811  | 104  | 49       | N.D.  |       |          |
| 80)  | Bromoform                 | 0.000  |      | 0        | N.D.  |       |          |
| 82)  | Isopropylbenzene          | 0.000  |      | 0        | N.D.  |       |          |
| 85)  | n-Propylbenzene           | 10.661 | 91   | 57       | N.D.  |       |          |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        | N.D.  |       |          |
| 90)  | 1,3,5-Trimethylbenzene    | 0.000  |      | 0        | N.D.  |       |          |
| 94)  | tert-Butylbenzene         | 0.000  |      | 0        | N.D.  |       |          |
| 97)  | 1,2,4-Trimethylbenzene    | 11.332 | 105  | 50       | N.D.  |       |          |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 60       | N.D.  |       |          |
| 99)  | p-Isopropyltoluene        | 11.620 | 119  | 49       | N.D.  |       |          |
| 100) | 1,3-Dichlorobenzene       | 11.667 | 146  | 174      | N.D.  |       |          |
| 101) | 1,4-Dichlorobenzene       | 11.756 | 146  | 433      | N.D.  |       |          |
| 103) | n-Butylbenzene            | 12.071 | 91   | 195      | N.D.  |       |          |
| 104) | 1,2-Dichlorobenzene       | 12.202 | 146  | 184      | N.D.  |       |          |
| 106) | 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.  |       |          |
| 109) | 1,2,4-Trichlorobenzene    | 13.649 | 180  | 323      | N.D.  |       |          |
| 110) | Naphthalene               | 13.948 | 128  | 1420     | 0.166 | ug/L  | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325770-5,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

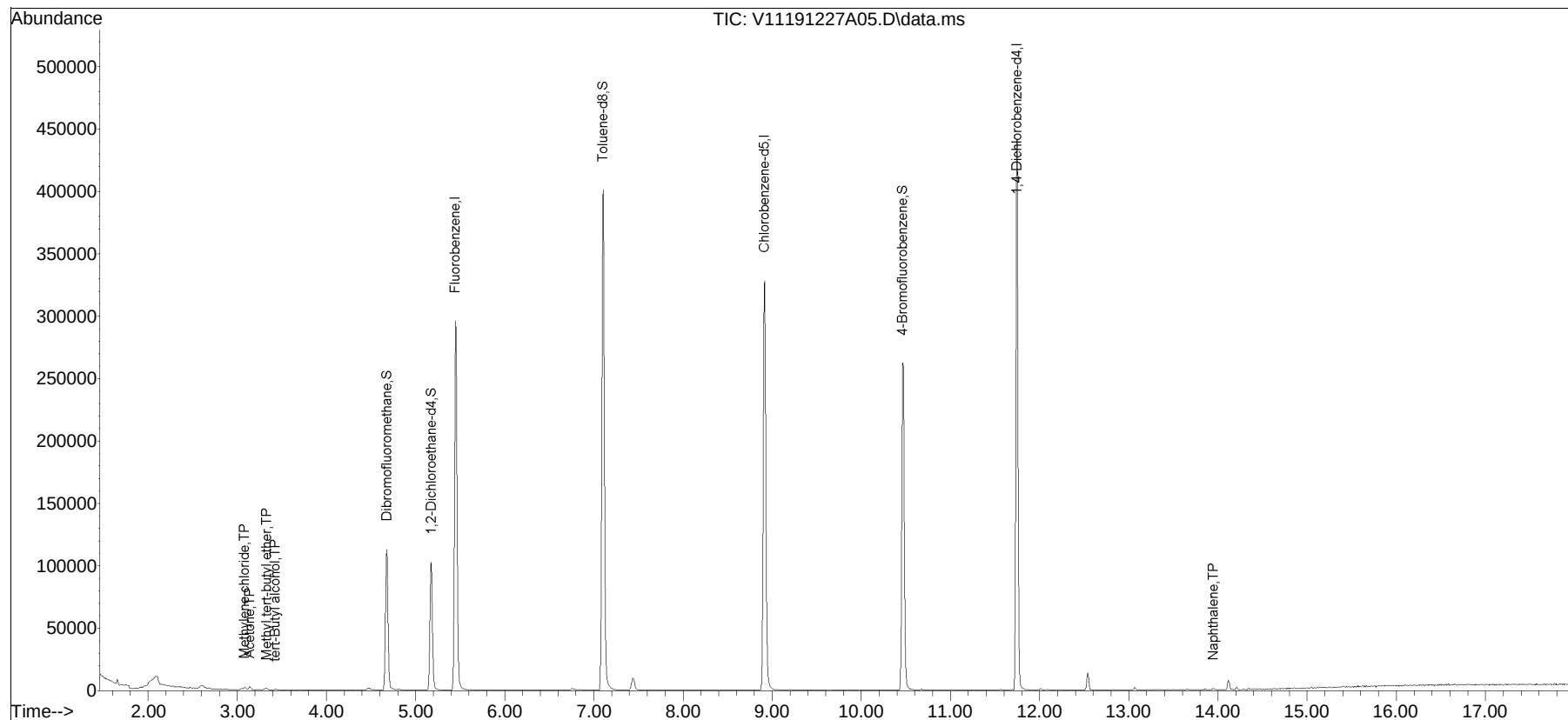
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

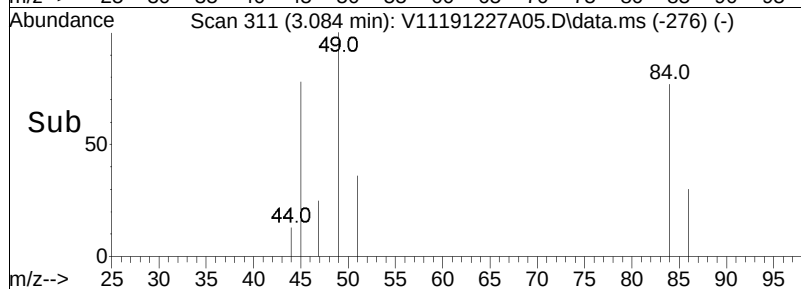
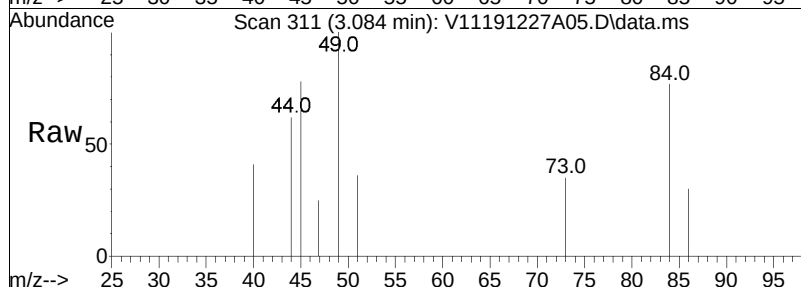
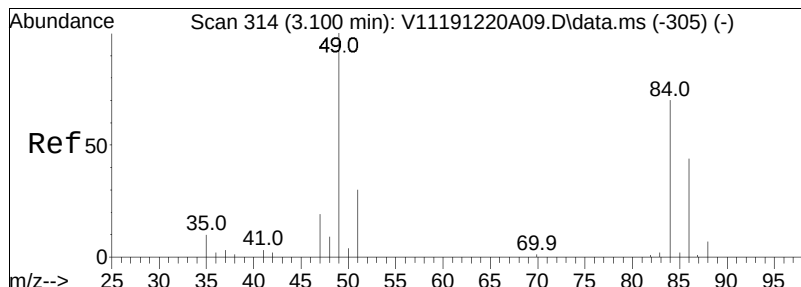
# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325770-5,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

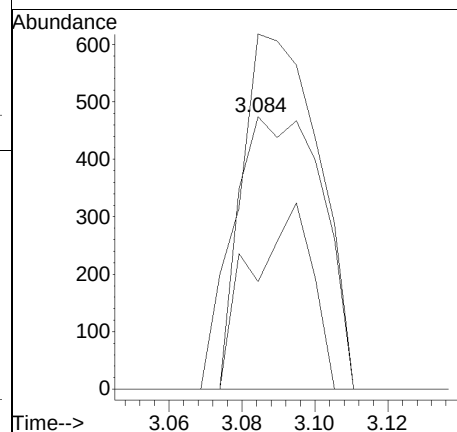
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

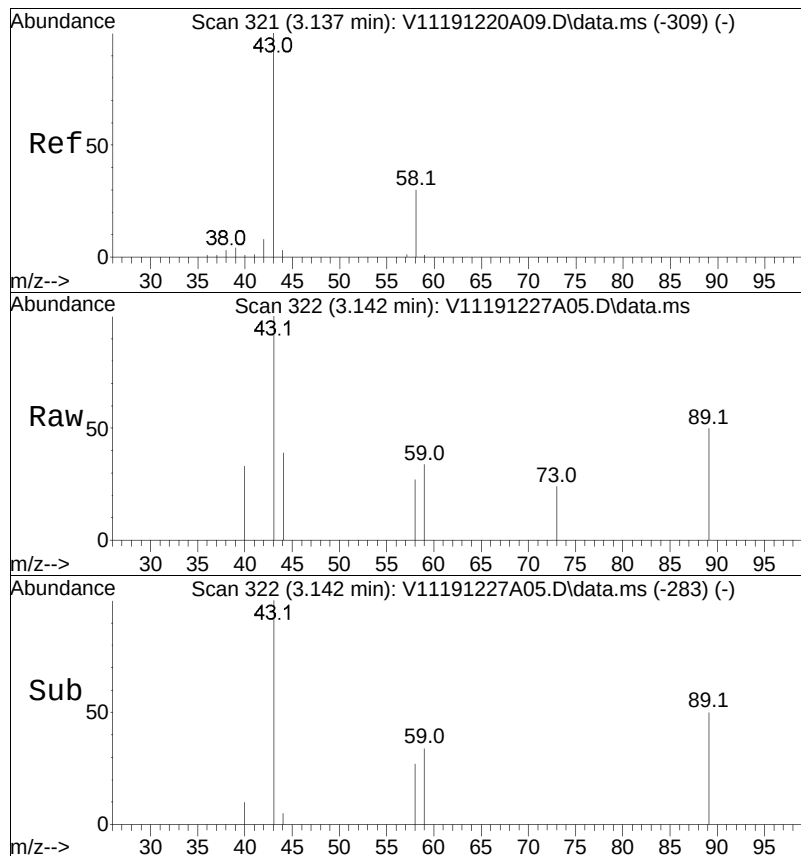




#15  
Methylene chloride  
Concen: 0.20 ug/L  
RT: 3.084 min Scan# 311  
Delta R.T. -0.016 min  
Lab File: V11191227A05.D  
Acq: 27 Dec 2019 07:00 am

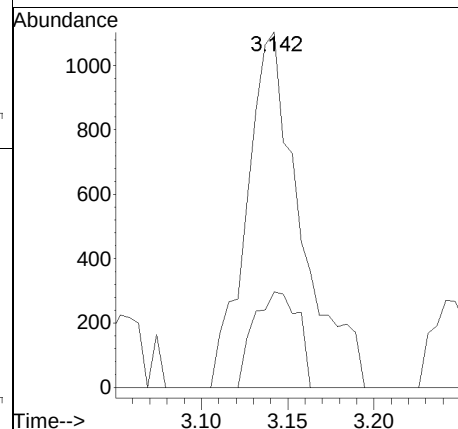
Tgt Ion: 84 Resp: 751  
Ion Ratio Lower Upper  
84 100  
86 50.2 41.1 85.3  
49 126.8 124.2 258.0



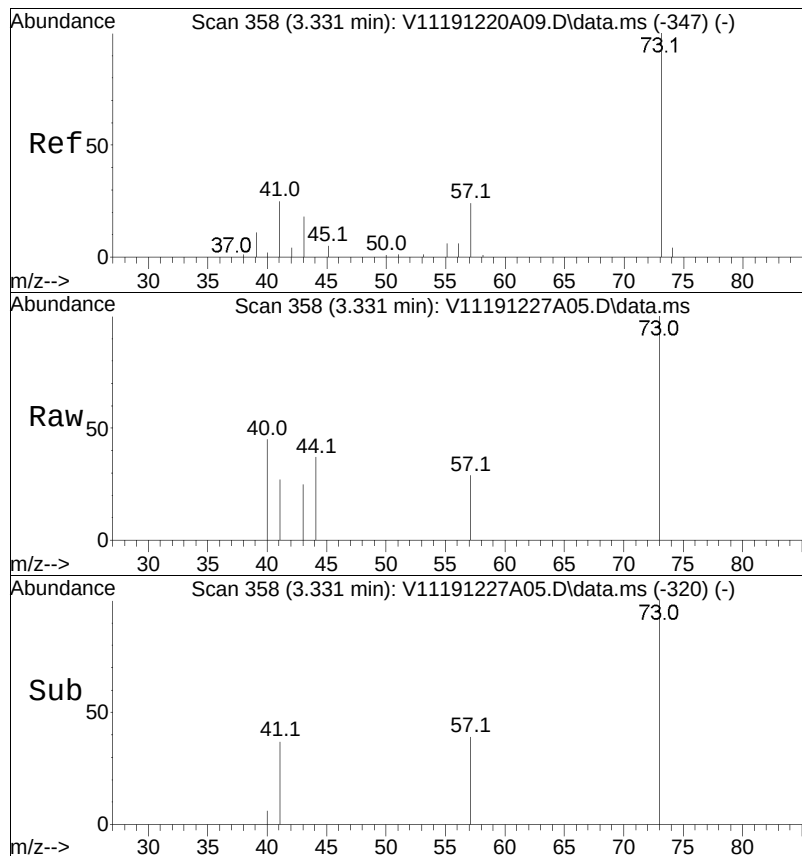


#17  
 Acetone  
 Concen: 2.78 ug/L  
 RT: 3.142 min Scan# 322  
 Delta R.T. 0.005 min  
 Lab File: V11191227A05.D  
 Acq: 27 Dec 2019 07:00 am

Tgt Ion: 43 Resp: 2399  
 Ion Ratio Lower Upper  
 43 100  
 58 22.1 20.8 31.2







#20

Methyl tert-butyl ether

Concen: 0.21 ug/L

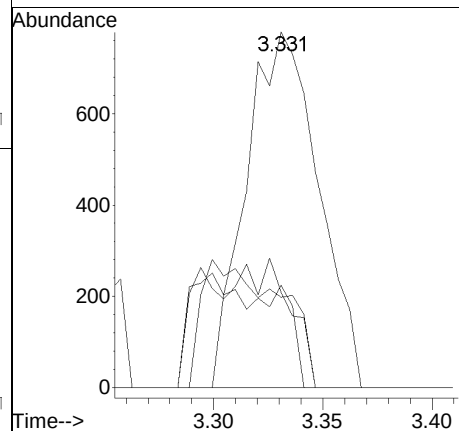
RT: 3.331 min Scan# 358

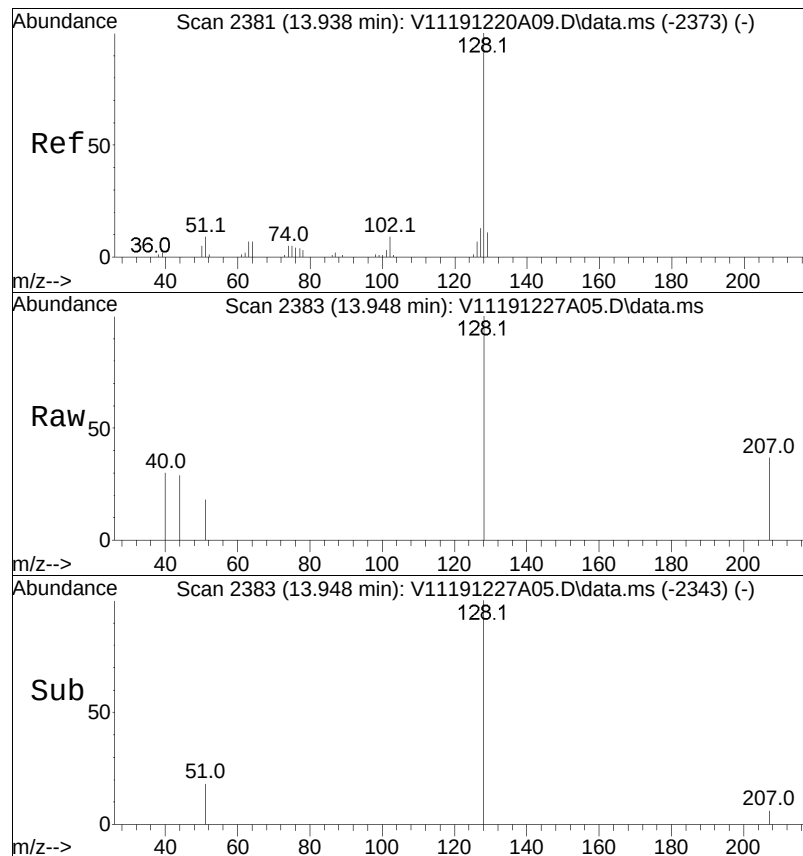
Delta R.T. -0.000 min

Lab File: V11191227A05.D

Acq: 27 Dec 2019 07:00 am

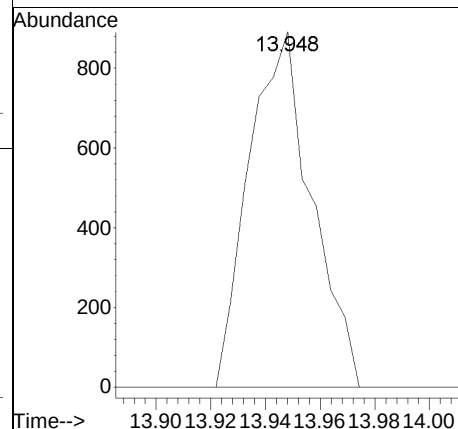
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 1800  |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 57       | 22.6  | 19.6  | 40.6  |
| 43       | 38.3  | 18.5  | 38.3  |
| 41       | 15.4  | 20.3  | 42.1# |





#110  
 Naphthalene  
 Concen: 0.17 ug/L  
 RT: 13.948 min Scan# 2383  
 Delta R.T. 0.010 min  
 Lab File: V11191227A05.D  
 Acq: 27 Dec 2019 07:00 am

Tgt Ion:128 Resp: 1420



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A05.D Operator : VOA111:MV  
Date Inj'd : 12/27/2019 7:00 am Instrument : VOA111  
Sample : WG1325770-5,31h,15,15,0.1 Quant Date : 12/27/2019 8:31 am

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

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325770-5,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m

Title : VOLATILES BY GC/MS

Signal : TIC: V11191227A05.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.078       | 92            | 119         | 122          | rBV9     | 9250           | 44535         | 5.62%           | 1.205%        |
| 2         | 4.678       | 605           | 615         | 634          | rBV      | 112719         | 221460        | 27.96%          | 5.994%        |
| 3         | 5.176       | 701           | 710         | 731          | rVB      | 102447         | 198690        | 25.09%          | 5.377%        |
| 4         | 5.449       | 753           | 762         | 780          | rBV      | 295592         | 569445        | 71.90%          | 15.411%       |
| 5         | 7.106       | 1068          | 1078        | 1108         | rVB      | 400814         | 791950        | 100.00%         | 21.433%       |
| 6         | 8.915       | 1412          | 1423        | 1444         | rBV      | 327995         | 660019        | 83.34%          | 17.863%       |
| 7         | 10.467      | 1710          | 1719        | 1744         | rVB2     | 262480         | 519393        | 65.58%          | 14.057%       |
| 8         | 11.746      | 1955          | 1963        | 1989         | rVB      | 440768         | 689492        | 87.06%          | 18.660%       |

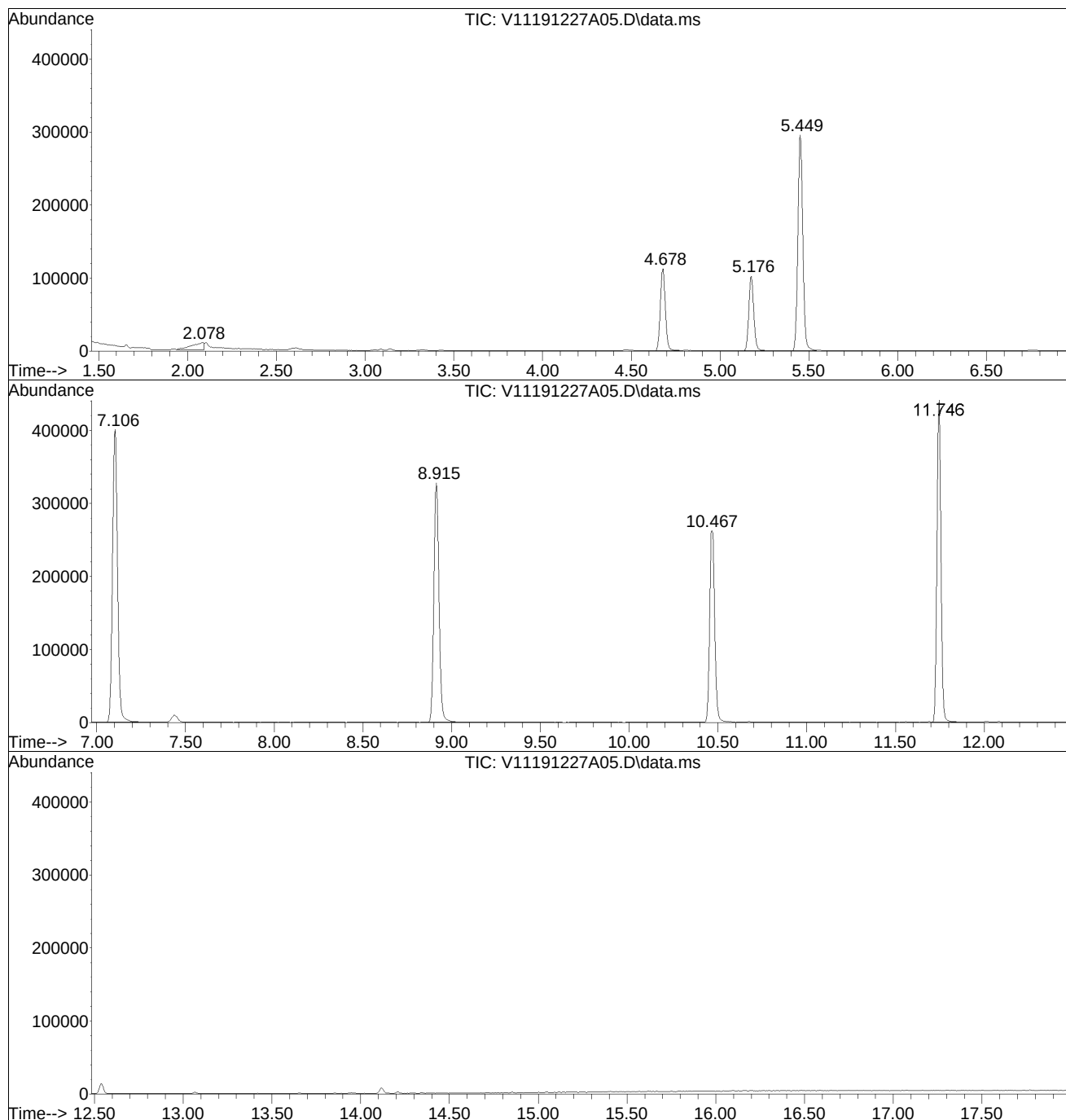
Sum of corrected areas: 3694984

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A05.D  
Acq On : 27 Dec 2019 07:00 am  
Operator : VOA111:MV  
Sample : WG1325770-5, 31h, 15, 15, 0.1  
Misc : WG1325770, ICAL16383  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p



# Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A05.D  
Acq On : 27 Dec 2019 07:00 am  
Operator : VOA111:MV  
Sample : WG1325770-5,31h,15,15,0.1  
Misc : WG1325770,ICAL16383  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected

\*\*\*\*\*

# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325770-5,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325768-5,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units     | Dev(Min) |
|------------------------------|----------------|------|----------|--------|-----------|----------|
| -----                        |                |      |          |        |           |          |
| Internal Standards           |                |      |          |        |           |          |
| 1) Fluorobenzene             | 5.449          | 96   | 266441   | 20.000 | ug/L      | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 97.63%    |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 210235   | 20.000 | ug/L      | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 94.91%    |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 110674   | 20.000 | ug/L      | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 91.96%    |          |
| System Monitoring Compounds  |                |      |          |        |           |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 67505    | 19.033 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 95.17%    |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 72254    | 19.065 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 95.33%    |          |
| 60) Toluene-d8               | 7.106          | 98   | 293051   | 19.989 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.95%    |          |
| 83) 4-Bromofluorobenzene     | 10.461         | 95   | 106021   | 18.572 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 92.86%    |          |
| Target Compounds             |                |      |          |        |           |          |
|                              |                |      |          |        |           | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0        |        | N.D.      |          |
| 3) Chloromethane             | 0.000          |      | 0        |        | N.D. d    |          |
| 4) Vinyl chloride            | 0.000          |      | 0        |        | N.D.      |          |
| 5) Bromomethane              | 1.957          | 94   | 742      |        | Below Cal | 86       |
| 6) Chloroethane              | 0.000          |      | 0        |        | N.D.      |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0        |        | N.D.      |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0        |        | N.D.      |          |
| 11) Carbon disulfide         | 0.000          |      | 0        |        | N.D. d    |          |
| 12) Freon-113                | 0.000          |      | 0        |        | N.D.      |          |
| 15) Methylene chloride       | 3.084          | 84   | 751      | 0.197  | ug/L      | 63       |
| 17) Acetone                  | 3.142          | 43   | 2399     | 2.775  | ug/L      | 92       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0        |        | N.D.      |          |
| 19) Methyl acetate           | 0.000          |      | 0        |        | N.D. d    |          |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 1800     | 0.207  | ug/L #    | 79       |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0        |        | N.D.      |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0        |        | N.D.      |          |
| 31) Cyclohexane              | 0.000          |      | 0        |        | N.D.      |          |
| 32) Chloroform               | 0.000          |      | 0        |        | N.D.      |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0        |        | N.D.      |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0        |        | N.D.      |          |



## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325768-5,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                       | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|--------|------|----------|-------|-------|----------|
| 39) 2-Butanone                 | 0.000  |      | 0        | N.D.  | d     |          |
| 41) Benzene                    | 5.051  | 78   | 219      | N.D.  |       |          |
| 44) 1,2-Dichloroethane         | 5.250  | 62   | 68       | N.D.  |       |          |
| 47) Methyl cyclohexane         | 0.000  |      | 0        | N.D.  |       |          |
| 48) Trichloroethene            | 0.000  |      | 0        | N.D.  |       |          |
| 51) 1,2-Dichloropropane        | 0.000  |      | 0        | N.D.  |       |          |
| 54) Bromodichloromethane       | 0.000  |      | 0        | N.D.  |       |          |
| 58) cis-1,3-Dichloropropene    | 0.000  |      | 0        | N.D.  |       |          |
| 61) Toluene                    | 7.158  | 92   | 133      | N.D.  |       |          |
| 62) 4-Methyl-2-pentanone       | 0.000  |      | 0        | N.D.  |       |          |
| 63) Tetrachloroethene          | 0.000  |      | 0        | N.D.  |       |          |
| 65) trans-1,3-Dichloropropene  | 0.000  |      | 0        | N.D.  |       |          |
| 68) 1,1,2-Trichloroethane      | 0.000  |      | 0        | N.D.  |       |          |
| 69) Chlorodibromomethane       | 0.000  |      | 0        | N.D.  |       |          |
| 71) 1,2-Dibromoethane          | 0.000  |      | 0        | N.D.  |       |          |
| 72) 2-Hexanone                 | 0.000  |      | 0        | N.D.  |       |          |
| 73) Chlorobenzene              | 8.941  | 112  | 102      | N.D.  |       |          |
| 74) Ethylbenzene               | 8.993  | 91   | 52       | N.D.  |       |          |
| 76) p/m Xylene                 | 0.000  |      | 0        | N.D.  |       |          |
| 77) o Xylene                   | 0.000  |      | 0        | N.D.  |       |          |
| 78) Styrene                    | 9.811  | 104  | 49       | N.D.  |       |          |
| 80) Bromoform                  | 0.000  |      | 0        | N.D.  |       |          |
| 82) Isopropylbenzene           | 0.000  |      | 0        | N.D.  |       |          |
| 85) n-Propylbenzene            | 10.661 | 91   | 57       | N.D.  |       |          |
| 87) 1,1,2,2-Tetrachloroethane  | 0.000  |      | 0        | N.D.  |       |          |
| 90) 1,3,5-Trimethylbenzene     | 0.000  |      | 0        | N.D.  |       |          |
| 94) tert-Butylbenzene          | 0.000  |      | 0        | N.D.  |       |          |
| 97) 1,2,4-Trimethylbenzene     | 11.332 | 105  | 50       | N.D.  |       |          |
| 98) sec-Butylbenzene           | 11.447 | 105  | 60       | N.D.  |       |          |
| 99) p-Isopropyltoluene         | 11.620 | 119  | 49       | N.D.  |       |          |
| 100) 1,3-Dichlorobenzene       | 11.667 | 146  | 174      | N.D.  |       |          |
| 101) 1,4-Dichlorobenzene       | 11.756 | 146  | 433      | N.D.  |       |          |
| 103) n-Butylbenzene            | 12.071 | 91   | 195      | N.D.  |       |          |
| 104) 1,2-Dichlorobenzene       | 12.202 | 146  | 184      | N.D.  |       |          |
| 106) 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.  |       |          |
| 109) 1,2,4-Trichlorobenzene    | 13.649 | 180  | 323      | N.D.  |       |          |
| 110) Naphthalene               | 13.948 | 128  | 1420     | 0.166 | ug/L  | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325768-5,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

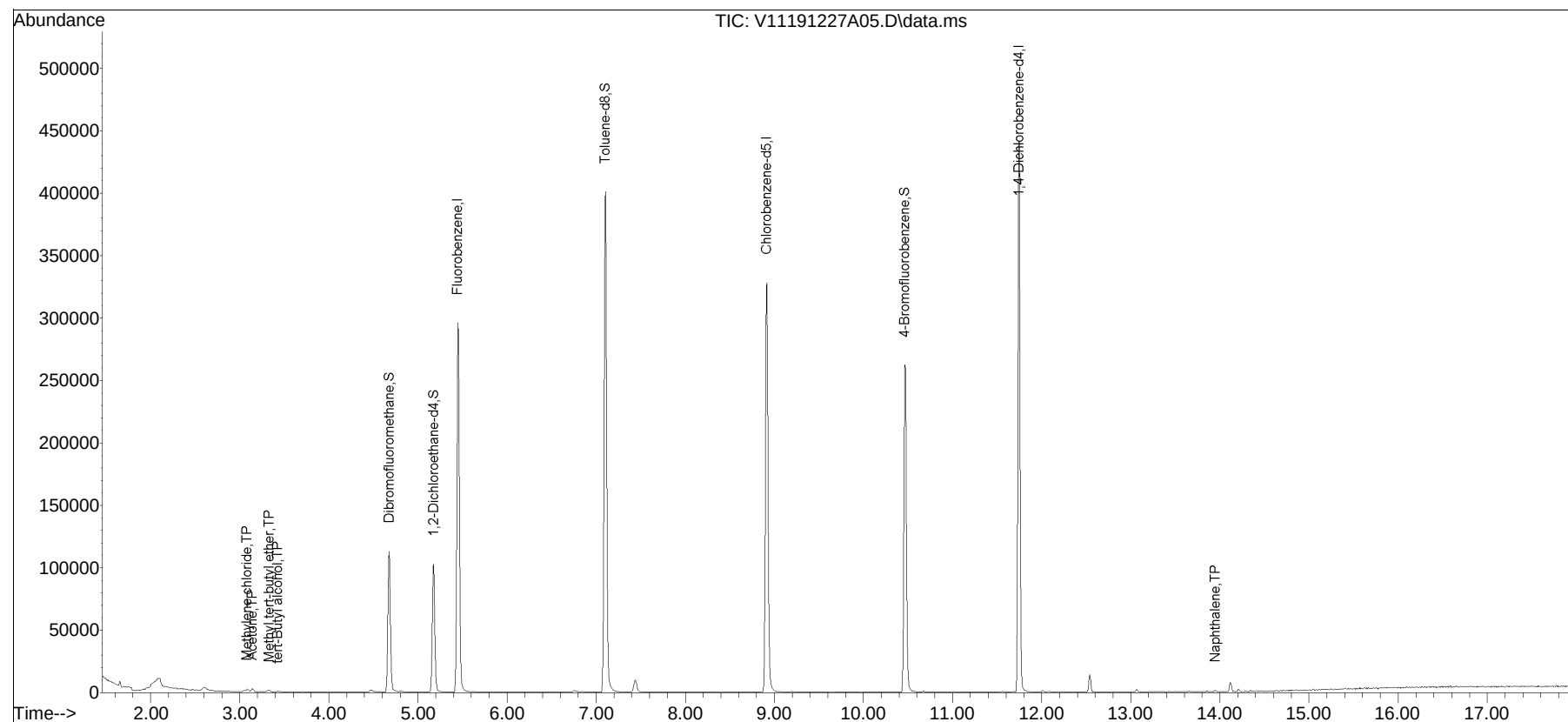
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

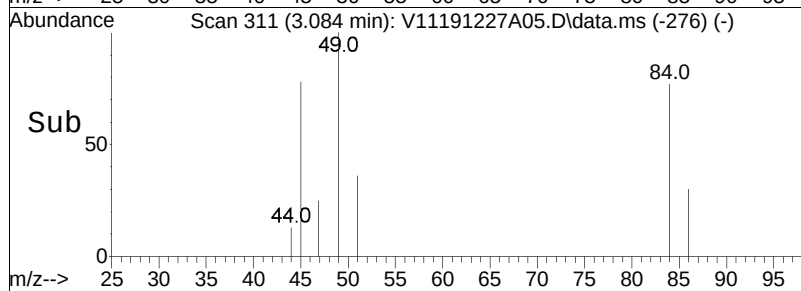
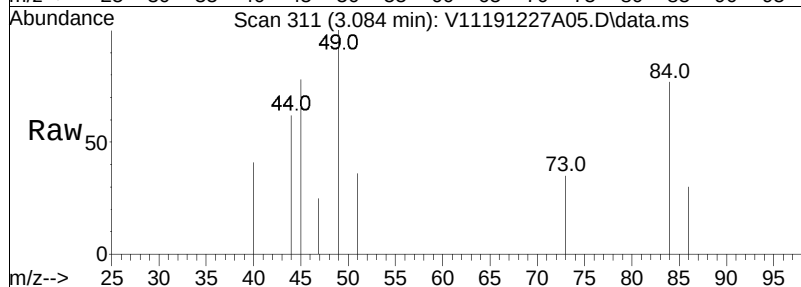
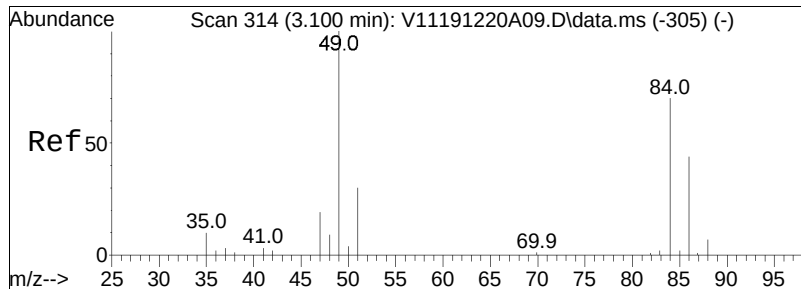
# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325768-5,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 27 08:48:54 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

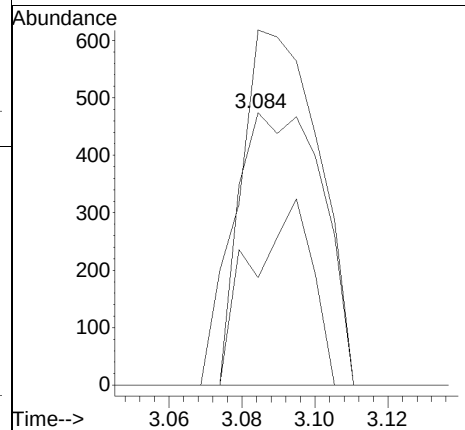
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

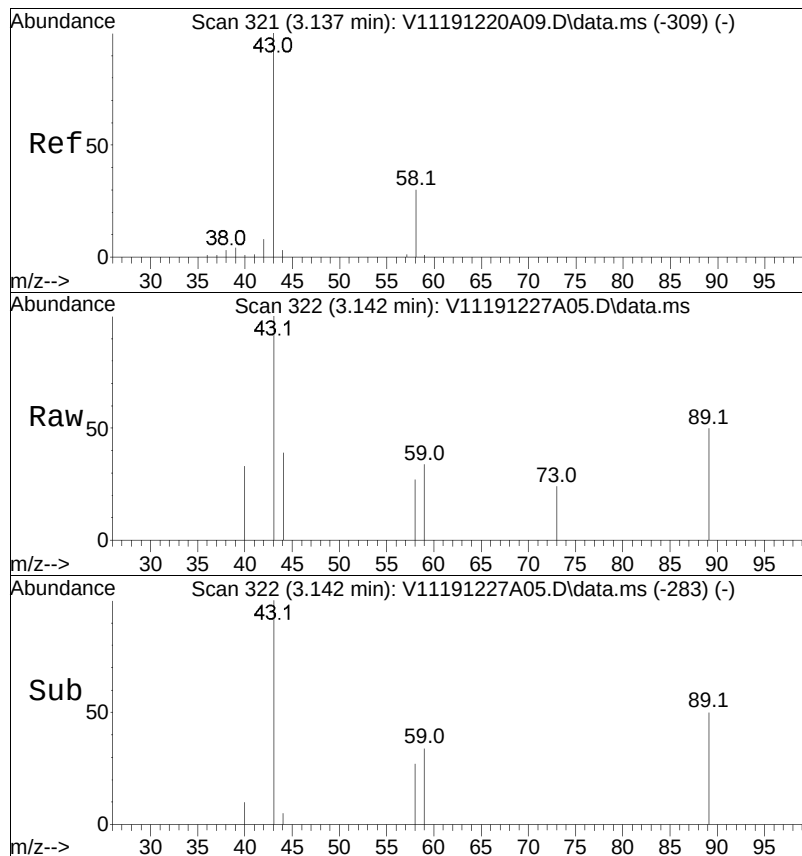




#15  
Methylene chloride  
Concen: 0.20 ug/L  
RT: 3.084 min Scan# 311  
Delta R.T. -0.016 min  
Lab File: V11191227A05.D  
Acq: 27 Dec 2019 07:00 am

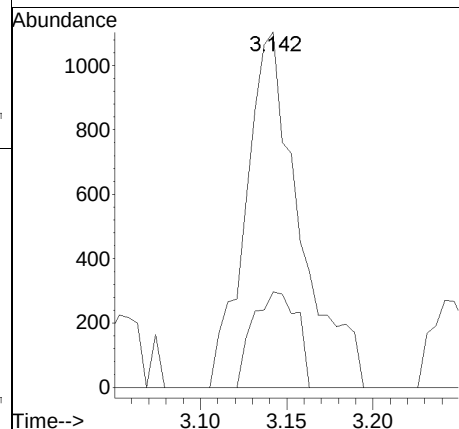
Tgt Ion: 84 Resp: 751  
Ion Ratio Lower Upper  
84 100  
86 50.2 41.1 85.3  
49 126.8 124.2 258.0

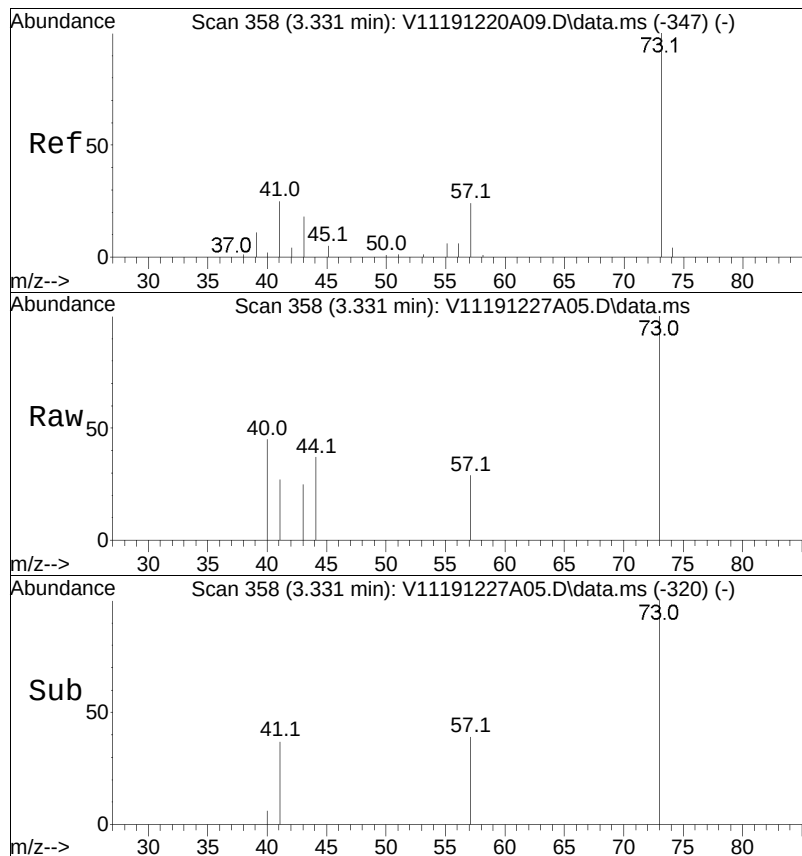




#17  
 Acetone  
 Concen: 2.78 ug/L  
 RT: 3.142 min Scan# 322  
 Delta R.T. 0.005 min  
 Lab File: V11191227A05.D  
 Acq: 27 Dec 2019 07:00 am

Tgt Ion: 43 Resp: 2399  
 Ion Ratio Lower Upper  
 43 100  
 58 22.1 20.8 31.2





#20

Methyl tert-butyl ether

Concen: 0.21 ug/L

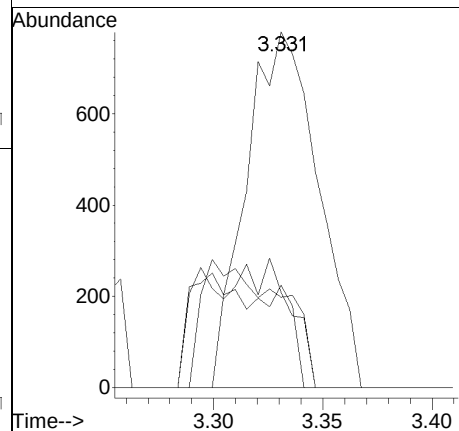
RT: 3.331 min Scan# 358

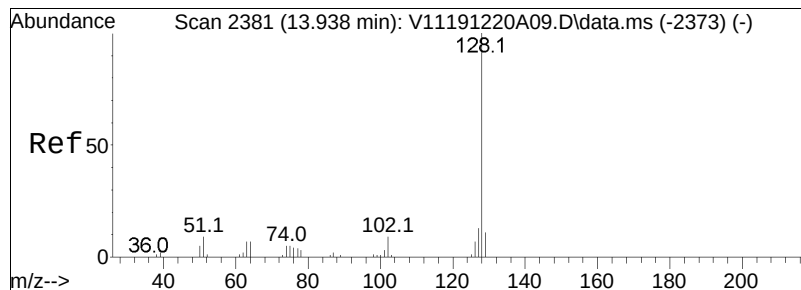
Delta R.T. -0.000 min

Lab File: V11191227A05.D

Acq: 27 Dec 2019 07:00 am

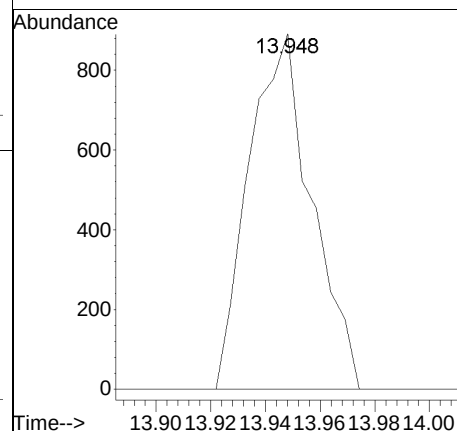
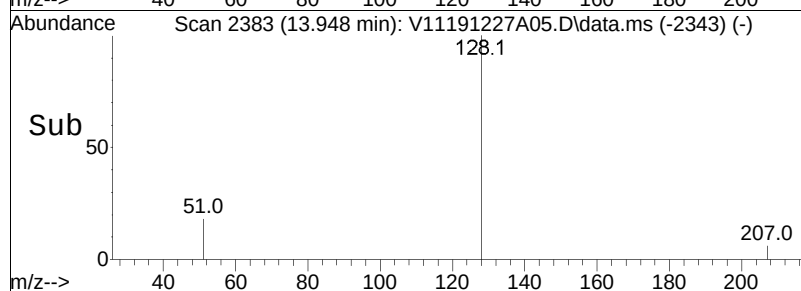
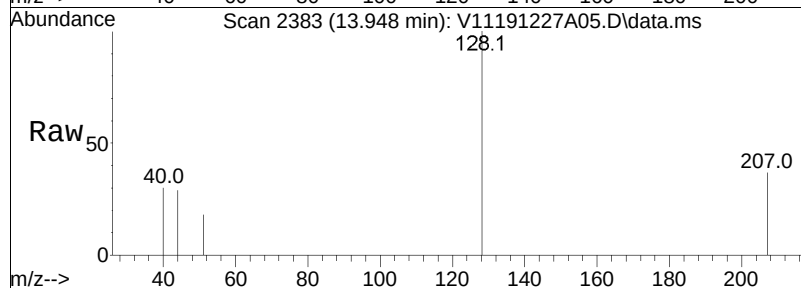
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 1800  |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 57       | 22.6  | 19.6  | 40.6  |
| 43       | 38.3  | 18.5  | 38.3  |
| 41       | 15.4  | 20.3  | 42.1# |





#110  
Naphthalene  
Concen: 0.17 ug/L  
RT: 13.948 min Scan# 2383  
Delta R.T. 0.010 min  
Lab File: V11191227A05.D  
Acq: 27 Dec 2019 07:00 am

Tgt Ion:128 Resp: 1420



# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\10 | Method     | : V111_191220A_8260.m |
| Data File  | : V11191227A05.D              | Operator   | : VOA111:MV           |
| Date Inj'd | : 12/27/2019 7:00 am          | Instrument | : VOA111              |
| Sample     | : WG1325768-5,31,5,5          | Quant Date | : 12/27/2019 8:31 am  |

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



## LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A05.D  
Acq On : 27 Dec 2019 07:00 am  
Operator : VOA111:MV  
Sample : WG1325768-5,31,5,5  
Misc : WG1325768,ICAL16383  
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Title : VOLATILES BY GC/MS

Signal : TIC: V11191227A05.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.078       | 92            | 119         | 122          | rBV9     | 9250           | 44535         | 5.62%           | 1.205%        |
| 2         | 4.678       | 605           | 615         | 634          | rBV      | 112719         | 221460        | 27.96%          | 5.994%        |
| 3         | 5.176       | 701           | 710         | 731          | rVB      | 102447         | 198690        | 25.09%          | 5.377%        |
| 4         | 5.449       | 753           | 762         | 780          | rBV      | 295592         | 569445        | 71.90%          | 15.411%       |
| 5         | 7.106       | 1068          | 1078        | 1108         | rVB      | 400814         | 791950        | 100.00%         | 21.433%       |
| 6         | 8.915       | 1412          | 1423        | 1444         | rBV      | 327995         | 660019        | 83.34%          | 17.863%       |
| 7         | 10.467      | 1710          | 1719        | 1744         | rVB2     | 262480         | 519393        | 65.58%          | 14.057%       |
| 8         | 11.746      | 1955          | 1963        | 1989         | rVB      | 440768         | 689492        | 87.06%          | 18.660%       |

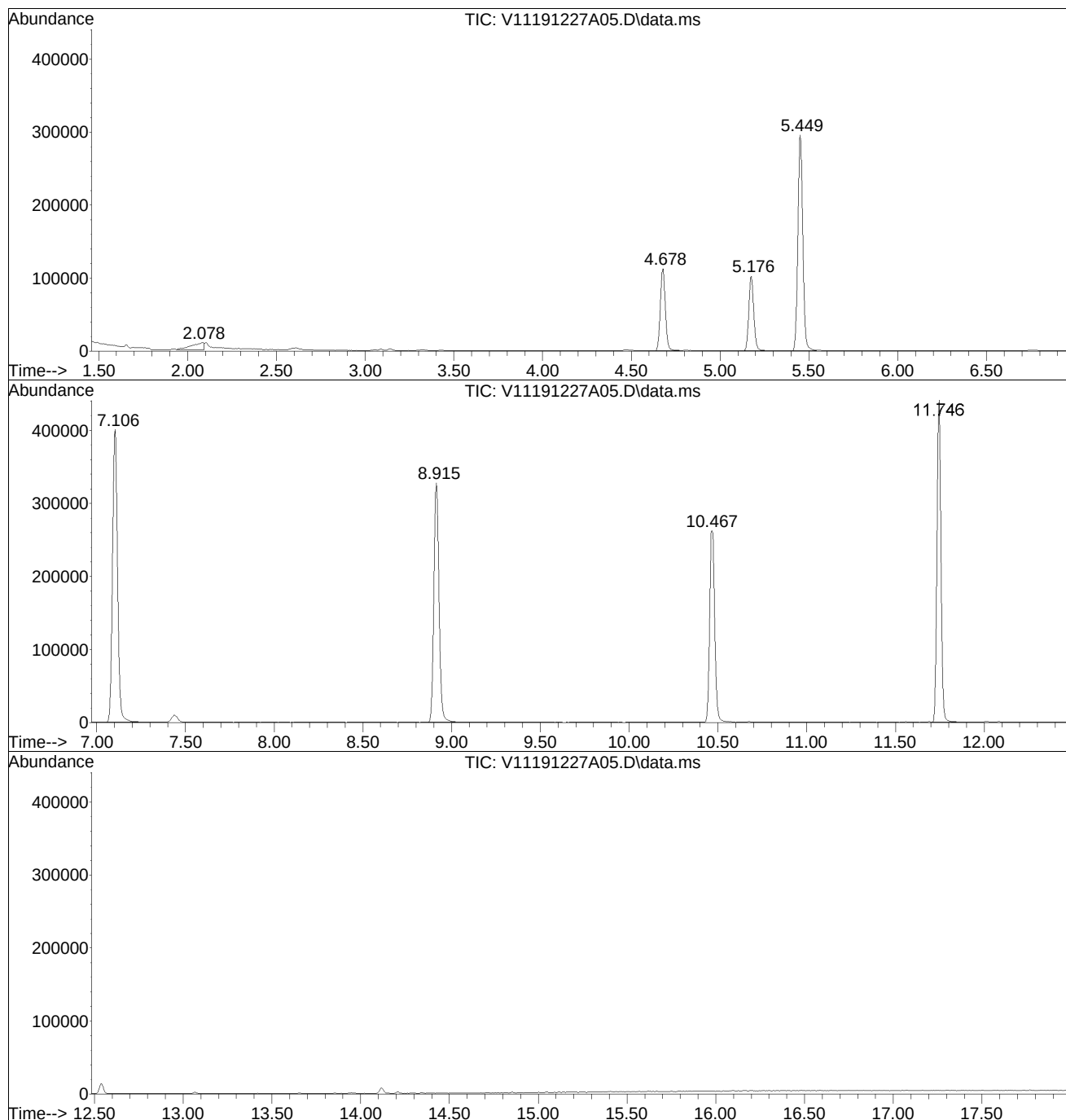
Sum of corrected areas: 3694984

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A05.D  
Acq On : 27 Dec 2019 07:00 am  
Operator : VOA111:MV  
Sample : WG1325768-5,31,5,5  
Misc : WG1325768,ICAL16383  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p



# Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A05.D  
Acq On : 27 Dec 2019 07:00 am  
Operator : VOA111:MV  
Sample : WG1325768-5,31,5,5  
Misc : WG1325768,ICAL16383  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected

\*\*\*\*\*

# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A05.D  
 Acq On : 27 Dec 2019 07:00 am  
 Operator : VOA111:MV  
 Sample : WG1325768-5,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

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

# Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A05.D  
 Acq On : 28 Dec 2019 9:16 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-5,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 28 12:43:48 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Fluorobenzene             | 6.206          | 96   | 82873      | 20.000  | ug/L   | -0.01    |
| Standard Area 1 = 92781      |                |      | Recovery = | 89.32%  |        |          |
| 59) Chlorobenzene-d5         | 9.760          | 117  | 63222      | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 71520      |                |      | Recovery = | 88.40%  |        |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.408         | 152  | 32143      | 20.000  | ug/L   | 0.00     |
| Standard Area 1 = 38760      |                |      | Recovery = | 82.93%  |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 36) Dibromofluoromethane     | 5.393          | 113  | 24137      | 20.533  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.67% |        |          |
| 43) 1,2-Dichloroethane-d4    | 5.923          | 65   | 27470      | 19.584  | ug/L   | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.92%  |        |          |
| 60) Toluene-d8               | 7.904          | 98   | 84053      | 19.464  | ug/L   | -0.01    |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.32%  |        |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 33908      | 20.309  | ug/L   | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 101.55% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0          | N.D.    |        |          |
| 3) Chloromethane             | 1.917          | 50   | 2020       | 1.295   | ug/L # | 87       |
| 4) Vinyl chloride            | 0.000          |      | 0          | N.D.    |        |          |
| 5) Bromomethane              | 2.326          | 94   | 6258M1     | 11.601  | ug/L   |          |
| 6) Chloroethane              | 0.000          |      | 0          | N.D.    |        |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0          | N.D.    |        |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0          | N.D.    |        |          |
| 11) Carbon disulfide         | 3.060          | 76   | 338        | N.D.    |        |          |
| 12) Freon-113                | 0.000          |      | 0          | N.D.    |        |          |
| 15) Methylene chloride       | 3.652          | 84   | 814        | 0.526   | ug/L # | 53       |
| 17) Acetone                  | 0.000          |      | 0          | N.D.    | d      |          |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0          | N.D.    |        |          |
| 19) Methyl acetate           | 0.000          |      | 0          | N.D.    | d      |          |
| 20) Methyl tert-butyl ether  | 0.000          |      | 0          | N.D.    | d      |          |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0          | N.D.    |        |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0          | N.D.    |        |          |
| 31) Cyclohexane              | 0.000          |      | 0          | N.D.    |        |          |
| 32) Chloroform               | 0.000          |      | 0          | N.D.    |        |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0          | N.D.    |        |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0          | N.D.    |        |          |

# Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A05.D  
 Acq On : 28 Dec 2019 9:16 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-5,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 28 12:43:48 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 39)  | 2-Butanone                | 0.000  |      | 0        | N.D.  | d      |          |
| 41)  | Benzene                   | 0.000  |      | 0        | N.D.  |        |          |
| 44)  | 1,2-Dichloroethane        | 0.000  |      | 0        | N.D.  |        |          |
| 47)  | Methyl cyclohexane        | 0.000  |      | 0        | N.D.  |        |          |
| 48)  | Trichloroethene           | 0.000  |      | 0        | N.D.  |        |          |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        | N.D.  |        |          |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        | N.D.  |        |          |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        | N.D.  |        |          |
| 61)  | Toluene                   | 0.000  |      | 0        | N.D.  |        |          |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        | N.D.  |        |          |
| 63)  | Tetrachloroethene         | 0.000  |      | 0        | N.D.  |        |          |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        | N.D.  |        |          |
| 68)  | 1,1,2-Trichloroethane     | 0.000  |      | 0        | N.D.  |        |          |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        | N.D.  |        |          |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        | N.D.  |        |          |
| 72)  | 2-Hexanone                | 0.000  |      | 0        | N.D.  |        |          |
| 73)  | Chlorobenzene             | 0.000  |      | 0        | N.D.  |        |          |
| 74)  | Ethylbenzene              | 0.000  |      | 0        | N.D.  |        |          |
| 76)  | p/m Xylene                | 0.000  |      | 0        | N.D.  |        |          |
| 77)  | o Xylene                  | 0.000  |      | 0        | N.D.  |        |          |
| 78)  | Styrene                   | 0.000  |      | 0        | N.D.  |        |          |
| 80)  | Bromoform                 | 0.000  |      | 0        | N.D.  |        |          |
| 82)  | Isopropylbenzene          | 0.000  |      | 0        | N.D.  |        |          |
| 85)  | n-Propylbenzene           | 0.000  |      | 0        | N.D.  |        |          |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        | N.D.  |        |          |
| 90)  | 1,3,5-Trimethylbenzene    | 0.000  |      | 0        | N.D.  |        |          |
| 94)  | tert-Butylbenzene         | 0.000  |      | 0        | N.D.  |        |          |
| 97)  | 1,2,4-Trimethylbenzene    | 12.109 | 105  | 234      | N.D.  |        |          |
| 98)  | sec-Butylbenzene          | 12.109 | 105  | 234      | N.D.  |        |          |
| 99)  | p-Isopropyltoluene        | 12.256 | 119  | 266      | N.D.  |        |          |
| 100) | 1,3-Dichlorobenzene       | 12.424 | 146  | 179      | N.D.  |        |          |
| 101) | 1,4-Dichlorobenzene       | 12.424 | 146  | 179      | N.D.  |        |          |
| 103) | n-Butylbenzene            | 12.697 | 91   | 433      | N.D.  |        |          |
| 104) | 1,2-Dichlorobenzene       | 0.000  |      | 0        | N.D.  |        |          |
| 106) | 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.  |        |          |
| 109) | 1,2,4-Trichlorobenzene    | 14.259 | 180  | 313      | 0.140 | ug/L # | 70       |
| 110) | Naphthalene               | 14.537 | 128  | 1937     | 0.329 | ug/L   | 100      |

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

# Quantitation Report (LSC Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A05.D  
 Acq On : 28 Dec 2019 9:16 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-5,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 28 12:43:48 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

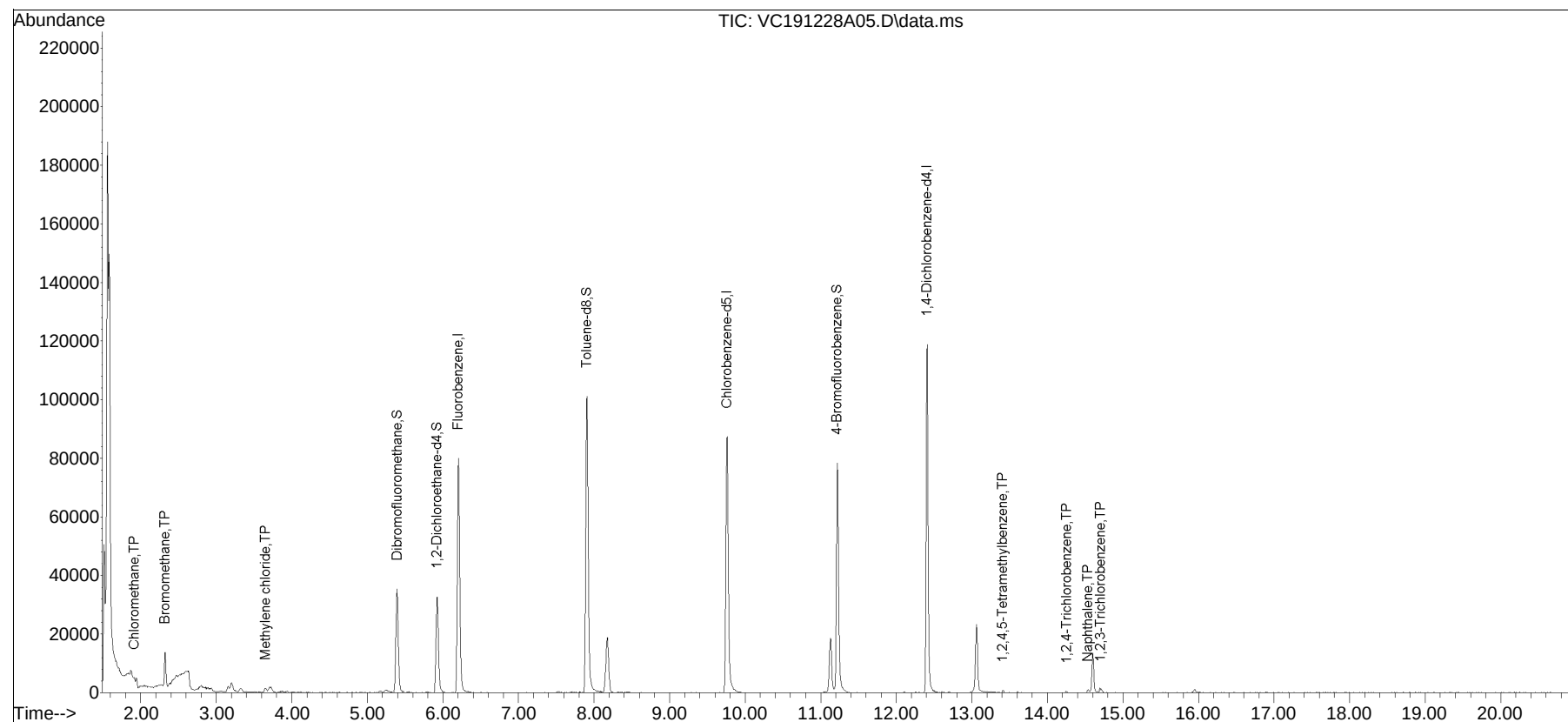
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

# Quantitation Report (LSC Reviewed)

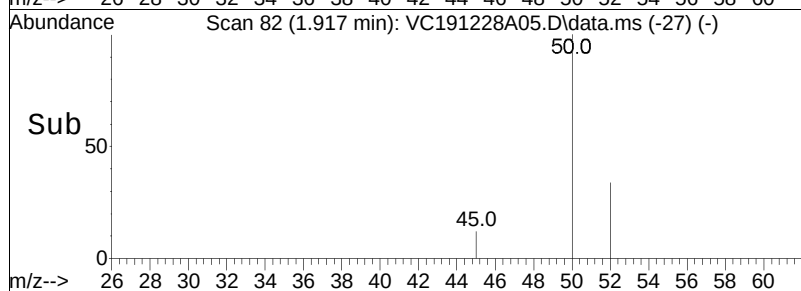
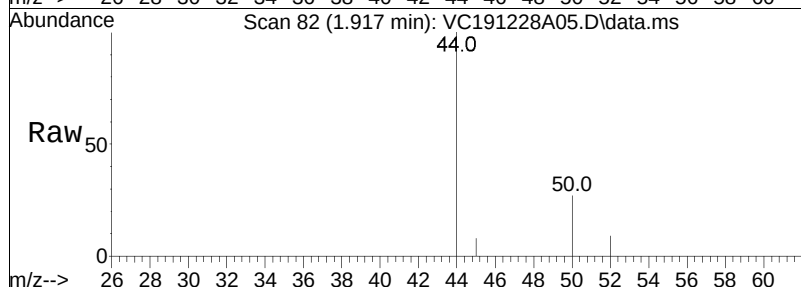
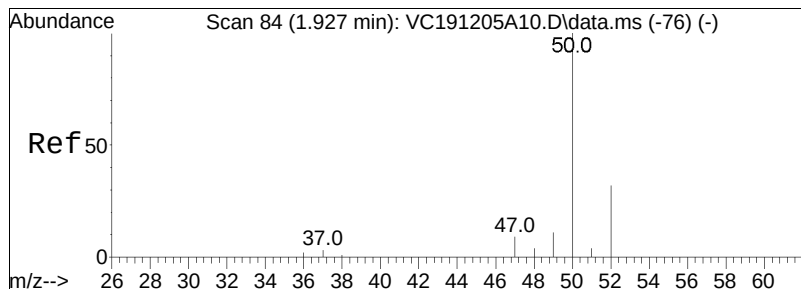
Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A05.D  
 Acq On : 28 Dec 2019 9:16 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-5,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 28 12:43:48 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox28A\VC191228A01.D•

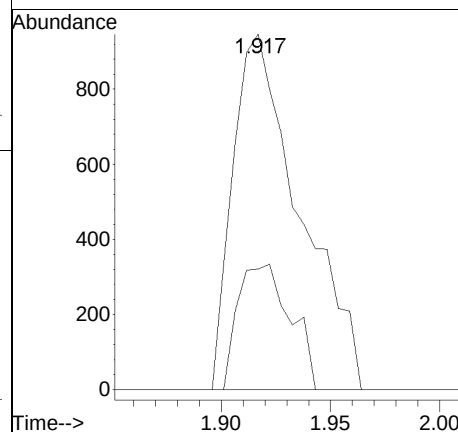


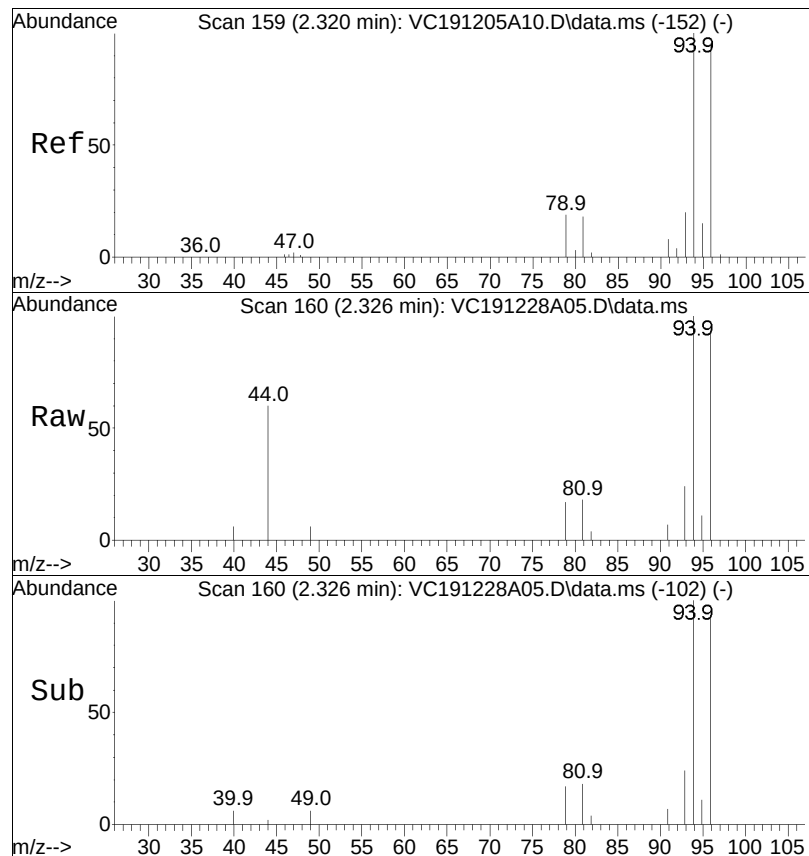




#3  
 Chloromethane  
 Concen: 1.29 ug/L  
 RT: 1.917 min Scan# 82  
 Delta R.T. -0.010 min  
 Lab File: VC191228A05.D  
 Acq: 28 Dec 2019 9:16 am

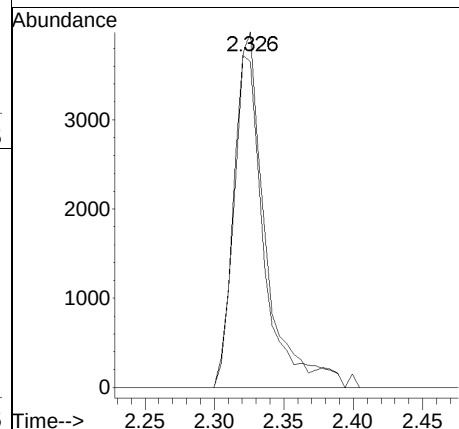
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 50    | Resp: | 2020 |
| Ion Ratio | Lower | Upper |      |
| 50        | 100   |       |      |
| 52        | 27.6  | 13.6  | 53.6 |
| 47        | 0.0   | 0.0   | 28.0 |

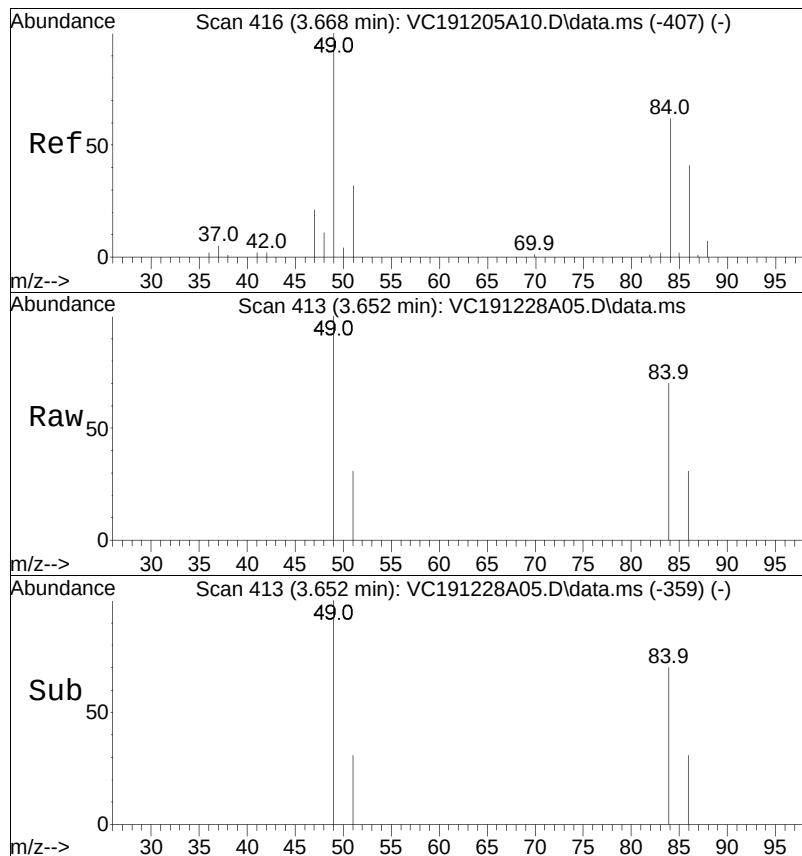




#5  
 Bromomethane  
 Concen: 11.60 ug/L M1  
 RT: 2.326 min Scan# 160  
 Delta R.T. 0.006 min  
 Lab File: VC191228A05.D  
 Acq: 28 Dec 2019 9:16 am

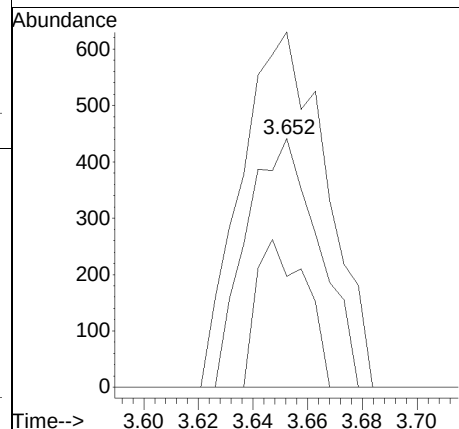
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 96      | 91.1  | 73.8  | 113.8 |

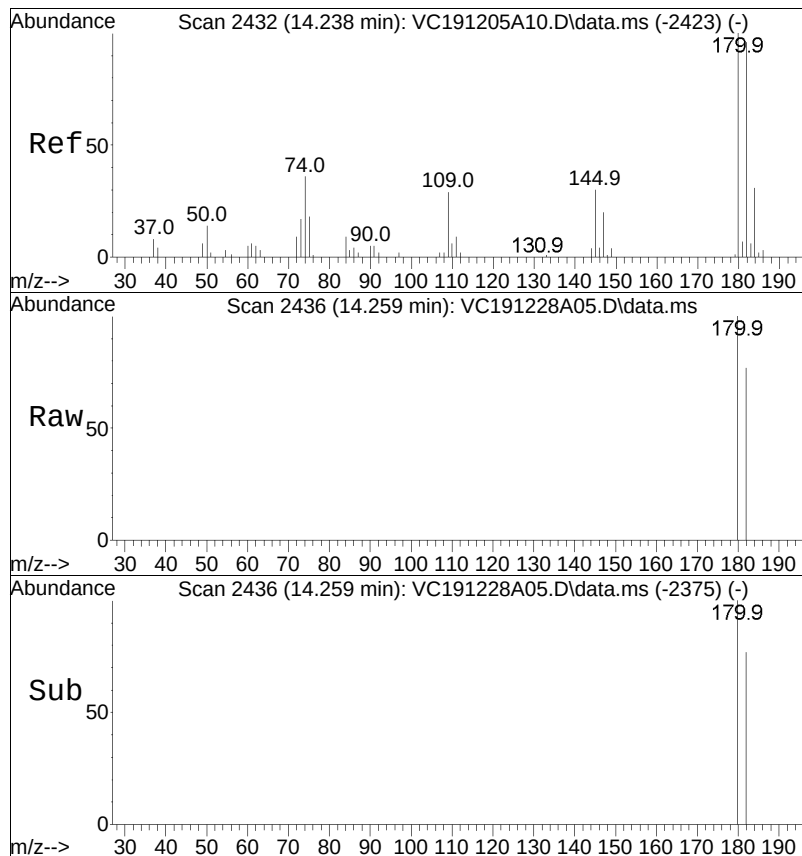




#15  
Methylene chloride  
Concen: 0.53 ug/L  
RT: 3.652 min Scan# 413  
Delta R.T. -0.016 min  
Lab File: VC191228A05.D  
Acq: 28 Dec 2019 9:16 am

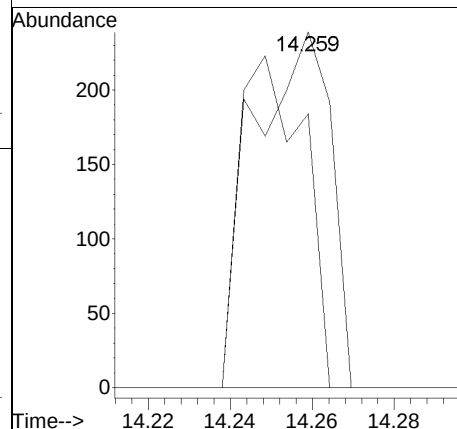
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 84 | Resp: | 814    |
| Ion | Ratio   | Lower | Upper  |
| 84  | 100     |       |        |
| 86  | 39.9    | 41.9  | 86.9#  |
| 49  | 167.8   | 70.3  | 146.1# |

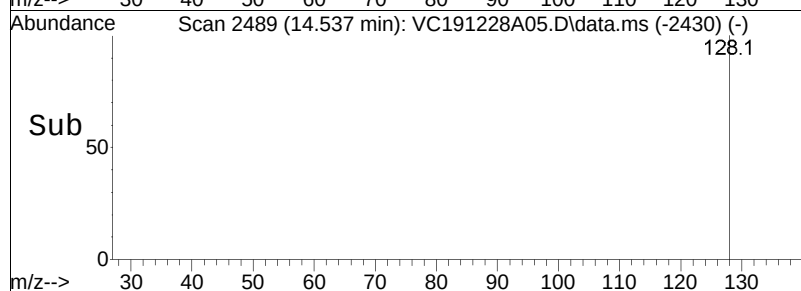
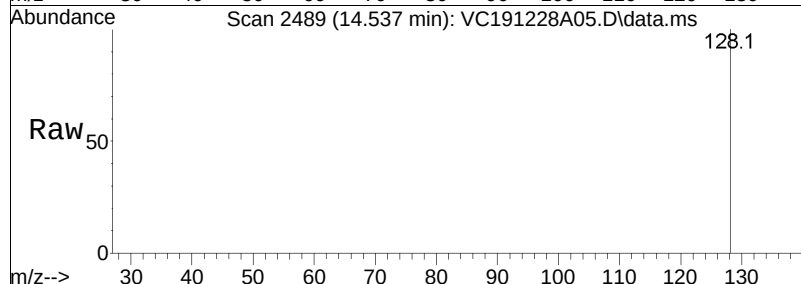
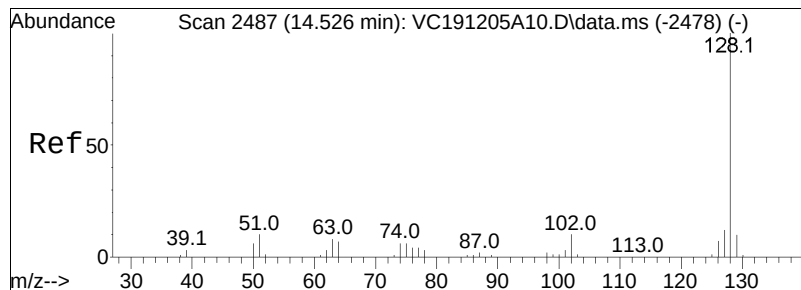




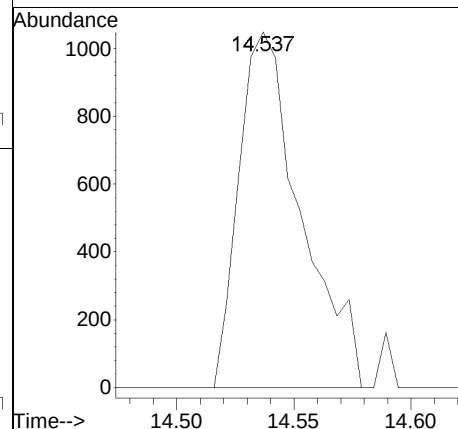
#109  
 1,2,4-Trichlorobenzene  
 Concen: 0.14 ug/L  
 RT: 14.259 min Scan# 2436  
 Delta R.T. 0.021 min  
 Lab File: VC191228A05.D  
 Acq: 28 Dec 2019 9:16 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 77.6  | 77.4  | 116.2 |
| 145     | 0.0   | 26.8  | 40.2# |





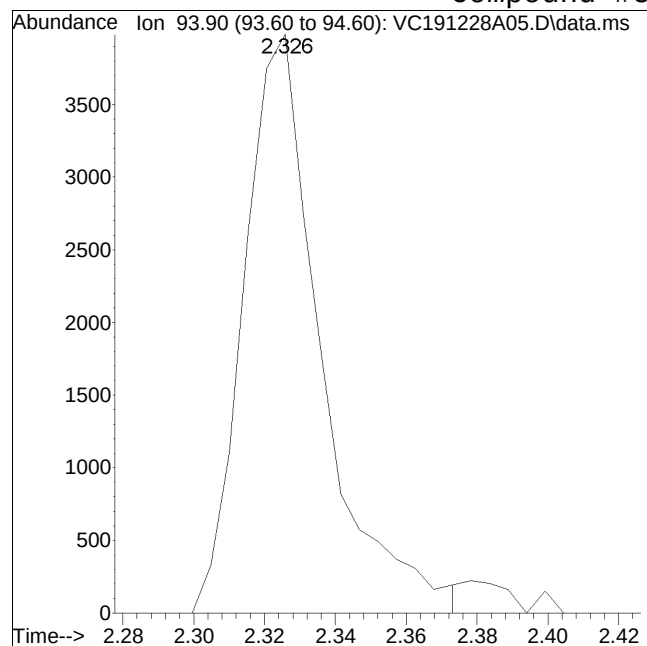
#110  
 Naphthalene  
 Concen: 0.33 ug/L  
 RT: 14.537 min Scan# 2489  
 Delta R.T. 0.011 min  
 Lab File: VC191228A05.D  
 Acq: 28 Dec 2019 9:16 am  
 Tgt Ion:128 Resp: 1937



# Manual Integration Report

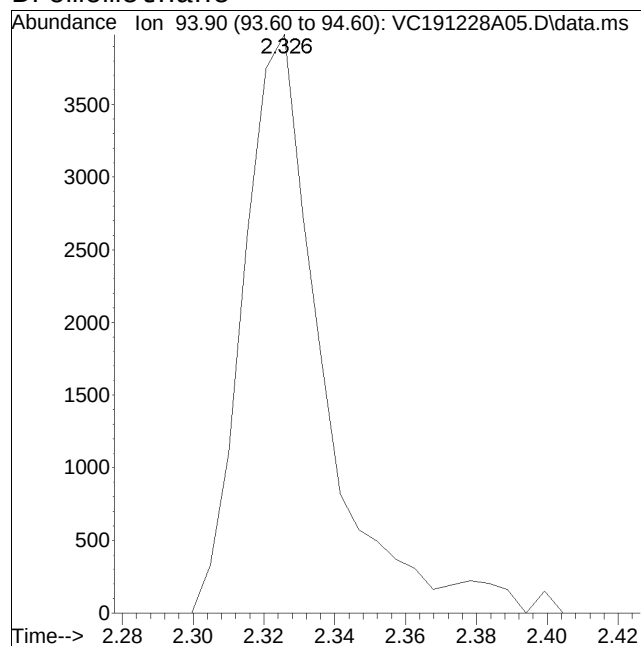
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191228A05.D Operator : CHARLIE:MKS  
Date Inj'd : 12/28/2019 9:16 am Instrument : Charlie  
Sample : WG1325623-5,31,5,5 Quant Date : 12/28/2019 12:43 pm

## Compound #5: Bromomethane



Original Peak Response = 6024

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



Manual Peak Response = 6258 M1

## LSC Area Percent Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A05.D  
 Acq On : 28 Dec 2019 9:16 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-5,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: VC191228A05.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.513       | 3             | 5           | 8            | rBV      | 33908          | 37380         | 15.78%          | 2.334%        |
| 2         | 1.560       | 8             | 14          | 17           | rBV      | 157866         | 236855        | 100.00%         | 14.788%       |
| 3         | 2.326       | 155           | 160         | 166          | rVB      | 11689          | 16019         | 6.76%           | 1.000%        |
| 4         | 2.467       | 175           | 187         | 192          | rBV5     | 2736           | 9285          | 3.92%           | 0.580%        |
| 5         | 5.393       | 735           | 745         | 759          | rBV2     | 35432          | 79184         | 33.43%          | 4.944%        |
| 6         | 5.923       | 837           | 846         | 863          | rBV      | 32847          | 73338         | 30.96%          | 4.579%        |
| 7         | 6.206       | 890           | 900         | 923          | rBV      | 80004          | 180138        | 76.05%          | 11.247%       |
| 8         | 7.904       | 1212          | 1224        | 1247         | rBV      | 101161         | 232613        | 98.21%          | 14.523%       |
| 9         | 8.177       | 1264          | 1276        | 1292         | rVB2     | 18926          | 49935         | 21.08%          | 3.118%        |
| 10        | 9.760       | 1568          | 1578        | 1605         | rBV      | 87470          | 200760        | 84.76%          | 12.534%       |
| 11        | 11.129      | 1828          | 1839        | 1848         | rBV3     | 18428          | 41007         | 17.31%          | 2.560%        |
| 12        | 11.218      | 1848          | 1856        | 1888         | rVB      | 78519          | 162908        | 68.78%          | 10.171%       |
| 13        | 12.408      | 2075          | 2083        | 2108         | rBV      | 118797         | 209701        | 88.54%          | 13.092%       |
| 14        | 13.064      | 2189          | 2208        | 2227         | rBV      | 23319          | 50041         | 21.13%          | 3.124%        |
| 15        | 14.600      | 2493          | 2501        | 2516         | rVB      | 13305          | 22546         | 9.52%           | 1.408%        |

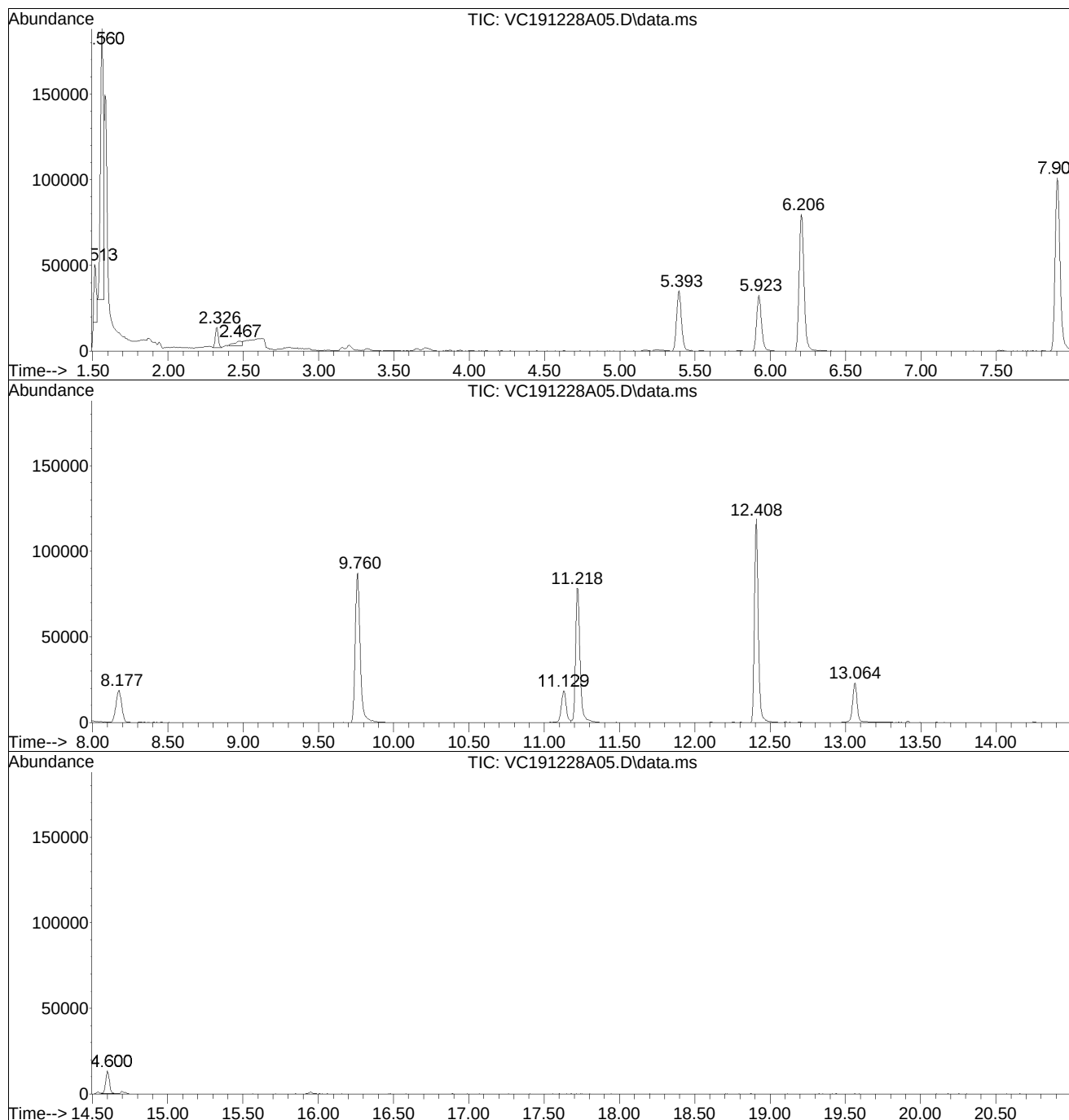
Sum of corrected areas: 1601710

# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A05.D  
Acq On : 28 Dec 2019 9:16 am  
Operator : CHARLIE:MKS  
Sample : WG1325623-5,31,5,5  
Misc : WG1325623,ICAL16358  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p





## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A05.D  
Acq On : 28 Dec 2019 9:16 am  
Operator : CHARLIE:MKS  
Sample : WG1325623-5,31,5,5  
Misc : WG1325623,ICAL16358  
ALS Vial : 5 Sample Multiplier: 1

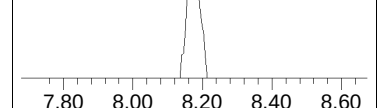
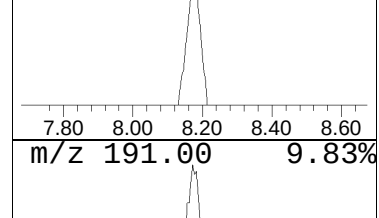
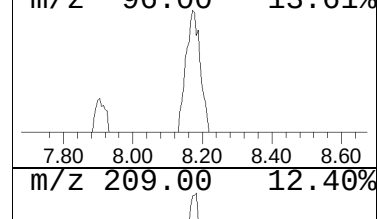
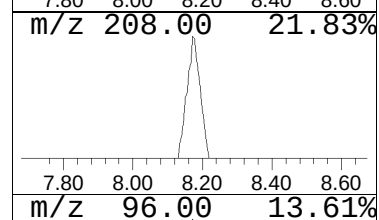
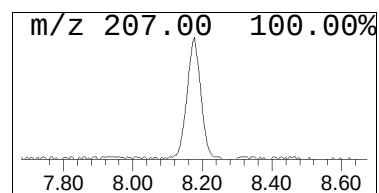
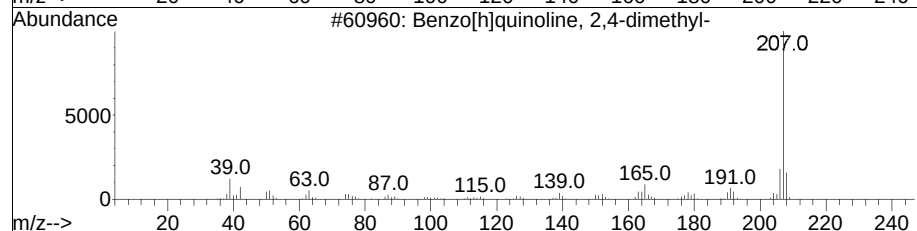
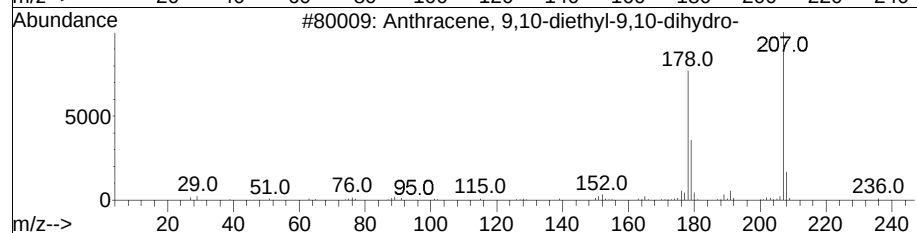
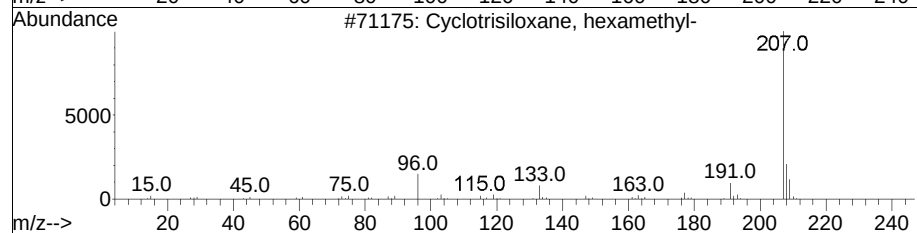
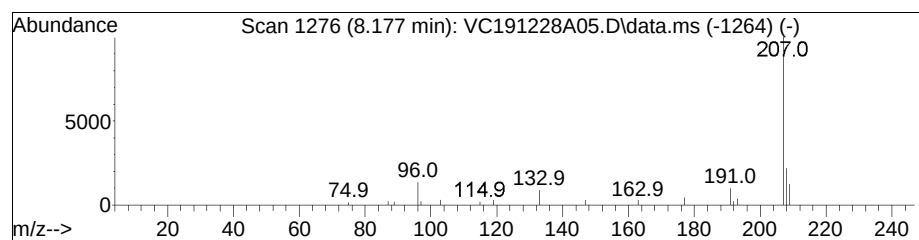
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 3 Cyclotrisiloxane, hexamethyl- Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD | R.T.  |
|-------|-----------|-------|------------------|-------|
| 8.177 | 4.97 ug/L | 49935 | Chlorobenzene-d5 | 9.760 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | Cyclotrisiloxane, hexamethyl-       | 222 | C6H18O3Si3 | 000541-05-9 | 91   |
| 2       |   | Anthracene, 9,10-diethyl-9,10-di... | 236 | C18H20     | 046868-29-5 | 39   |
| 3       |   | Benzo[h]quinoline, 2,4-dimethyl-    | 207 | C15H13N    | 000605-67-4 | 38   |
| 4       |   | 2-Ethylacridine                     | 207 | C15H13N    | 055751-83-2 | 38   |
| 5       |   | 1H-Indole, 1-methyl-2-phenyl-       | 207 | C15H13N    | 003558-24-5 | 38   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A05.D  
Acq On : 28 Dec 2019 9:16 am  
Operator : CHARLIE:MKS  
Sample : WG1325623-5,31,5,5  
Misc : WG1325623,ICAL16358  
ALS Vial : 5 Sample Multiplier: 1

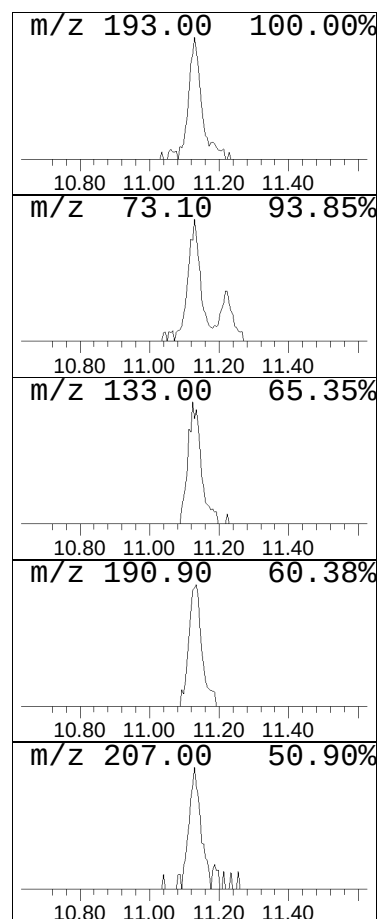
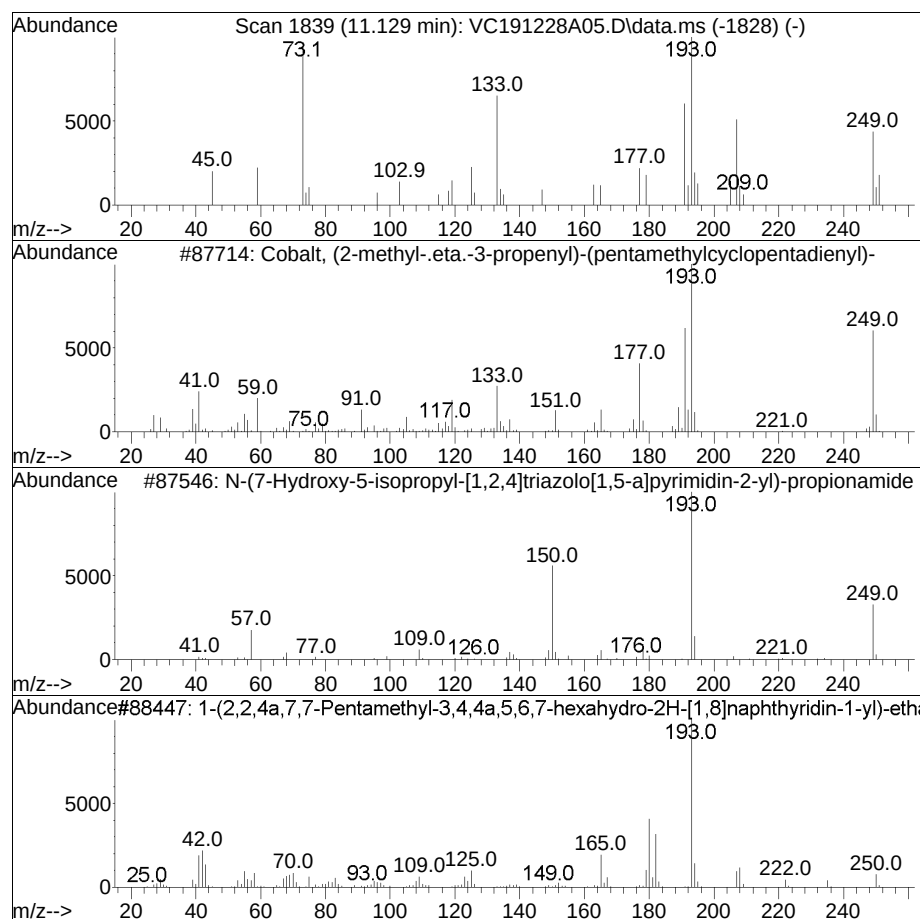
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 4 Unknown Concentration Rank 5

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 11.129 | 3.91 ug/L | 41007 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|---------|---|-------------------------------------|-----|------------|--------------|------|
| 1       |   | Cobalt, (2-methyl-.eta.-3-propen... | 249 | C14H22Co   | 1000157-04-3 | 62   |
| 2       |   | N-(7-Hydroxy-5-isopropyl-[1,2,4]... | 249 | C11H15N5O2 | 1000296-64-7 | 35   |
| 3       |   | 1-(2,2,4a,7,7-Pentamethyl-3,4,4a... | 250 | C15H26N2O  | 069340-64-3  | 35   |
| 4       |   | 1-(10-Methyl-9,10-dihydroanthrac... | 251 | C17H17NO   | 1000210-33-6 | 30   |
| 5       |   | Anthracene, 9,10-dihydro-9,10-di... | 208 | C16H16     | 022566-43-4  | 27   |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A05.D  
Acq On : 28 Dec 2019 9:16 am  
Operator : CHARLIE:MKS  
Sample : WG1325623-5,31,5,5  
Misc : WG1325623,ICAL16358  
ALS Vial : 5 Sample Multiplier: 1

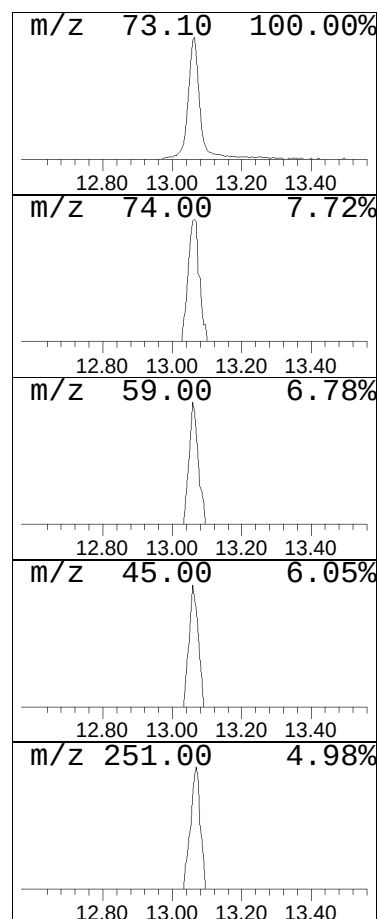
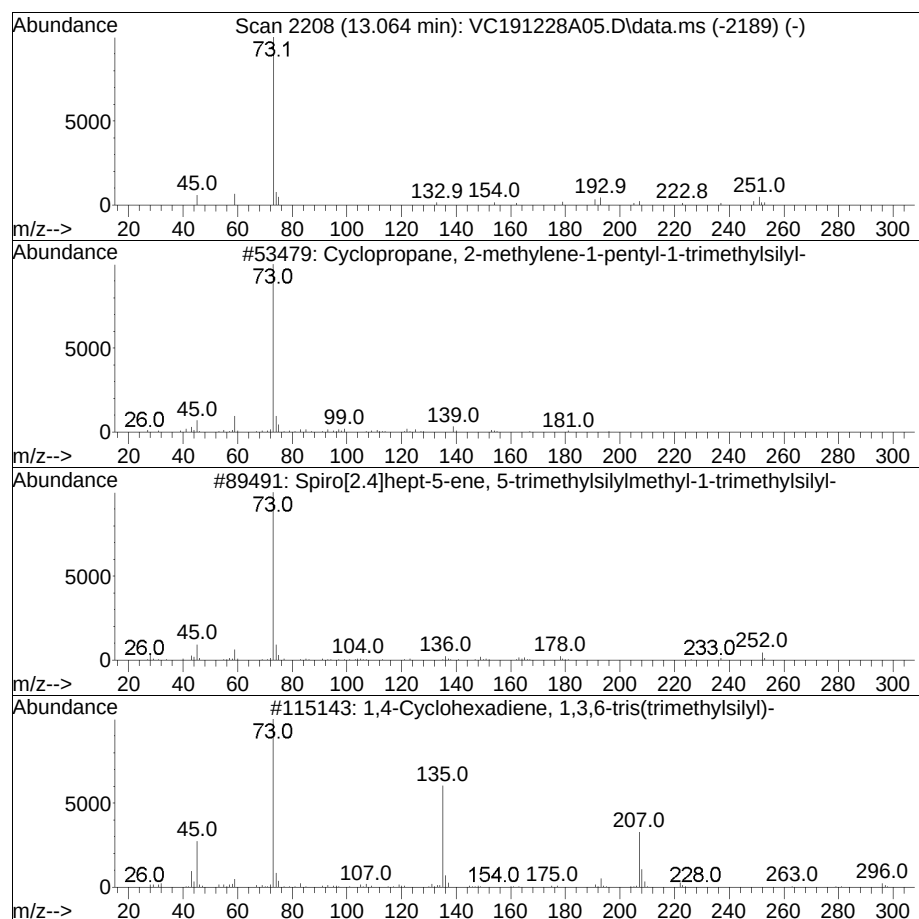
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 5 Unknown Concentration Rank 3

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 13.064 | 4.77 ug/L | 50041 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-----------|--------------|------|
| 1       |   | Cyclopropane, 2-methylene-1-pent... | 196 | C12H24Si  | 167300-47-2  | 9    |
| 2       |   | Spiro[2.4]hept-5-ene, 5-trimethy... | 252 | C14H28Si2 | 1000153-96-9 | 9    |
| 3       |   | 1,4-Cyclohexadiene, 1,3,6-tris(t... | 296 | C15H32Si3 | 1000150-10-8 | 9    |
| 4       |   | N-Ethylformamide                    | 73  | C3H7NO    | 000627-45-2  | 4    |
| 5       |   | Acetamide, N-methyl-                | 73  | C3H7NO    | 000079-16-3  | 4    |



## Library Search Compound Report

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A05.D  
Acq On : 28 Dec 2019 9:16 am  
Operator : CHARLIE:MKS  
Sample : WG1325623-5,31,5,5  
Misc : WG1325623,ICAL16358  
ALS Vial : 5 Sample Multiplier: 1

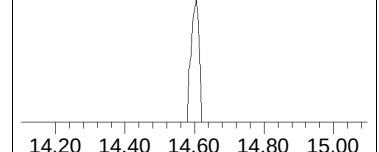
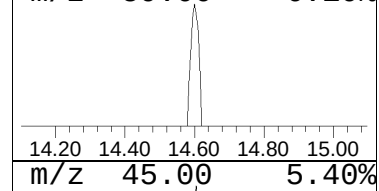
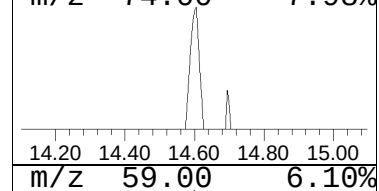
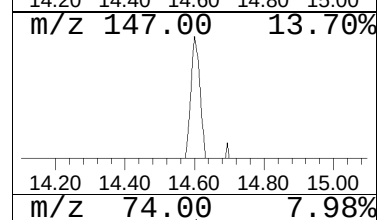
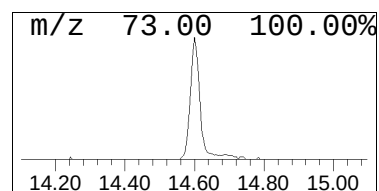
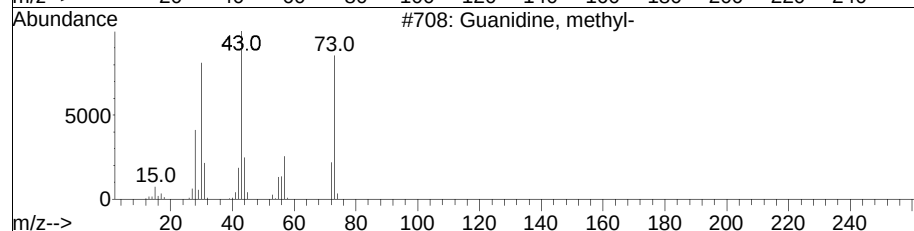
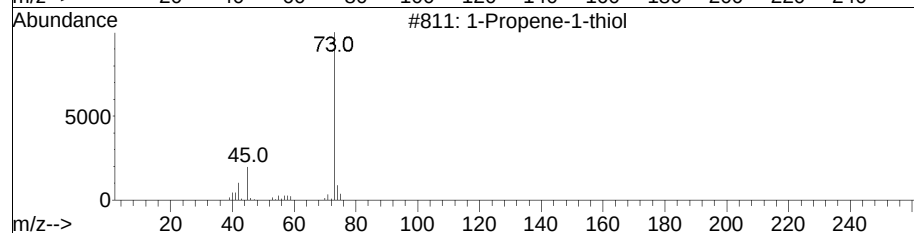
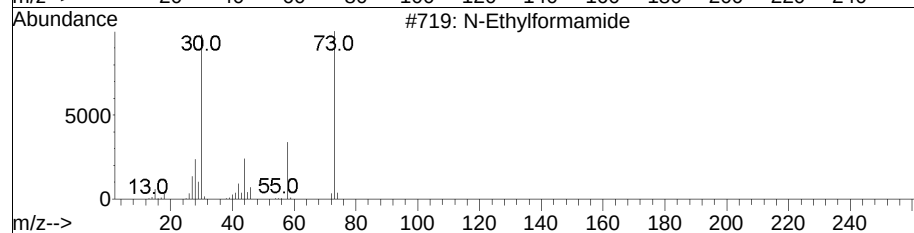
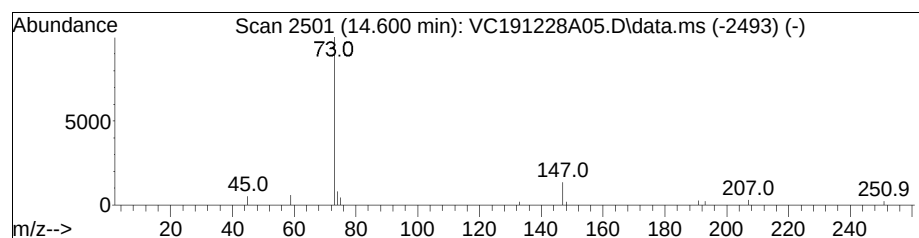
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

\*\*\*\*\*  
Peak Number 6 Unknown Concentration Rank 6

| R.T.   | EstConc   | Area  | Relative to ISTD       | R.T.   |
|--------|-----------|-------|------------------------|--------|
| 14.600 | 2.15 ug/L | 22546 | 1,4-Dichlorobenzene-d4 | 12.408 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|---------|---|-------------------------------------|-----|--------------|--------------|------|
| 1       |   | N-Ethylformamide                    | 73  | C3H7NO       | 000627-45-2  | 4    |
| 2       |   | 1-Propene-1-thiol                   | 74  | C3H6S        | 000925-89-3  | 4    |
| 3       |   | Guanidine, methyl-                  | 73  | C2H7N3       | 000471-29-4  | 4    |
| 4       |   | Formamide, N,N-dimethyl-            | 73  | C3H7NO       | 000068-12-2  | 4    |
| 5       |   | Inosose, 2-desoxy-, O-methyloxim... | 479 | C19H45N05Si4 | 1000149-50-8 | 4    |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A05.D  
 Acq On : 28 Dec 2019 9:16 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-5,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard--- |        |        |      |
|--------------------|--------|---------|-------|----------|------------------------|--------|--------|------|
|                    |        |         |       |          | #                      | RT     | Resp   | Conc |
| Cyclotrisiloxan... | 8.177  | 5.0     | ug/L  | 49935    | 2                      | 9.760  | 200760 | 20.0 |
| Unknown            | 11.129 | 3.9     | ug/L  | 41007    | 3                      | 12.408 | 209701 | 20.0 |
| Unknown            | 13.064 | 4.8     | ug/L  | 50041    | 3                      | 12.408 | 209701 | 20.0 |
| Unknown            | 14.600 | 2.2     | ug/L  | 22546    | 3                      | 12.408 | 209701 | 20.0 |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 08:03:02 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units     | Dev(Min) |
|------------------------------|----------------|------|----------|--------|-----------|----------|
| -----                        |                |      |          |        |           |          |
| Internal Standards           |                |      |          |        |           |          |
| 1) Fluorobenzene             | 5.454          | 96   | 330694   | 20.000 | ug/L      | 0.00     |
| Standard Area 1 = 340789     |                |      | Recovery | =      | 97.04%    |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 278785   | 20.000 | ug/L      | 0.00     |
| Standard Area 1 = 288898     |                |      | Recovery | =      | 96.50%    |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 149345   | 20.000 | ug/L      | 0.00     |
| Standard Area 1 = 151324     |                |      | Recovery | =      | 98.69%    |          |
| System Monitoring Compounds  |                |      |          |        |           |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 84306    | 19.152 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 95.76%    |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 83563    | 17.765 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 88.83%    |          |
| 60) Toluene-d8               | 7.100          | 98   | 350645   | 18.037 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 90.18%    |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 153660   | 19.947 | ug/L      | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.73%    |          |
| Target Compounds             |                |      |          |        |           |          |
|                              |                |      |          |        |           | Qvalue   |
| 2) Dichlorodifluoromethane   | 0.000          |      | 0        |        | N.D.      |          |
| 3) Chloromethane             | 0.000          |      | 0        |        | N.D. d    |          |
| 4) Vinyl chloride            | 0.000          |      | 0        |        | N.D.      |          |
| 5) Bromomethane              | 1.962          | 94   | 1131     |        | Below Cal | 88       |
| 6) Chloroethane              | 0.000          |      | 0        |        | N.D.      |          |
| 7) Trichlorofluoromethane    | 0.000          |      | 0        |        | N.D.      |          |
| 10) 1,1-Dichloroethene       | 0.000          |      | 0        |        | N.D.      |          |
| 11) Carbon disulfide         | 2.612          | 76   | 2494     | 0.180  | ug/L #    | 82       |
| 12) Freon-113                | 0.000          |      | 0        |        | N.D.      |          |
| 15) Methylene chloride       | 3.089          | 84   | 533      | 0.113  | ug/L      | 87       |
| 17) Acetone                  | 3.142          | 43   | 1483     | 1.382  | ug/L #    | 86       |
| 18) trans-1,2-Dichloroethene | 0.000          |      | 0        |        | N.D.      |          |
| 19) Methyl acetate           | 0.000          |      | 0        |        | N.D. d    |          |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 2895     | 0.268  | ug/L #    | 57       |
| 23) 1,1-Dichloroethane       | 0.000          |      | 0        |        | N.D.      |          |
| 28) cis-1,2-Dichloroethene   | 0.000          |      | 0        |        | N.D.      |          |
| 31) Cyclohexane              | 0.000          |      | 0        |        | N.D.      |          |
| 32) Chloroform               | 0.000          |      | 0        |        | N.D.      |          |
| 34) Carbon tetrachloride     | 0.000          |      | 0        |        | N.D.      |          |
| 37) 1,1,1-Trichloroethane    | 0.000          |      | 0        |        | N.D.      |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 08:03:02 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|-------|----------|
| 39)  | 2-Butanone                | 0.000  |      | 0        | N.D.  | d     |          |
| 41)  | Benzene                   | 5.050  | 78   | 207      | N.D.  |       |          |
| 44)  | 1,2-Dichloroethane        | 5.244  | 62   | 111      | N.D.  |       |          |
| 47)  | Methyl cyclohexane        | 0.000  |      | 0        | N.D.  |       |          |
| 48)  | Trichloroethene           | 0.000  |      | 0        | N.D.  |       |          |
| 51)  | 1,2-Dichloropropane       | 0.000  |      | 0        | N.D.  |       |          |
| 54)  | Bromodichloromethane      | 0.000  |      | 0        | N.D.  |       |          |
| 58)  | cis-1,3-Dichloropropene   | 0.000  |      | 0        | N.D.  |       |          |
| 61)  | Toluene                   | 7.158  | 92   | 435      | N.D.  |       |          |
| 62)  | 4-Methyl-2-pentanone      | 0.000  |      | 0        | N.D.  |       |          |
| 63)  | Tetrachloroethene         | 0.000  |      | 0        | N.D.  |       |          |
| 65)  | trans-1,3-Dichloropropene | 0.000  |      | 0        | N.D.  |       |          |
| 68)  | 1,1,2-Trichloroethane     | 0.000  |      | 0        | N.D.  |       |          |
| 69)  | Chlorodibromomethane      | 0.000  |      | 0        | N.D.  |       |          |
| 71)  | 1,2-Dibromoethane         | 0.000  |      | 0        | N.D.  |       |          |
| 72)  | 2-Hexanone                | 0.000  |      | 0        | N.D.  |       |          |
| 73)  | Chlorobenzene             | 8.936  | 112  | 363      | N.D.  |       |          |
| 74)  | Ethylbenzene              | 8.998  | 91   | 338      | N.D.  |       |          |
| 76)  | p/m Xylene                | 9.187  | 106  | 125      | N.D.  |       |          |
| 77)  | o Xylene                  | 0.000  |      | 0        | N.D.  |       |          |
| 78)  | Styrene                   | 9.811  | 104  | 168      | N.D.  |       |          |
| 80)  | Bromoform                 | 0.000  |      | 0        | N.D.  |       |          |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 51       | N.D.  |       |          |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 56       | N.D.  |       |          |
| 87)  | 1,1,2,2-Tetrachloroethane | 0.000  |      | 0        | N.D.  |       |          |
| 90)  | 1,3,5-Trimethylbenzene    | 10.896 | 105  | 58       | N.D.  |       |          |
| 94)  | tert-Butylbenzene         | 0.000  |      | 0        | N.D.  |       |          |
| 97)  | 1,2,4-Trimethylbenzene    | 11.342 | 105  | 348      | N.D.  |       |          |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 57       | N.D.  |       |          |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 58       | N.D.  |       |          |
| 100) | 1,3-Dichlorobenzene       | 11.678 | 146  | 353      | N.D.  |       |          |
| 101) | 1,4-Dichlorobenzene       | 11.767 | 146  | 505      | N.D.  |       |          |
| 103) | n-Butylbenzene            | 12.066 | 91   | 197      | N.D.  |       |          |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 65       | N.D.  |       |          |
| 106) | 1,2-Dibromo-3-chloropr... | 0.000  |      | 0        | N.D.  |       |          |
| 109) | 1,2,4-Trichlorobenzene    | 13.654 | 180  | 567      | N.D.  |       |          |
| 110) | Naphthalene               | 13.943 | 128  | 2078     | 0.180 | ug/L  | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 08:03:02 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

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

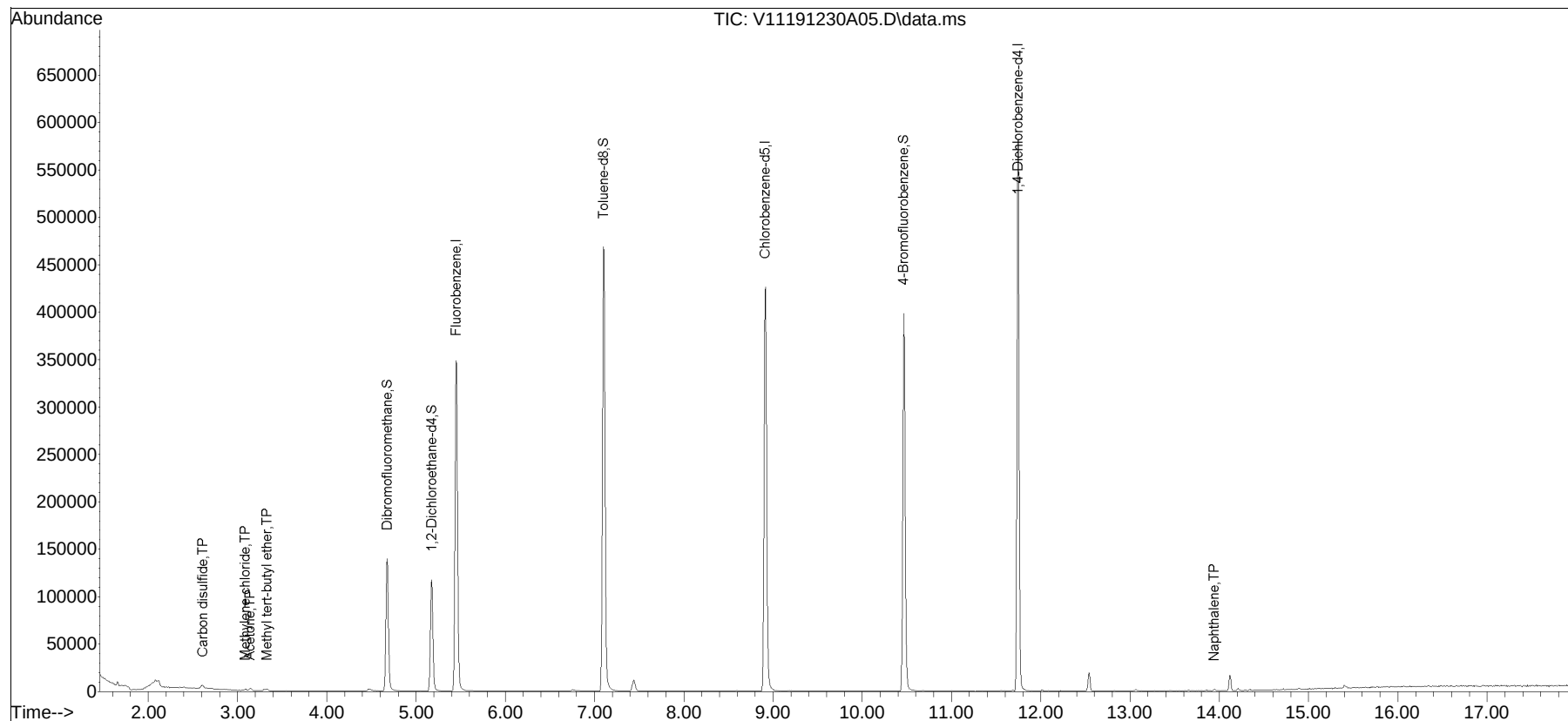


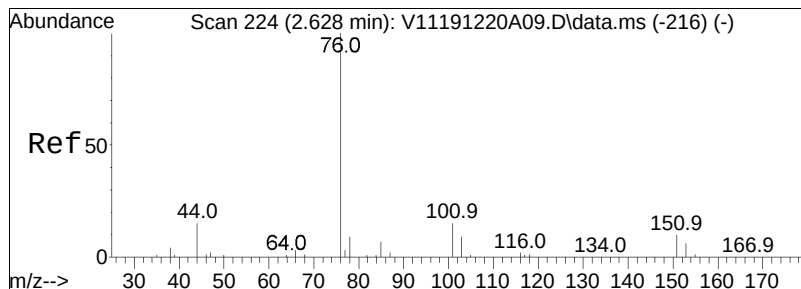
# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 08:03:02 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

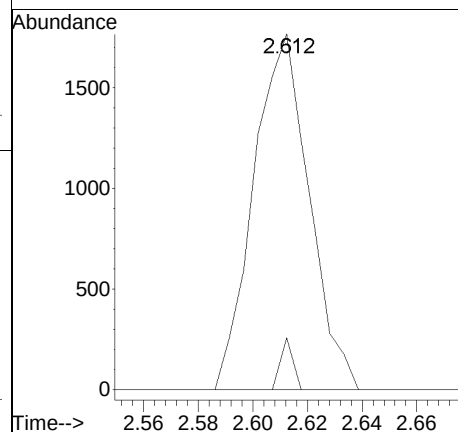
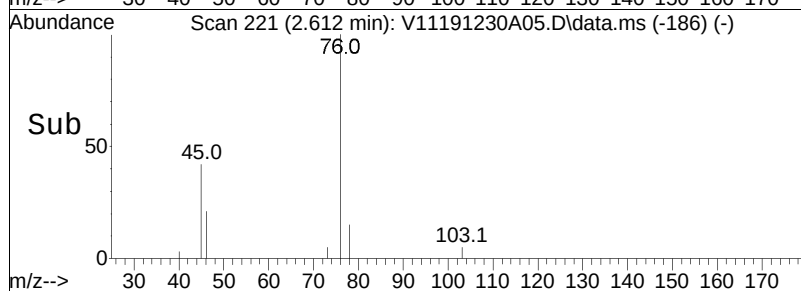
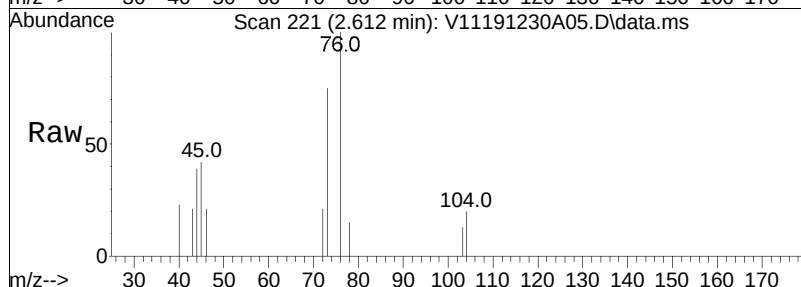
Sub List : 8260-CurveSoil - Megamix plus Diox0A\V11191230A01.D•

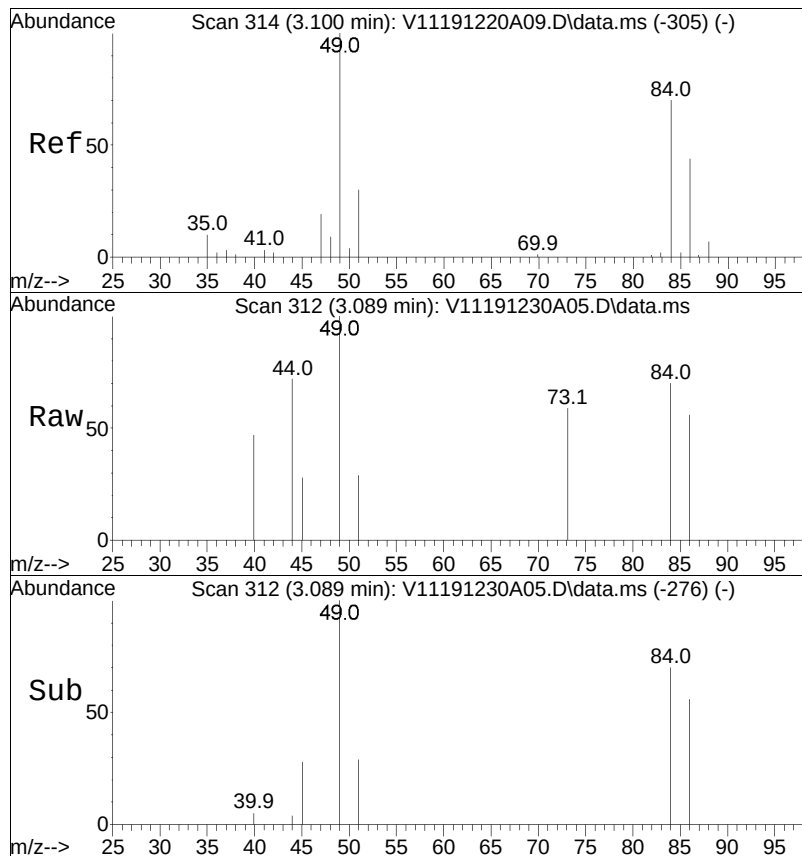




#11  
 Carbon disulfide  
 Concen: 0.18 ug/L  
 RT: 2.612 min Scan# 221  
 Delta R.T. -0.016 min  
 Lab File: V11191230A05.D  
 Acq: 30 Dec 2019 07:20 am

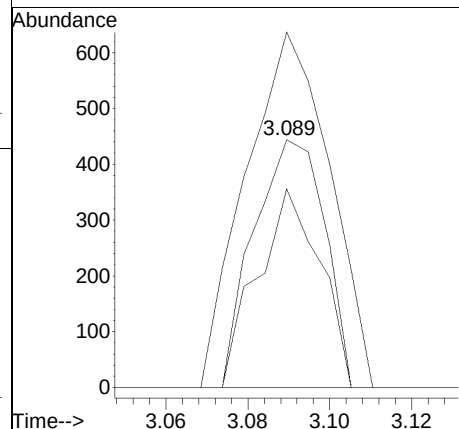
Tgt Ion: 76 Resp: 2494  
 Ion Ratio Lower Upper  
 76 100  
 78 3.2 6.4 13.4#

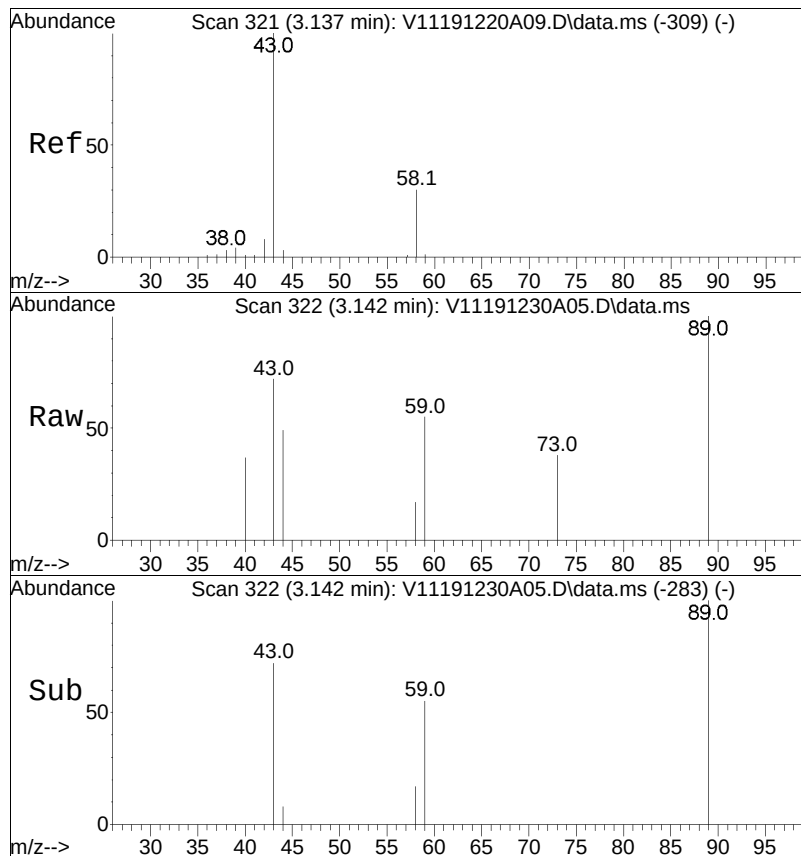




#15  
Methylene chloride  
Concen: 0.11 ug/L  
RT: 3.089 min Scan# 312  
Delta R.T. -0.011 min  
Lab File: V11191230A05.D  
Acq: 30 Dec 2019 07:20 am

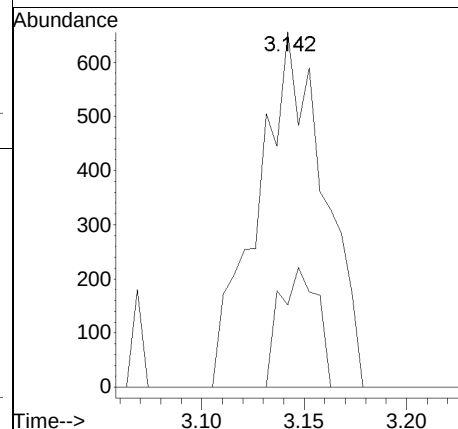
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 84    | Resp: | 533   |
| Ion Ratio | Lower | Upper |       |
| 84        | 100   |       |       |
| 86        | 70.9  | 41.1  | 85.3  |
| 49        | 170.0 | 124.2 | 258.0 |

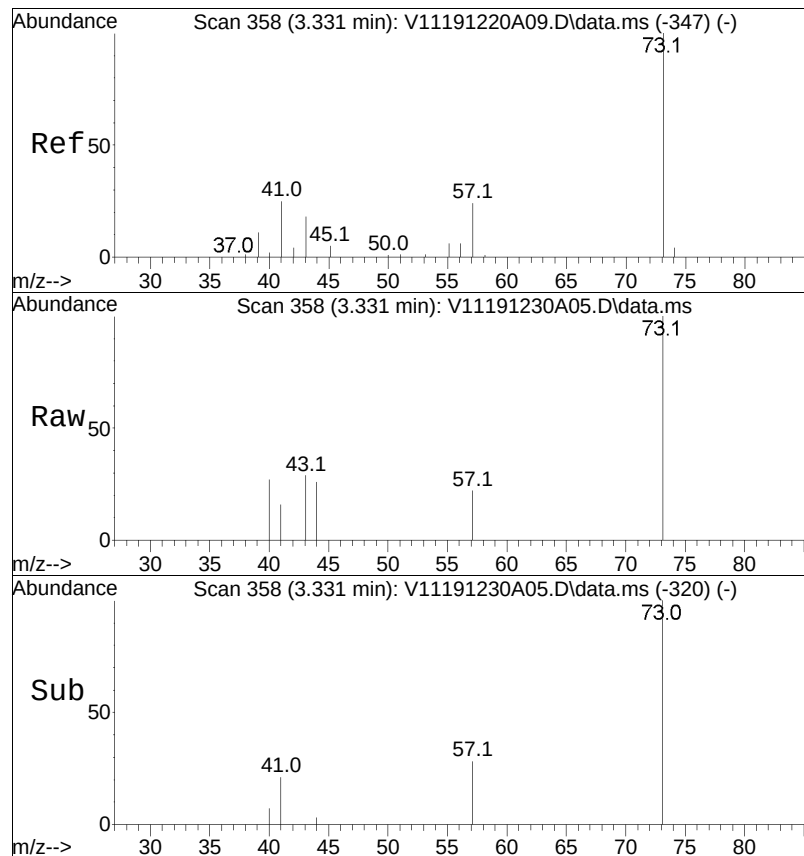




#17  
 Acetone  
 Concen: 1.38 ug/L  
 RT: 3.142 min Scan# 322  
 Delta R.T. 0.005 min  
 Lab File: V11191230A05.D  
 Acq: 30 Dec 2019 07:20 am

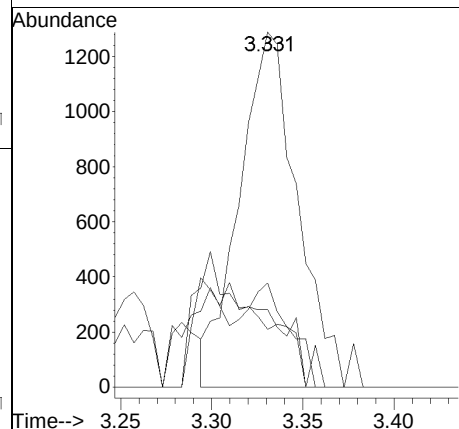
| Tgt Ion: | 43 | 58 | Ratio | 100 | 19.0 | Resp: | 1483 | Lower | Upper |
|----------|----|----|-------|-----|------|-------|------|-------|-------|
|          |    |    |       |     |      |       |      | 20.8  | 31.2# |

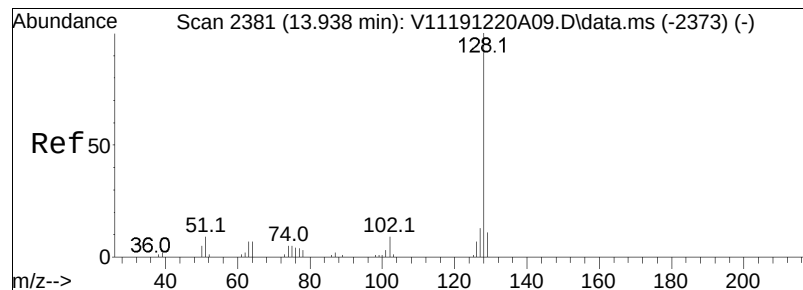




#20  
Methyl tert-butyl ether  
Concen: 0.27 ug/L  
RT: 3.331 min Scan# 358  
Delta R.T. -0.000 min  
Lab File: V11191230A05.D  
Acq: 30 Dec 2019 07:20 am

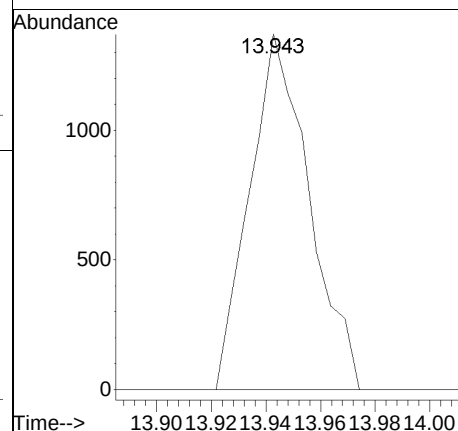
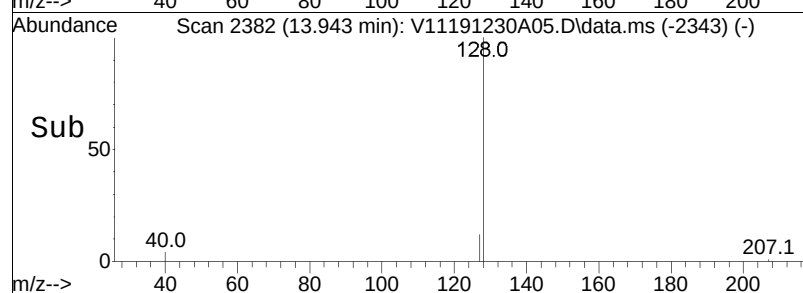
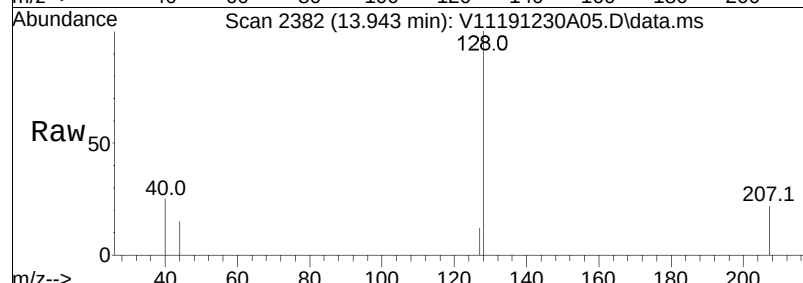
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 2895  |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 57       | 0.0   | 19.6  | 40.6# |
| 43       | 20.1  | 18.5  | 38.3  |
| 41       | 0.0   | 20.3  | 42.1# |





#110  
Naphthalene  
Concen: 0.18 ug/L  
RT: 13.943 min Scan# 2382  
Delta R.T. 0.005 min  
Lab File: V11191230A05.D  
Acq: 30 Dec 2019 07:20 am

Tgt Ion:128 Resp: 2078



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191230A05.D Operator : VOA111:MV  
Date Inj'd : 12/30/2019 7:20 am Instrument : VOA111  
Sample : WG1325794-5,31h,15,15,0.1 Quant Date : 12/30/2019 7:43 am

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

# LSC Area Percent Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Title : VOLATILES BY GC/MS

Signal : TIC: V11191230A05.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.083       | 93            | 120         | 123          | rBV7     | 9917           | 48453         | 5.17%           | 1.029%        |
| 2         | 4.678       | 604           | 615         | 636          | rBV      | 139959         | 277894        | 29.67%          | 5.904%        |
| 3         | 5.176       | 701           | 710         | 731          | rBV      | 117312         | 230523        | 24.61%          | 4.898%        |
| 4         | 5.449       | 753           | 762         | 787          | rBV      | 348302         | 691500        | 73.83%          | 14.691%       |
| 5         | 7.100       | 1067          | 1077        | 1108         | rBV      | 468313         | 936607        | 100.00%         | 19.898%       |
| 6         | 8.915       | 1413          | 1423        | 1445         | rBV      | 426034         | 846844        | 90.42%          | 17.991%       |
| 7         | 10.467      | 1710          | 1719        | 1749         | rBV      | 398087         | 728806        | 77.81%          | 15.484%       |
| 8         | 11.746      | 1955          | 1963        | 1989         | rVB      | 581061         | 913980        | 97.58%          | 19.418%       |
| 9         | 12.538      | 2106          | 2114        | 2124         | rBV      | 19548          | 32326         | 3.45%           | 0.687%        |

Sum of corrected areas: 4706933

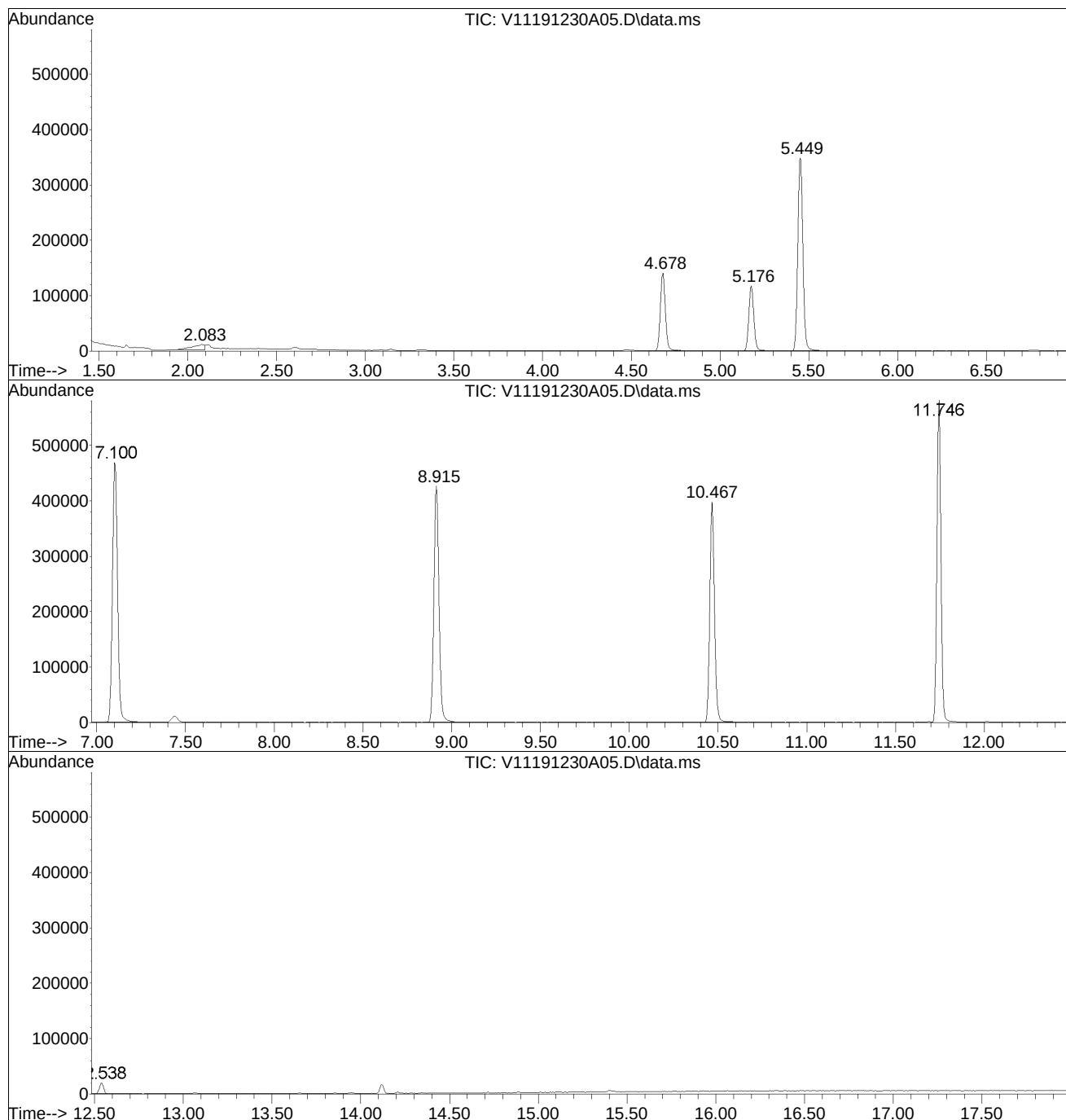


# LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5, 31h, 15, 15, 0.1  
 Misc : WG1325794, ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p



# Library Search Compound Report

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A05.D  
Acq On : 30 Dec 2019 07:20 am  
Operator : VOA111:MV  
Sample : WG1325794-5,31h,15,15,0.1  
Misc : WG1325794,ICAL16383  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected

\*\*\*\*\*

# Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A05.D  
 Acq On : 30 Dec 2019 07:20 am  
 Operator : VOA111:MV  
 Sample : WG1325794-5,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: rteint.p

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard--<br># RT Resp Conc |
|------------------|----|---------|-------|----------|-----------------------------------------|
| -----            |    |         |       |          |                                         |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-3,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.449          | 96   | 272895   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 221514   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 120351   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 100.00% |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 75496    | 20.783 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 103.92% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 74637    | 19.228 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 96.14%  |          |
| 60) Toluene-d8               | 7.101          | 98   | 304770   | 19.730 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 98.65%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 123688   | 19.925 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.63%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 110107   | 34.746 | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 145939   | 33.218 | ug/L    | 99       |
| 4) Vinyl chloride            | 1.700          | 62   | 161626   | 40.255 | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 104599   | 47.565 | ug/L    | 98       |
| 6) Chloroethane              | 2.062          | 64   | 108248   | 45.984 | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 178146   | 37.380 | ug/L    | 99       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 114434   | 41.171 | ug/L    | 90       |
| 11) Carbon disulfide         | 2.628          | 76   | 398247   | 34.880 | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 121847   | 41.803 | ug/L    | 95       |
| 15) Methylene chloride       | 3.095          | 84   | 142583   | 36.541 | ug/L    | 73       |
| 17) Acetone                  | 3.132          | 43   | 32778    | 37.025 | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 136251   | 42.281 | ug/L    | 91       |
| 19) Methyl acetate           | 3.242          | 43   | 88336    | 37.378 | ug/L    | # 88     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 371821   | 41.698 | ug/L    | 89       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 284013   | 41.756 | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.254          | 96   | 159669   | 44.979 | ug/L    | 90       |
| 31) Cyclohexane              | 4.442          | 56   | 273344   | 49.353 | ug/L    | 80       |
| 32) Chloroform               | 4.511          | 83   | 269540   | 42.775 | ug/L    | 96       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 197897   | 46.021 | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.694          | 97   | 225794   | 44.459 | ug/L    | 98       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-3,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 39)  | 2-Butanone                | 4.783  | 43   | 60248    | 44.297 | ug/L  | # 77     |
| 41)  | Benzene                   | 5.045  | 78   | 590150   | 42.226 | ug/L  | 92       |
| 44)  | 1,2-Dichloroethane        | 5.239  | 62   | 189980   | 39.663 | ug/L  | 98       |
| 47)  | Methyl cyclohexane        | 5.612  | 83   | 249783   | 47.980 | ug/L  | # 77     |
| 48)  | Trichloroethene           | 5.622  | 95   | 150909   | 44.604 | ug/L  | 93       |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 166682   | 43.242 | ug/L  | 98       |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 209720   | 42.445 | ug/L  | 99       |
| 58)  | cis-1,3-Dichloropropene   | 6.901  | 75   | 255568   | 45.636 | ug/L  | # 88     |
| 61)  | Toluene                   | 7.158  | 92   | 370947   | 41.363 | ug/L  | 98       |
| 62)  | 4-Methyl-2-pentanone      | 7.593  | 58   | 47288    | 41.408 | ug/L  | # 82     |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 146765   | 43.754 | ug/L  | 98       |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 222888   | 41.599 | ug/L  | # 82     |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 105307   | 39.247 | ug/L  | 98       |
| 69)  | Chlorodibromomethane      | 8.023  | 129  | 140372   | 40.481 | ug/L  | 99       |
| 71)  | 1,2-Dibromoethane         | 8.280  | 107  | 111178   | 39.297 | ug/L  | 97       |
| 72)  | 2-Hexanone                | 8.590  | 43   | 78853    | 39.071 | ug/L  | 94       |
| 73)  | Chlorobenzene             | 8.930  | 112  | 383040   | 39.374 | ug/L  | 96       |
| 74)  | Ethylbenzene              | 8.983  | 91   | 692490   | 42.936 | ug/L  | 98       |
| 76)  | p/m Xylene                | 9.172  | 106  | 522899   | 90.468 | ug/L  | 94       |
| 77)  | o Xylene                  | 9.706  | 106  | 511739   | 91.669 | ug/L  | 95       |
| 78)  | Styrene                   | 9.780  | 104  | 864644   | 92.526 | ug/L  | 97       |
| 80)  | Bromoform                 | 9.796  | 173  | 86072    | 38.506 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 660294   | 42.947 | ug/L  | 98       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 827948   | 41.579 | ug/L  | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 150851   | 35.319 | ug/L  | 99       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 557956   | 41.895 | ug/L  | 98       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 456508   | 42.681 | ug/L  | 96       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 557775   | 42.682 | ug/L  | 98       |
| 98)  | sec-Butylbenzene          | 11.442 | 105  | 713428   | 42.793 | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 11.610 | 119  | 594154   | 44.494 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 316421   | 39.114 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.756 | 146  | 317105   | 38.458 | ug/L  | 99       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 593593   | 42.451 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 286432   | 38.688 | ug/L  | 99       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 20222    | 38.082 | ug/L  | 97       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 197572   | 41.730 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 398123   | 42.828 | ug/L  | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-3,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

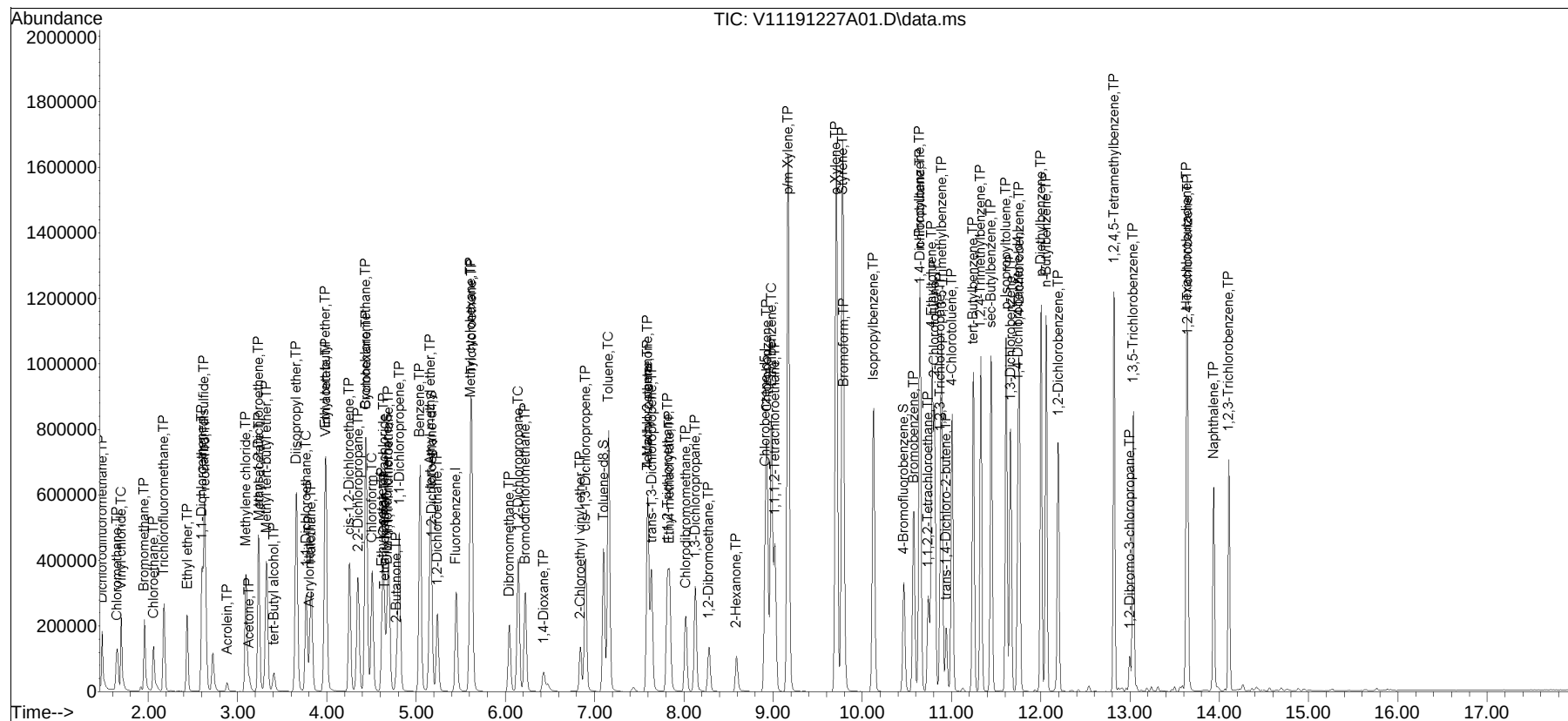
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

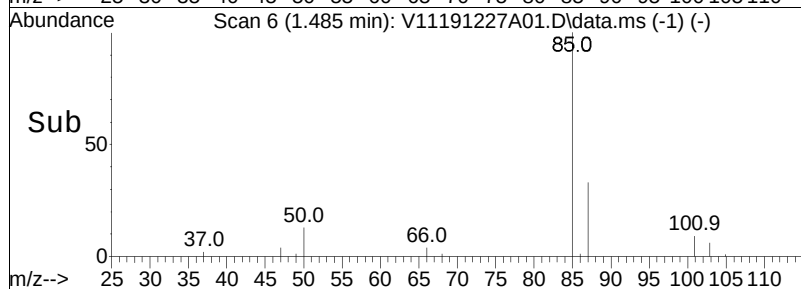
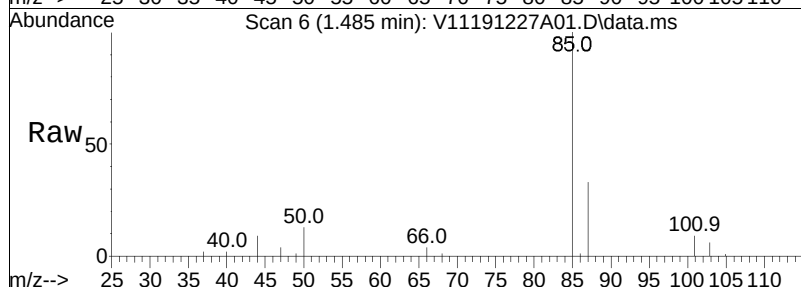
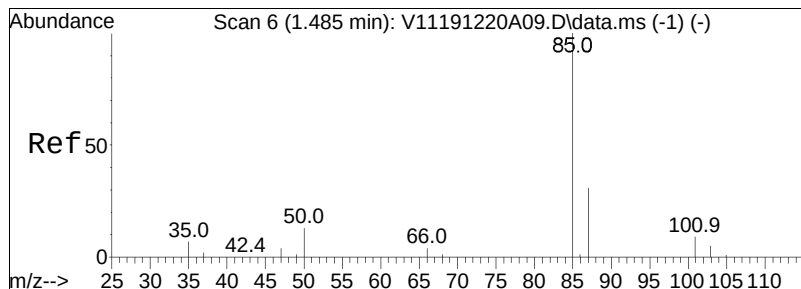
# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325768-3,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

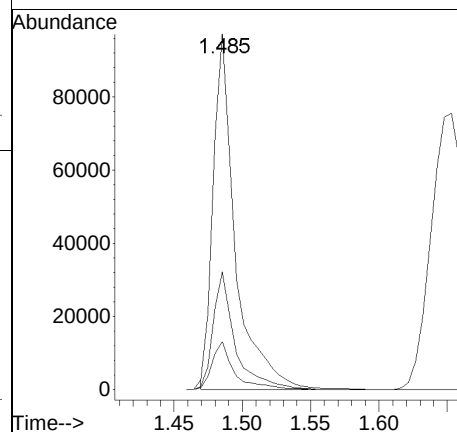
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•



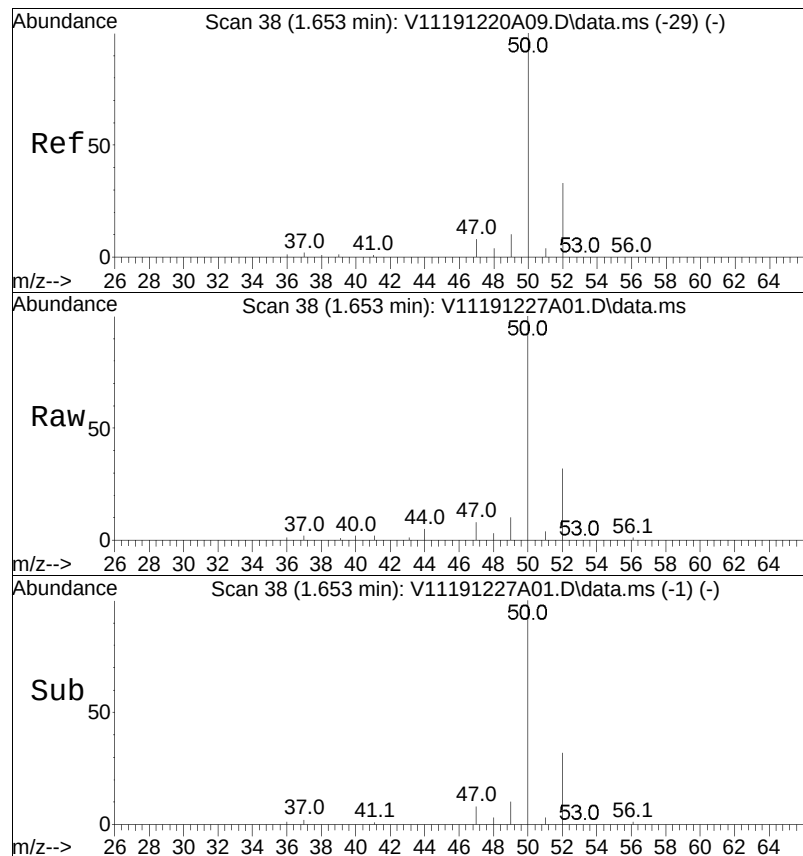


#2  
 Dichlorodifluoromethane  
 Concen: 34.75 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | 85  | 87   | 50   | Ratio | 100 | 32.2 | 13.2 | Resp: | 110107 | Lower | Upper |
|---------|-----|------|------|-------|-----|------|------|-------|--------|-------|-------|
| 85      | 100 |      |      |       |     |      |      |       |        |       |       |
| 87      |     | 32.2 |      |       |     | 20.7 |      |       |        |       |       |
| 50      |     |      | 13.2 |       |     | 9.8  |      |       |        |       | 20.3  |

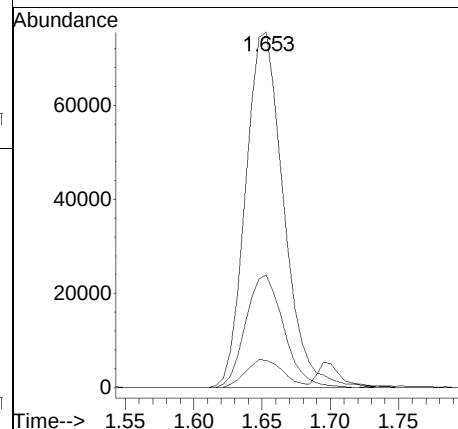


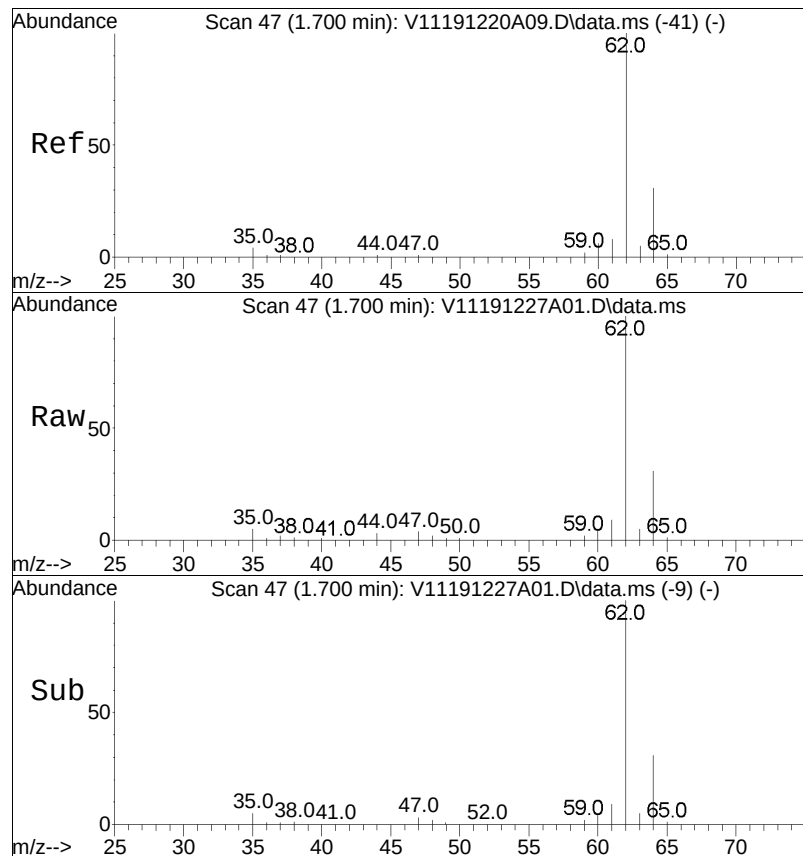




#3  
 Chloromethane  
 Concen: 33.22 ug/L  
 RT: 1.653 min Scan# 38  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

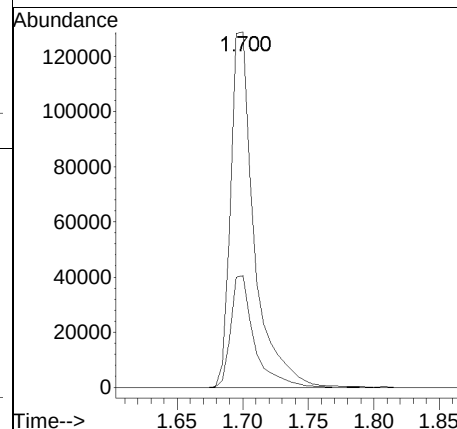
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 50  | 100  |       |       |       |
| 52  | 31.7 | 10.9  | 50.9  |       |
| 47  | 7.8  | 0.0   | 27.2  |       |

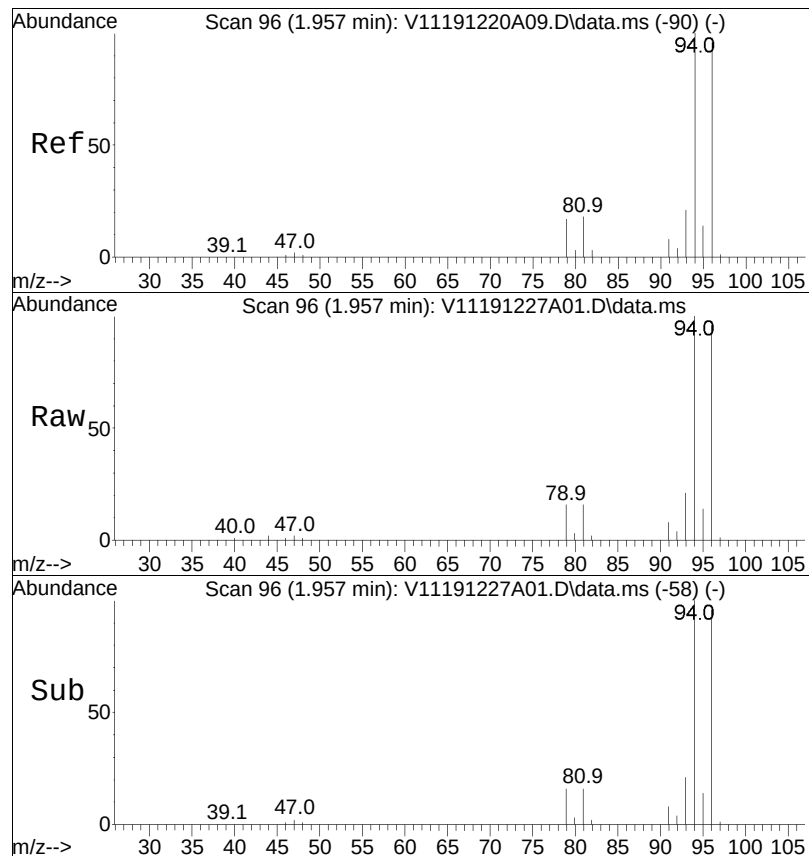




#4  
 Vinyl chloride  
 Concen: 40.26 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

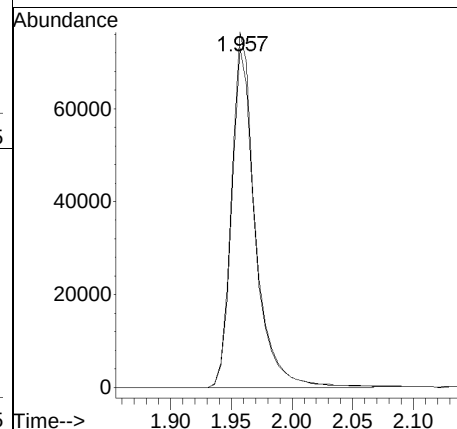
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.3  | 9.9   | 49.9  |

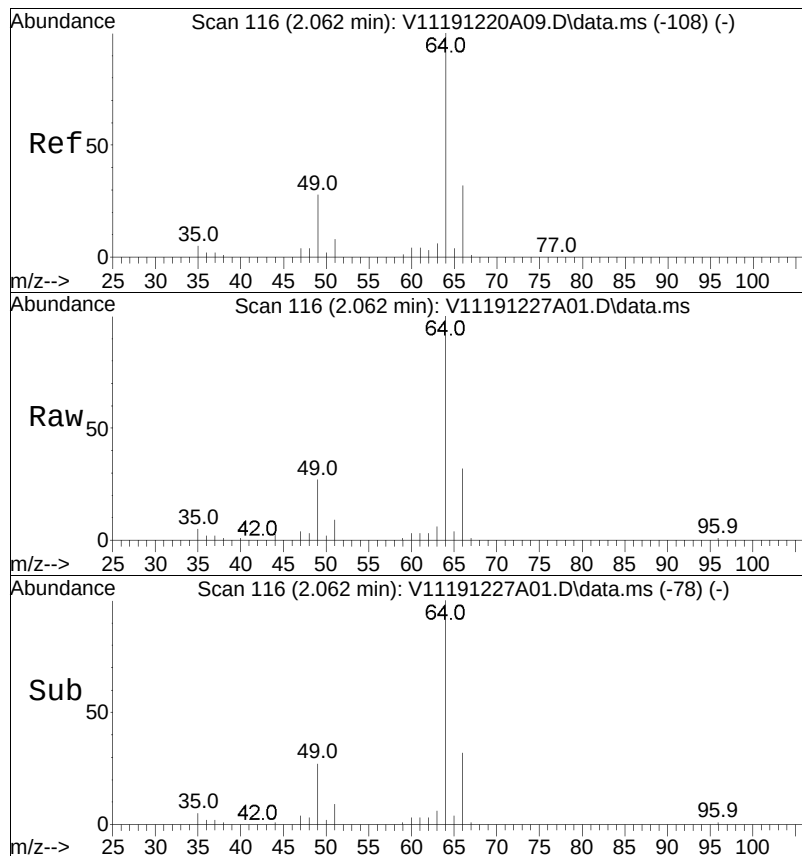




#5  
 Bromomethane  
 Concen: 47.57 ug/L  
 RT: 1.957 min Scan# 96  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

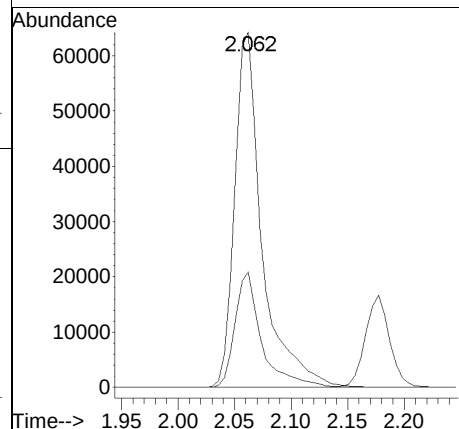
Tgt Ion: 94 Resp: 104599  
 Ion Ratio Lower Upper  
 94 100  
 96 94.3 72.6 112.6

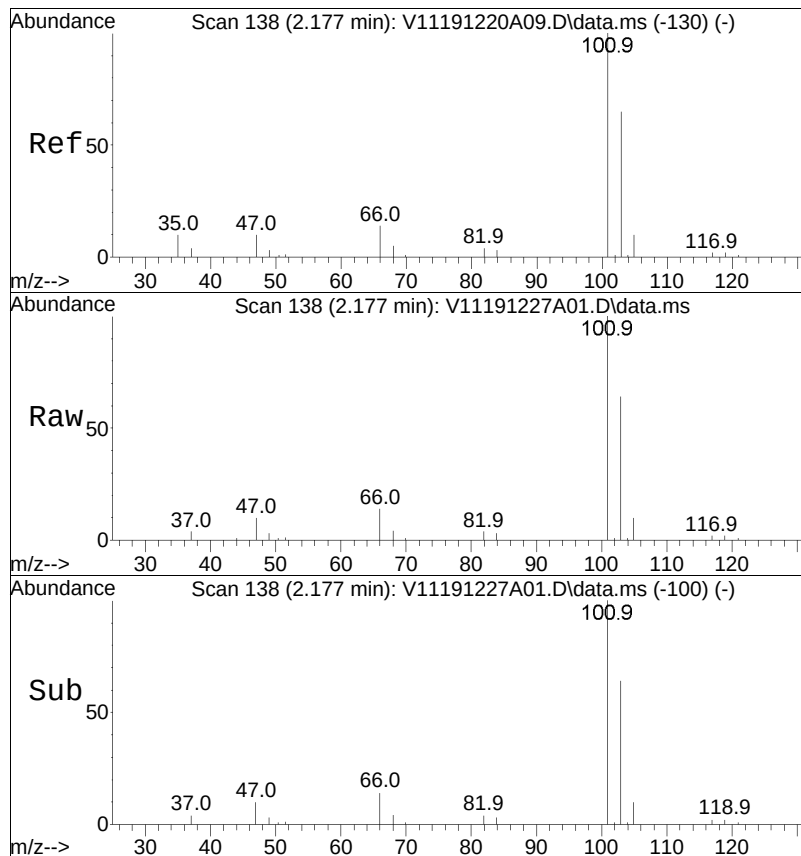




#6  
 Chloroethane  
 Concen: 45.98 ug/L  
 RT: 2.062 min Scan# 116  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

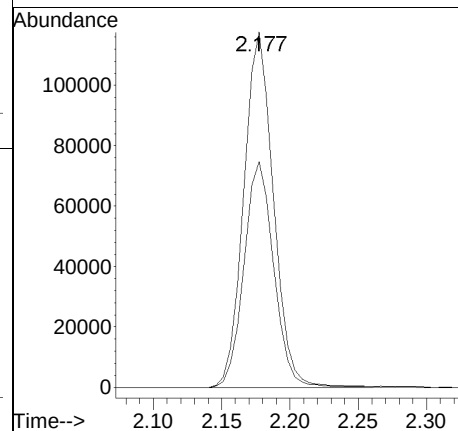
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 31.6  | 10.2  | 50.2  |

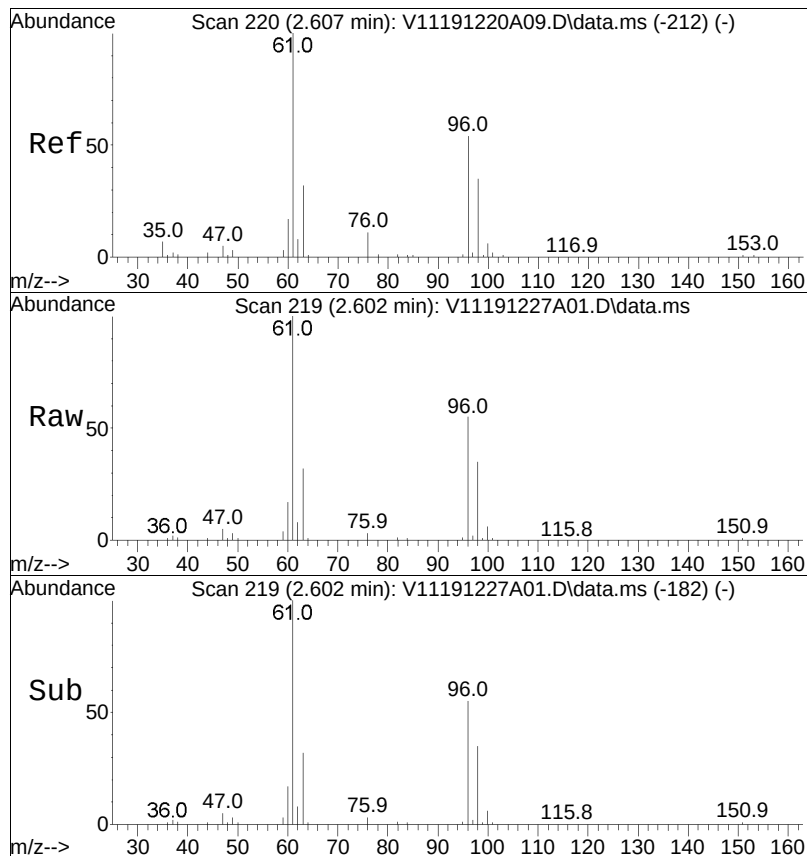




#7  
 Trichlorofluoromethane  
 Concen: 37.38 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

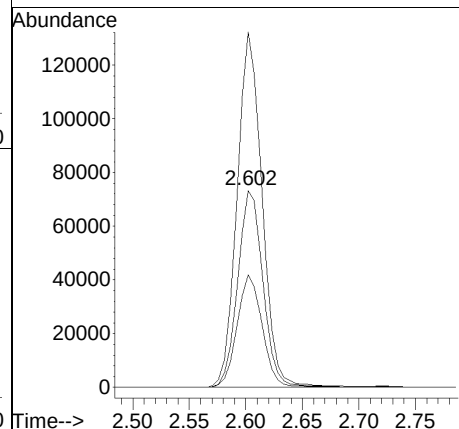
| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 101 | 101 | 100   |       |       |
| 103 | 103 | 63.6  | 51.8  | 77.6  |

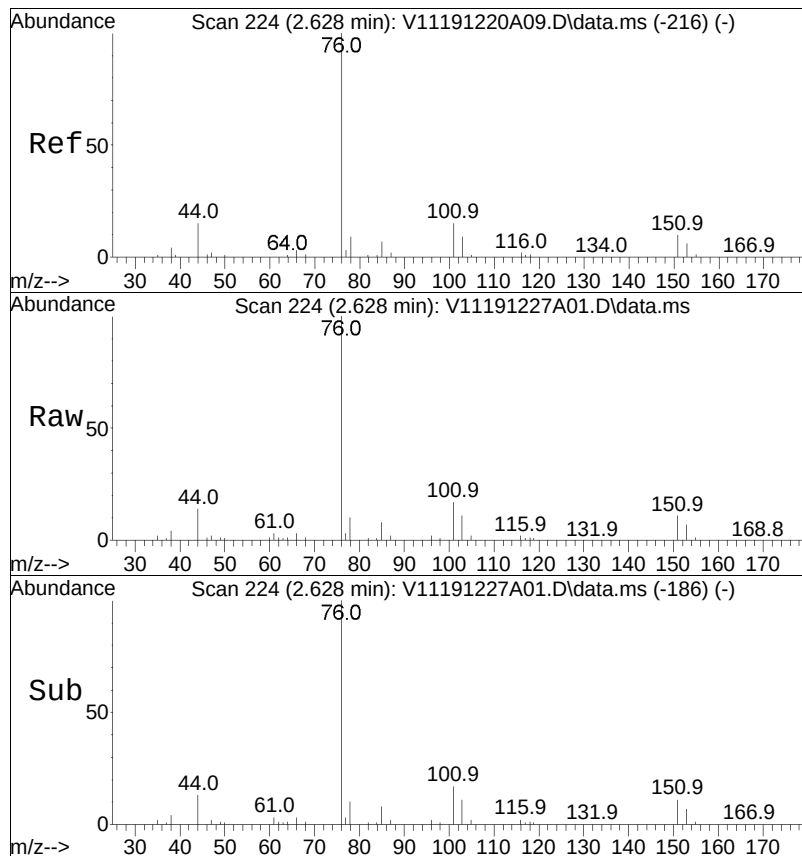




#10  
 1,1-Dichloroethene  
 Concen: 41.17 ug/L  
 RT: 2.602 min Scan# 219  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

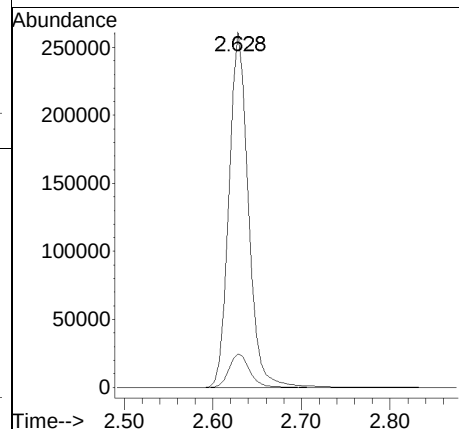
| Tgt | Ion   | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|
| 96  | 100   |       |       |       |
| 61  | 178.5 | 157.7 | 236.5 |       |
| 63  | 56.8  | 47.9  | 71.9  |       |

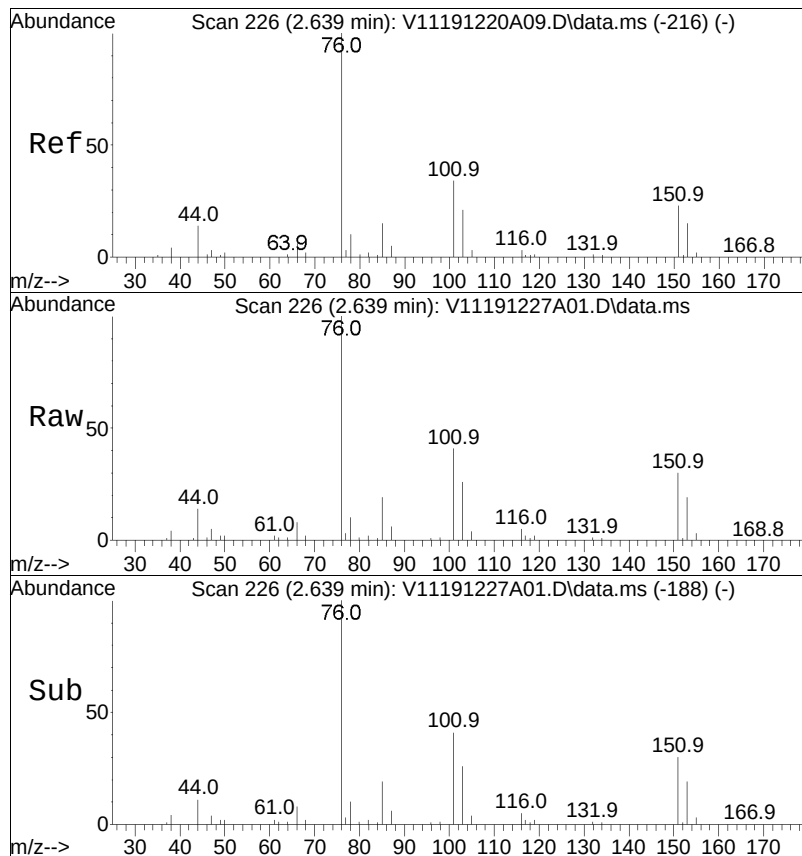




#11  
Carbon disulfide  
Concen: 34.88 ug/L  
RT: 2.628 min Scan# 224  
Delta R.T. 0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

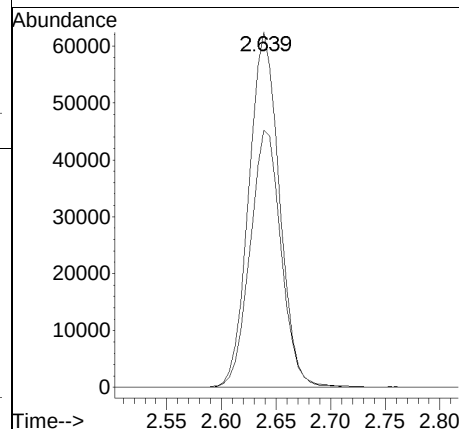
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 10.0  | 6.4   | 13.4  |



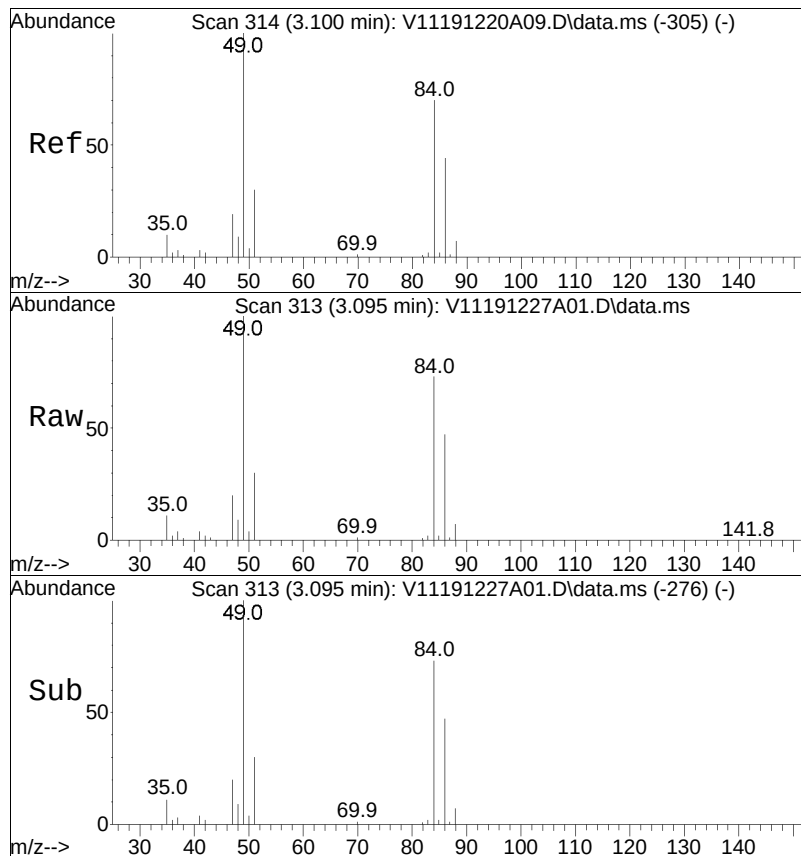


#12  
 Freon-113  
 Concen: 41.80 ug/L  
 RT: 2.639 min Scan# 226  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | 101    | 151  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 121847 |      |       |       |       |
| Ion     | 100    | 73.5 |       | 62.2  | 93.4  |

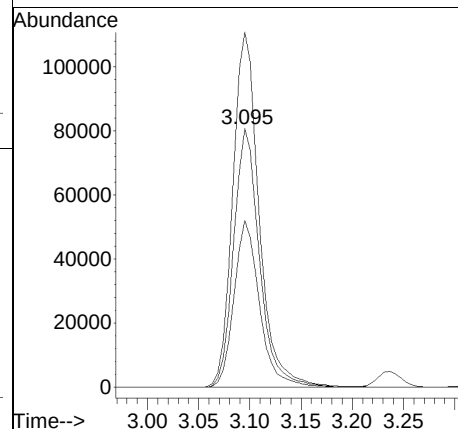


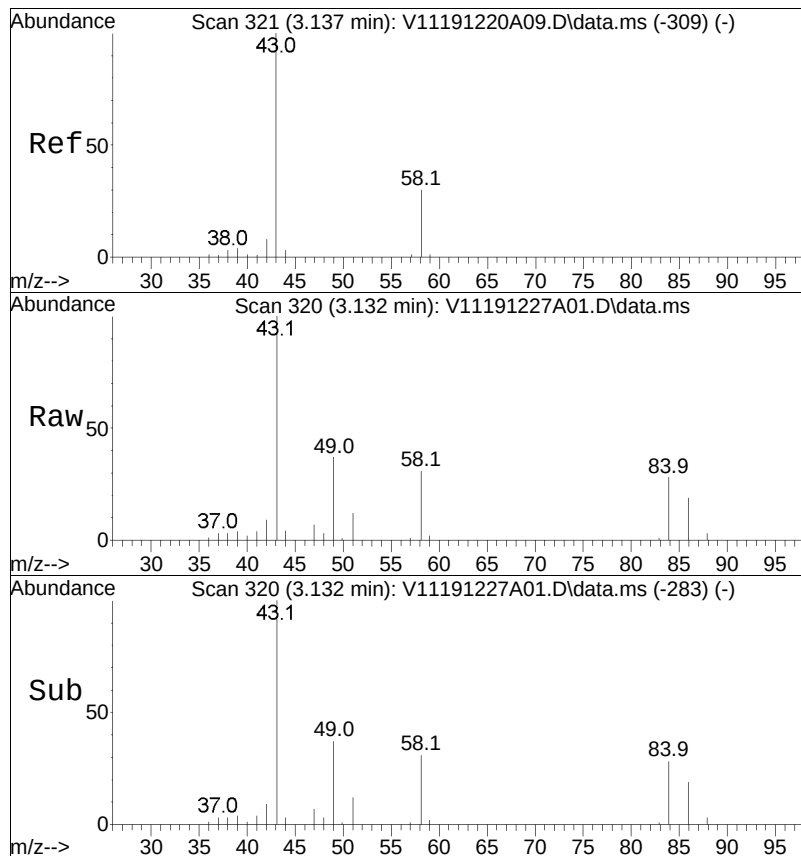




#15  
 Methylene chloride  
 Concen: 36.54 ug/L  
 RT: 3.095 min Scan# 313  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

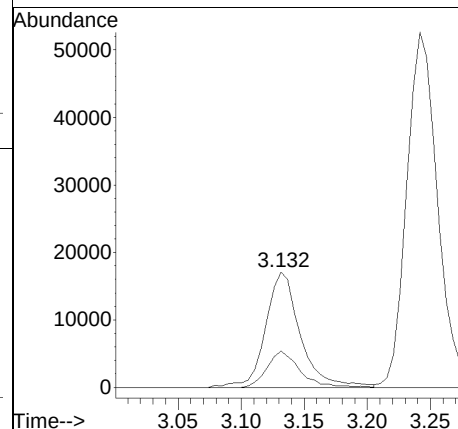
| Tgt Ion:  | 84    | Resp: | 142583 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 63.6  | 41.1  | 85.3   |
| 49        | 139.0 | 124.2 | 258.0  |

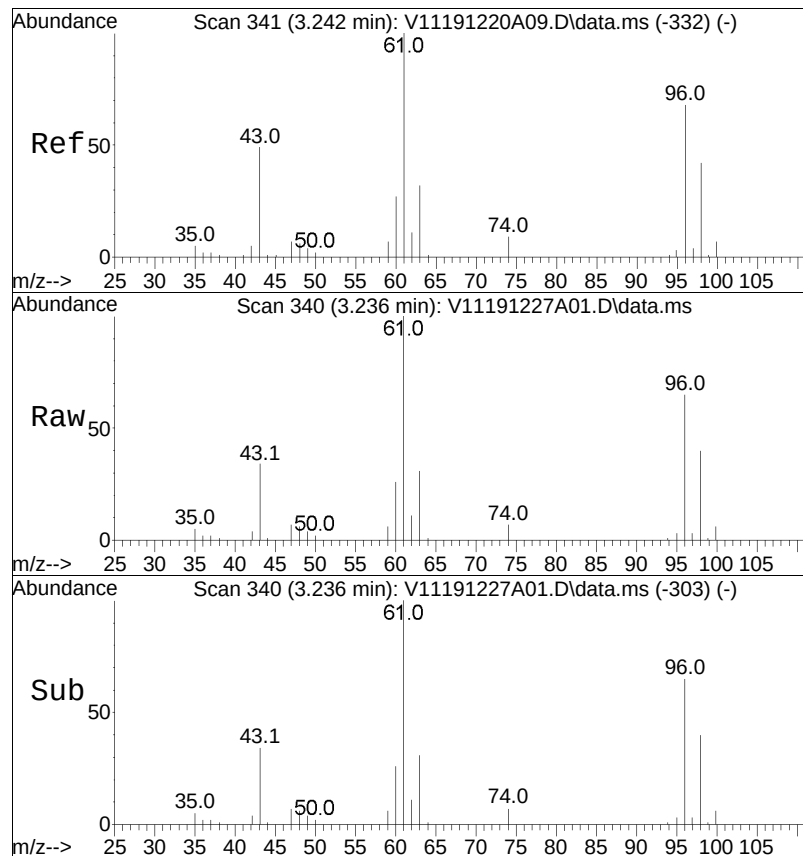




#17  
 Acetone  
 Concen: 37.02 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

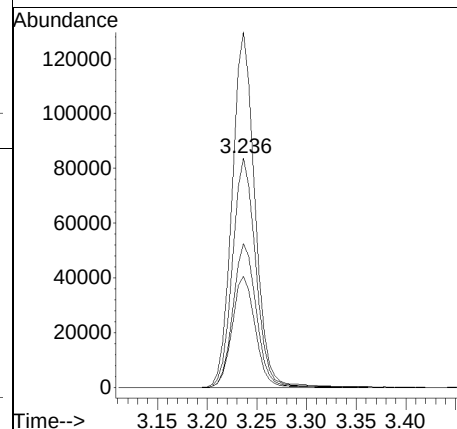
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 29.8  | 20.8  | 31.2  |

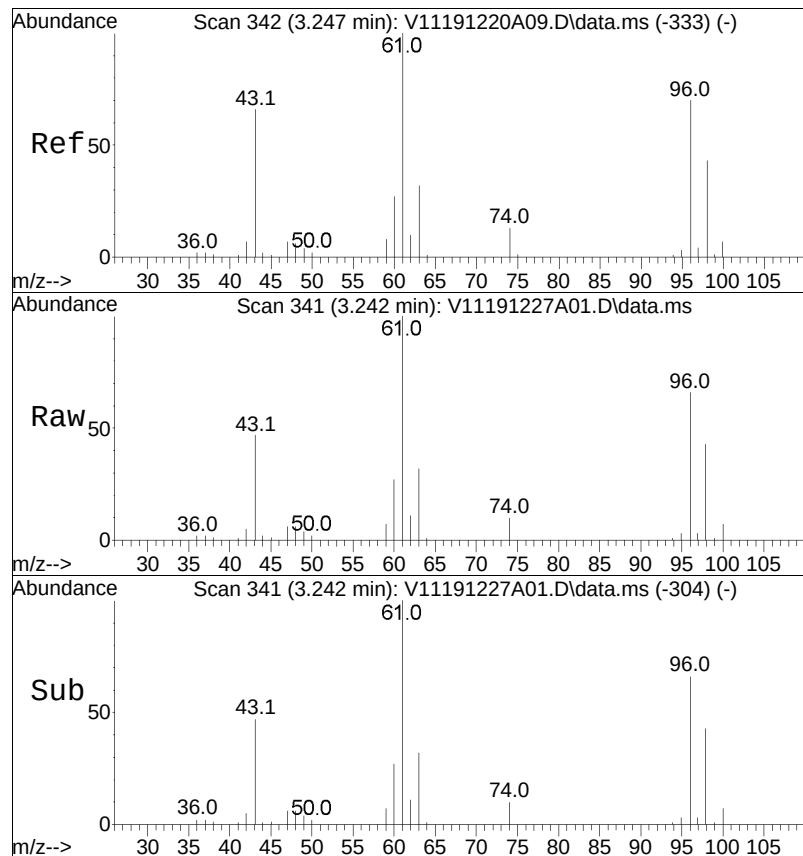




#18  
 trans-1,2-Dichloroethene  
 Concen: 42.28 ug/L  
 RT: 3.236 min Scan# 340  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

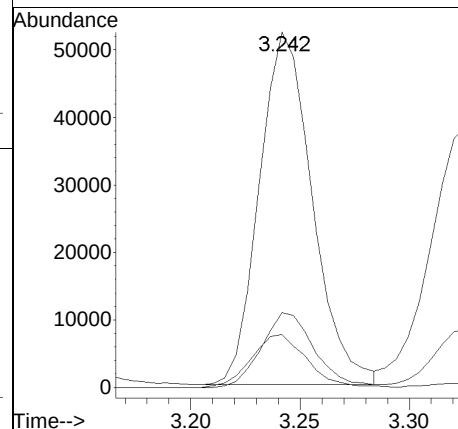
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 136251 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 152.8 | 111.1 | 230.8  |
| 98        | 63.0  | 41.8  | 86.8   |
| 63        | 48.4  | 33.3  | 69.1   |

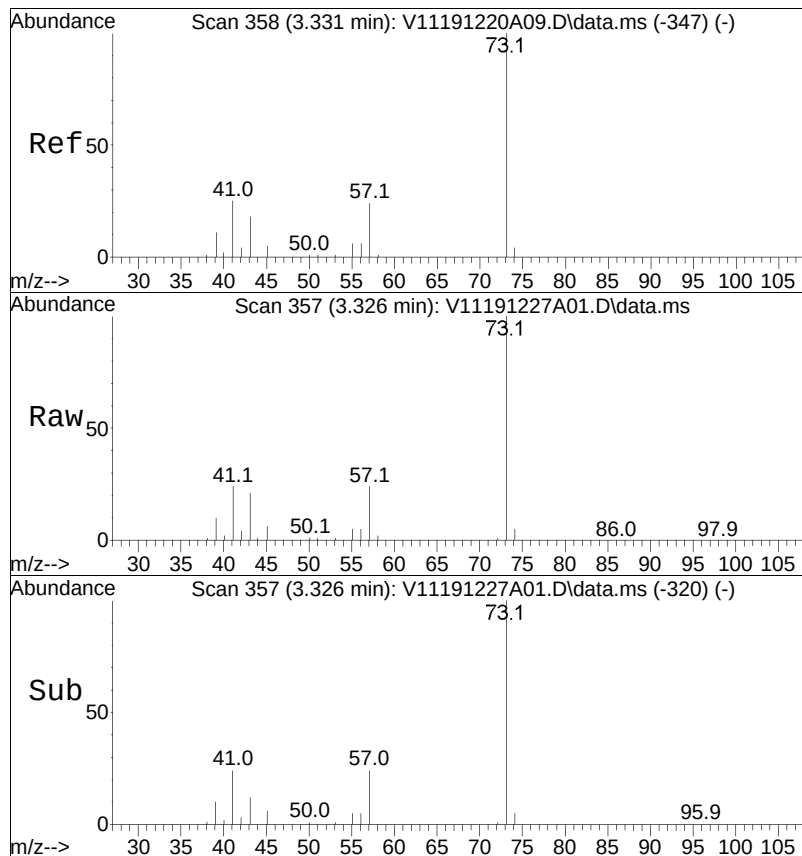




#19  
Methyl acetate  
Concen: 37.38 ug/L  
RT: 3.242 min Scan# 341  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 88336 |       |       |
| 74      | 21.1  |       | 11.3  | 16.9# |
| 59      | 15.6  |       | 10.4  | 15.6# |





#20

Methyl tert-butyl ether

Concen: 41.70 ug/L

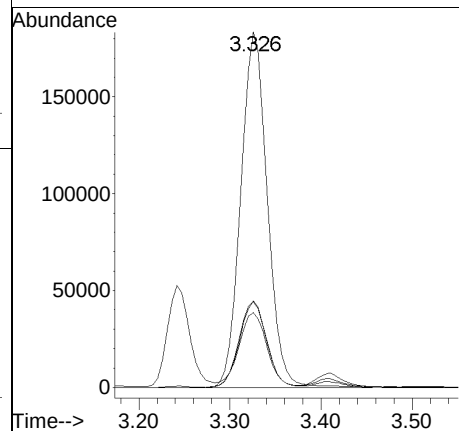
RT: 3.326 min Scan# 357

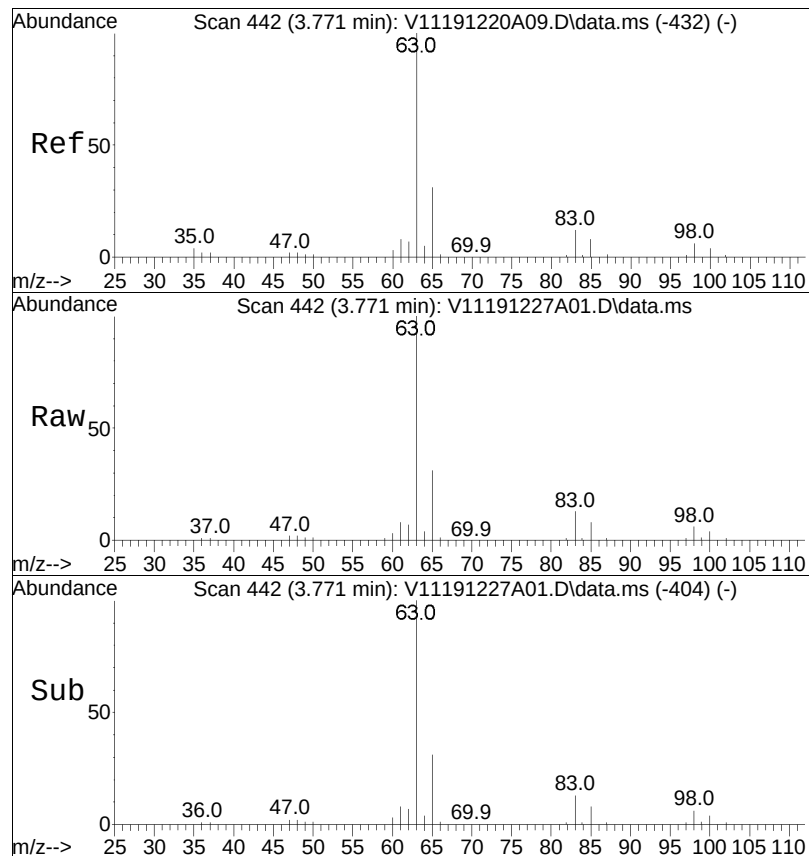
Delta R.T. -0.005 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

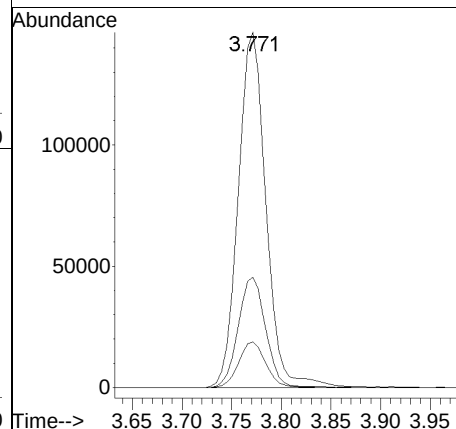
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 371821 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 57       | 24.9  | 19.6  | 40.6   |
| 43       | 21.9  | 18.5  | 38.3   |
| 41       | 25.1  | 20.3  | 42.1   |

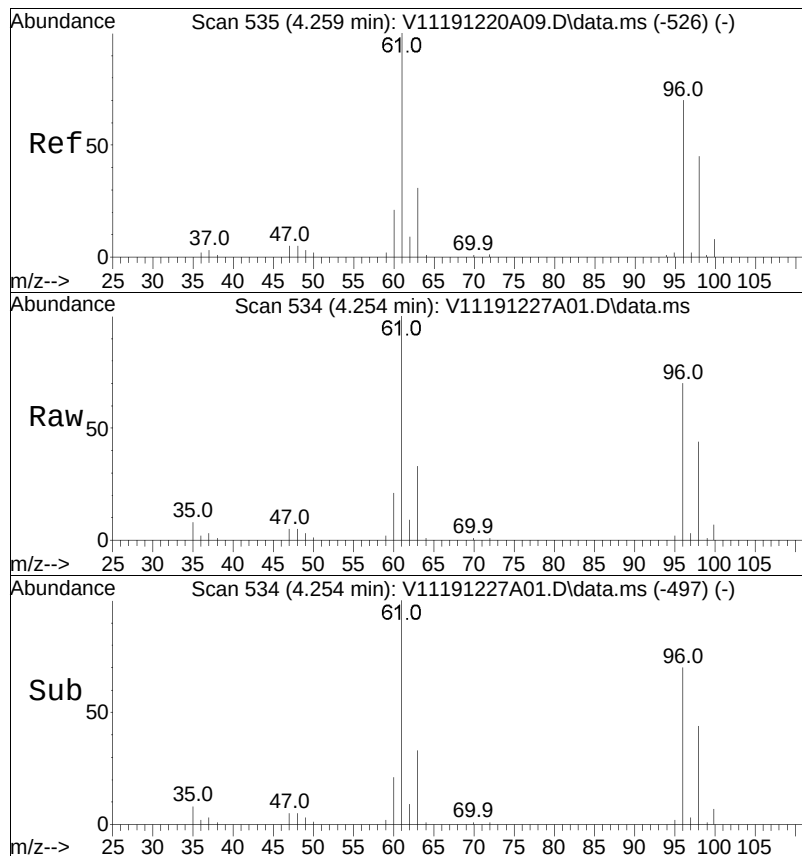




#23  
 1,1-Dichloroethane  
 Concen: 41.76 ug/L  
 RT: 3.771 min Scan# 442  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

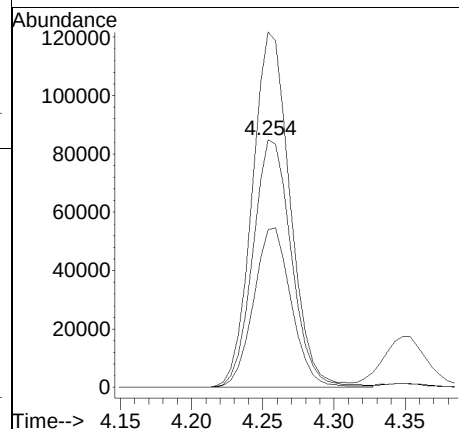
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 284013 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 65  | 30.5    | 9.0   | 49.0   |
| 83  | 12.5    | 0.0   | 31.4   |

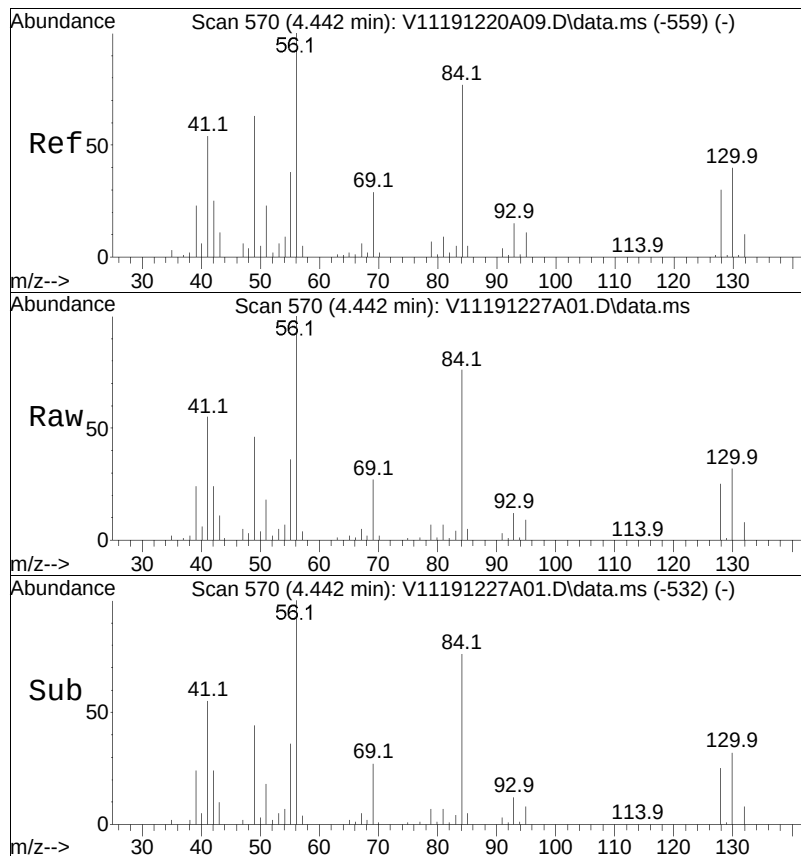




#28  
 cis-1,2-Dichloroethene  
 Concen: 44.98 ug/L  
 RT: 4.254 min Scan# 534  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

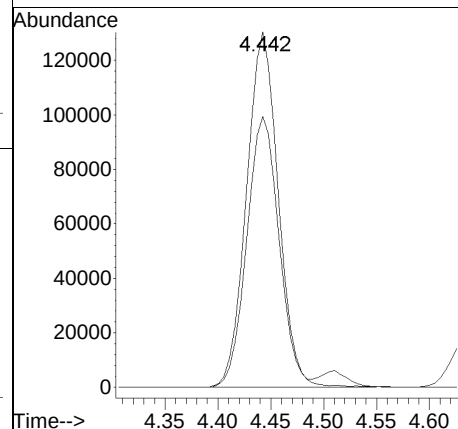
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 159669 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 140.6 | 126.3 | 189.5  |
| 98        | 63.0  | 51.0  | 76.6   |



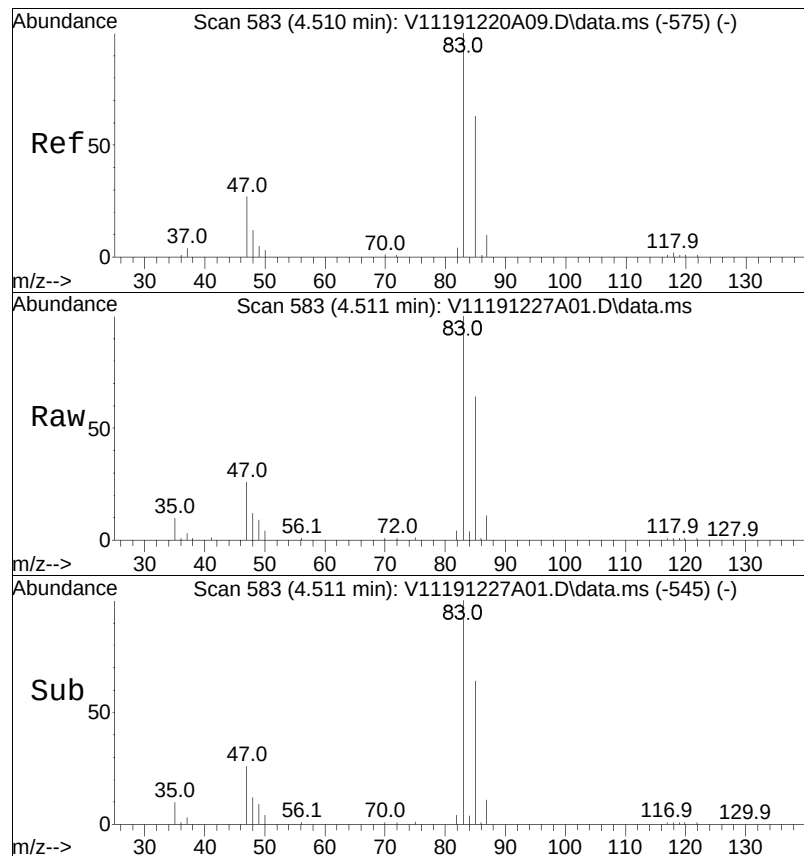


#31  
Cyclohexane  
Concen: 49.35 ug/L  
RT: 4.442 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 56  | 100  |      |       |       |
| 84  | 77.4 | 40.5 | 84.1  |       |

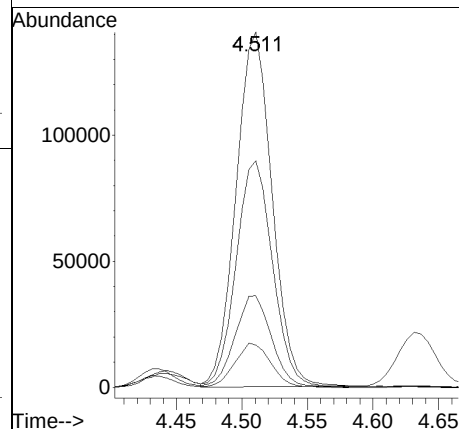


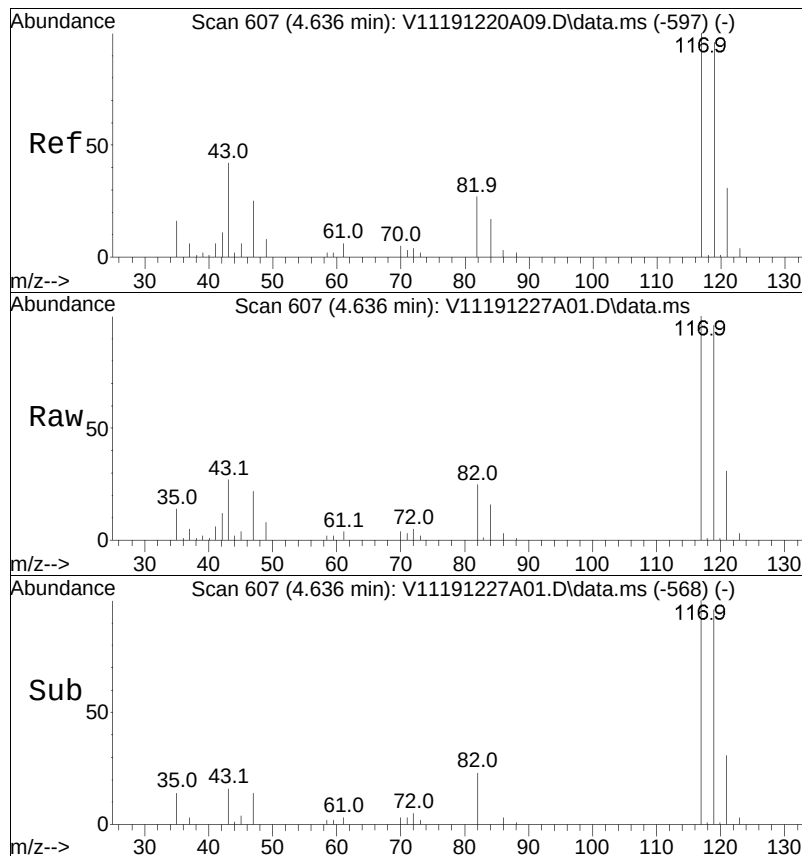




#32  
 Chloroform  
 Concen: 42.77 ug/L  
 RT: 4.511 min Scan# 583  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

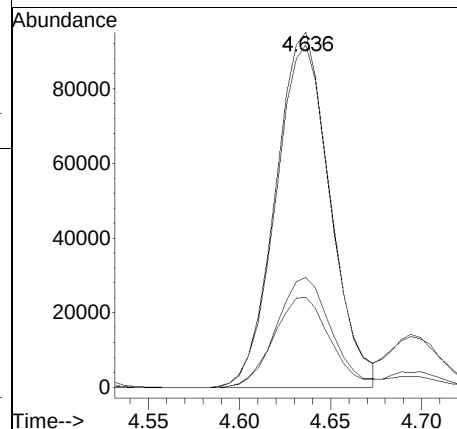
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 269540 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 64.5    | 41.9  | 87.1   |
| 47  | 25.9    | 20.9  | 43.3   |
| 48  | 12.5    | 9.9   | 20.5   |

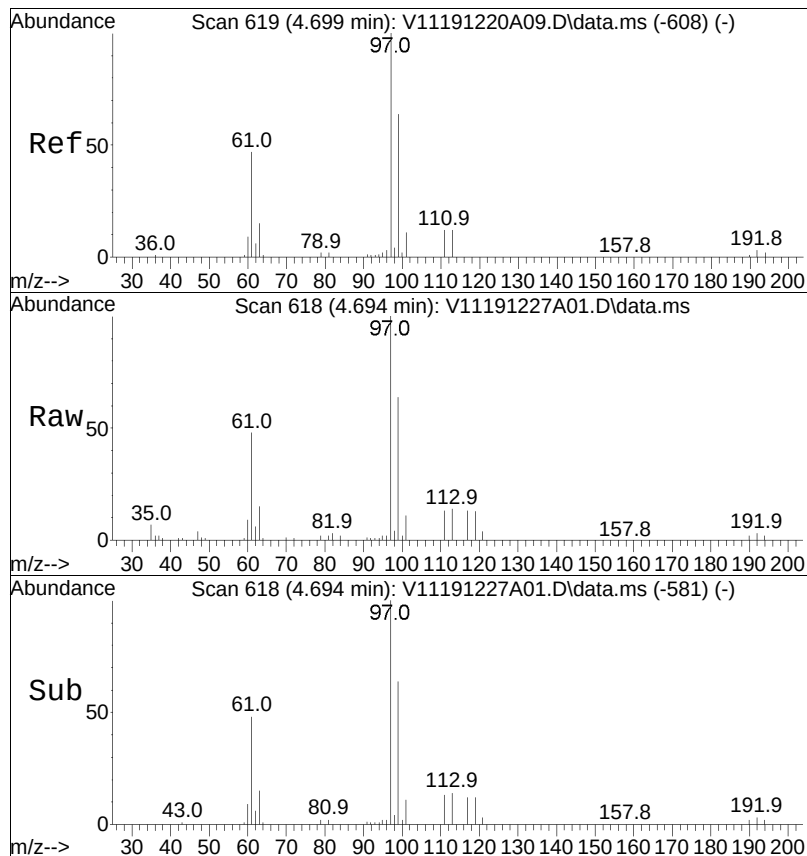




#34  
Carbon tetrachloride  
Concen: 46.02 ug/L  
RT: 4.636 min Scan# 607  
Delta R.T. 0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

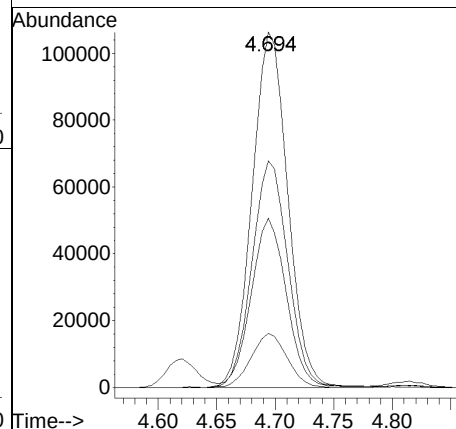
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 197897 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 97.0  | 64.0  | 132.8  |
| 121       | 31.3  | 20.7  | 42.9   |
| 82        | 26.6  | 16.3  | 33.8   |

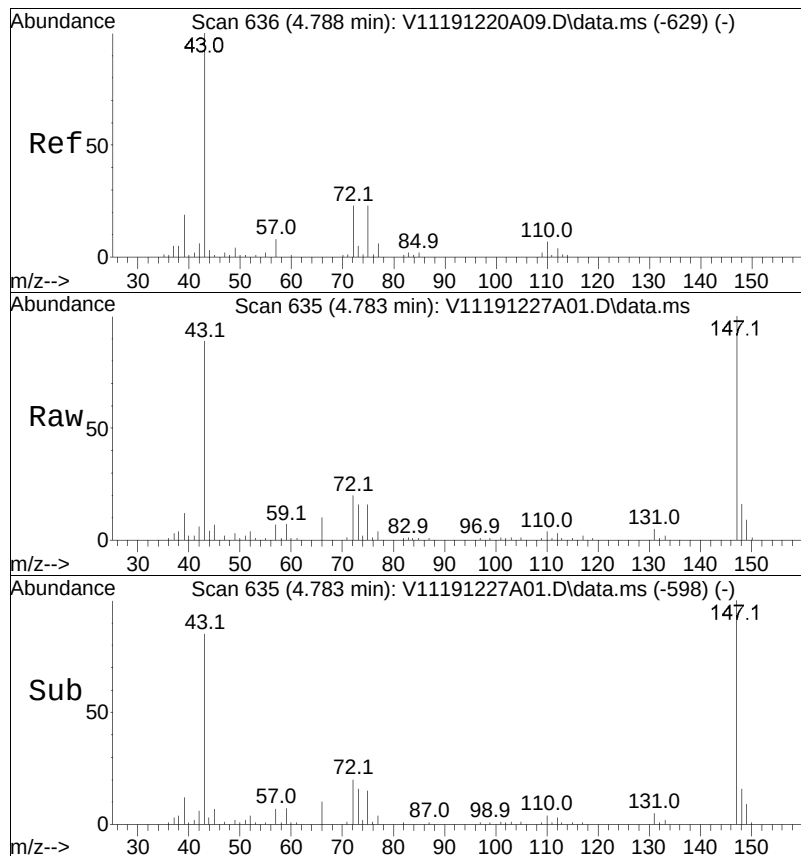




#37  
 1,1,1-Trichloroethane  
 Concen: 44.46 ug/L  
 RT: 4.694 min Scan# 618  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

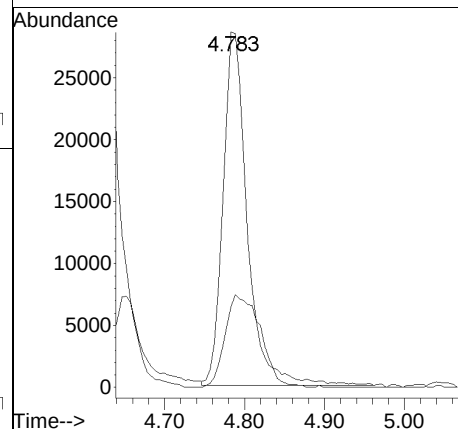
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 225794 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.2  | 41.5  | 86.1   |
| 61        | 47.1  | 32.2  | 67.0   |
| 63        | 15.3  | 10.1  | 20.9   |

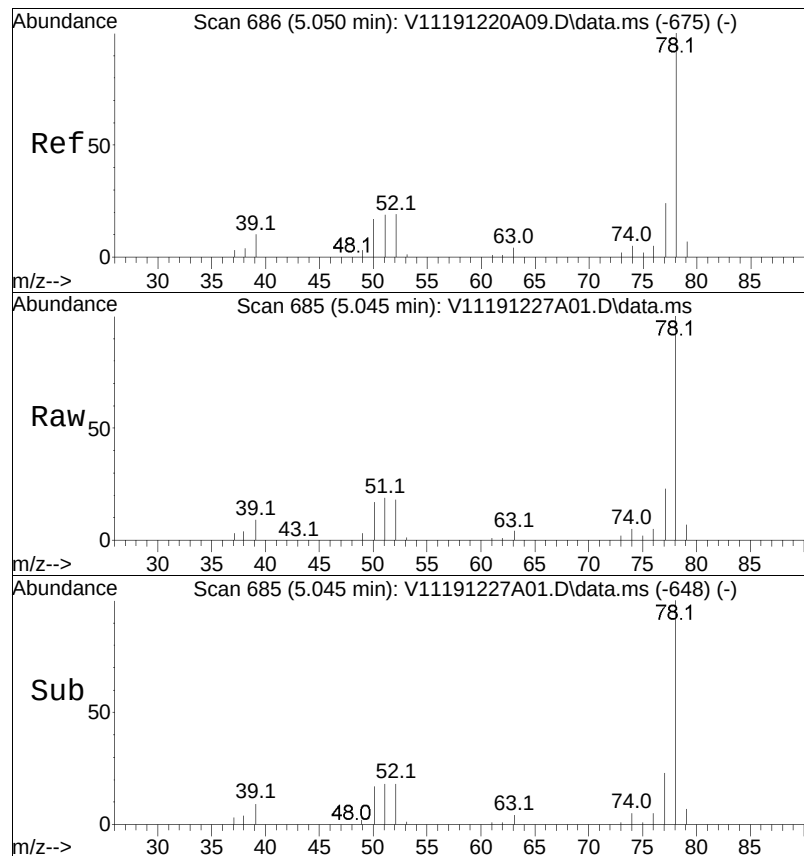




#39  
 2-Butanone  
 Concen: 44.30 ug/L  
 RT: 4.783 min Scan# 635  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

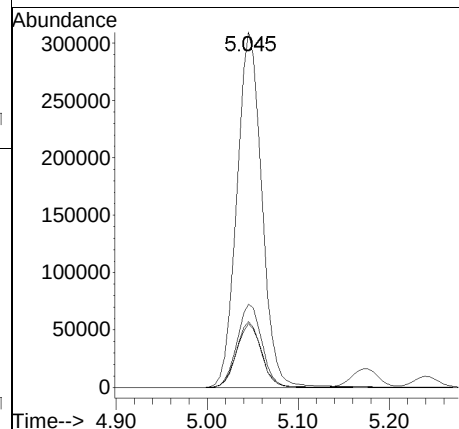
| Tgt | Ion  | Resp  | Lower | Upper |
|-----|------|-------|-------|-------|
| 43  | 100  | 60248 |       |       |
| 72  | 38.2 | 21.0  | 31.6  |       |

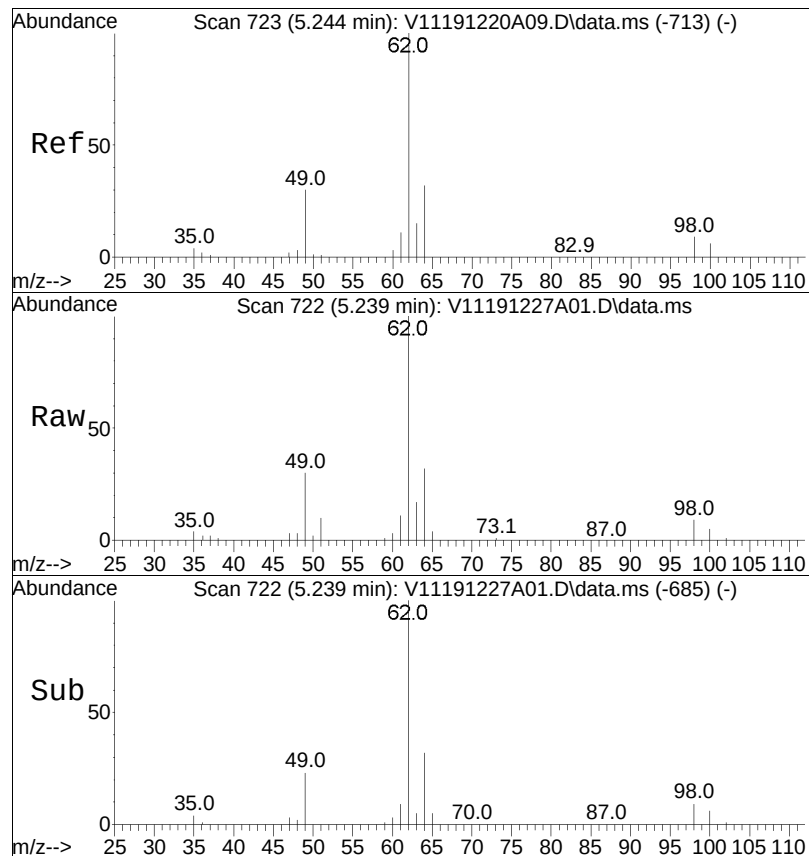




#41  
Benzene  
Concen: 42.23 ug/L  
RT: 5.045 min Scan# 685  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

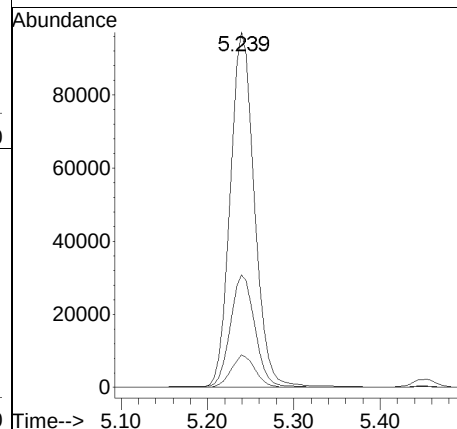
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 78    | Resp: | 590150 |
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 23.5  | 15.1  | 31.3   |
| 51        | 18.6  | 15.8  | 32.8   |
| 52        | 17.9  | 15.6  | 32.4   |

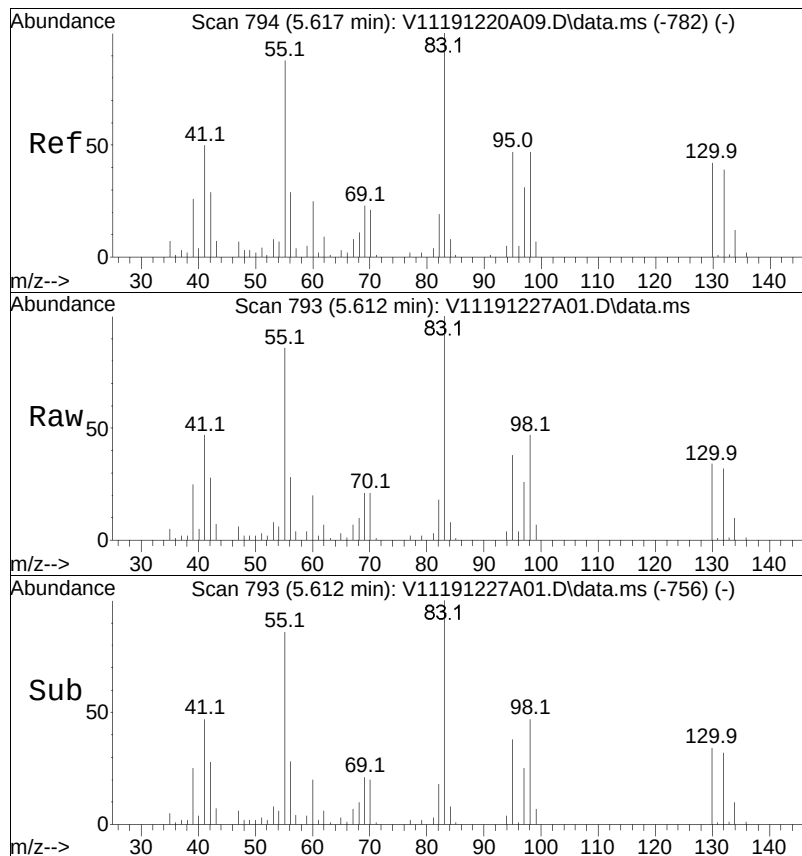




#44  
 1,2-Dichloroethane  
 Concen: 39.66 ug/L  
 RT: 5.239 min Scan# 722  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

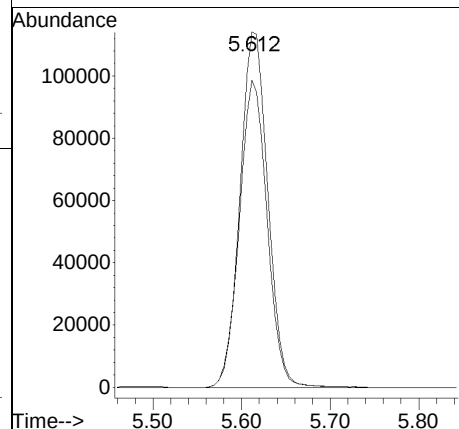
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 62    | Resp: | 189980 |
| Ion Ratio | Lower | Upper |        |
| 62        | 100   |       |        |
| 64        | 32.3  | 11.1  | 51.1   |
| 98        | 9.0   | 0.0   | 28.0   |

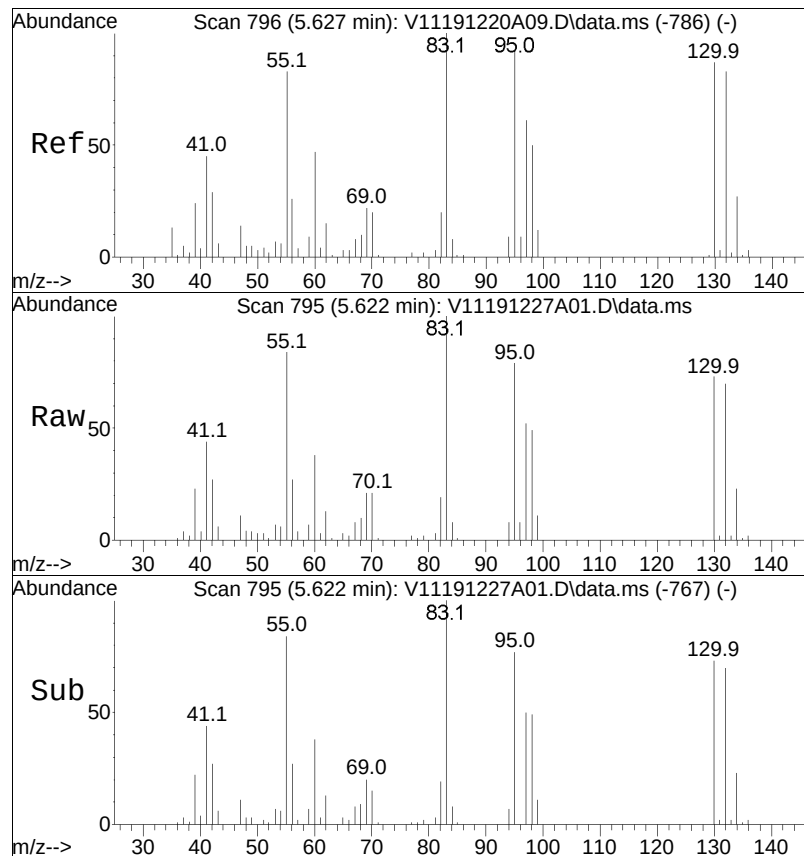




#47  
 Methyl cyclohexane  
 Concen: 47.98 ug/L  
 RT: 5.612 min Scan# 793  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

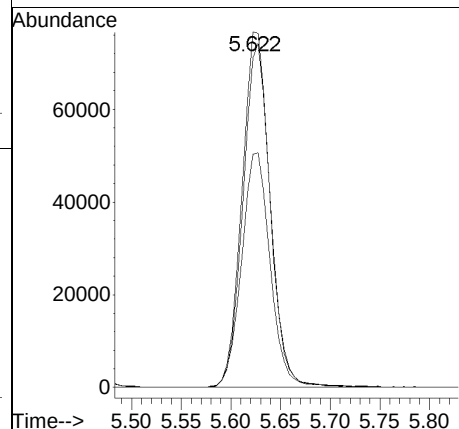
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 85.9  | 88.1  | 132.1# |



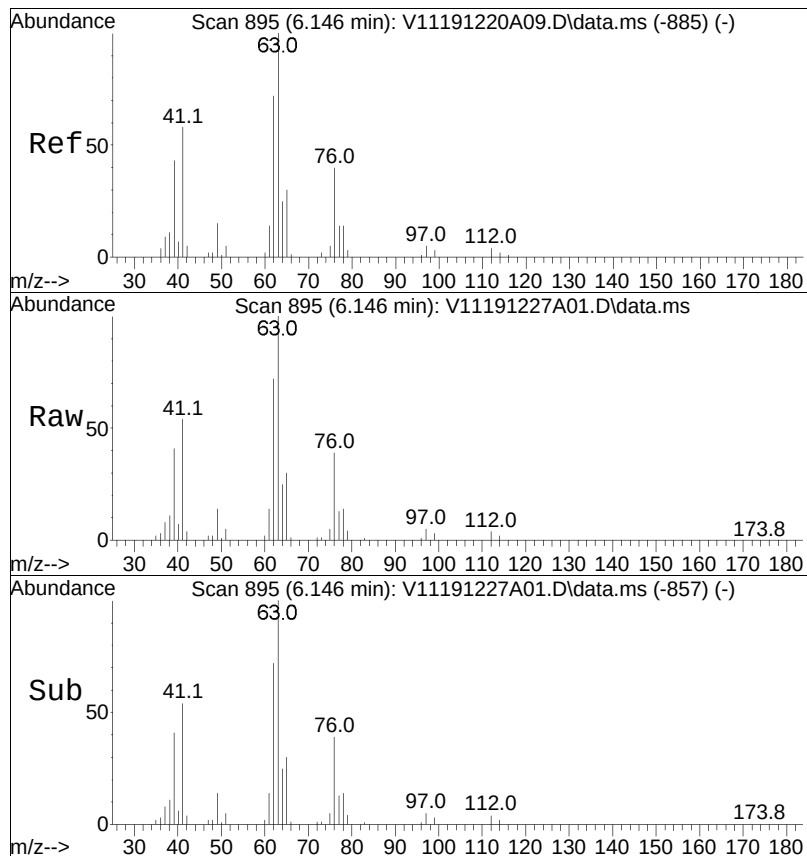


#48  
Trichloroethene  
Concen: 44.60 ug/L  
RT: 5.622 min Scan# 795  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 150909 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 97        | 67.5  | 54.3  | 81.5   |
| 130       | 94.9  | 84.6  | 126.8  |

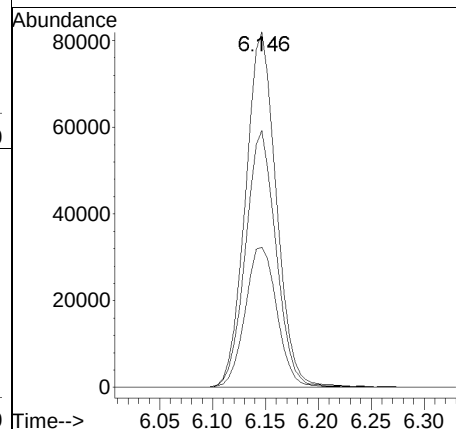


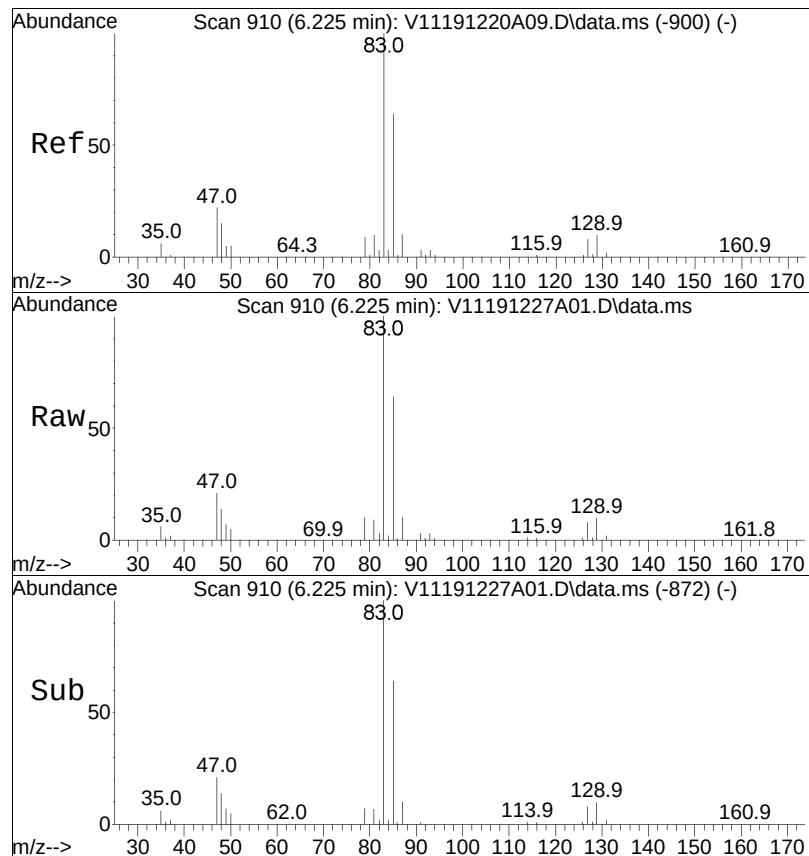




#51  
 1,2-Dichloropropane  
 Concen: 43.24 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion:  | 63    | Resp: | 166682 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 62        | 71.8  | 57.9  | 86.9   |
| 76        | 40.7  | 30.1  | 45.1   |





#54

Bromodichloromethane

Concen: 42.45 ug/L

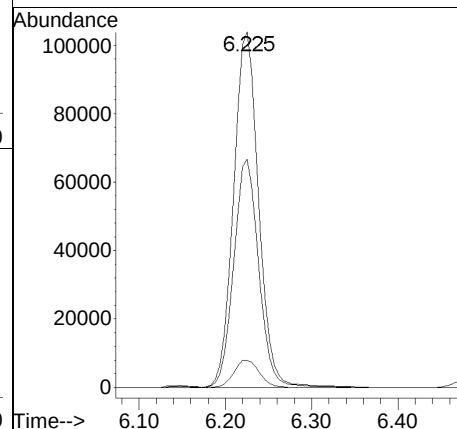
RT: 6.225 min Scan# 910

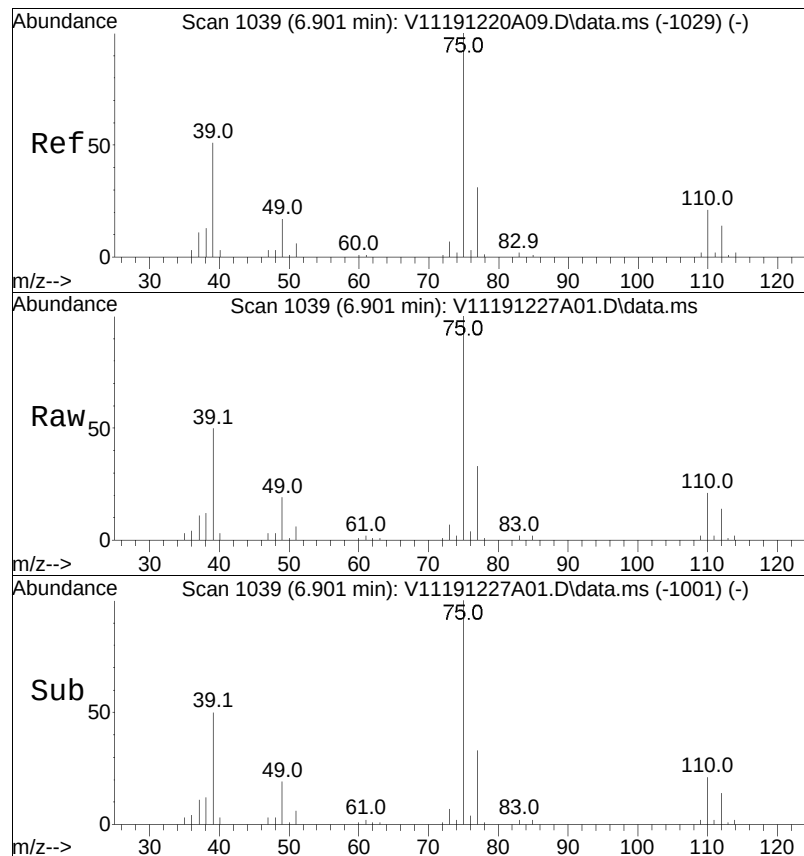
Delta R.T. 0.000 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

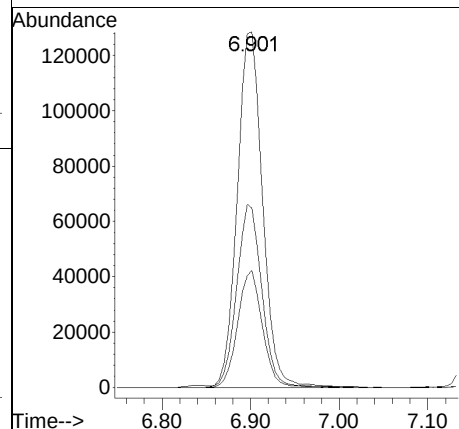
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 209720 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 63.8    | 51.6  | 77.4   |
| 127 | 7.8     | 7.1   | 10.7   |

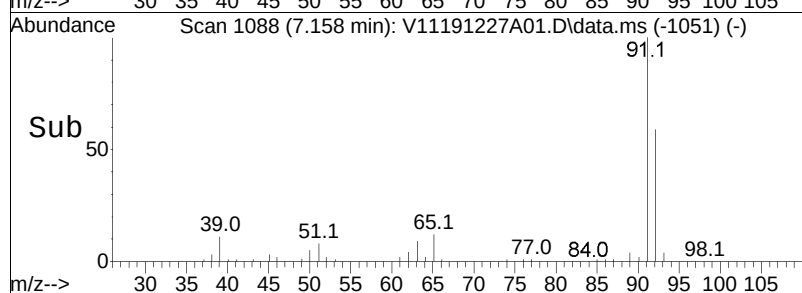
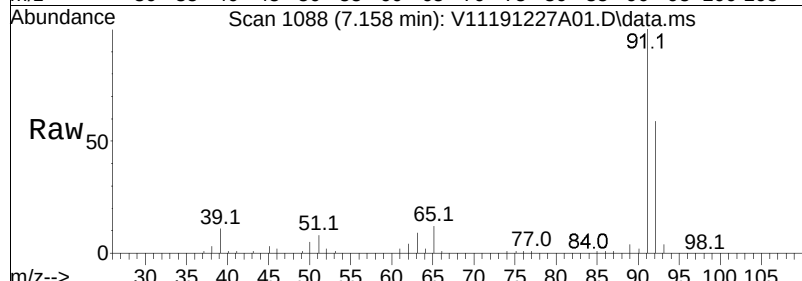
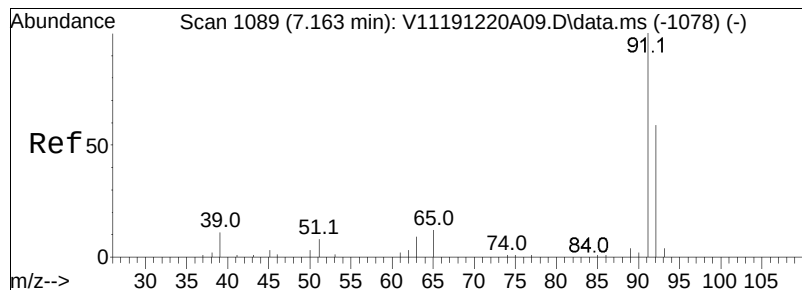




#58  
 cis-1,3-Dichloropropene  
 Concen: 45.64 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

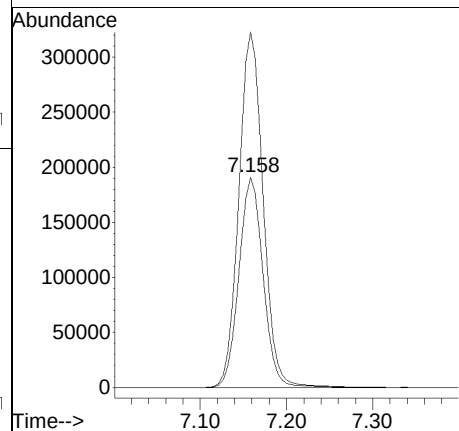
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.0  | 24.9  | 37.3  |
| 39      | 51.1  | 51.8  | 77.8# |

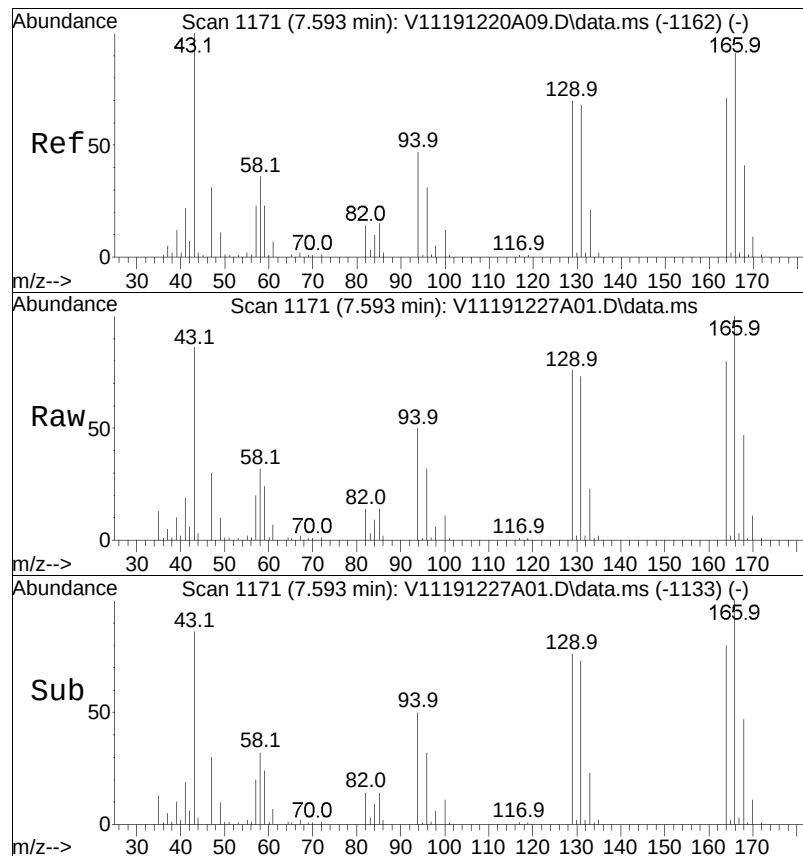




#61  
Toluene  
Concen: 41.36 ug/L  
RT: 7.158 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

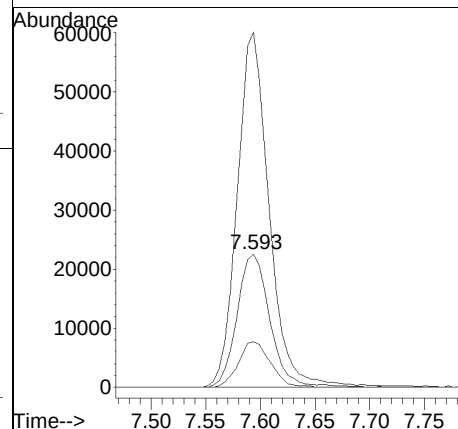
| Tgt | Ion   | Resp   | Lower | Upper |
|-----|-------|--------|-------|-------|
| 92  | 100   |        |       |       |
| 91  | 169.9 | 370947 | 133.7 | 200.5 |

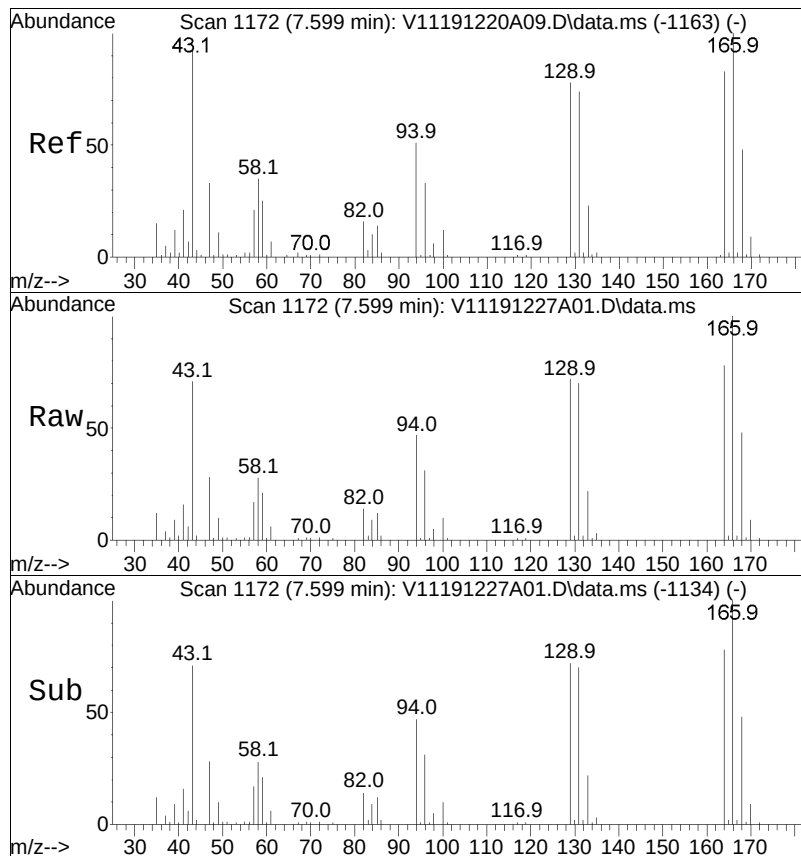




#62  
 4-Methyl-2-pentanone  
 Concen: 41.41 ug/L  
 RT: 7.593 min Scan# 1171  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

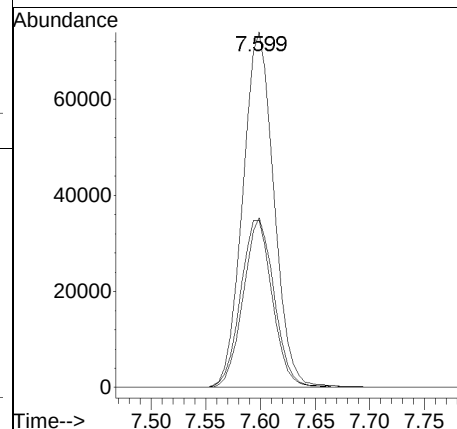
| Tgt | Ion   | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   |       |       |       |
| 100 | 33.5  | 22.0  | 33.0# |       |
| 43  | 259.0 | 236.9 | 355.3 |       |

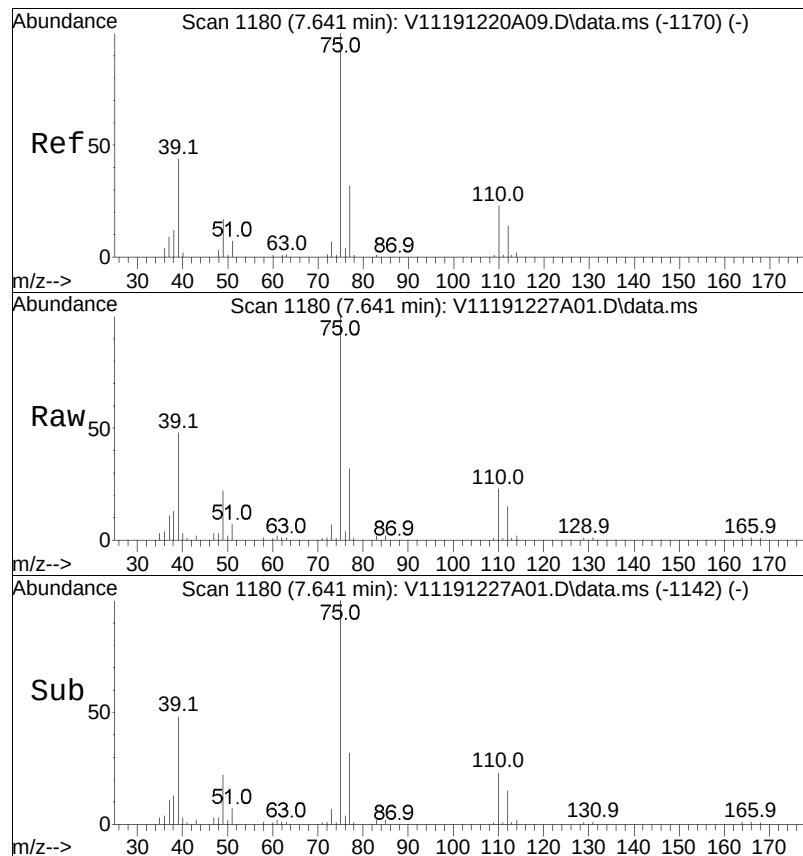




#63  
 Tetrachloroethene  
 Concen: 43.75 ug/L  
 RT: 7.599 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

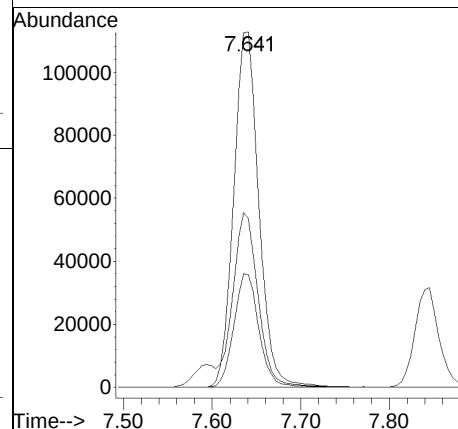
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 146765 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 168 | 47.2    | 28.2  | 68.2   |
| 94  | 48.0    | 26.3  | 66.3   |

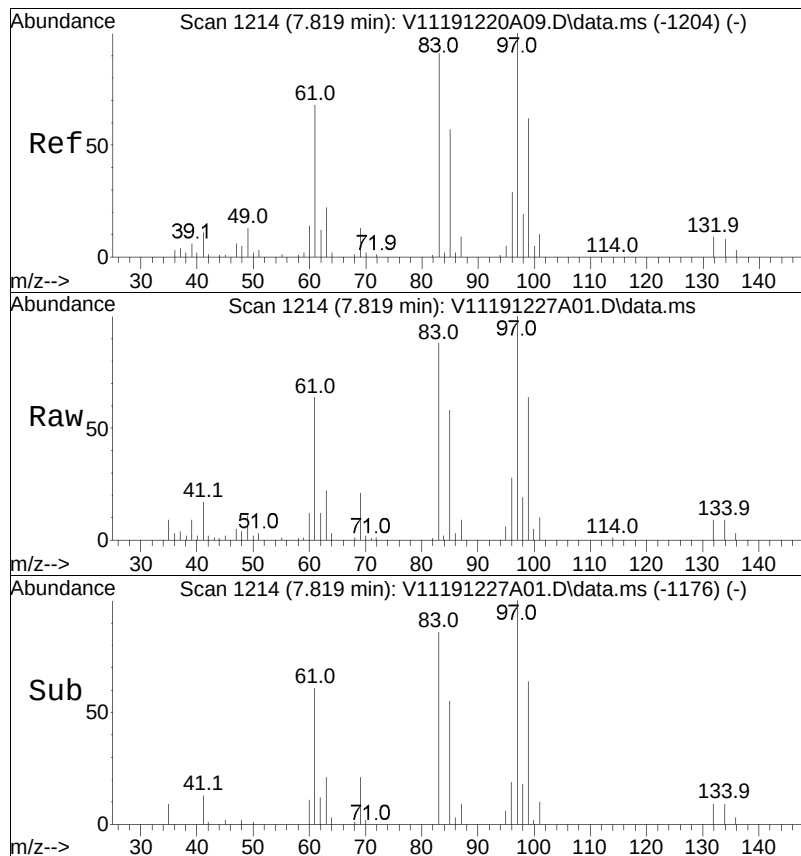




#65  
 trans-1,3-Dichloropropene  
 Concen: 41.60 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

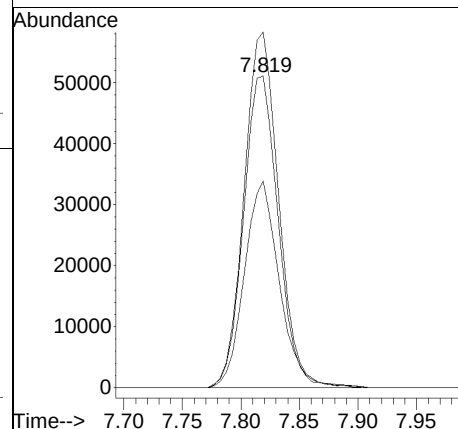
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.9  | 11.4  | 51.4  |
| 39      | 49.0  | 50.3  | 90.3# |



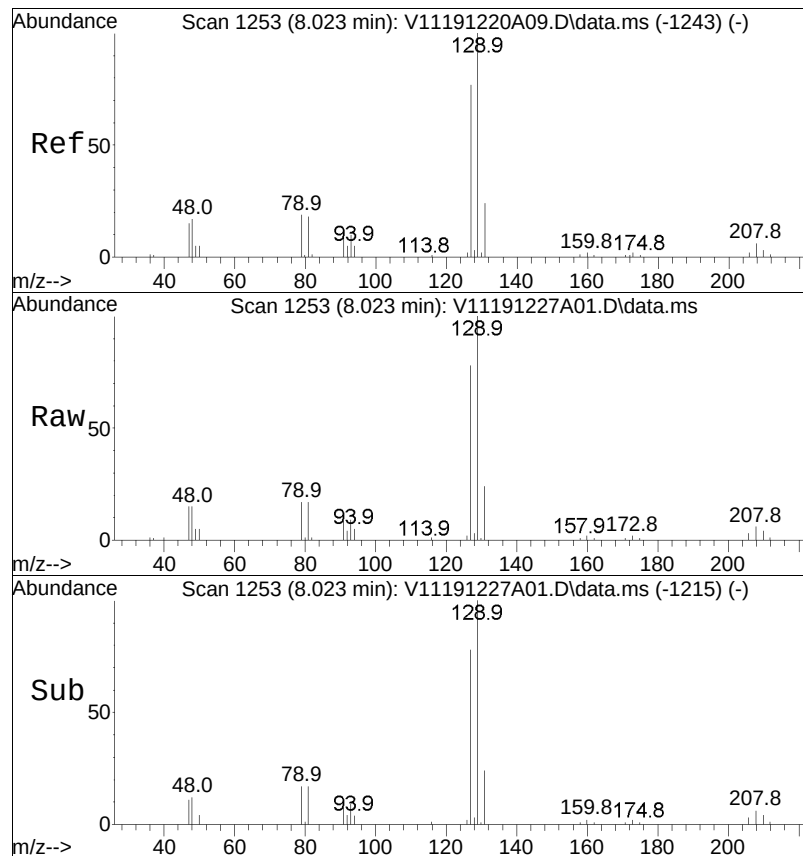


#68  
 1,1,2-Trichloroethane  
 Concen: 39.25 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion:  | 83    | Resp: | 105307 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 113.5 | 97.6  | 137.6  |
| 85        | 66.7  | 46.8  | 86.8   |

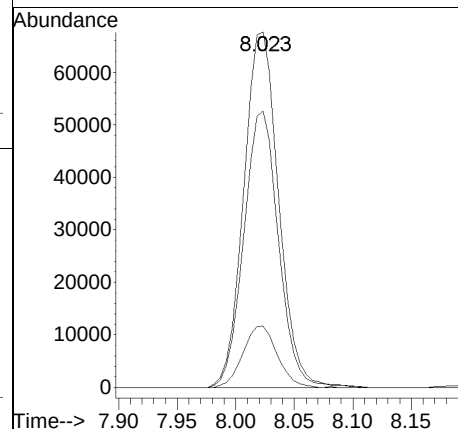


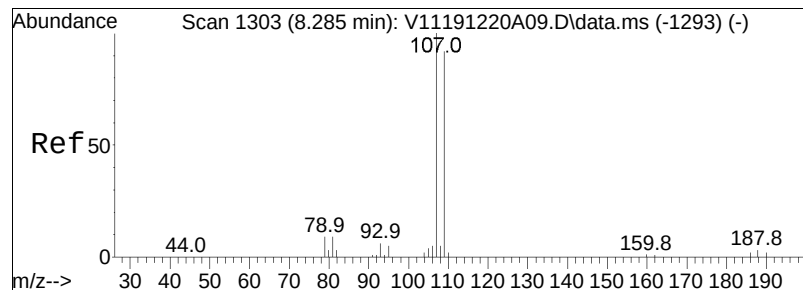




#69  
 Chlorodibromomethane  
 Concen: 40.48 ug/L  
 RT: 8.023 min Scan# 1253  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

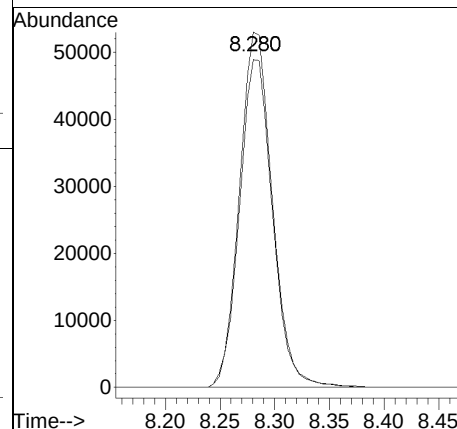
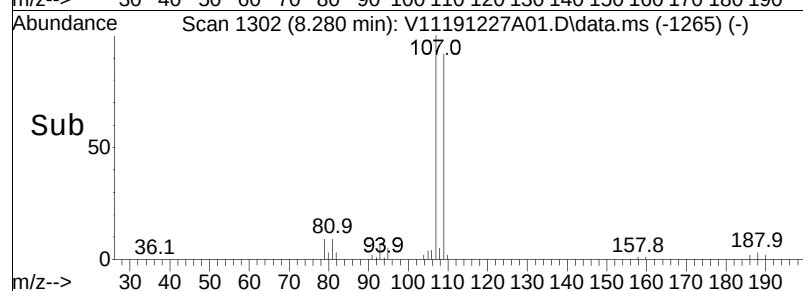
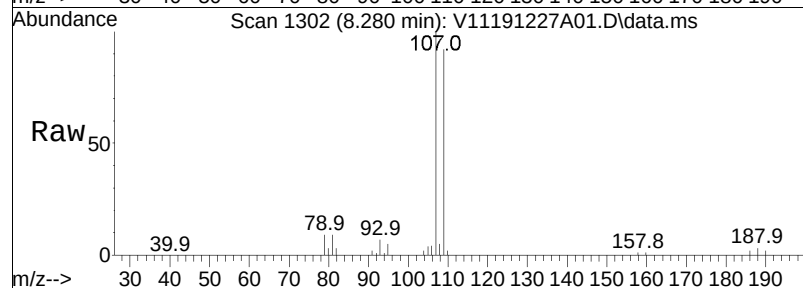
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 81      | 16.9  | 0.0   | 36.0  |
| 127     | 77.1  | 56.0  | 96.0  |

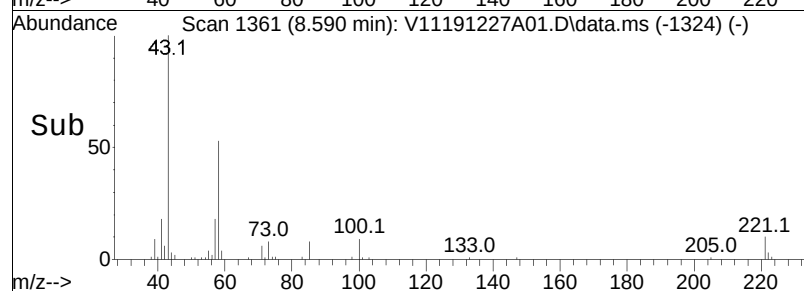
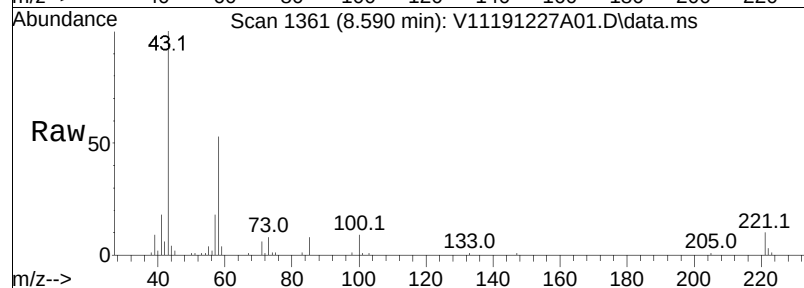
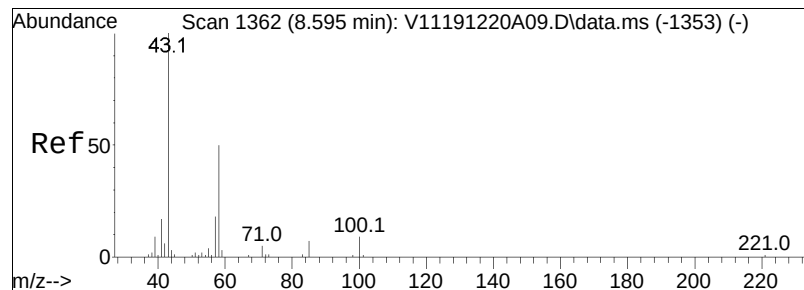




#71  
 1,2-Dibromoethane  
 Concen: 39.30 ug/L  
 RT: 8.280 min Scan# 1302  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.6  | 76.2  | 114.4 |





#72

2-Hexanone

Concen: 39.07 ug/L

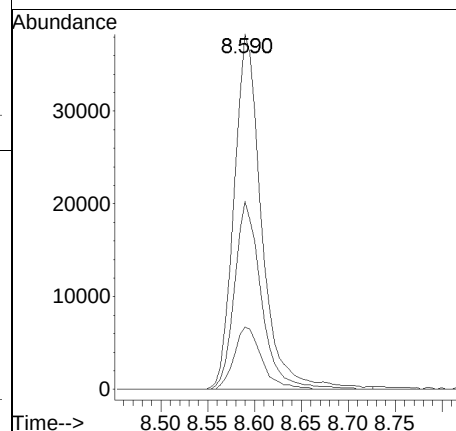
RT: 8.590 min Scan# 1361

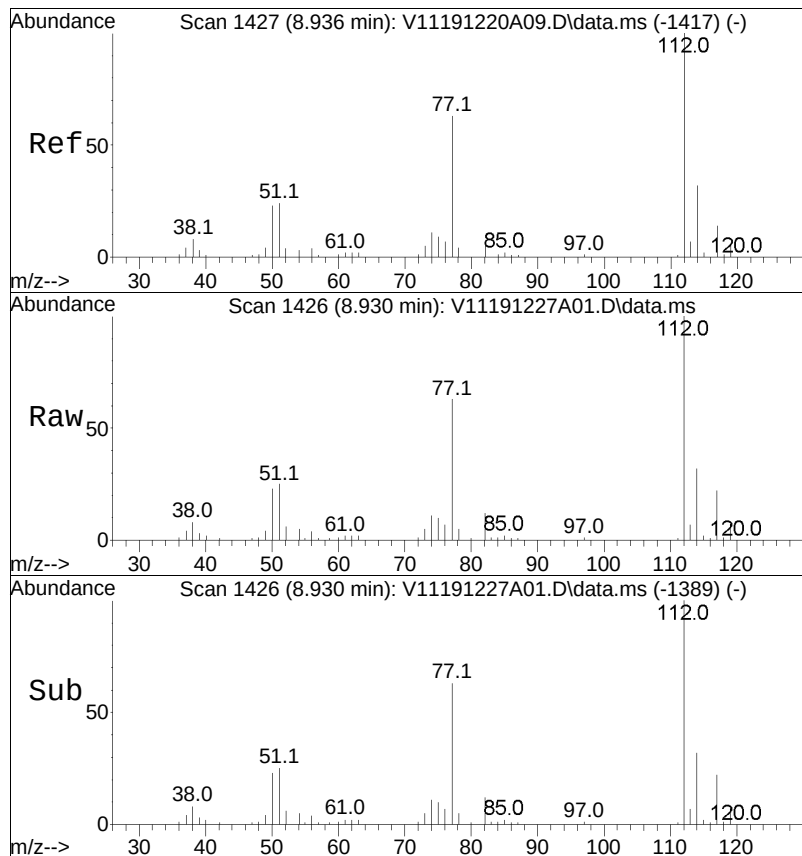
Delta R.T. -0.005 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

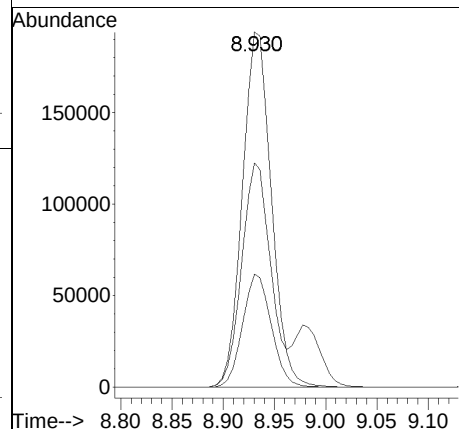
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 78853 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 51.6  | 37.9  | 56.9  |
| 57        | 17.6  | 12.6  | 19.0  |

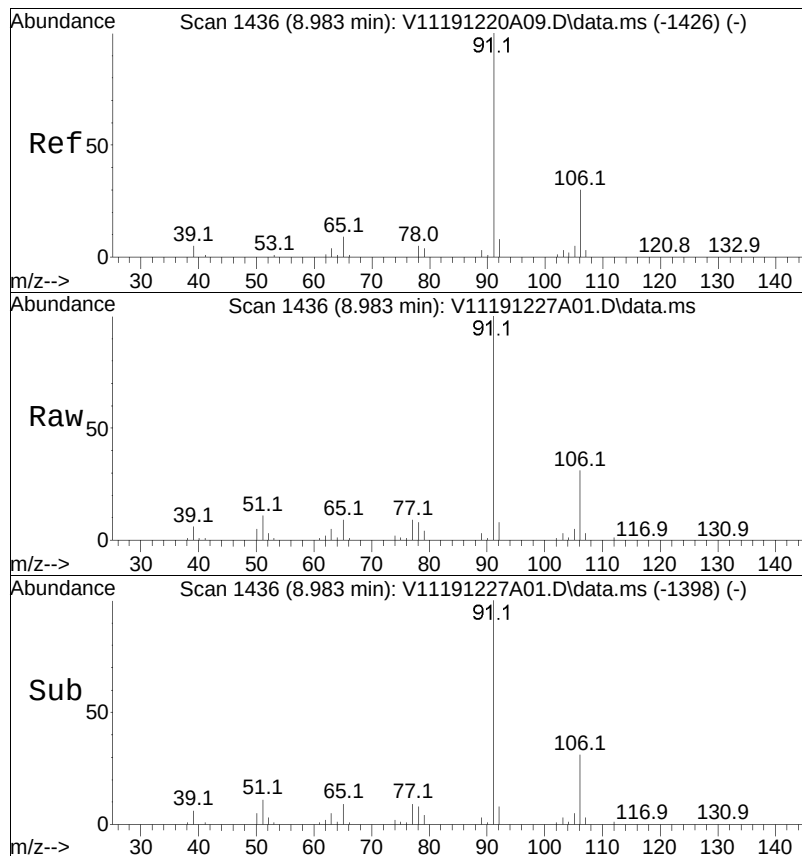




#73  
 Chlorobenzene  
 Concen: 39.37 ug/L  
 RT: 8.930 min Scan# 1426  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

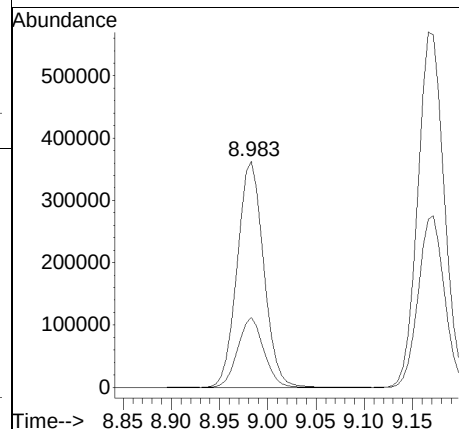
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 63.2  | 47.0  | 70.4  |
| 114     | 31.6  | 25.9  | 38.9  |

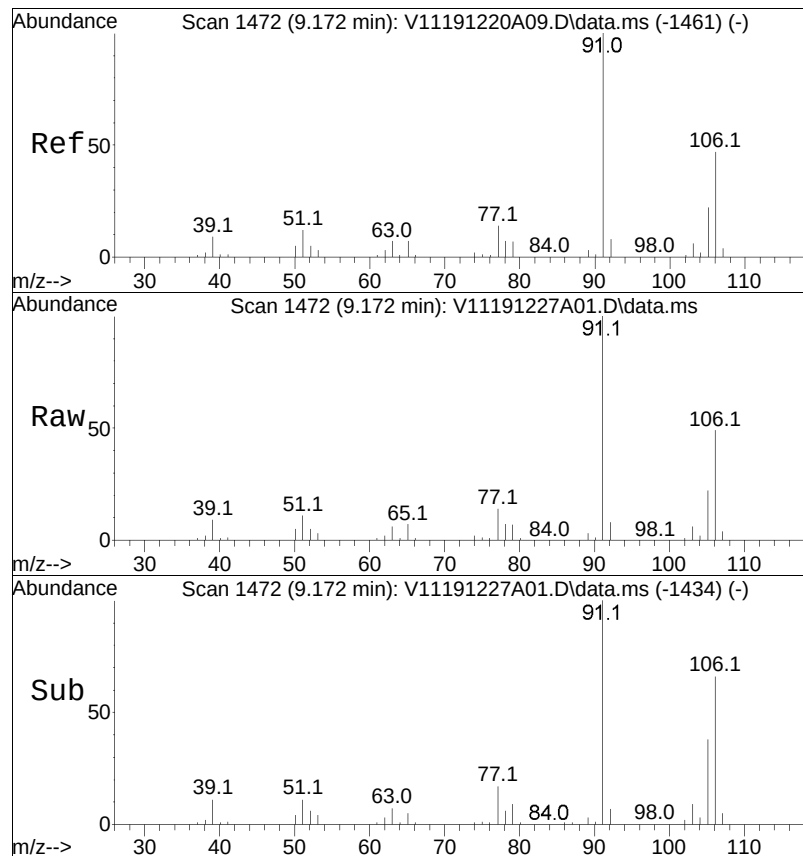




#74  
 Ethylbenzene  
 Concen: 42.94 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

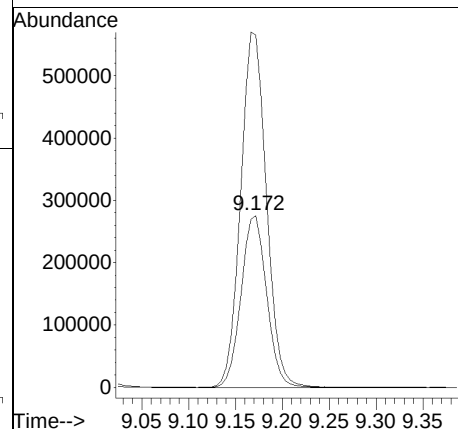
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 692490 |       |       |
| 106 | 30.4 | 25.0   | 37.4  |       |

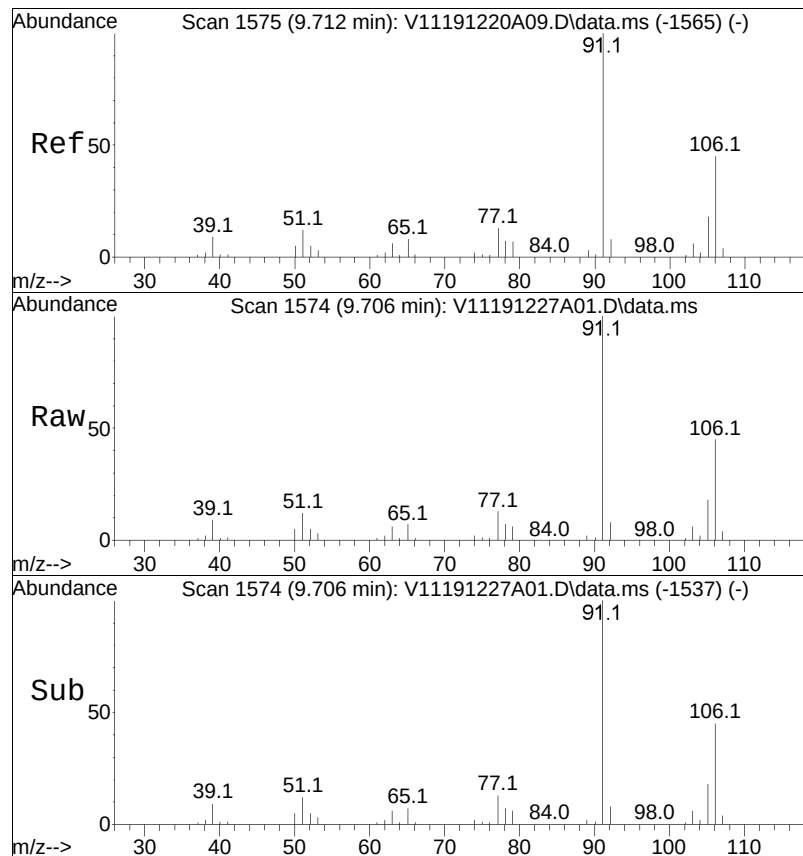




#76  
 p/m Xylene  
 Concen: 90.47 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

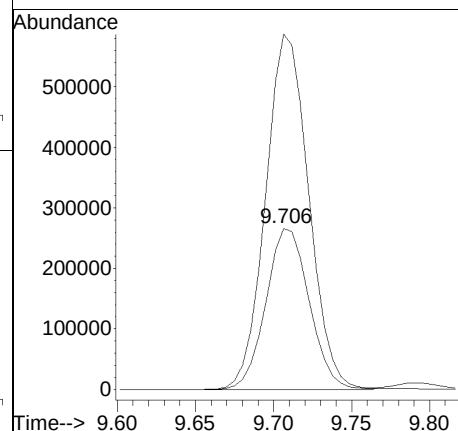
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 208.1 | 159.3 | 238.9 |       |

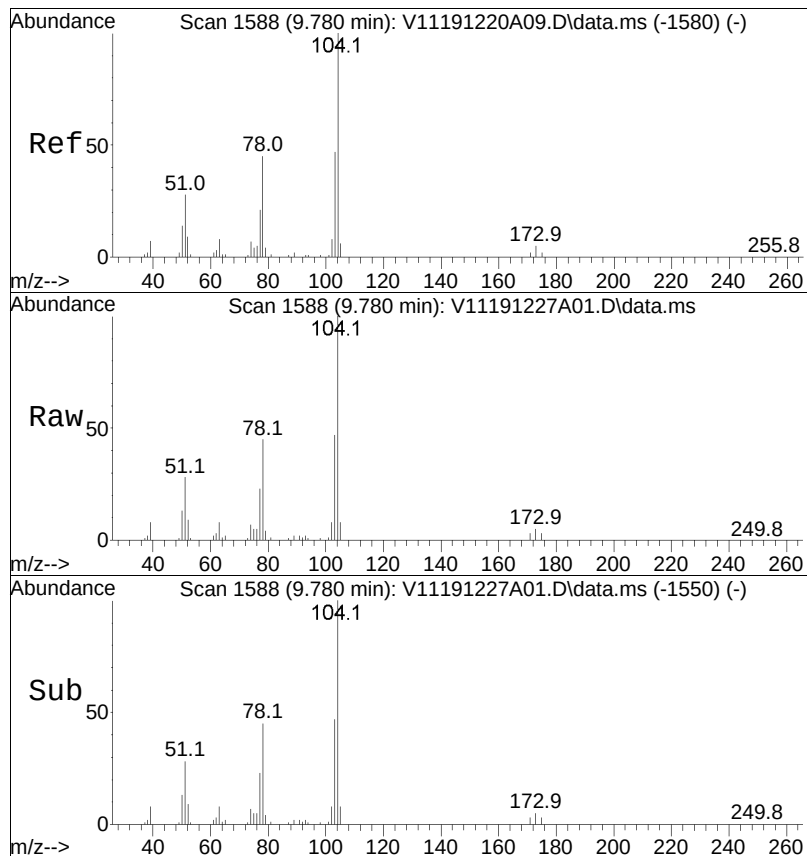




#77  
 o Xylene  
 Concen: 91.67 ug/L  
 RT: 9.706 min Scan# 1574  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

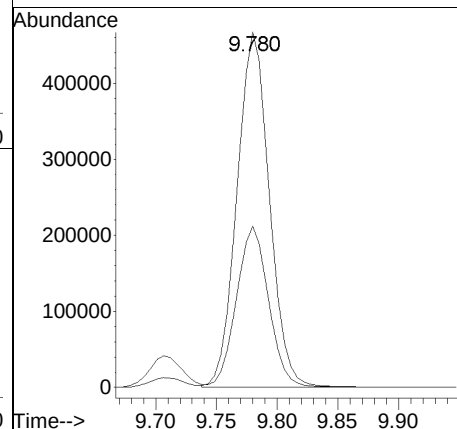
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 219.9 | 170.2 | 255.2 |       |



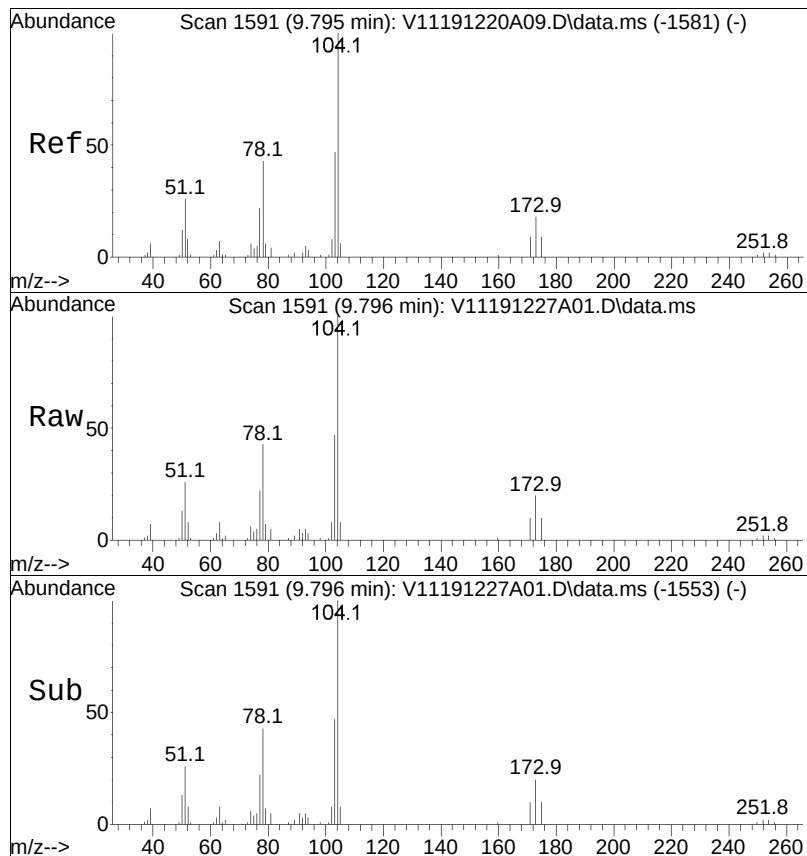


#78  
 Styrene  
 Concen: 92.53 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 104 | 100  |       |       |       |
| 78  | 45.2 | 34.4  | 51.6  |       |

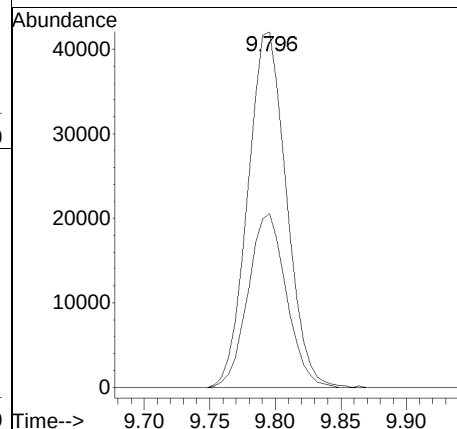


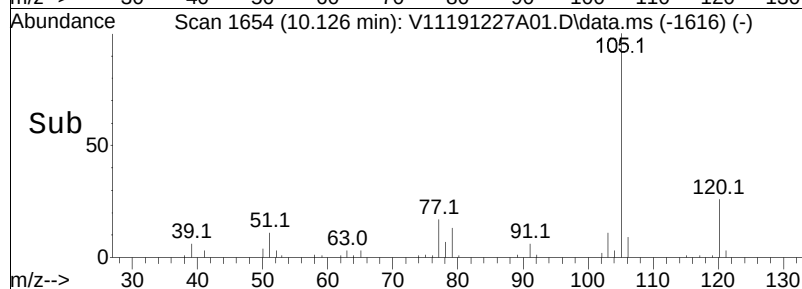
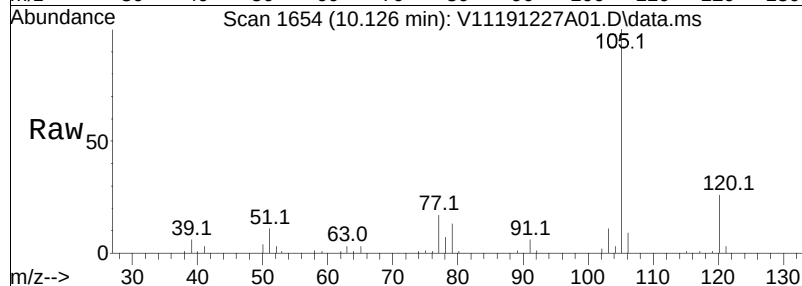
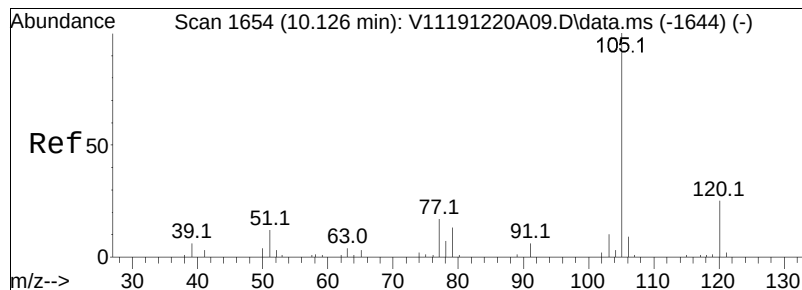




#80  
 Bromoform  
 Concen: 38.51 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 173 | 100  |       |       |       |
| 175 | 48.5 | 28.1  | 68.1  |       |





#82

Isopropylbenzene

Concen: 42.95 ug/L

RT: 10.126 min Scan# 1654

Delta R.T. -0.000 min

Lab File: V11191227A01.D

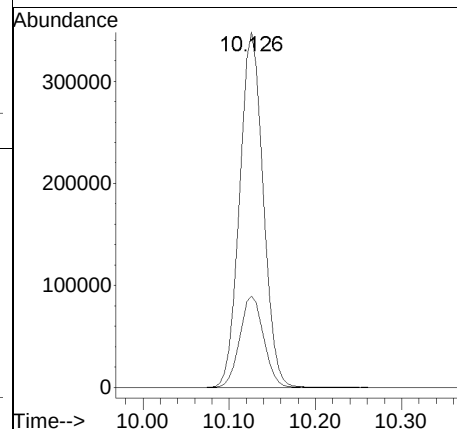
Acq: 27 Dec 2019 05:20 am

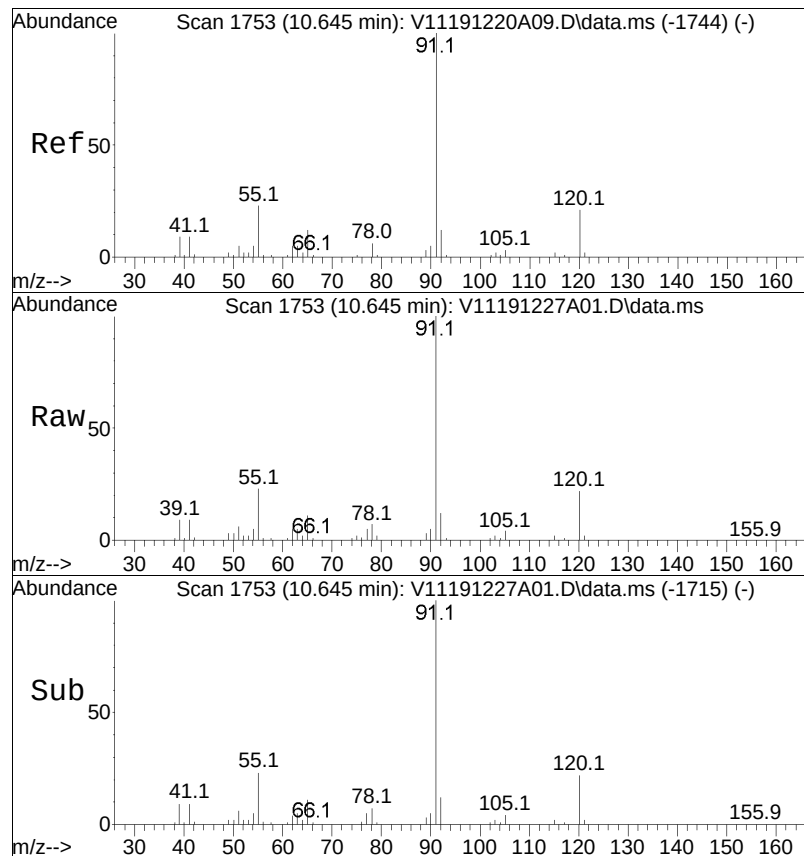
Tgt Ion:105 Resp: 660294

Ion Ratio Lower Upper

105 100

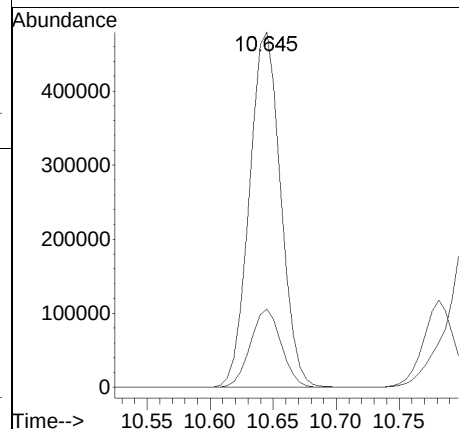
120 26.0 6.9 46.9

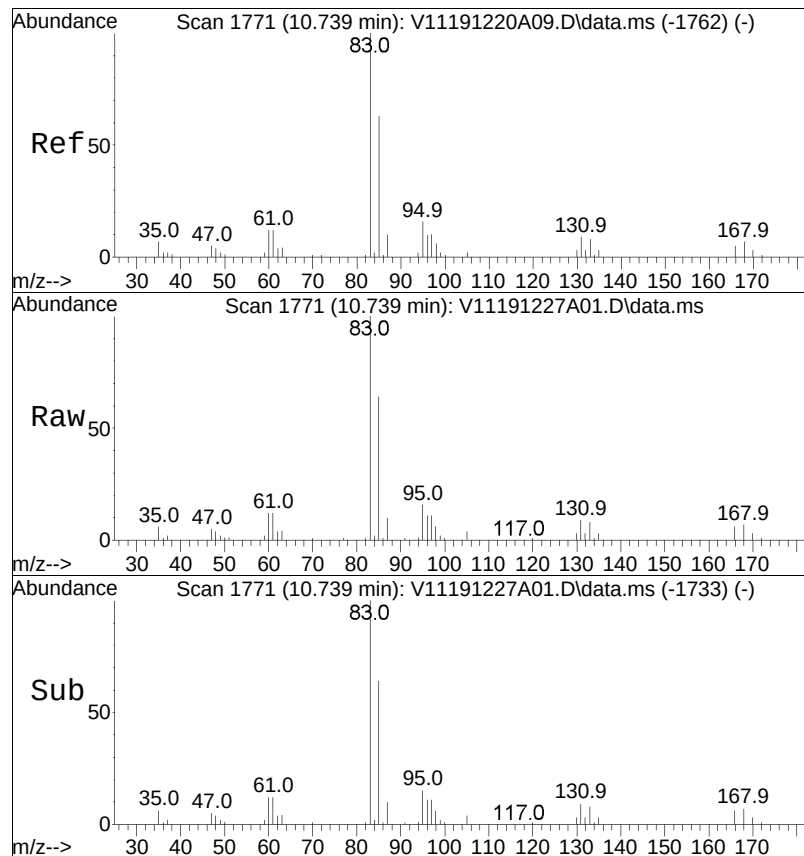




#85  
 n-Propylbenzene  
 Concen: 41.58 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

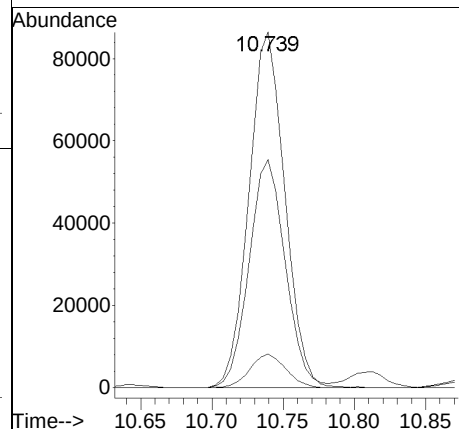
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 827948 |       |       |
| 120 | 21.7 | 18.6   | 27.8  |       |

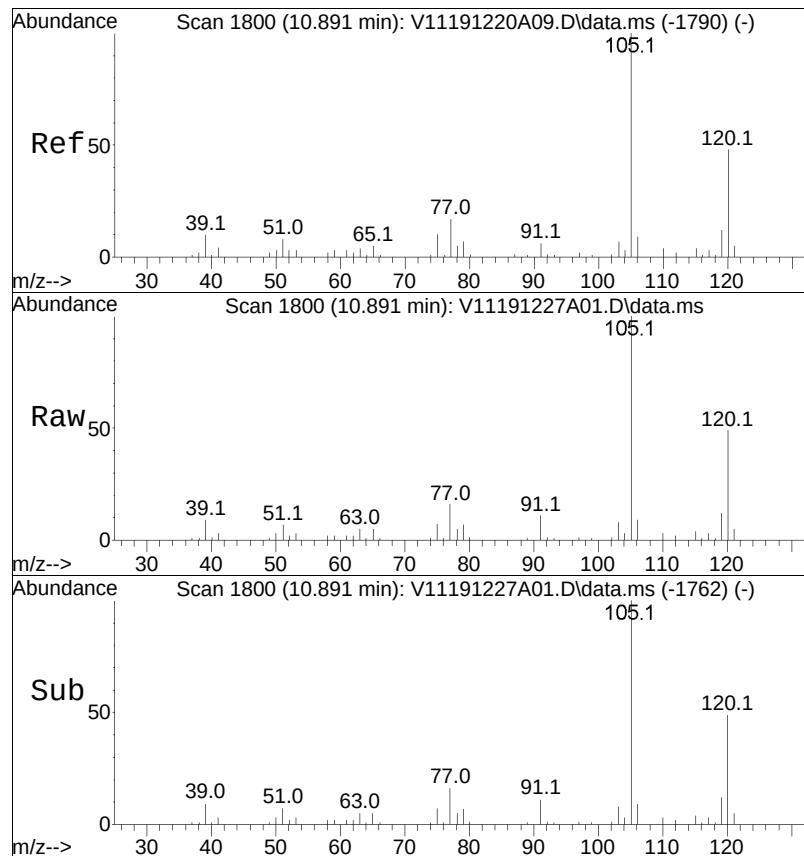




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 35.32 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

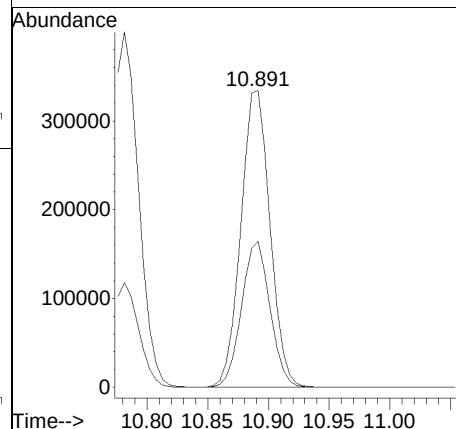
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.3   | 0.0   | 30.1  |
| 85      | 64.9  | 45.8  | 85.8  |

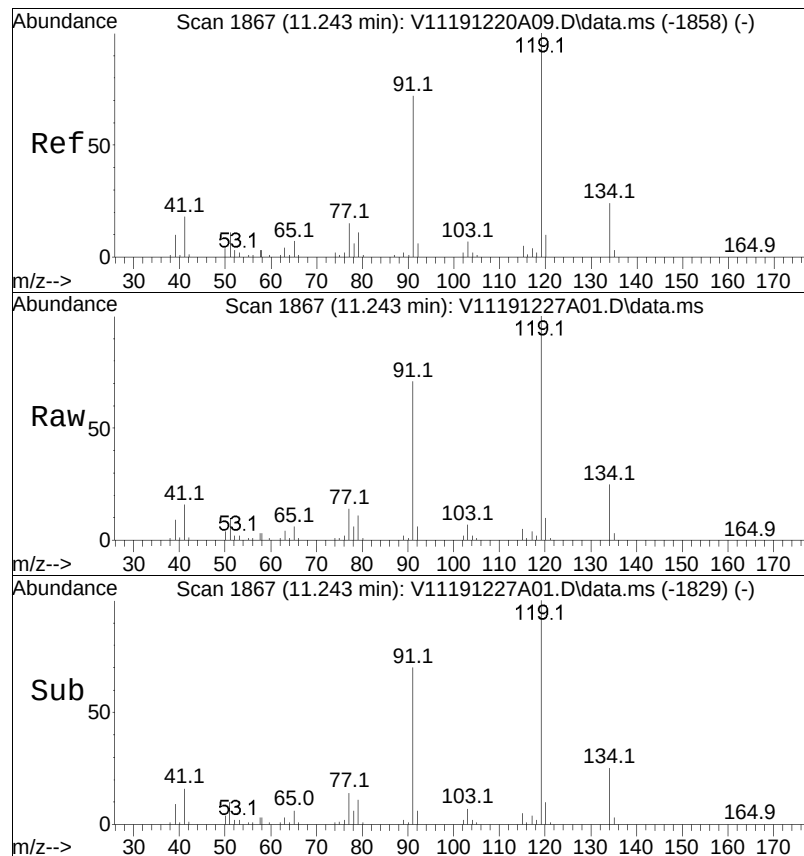




#90  
 1,3,5-Trimethylbenzene  
 Concen: 41.90 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

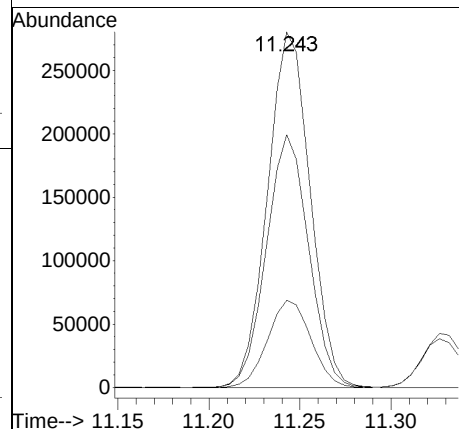
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 48.1  | 39.8  | 59.8  |

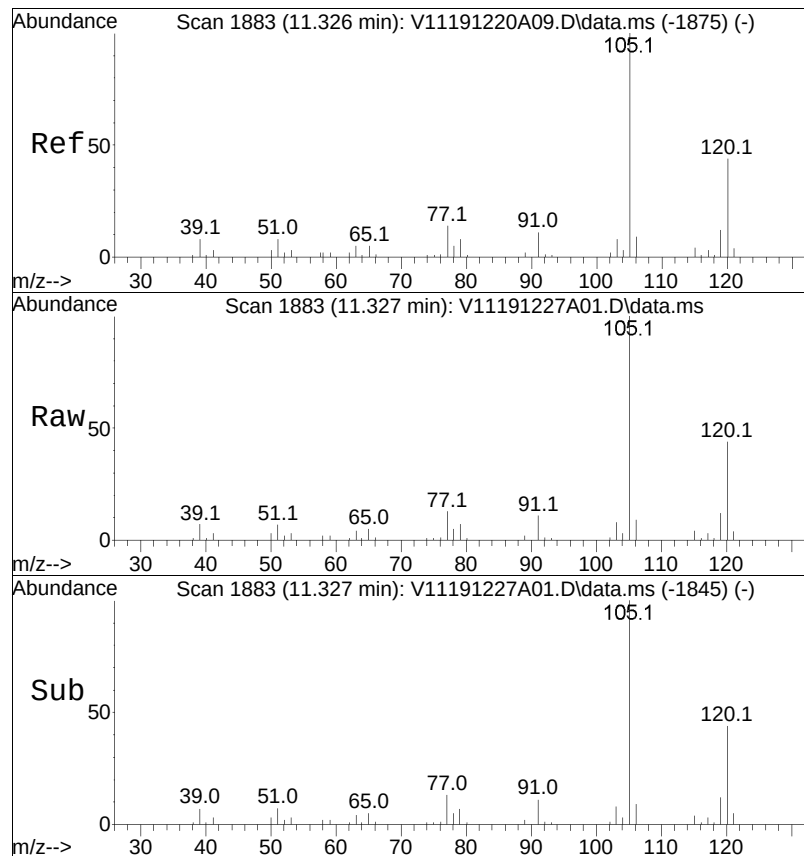




#94  
 tert-Butylbenzene  
 Concen: 42.68 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

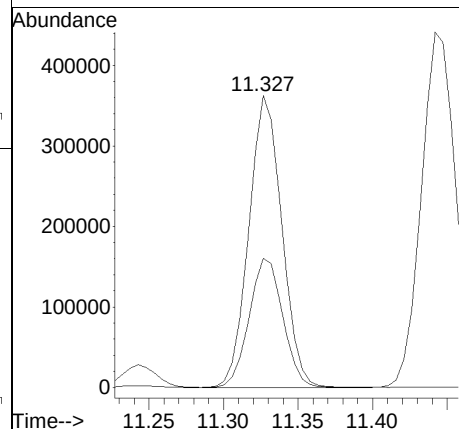
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 70.5  | 53.0  | 79.4  |
| 134     | 24.8  | 19.8  | 29.6  |

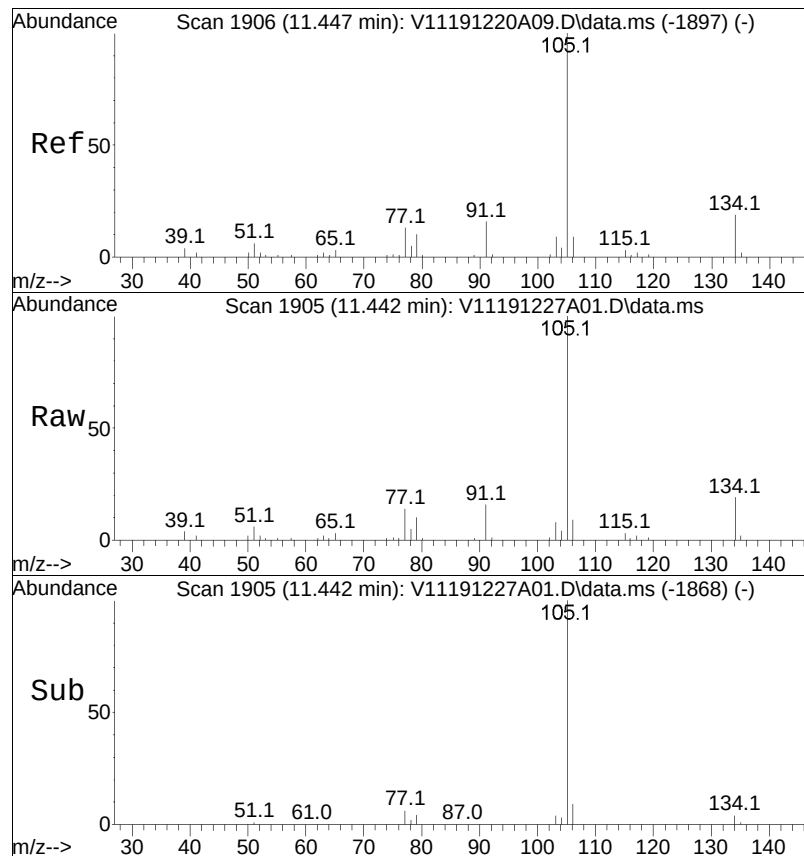




#97  
 1,2,4-Trimethylbenzene  
 Concen: 42.68 ug/L  
 RT: 11.327 min Scan# 1883  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

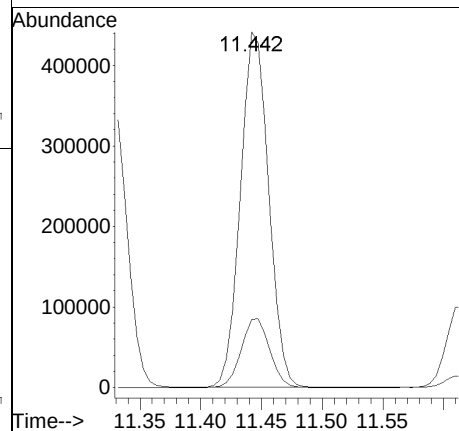
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 105 | 100  | 557775 |       |       |
| 120 | 45.1 | 37.4   | 56.0  |       |



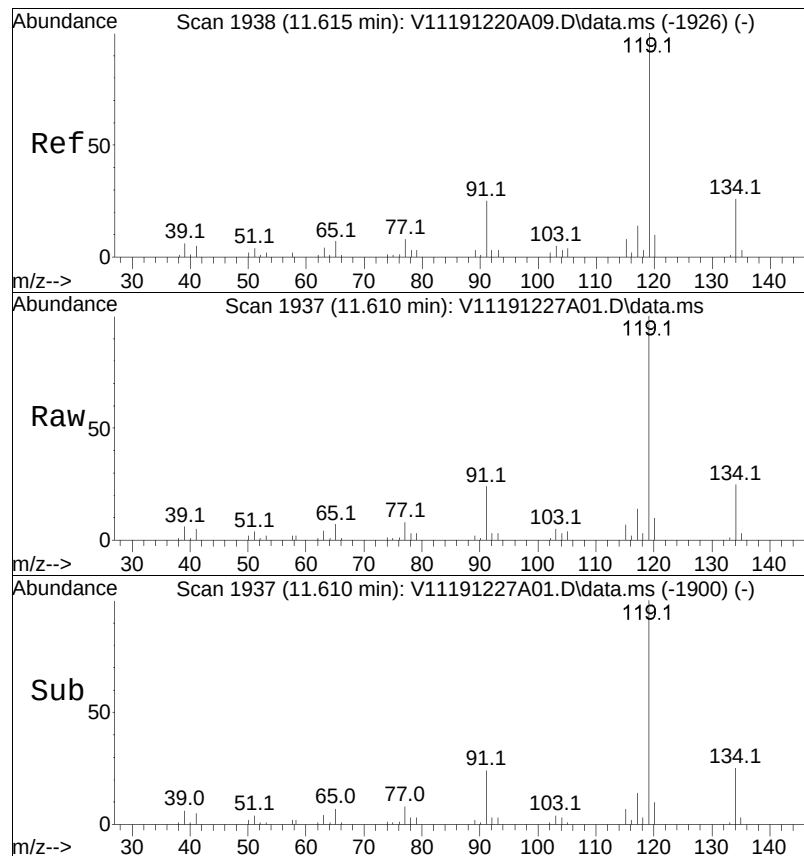


#98  
 sec-Butylbenzene  
 Concen: 42.79 ug/L  
 RT: 11.442 min Scan# 1905  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 134 | 19.4 | 13.2  | 27.4  |       |

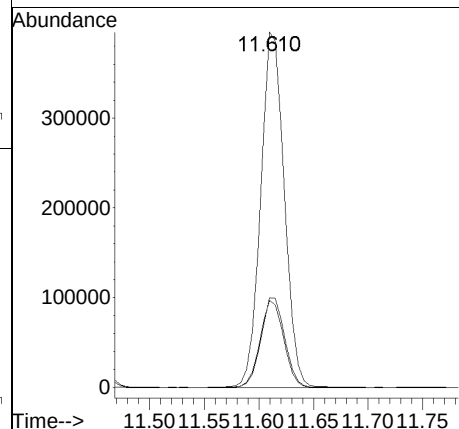


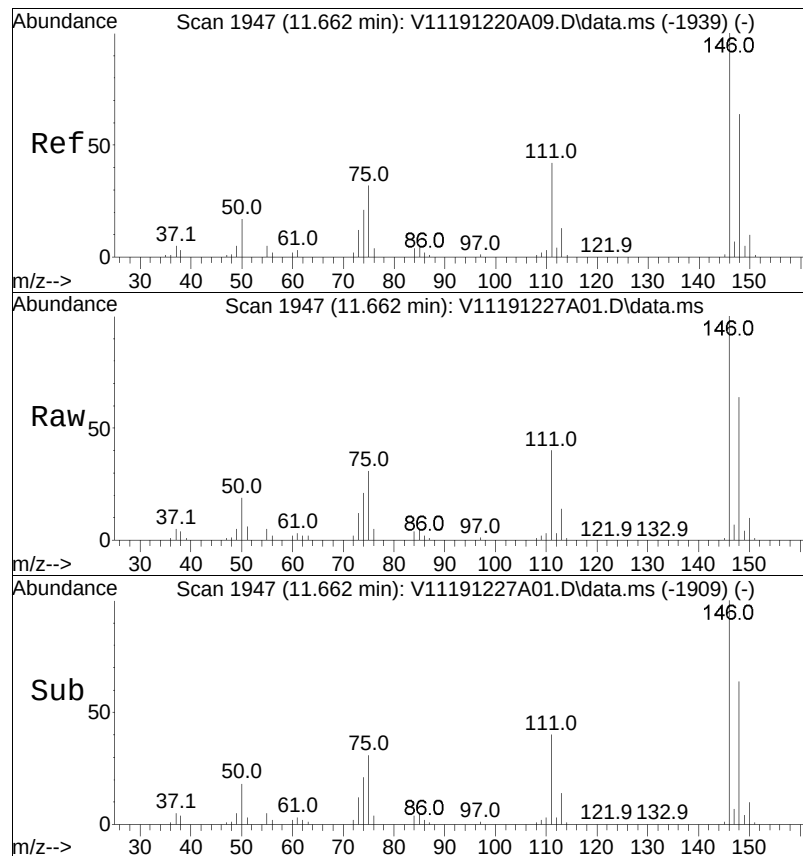




#99  
 p-Isopropyltoluene  
 Concen: 44.49 ug/L  
 RT: 11.610 min Scan# 1937  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

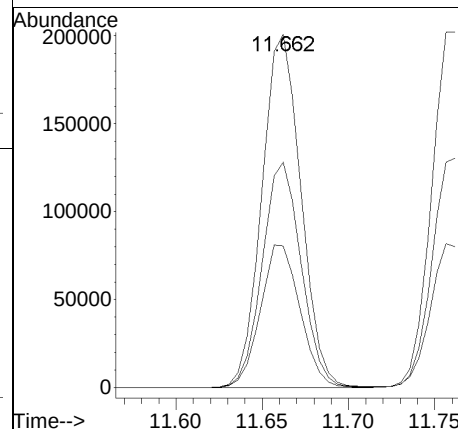
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 119 | 100  |       |       |       |
| 134 | 25.5 | 17.1  | 35.5  |       |
| 91  | 24.6 | 15.3  | 31.9  |       |

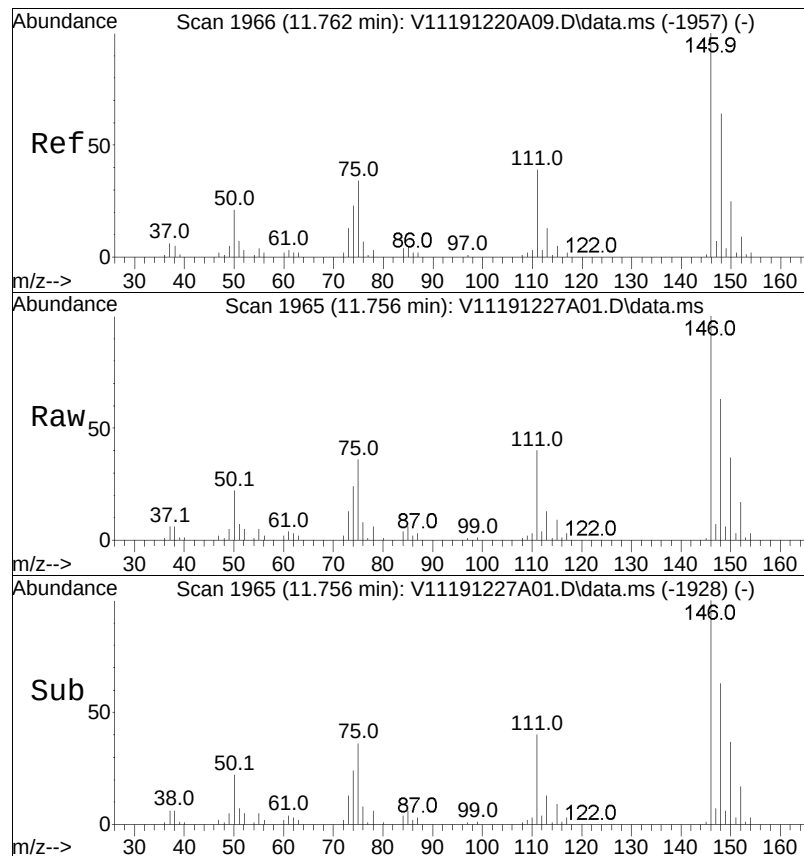




#100  
 1,3-Dichlorobenzene  
 Concen: 39.11 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

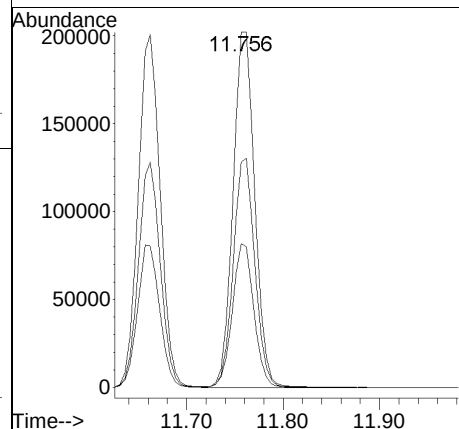
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.9  | 25.6  | 53.2  |
| 148     | 63.6  | 41.3  | 85.9  |

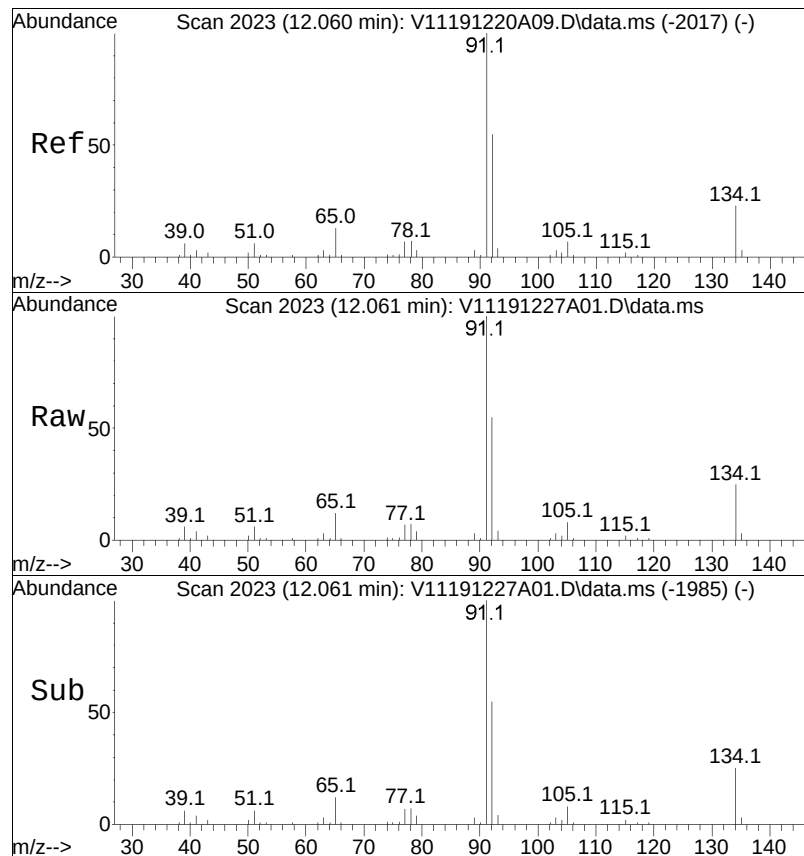




#101  
 1,4-Dichlorobenzene  
 Concen: 38.46 ug/L  
 RT: 11.756 min Scan# 1965  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

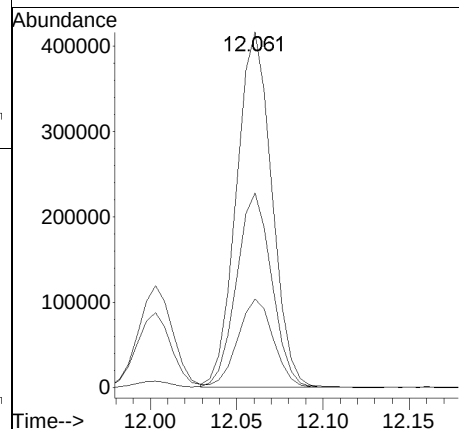
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.1  | 31.4  | 47.0  |
| 148     | 63.9  | 50.7  | 76.1  |

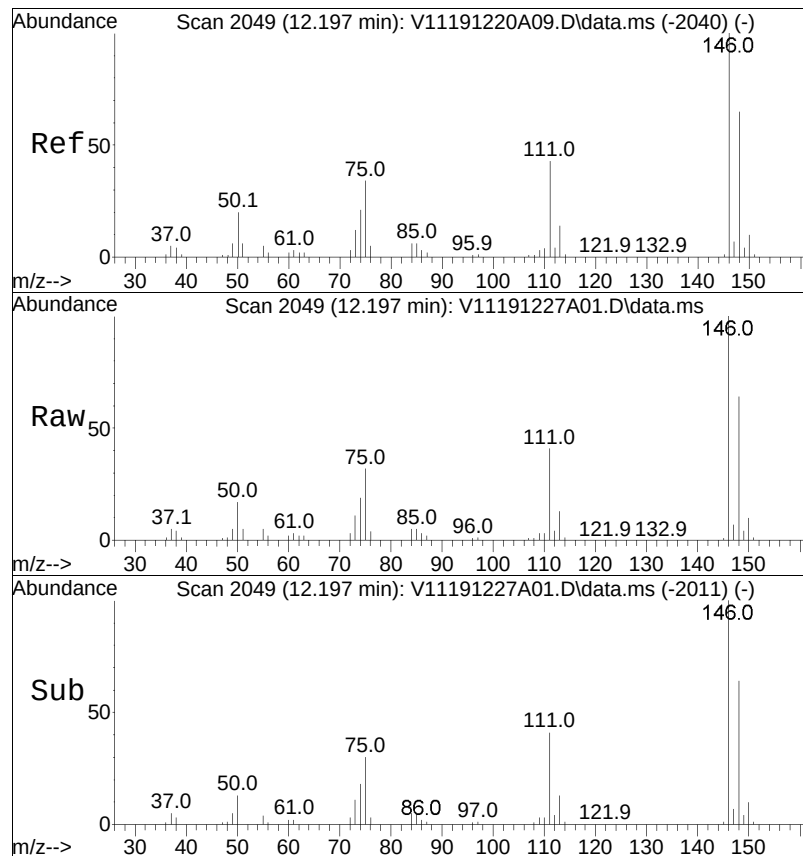




#103  
 n-Butylbenzene  
 Concen: 42.45 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

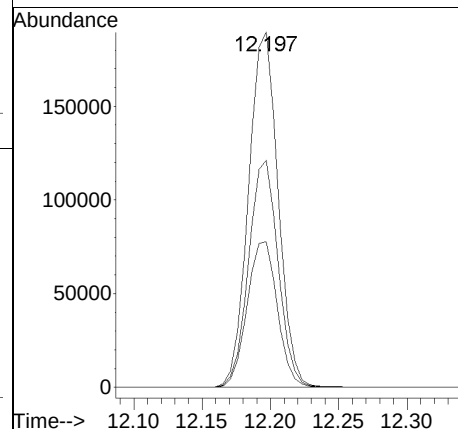
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 593593 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.7  | 43.3  | 64.9   |
| 134       | 24.9  | 21.4  | 32.0   |

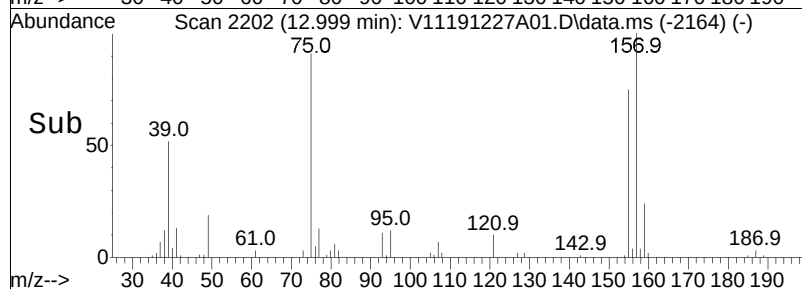
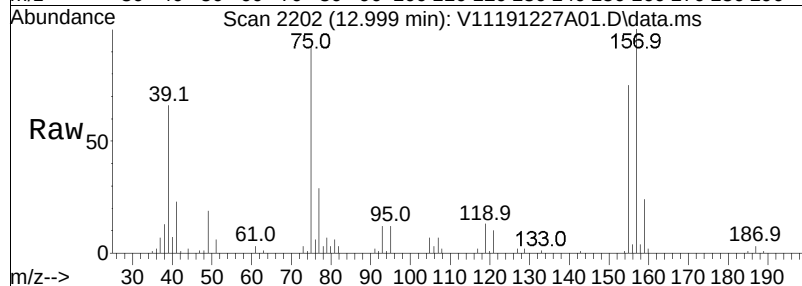
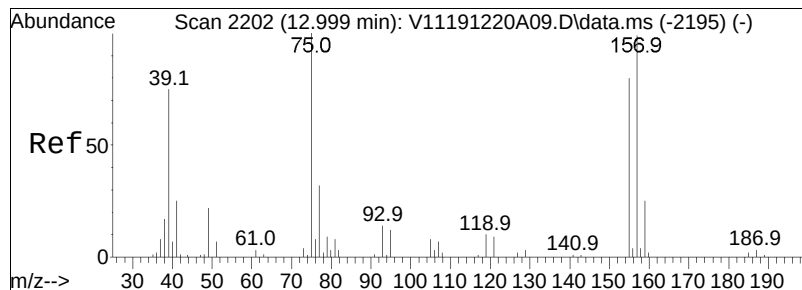




#104  
 1,2-Dichlorobenzene  
 Concen: 38.69 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

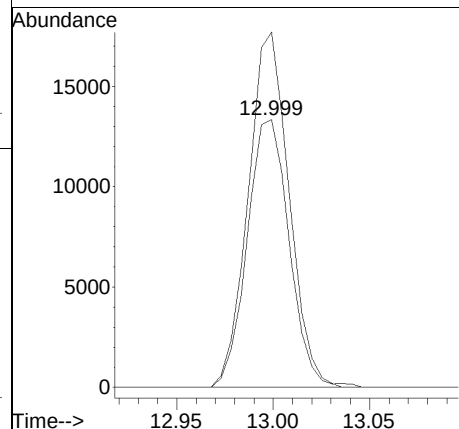
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.9  | 26.9  | 55.9  |
| 148     | 63.7  | 41.2  | 85.6  |

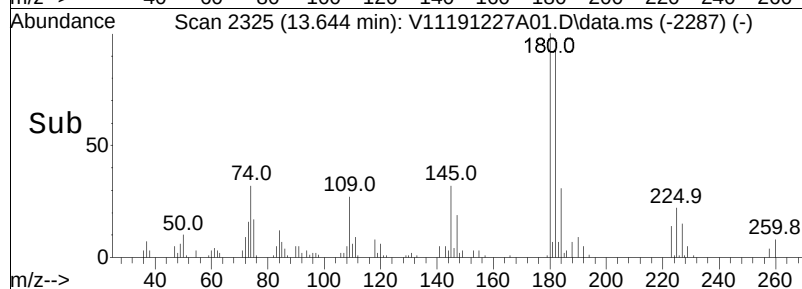
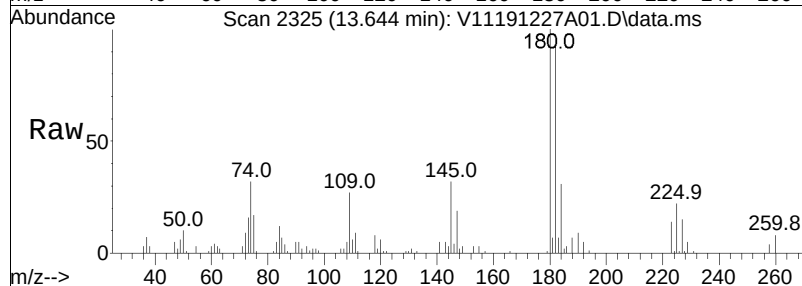
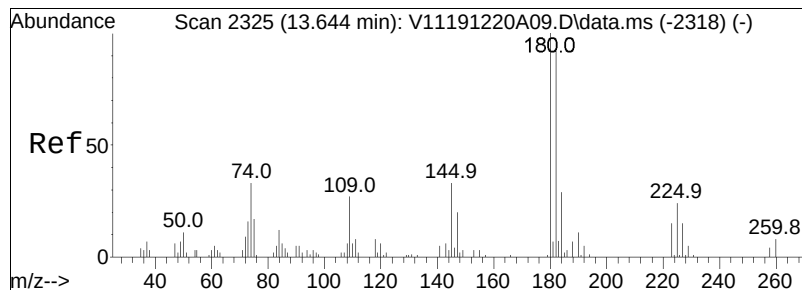




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 38.08 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 155     | 100   |       |       |
| 157     | 128.5 | 100.0 | 150.0 |





#109

1,2,4-Trichlorobenzene

Concen: 41.73 ug/L

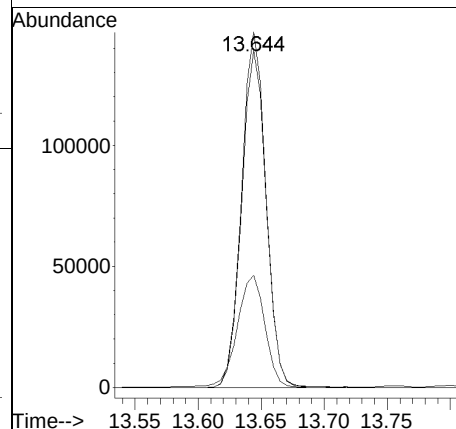
RT: 13.644 min Scan# 2325

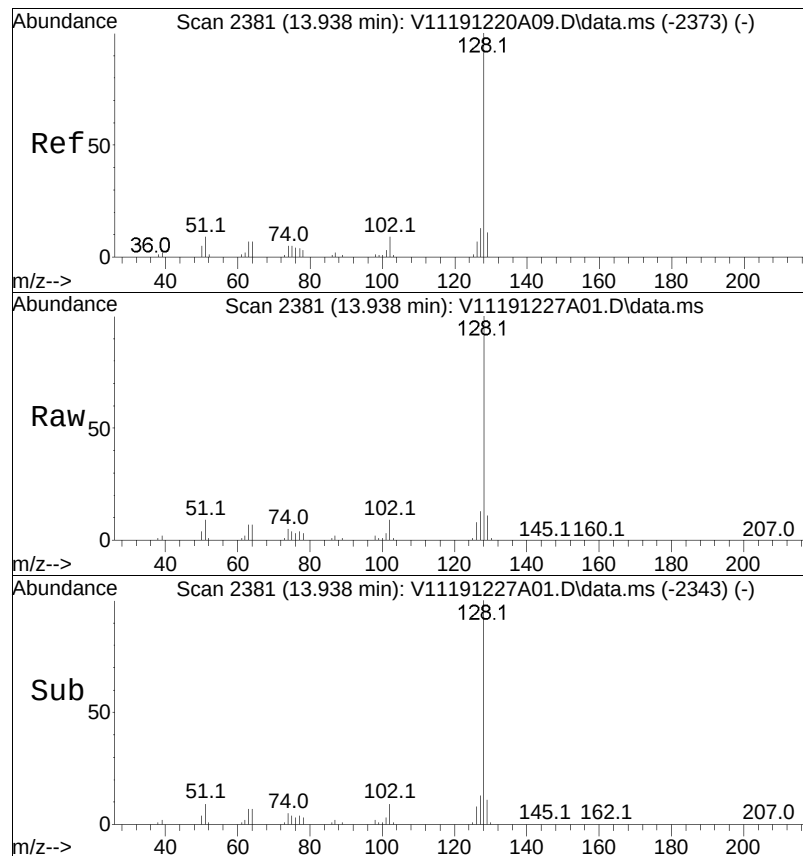
Delta R.T. 0.000 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

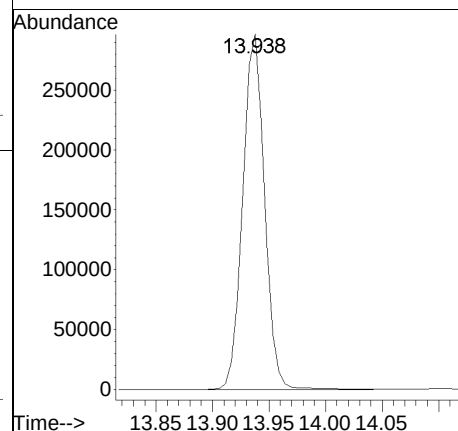
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.3  | 75.8  | 113.6 |
| 145     | 36.0  | 29.6  | 44.4  |





#110  
 Naphthalene  
 Concen: 42.83 ug/L  
 RT: 13.938 min Scan# 2381  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

Tgt Ion:128 Resp: 398123





# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\10 | Method     | : V111_191220A_8260.m |
| Data File  | : V11191227A01.D              | Operator   | : VOA111:MV           |
| Date Inj'd | : 12/27/2019 5:20 am          | Instrument | : VOA111              |
| Sample     | : WG1325768-3,31,5,5          | Quant Date | : 12/27/2019 6:25 am  |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-3,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.449          | 96   | 272895   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 221514   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 120351   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 100.00% |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 75496    | 20.783 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 103.92% |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 74637    | 19.228 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 96.14%  |          |
| 60) Toluene-d8               | 7.101          | 98   | 304770   | 19.730 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 98.65%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 123688   | 19.925 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.63%  |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 110107   | 34.746 | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 145939   | 33.218 | ug/L    | 99       |
| 4) Vinyl chloride            | 1.700          | 62   | 161626   | 40.255 | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 104599   | 47.565 | ug/L    | 98       |
| 6) Chloroethane              | 2.062          | 64   | 108248   | 45.984 | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 178146   | 37.380 | ug/L    | 99       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 114434   | 41.171 | ug/L    | 90       |
| 11) Carbon disulfide         | 2.628          | 76   | 398247   | 34.880 | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 121847   | 41.803 | ug/L    | 95       |
| 15) Methylene chloride       | 3.095          | 84   | 142583   | 36.541 | ug/L    | 73       |
| 17) Acetone                  | 3.132          | 43   | 32778    | 37.025 | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 136251   | 42.281 | ug/L    | 91       |
| 19) Methyl acetate           | 3.242          | 43   | 88336    | 37.378 | ug/L    | # 88     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 371821   | 41.698 | ug/L    | 89       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 284013   | 41.756 | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.254          | 96   | 159669   | 44.979 | ug/L    | 90       |
| 31) Cyclohexane              | 4.442          | 56   | 273344   | 49.353 | ug/L    | 80       |
| 32) Chloroform               | 4.511          | 83   | 269540   | 42.775 | ug/L    | 96       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 197897   | 46.021 | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.694          | 97   | 225794   | 44.459 | ug/L    | 98       |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-3,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 39)  | 2-Butanone                | 4.783  | 43   | 60248    | 44.297 | ug/L  | # 77     |
| 41)  | Benzene                   | 5.045  | 78   | 590150   | 42.226 | ug/L  | 92       |
| 44)  | 1,2-Dichloroethane        | 5.239  | 62   | 189980   | 39.663 | ug/L  | 98       |
| 47)  | Methyl cyclohexane        | 5.612  | 83   | 249783   | 47.980 | ug/L  | # 77     |
| 48)  | Trichloroethene           | 5.622  | 95   | 150909   | 44.604 | ug/L  | 93       |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 166682   | 43.242 | ug/L  | 98       |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 209720   | 42.445 | ug/L  | 99       |
| 58)  | cis-1,3-Dichloropropene   | 6.901  | 75   | 255568   | 45.636 | ug/L  | # 88     |
| 61)  | Toluene                   | 7.158  | 92   | 370947   | 41.363 | ug/L  | 98       |
| 62)  | 4-Methyl-2-pentanone      | 7.593  | 58   | 47288    | 41.408 | ug/L  | # 82     |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 146765   | 43.754 | ug/L  | 98       |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 222888   | 41.599 | ug/L  | # 82     |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 105307   | 39.247 | ug/L  | 98       |
| 69)  | Chlorodibromomethane      | 8.023  | 129  | 140372   | 40.481 | ug/L  | 99       |
| 71)  | 1,2-Dibromoethane         | 8.280  | 107  | 111178   | 39.297 | ug/L  | 97       |
| 72)  | 2-Hexanone                | 8.590  | 43   | 78853    | 39.071 | ug/L  | 94       |
| 73)  | Chlorobenzene             | 8.930  | 112  | 383040   | 39.374 | ug/L  | 96       |
| 74)  | Ethylbenzene              | 8.983  | 91   | 692490   | 42.936 | ug/L  | 98       |
| 76)  | p/m Xylene                | 9.172  | 106  | 522899   | 90.468 | ug/L  | 94       |
| 77)  | o Xylene                  | 9.706  | 106  | 511739   | 91.669 | ug/L  | 95       |
| 78)  | Styrene                   | 9.780  | 104  | 864644   | 92.526 | ug/L  | 97       |
| 80)  | Bromoform                 | 9.796  | 173  | 86072    | 38.506 | ug/L  | 99       |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 660294   | 42.947 | ug/L  | 98       |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 827948   | 41.579 | ug/L  | 97       |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 150851   | 35.319 | ug/L  | 99       |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 557956   | 41.895 | ug/L  | 98       |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 456508   | 42.681 | ug/L  | 96       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 557775   | 42.682 | ug/L  | 98       |
| 98)  | sec-Butylbenzene          | 11.442 | 105  | 713428   | 42.793 | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 11.610 | 119  | 594154   | 44.494 | ug/L  | 98       |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 316421   | 39.114 | ug/L  | 99       |
| 101) | 1,4-Dichlorobenzene       | 11.756 | 146  | 317105   | 38.458 | ug/L  | 99       |
| 103) | n-Butylbenzene            | 12.061 | 91   | 593593   | 42.451 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 286432   | 38.688 | ug/L  | 99       |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 20222    | 38.082 | ug/L  | 97       |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 197572   | 41.730 | ug/L  | 99       |
| 110) | Naphthalene               | 13.938 | 128  | 398123   | 42.828 | ug/L  | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A01.D  
 Acq On : 27 Dec 2019 05:20 am  
 Operator : VOA111:MV  
 Sample : WG1325770-3,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 27 06:25:51 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

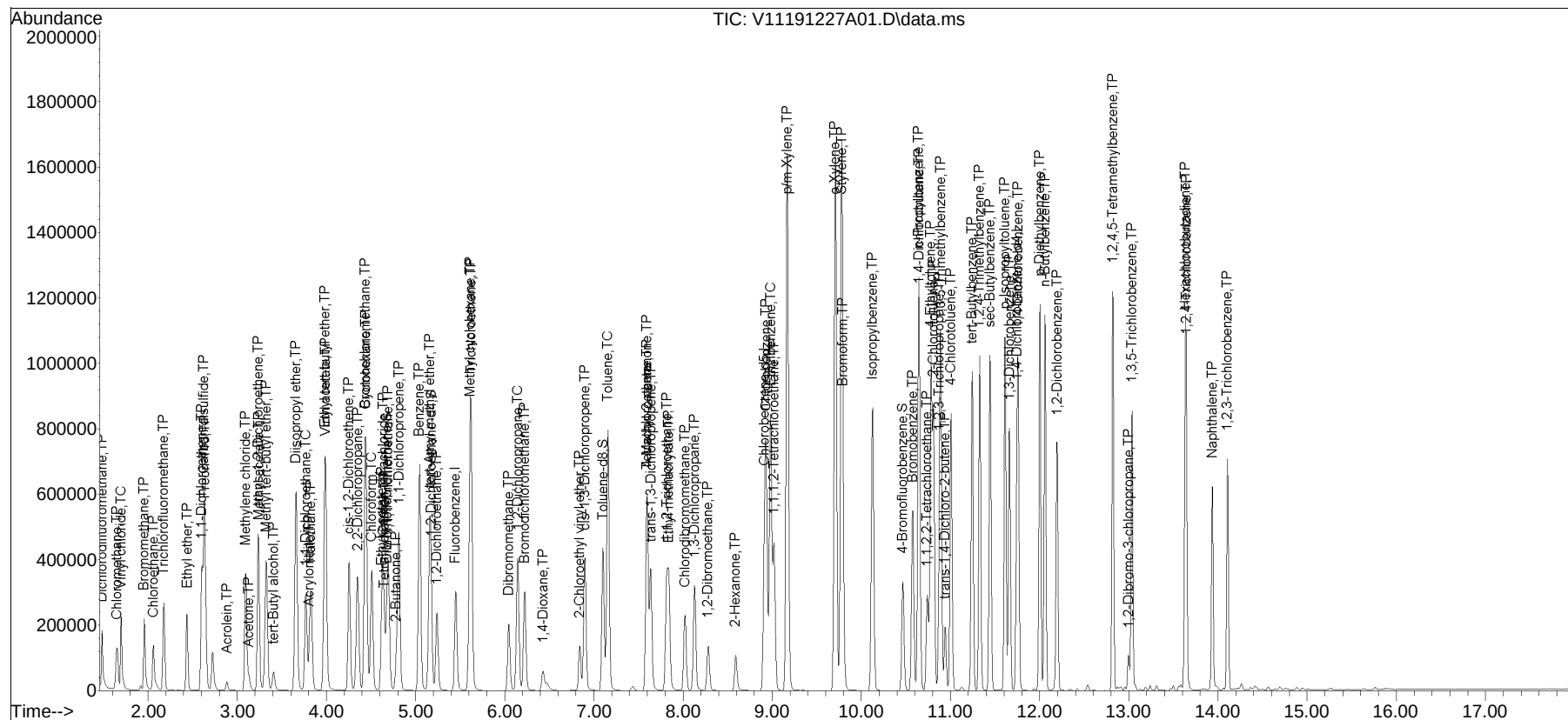
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

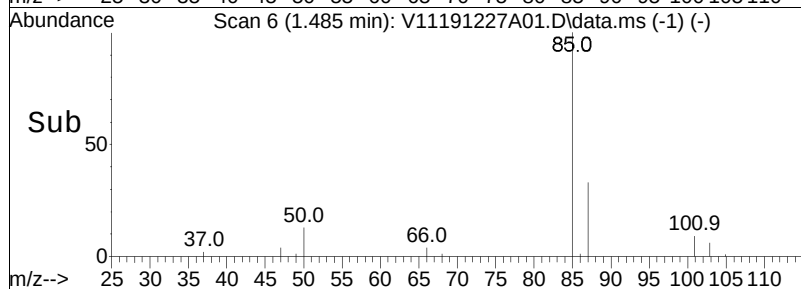
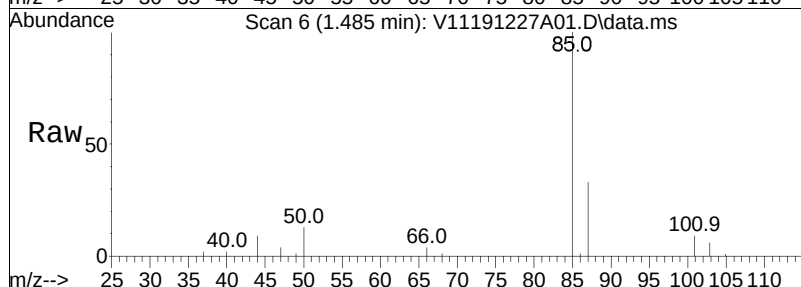
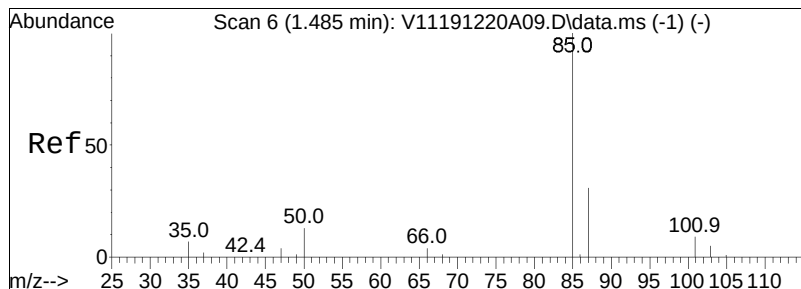
Quantitation Report (QT Reviewed)

```
Data Path : I:\VOLATILES\VOA111\2019\191227A\
Data File : V1191227A01.D
Acq On    : 27 Dec 2019  05:20 am
Operator  : VOA111:MV
Sample    : WG1325770-3, 31h, 15, 15, 0.1
Misc      : WG1325770, ICAL16383
ALS Vial  : 1      Sample Multiplier: 1
```

Quant Time: Dec 27 06:25:51 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:19:02 2019  
Response via : Initial Calibration

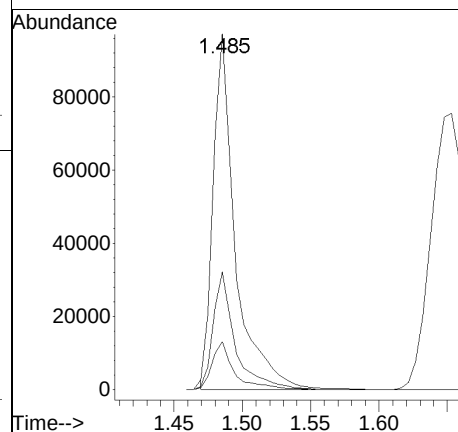
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

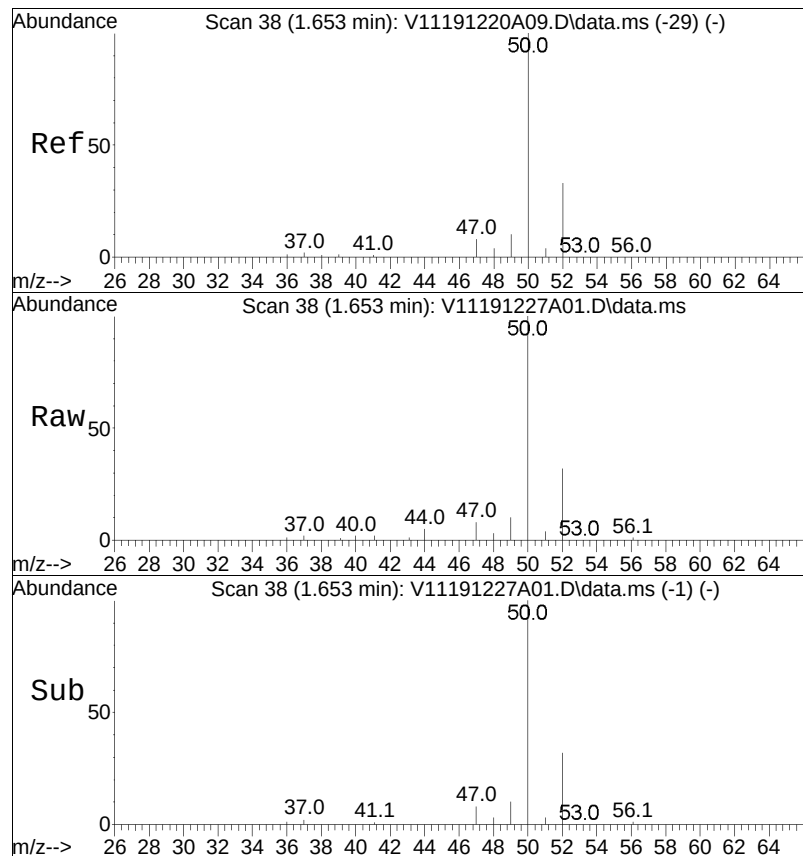




#2  
 Dichlorodifluoromethane  
 Concen: 34.75 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

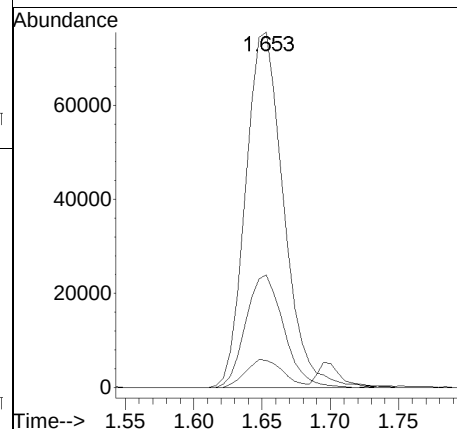
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion   | 85    | Resp: | 110107 |
| Ion Ratio | Lower | Upper |        |
| 85        | 100   |       |        |
| 87        | 32.2  | 20.7  | 43.1   |
| 50        | 13.2  | 9.8   | 20.3   |

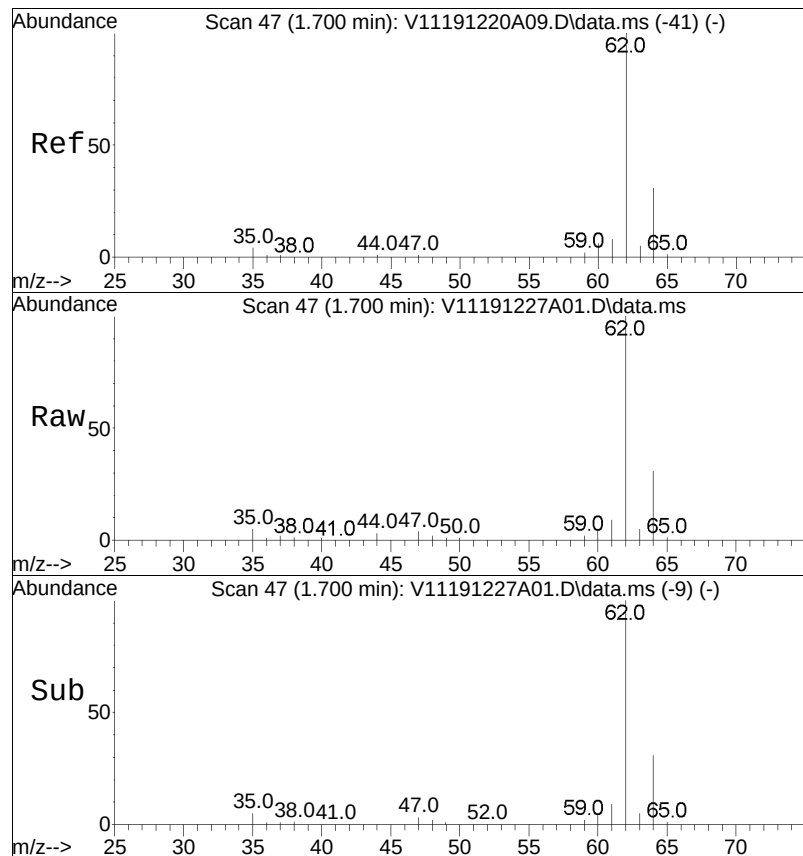




#3  
 Chloromethane  
 Concen: 33.22 ug/L  
 RT: 1.653 min Scan# 38  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

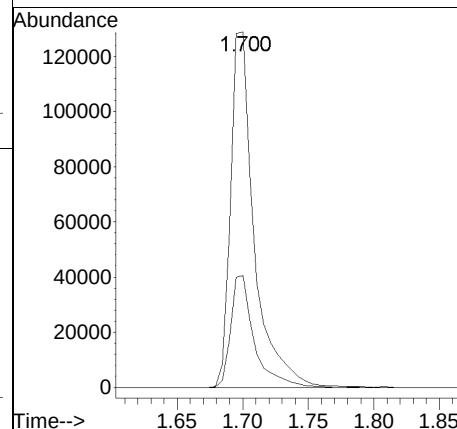
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 50 | Resp: | 145939 |
| Ion | Ratio   | Lower | Upper  |
| 50  | 100     |       |        |
| 52  | 31.7    | 10.9  | 50.9   |
| 47  | 7.8     | 0.0   | 27.2   |



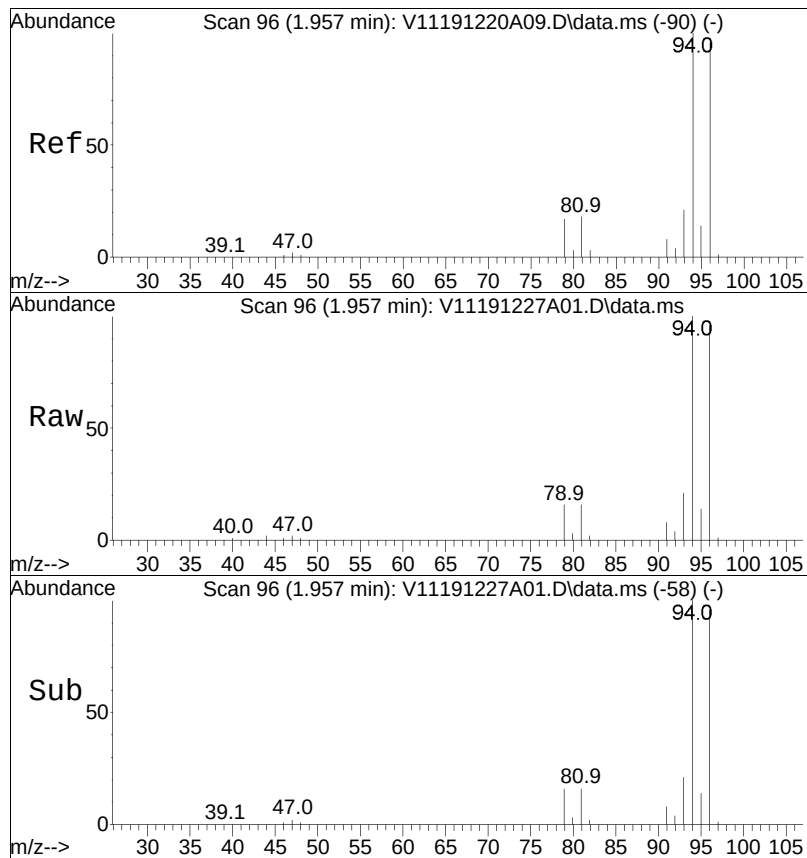


#4  
 Vinyl chloride  
 Concen: 40.26 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.3  | 9.9   | 49.9  |

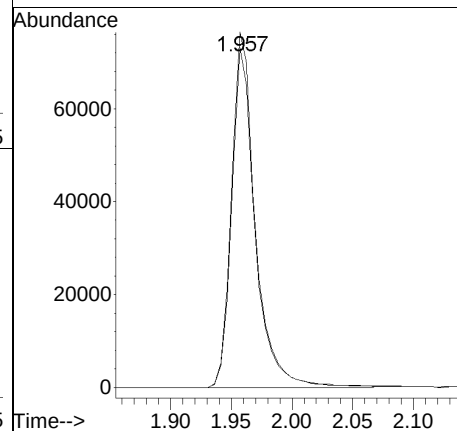


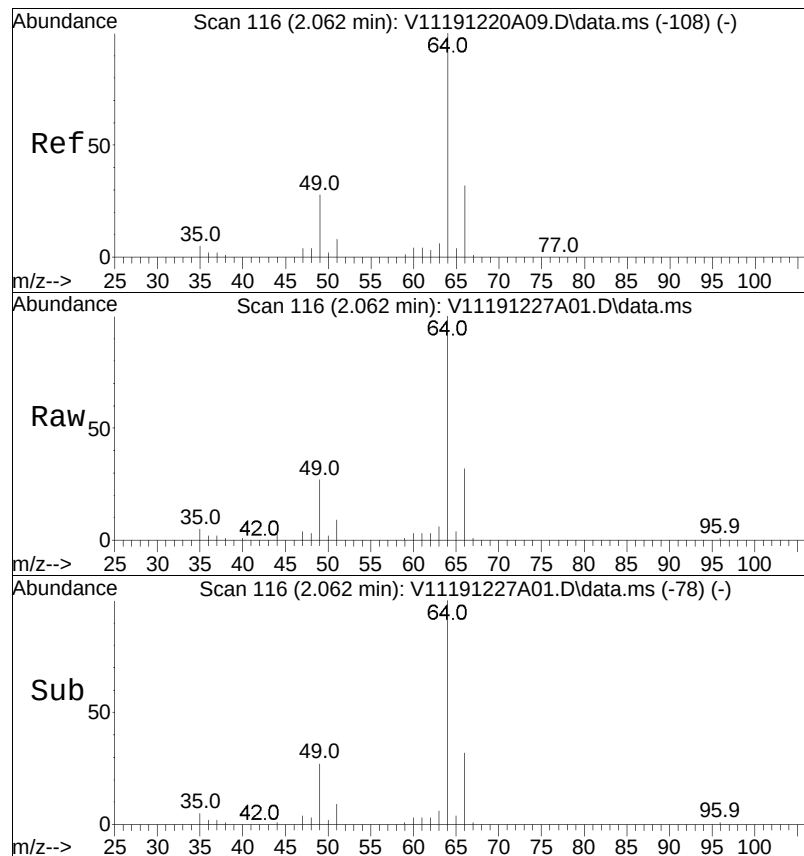




#5  
 Bromomethane  
 Concen: 47.57 ug/L  
 RT: 1.957 min Scan# 96  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

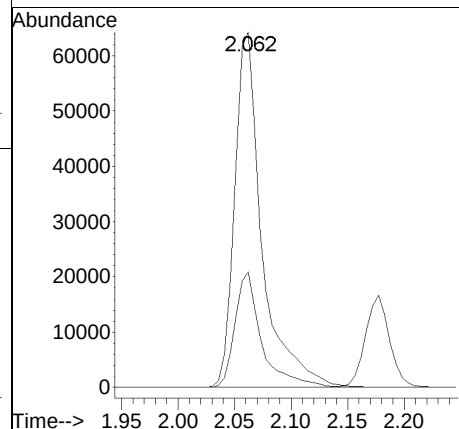
Tgt Ion: 94 Resp: 104599  
 Ion Ratio Lower Upper  
 94 100  
 96 94.3 72.6 112.6

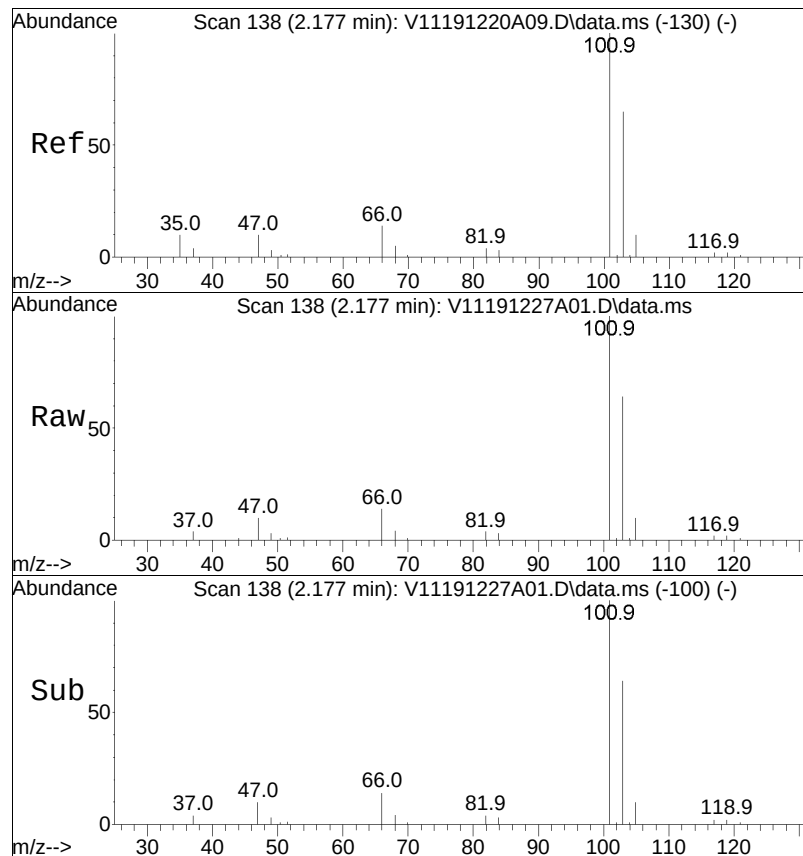




#6  
 Chloroethane  
 Concen: 45.98 ug/L  
 RT: 2.062 min Scan# 116  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

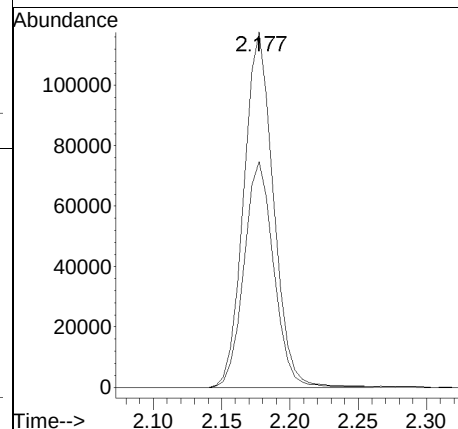
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 31.6  | 10.2  | 50.2  |

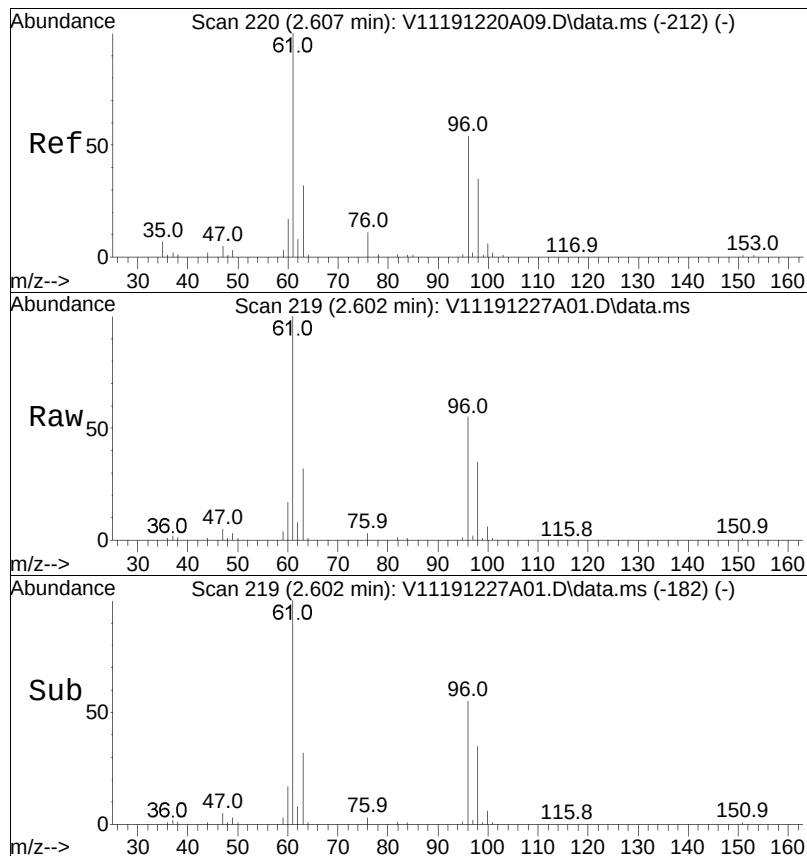




#7  
 Trichlorofluoromethane  
 Concen: 37.38 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

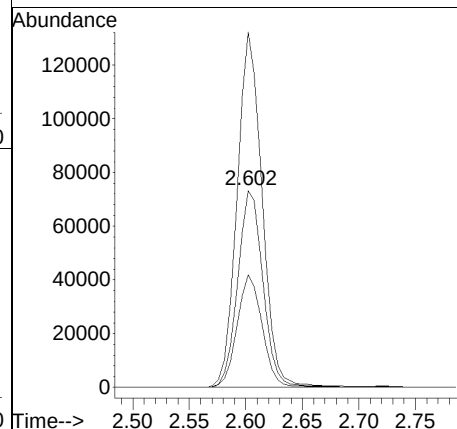
| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 101 | 101 | 100   |       |       |
| 103 | 103 | 63.6  | 51.8  | 77.6  |

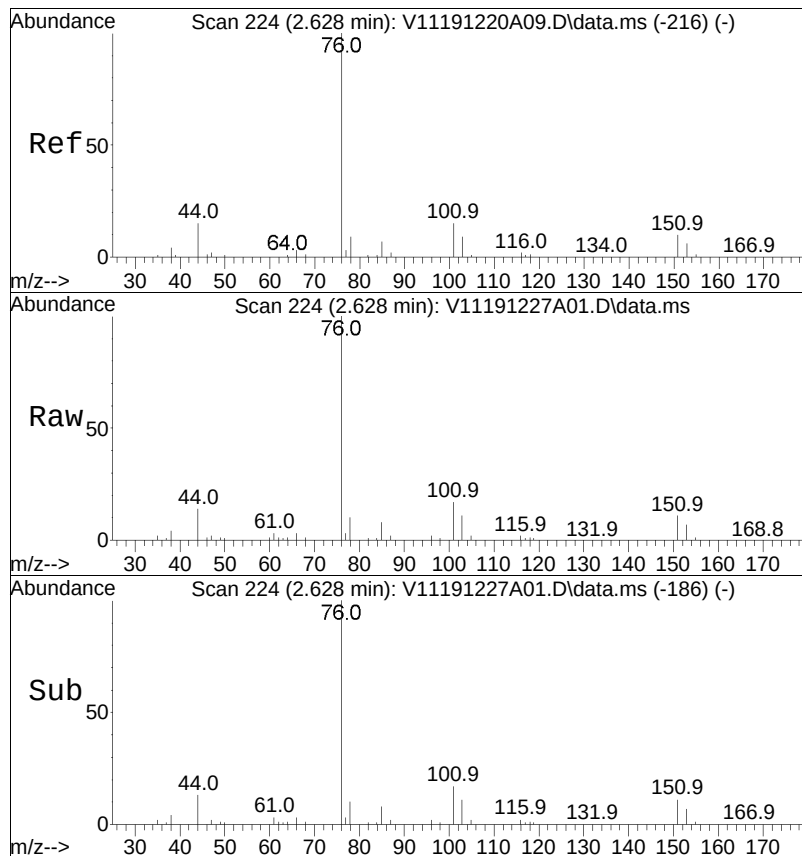




#10  
 1,1-Dichloroethene  
 Concen: 41.17 ug/L  
 RT: 2.602 min Scan# 219  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

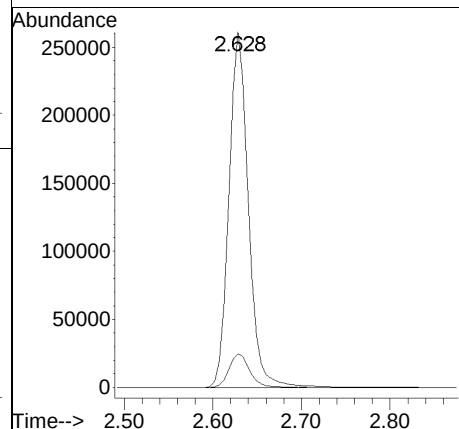
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 96 | Resp: | 114434 |
| Ion | Ratio   | Lower | Upper  |
| 96  | 100     |       |        |
| 61  | 178.5   | 157.7 | 236.5  |
| 63  | 56.8    | 47.9  | 71.9   |

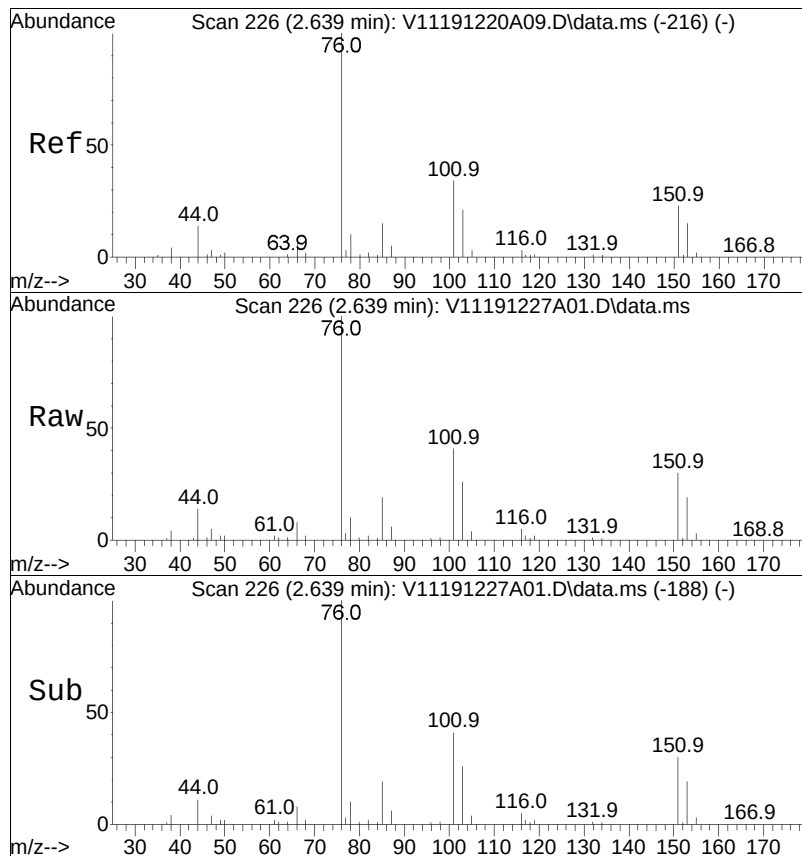




#11  
Carbon disulfide  
Concen: 34.88 ug/L  
RT: 2.628 min Scan# 224  
Delta R.T. 0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

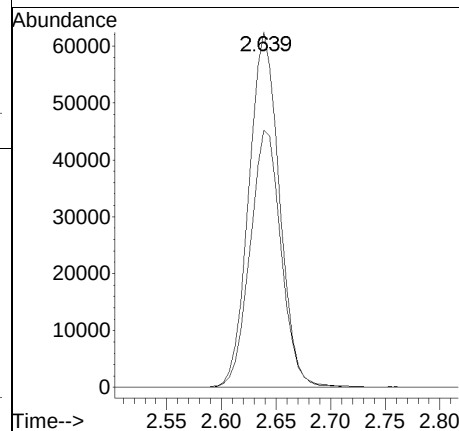
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 10.0  | 6.4   | 13.4  |

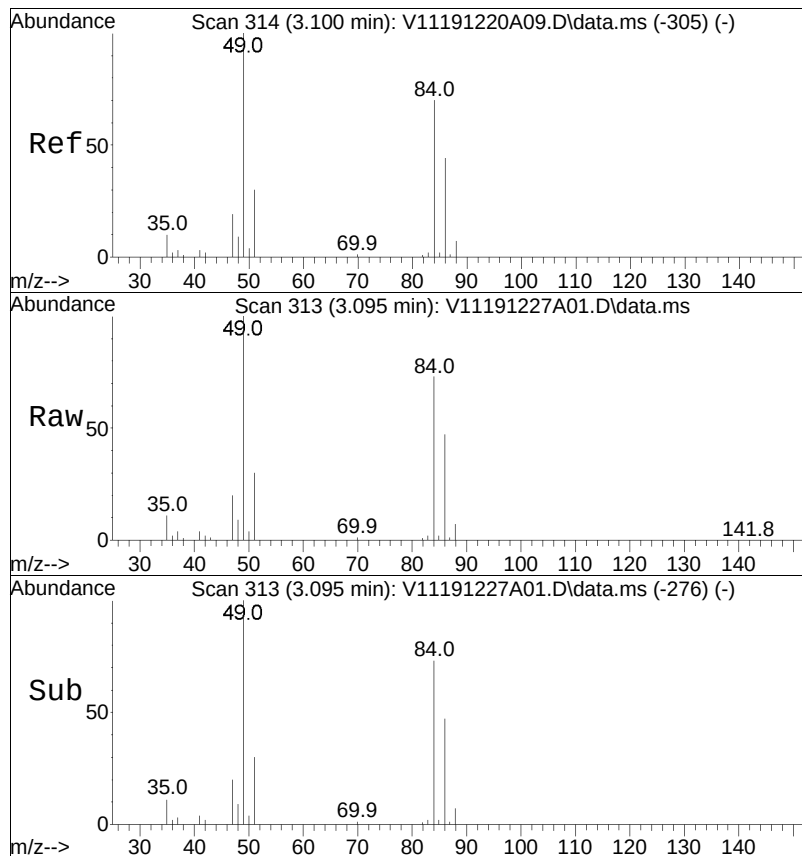




#12  
 Freon-113  
 Concen: 41.80 ug/L  
 RT: 2.639 min Scan# 226  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

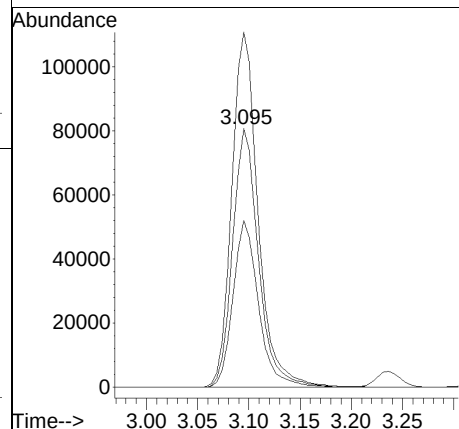
| Tgt Ion | 101    | 151  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 121847 |      |       |       |       |
| Ion     | 100    | 73.5 |       | 62.2  | 93.4  |

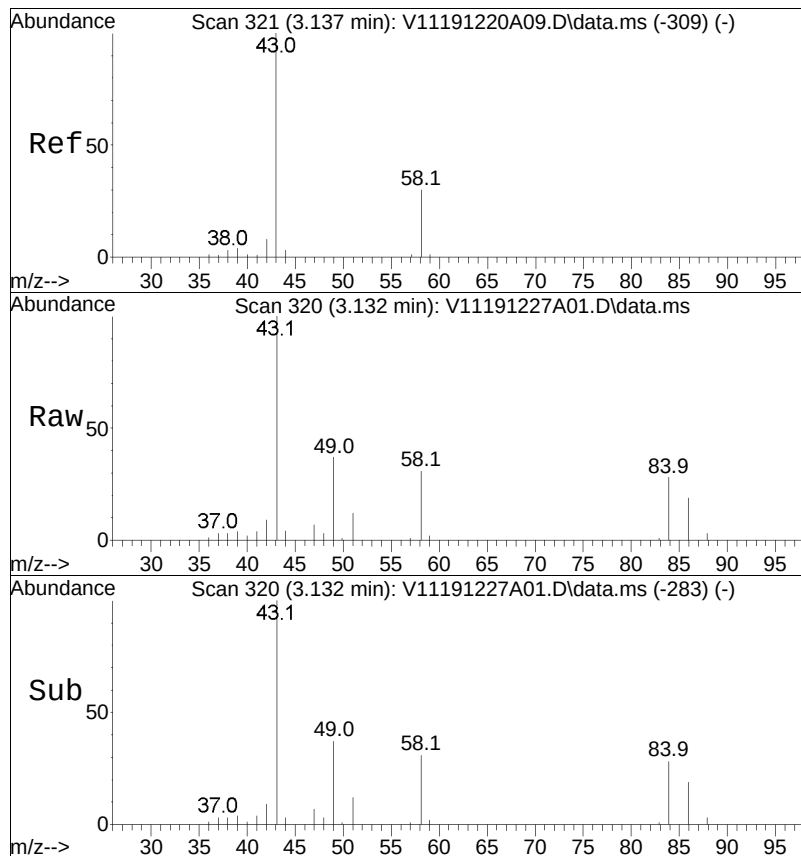




#15  
 Methylene chloride  
 Concen: 36.54 ug/L  
 RT: 3.095 min Scan# 313  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

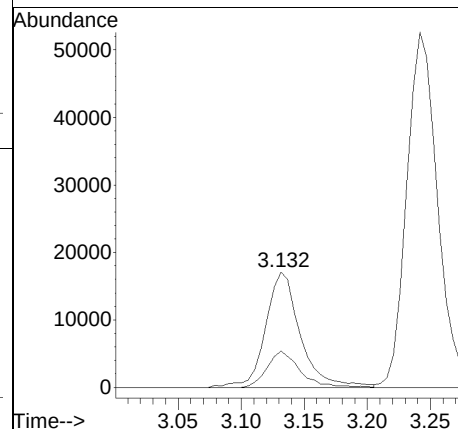
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 84    | Resp: | 142583 |
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 63.6  | 41.1  | 85.3   |
| 49        | 139.0 | 124.2 | 258.0  |



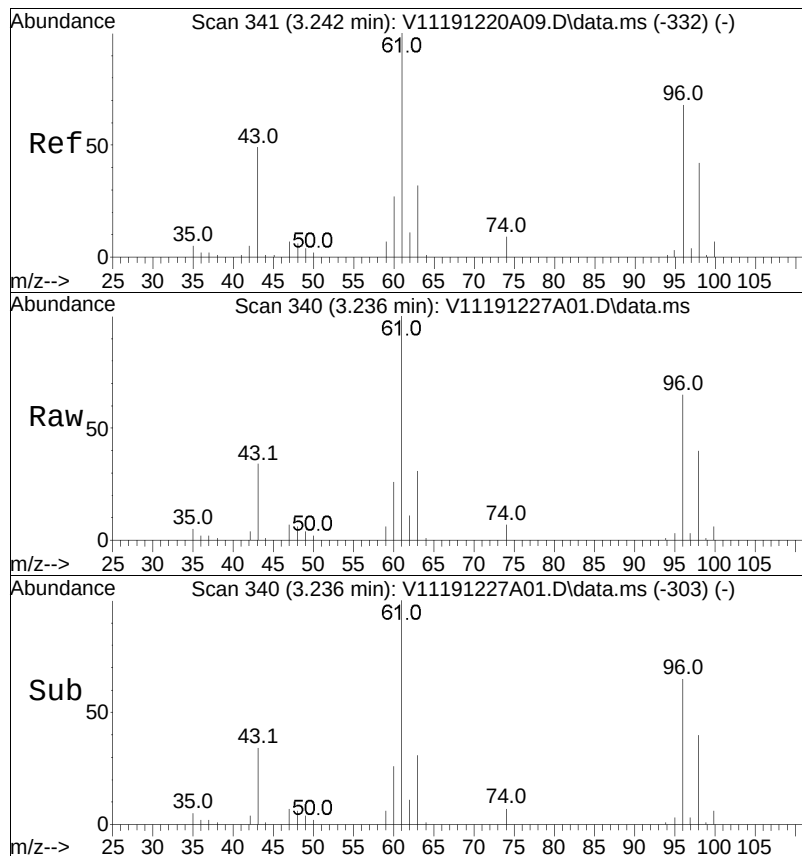


#17  
 Acetone  
 Concen: 37.02 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion:  | 43    | Resp: | 32778 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 29.8  | 20.8  | 31.2  |

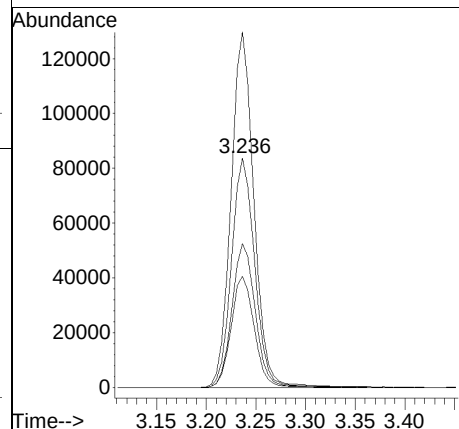


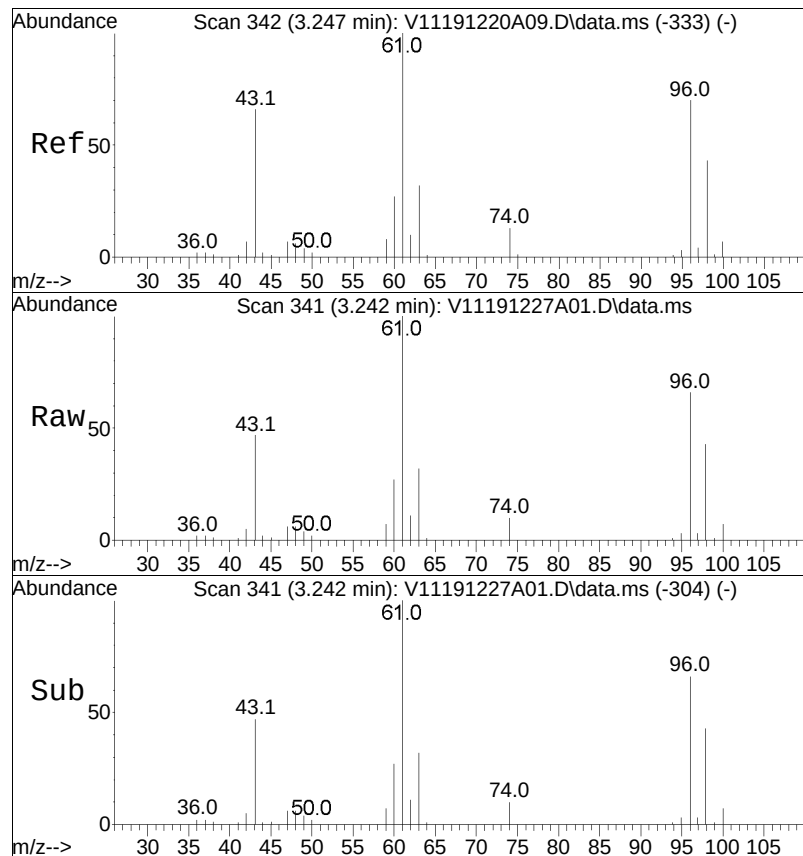




#18  
 trans-1,2-Dichloroethene  
 Concen: 42.28 ug/L  
 RT: 3.236 min Scan# 340  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

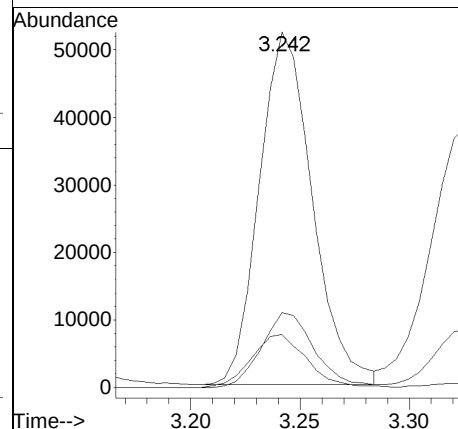
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 136251 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 152.8 | 111.1 | 230.8  |
| 98        | 63.0  | 41.8  | 86.8   |
| 63        | 48.4  | 33.3  | 69.1   |

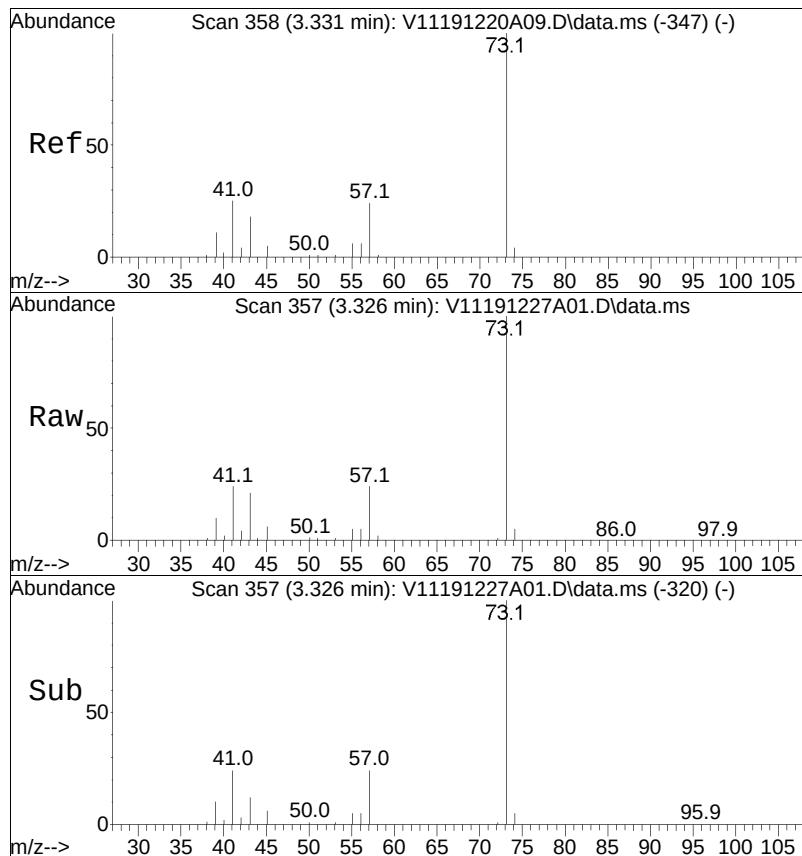




#19  
Methyl acetate  
Concen: 37.38 ug/L  
RT: 3.242 min Scan# 341  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 88336 |       |       |
| 74      | 21.1  |       | 11.3  | 16.9# |
| 59      | 15.6  |       | 10.4  | 15.6# |





#20

Methyl tert-butyl ether

Concen: 41.70 ug/L

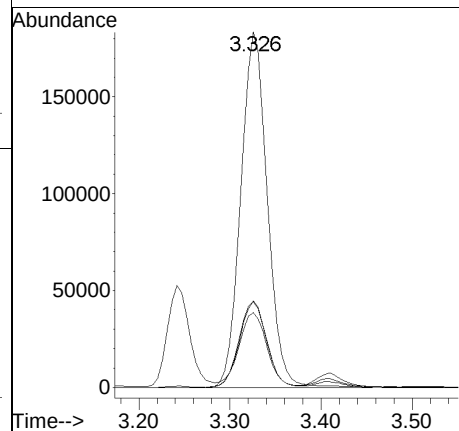
RT: 3.326 min Scan# 357

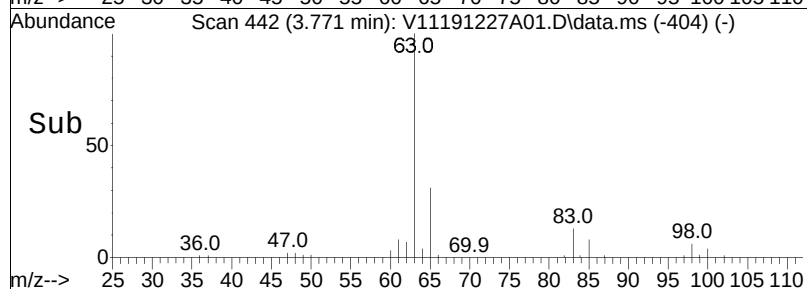
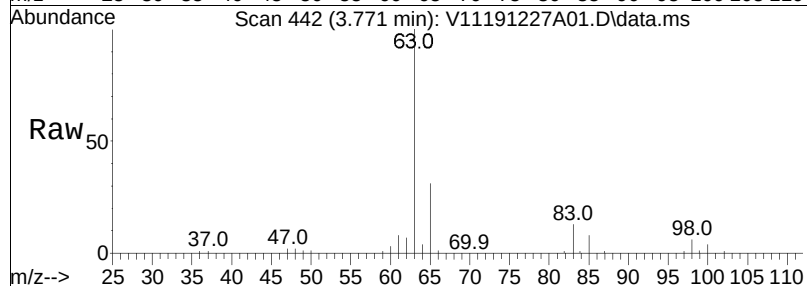
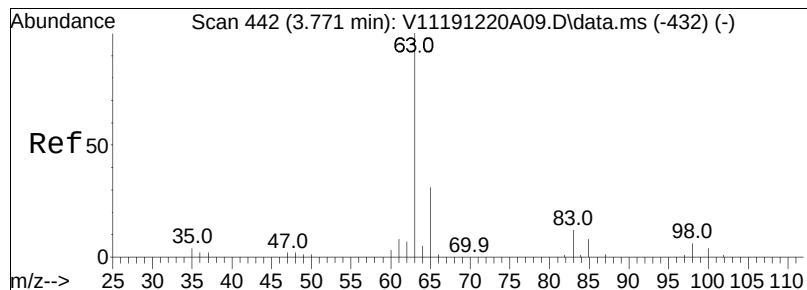
Delta R.T. -0.005 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 371821 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 57       | 24.9  | 19.6  | 40.6   |
| 43       | 21.9  | 18.5  | 38.3   |
| 41       | 25.1  | 20.3  | 42.1   |





#23

1,1-Dichloroethane

Concen: 41.76 ug/L

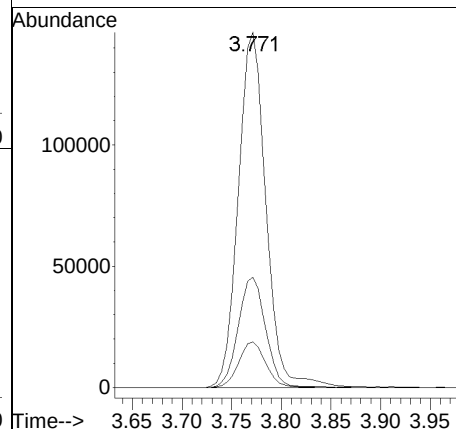
RT: 3.771 min Scan# 442

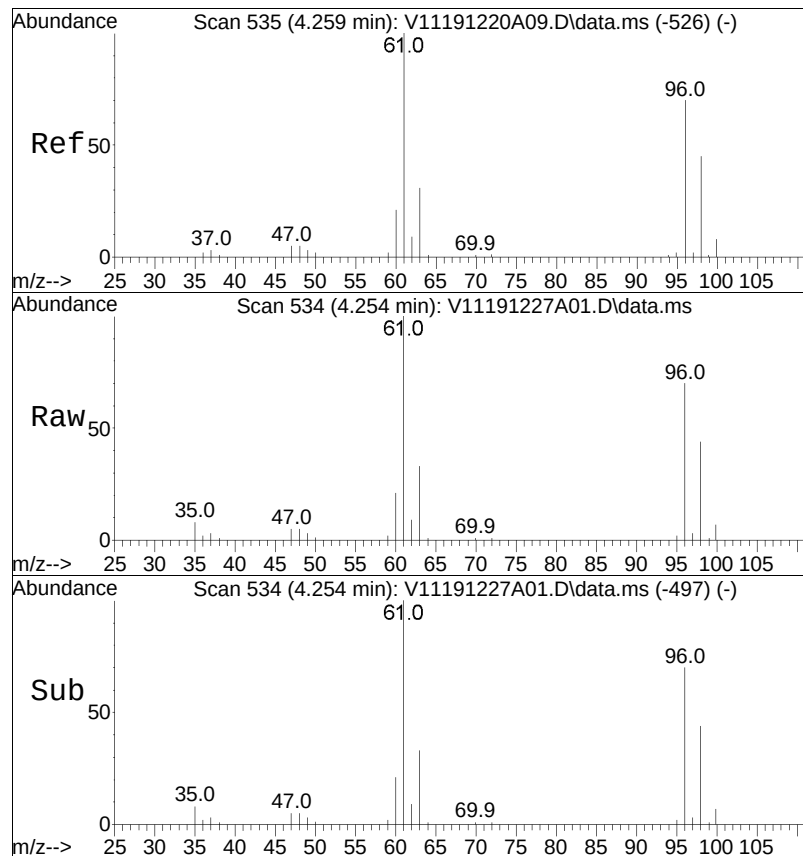
Delta R.T. 0.000 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

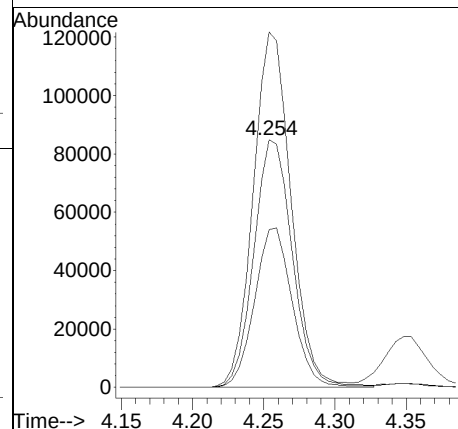
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 63    | Resp: | 284013 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 65        | 30.5  | 9.0   | 49.0   |
| 83        | 12.5  | 0.0   | 31.4   |

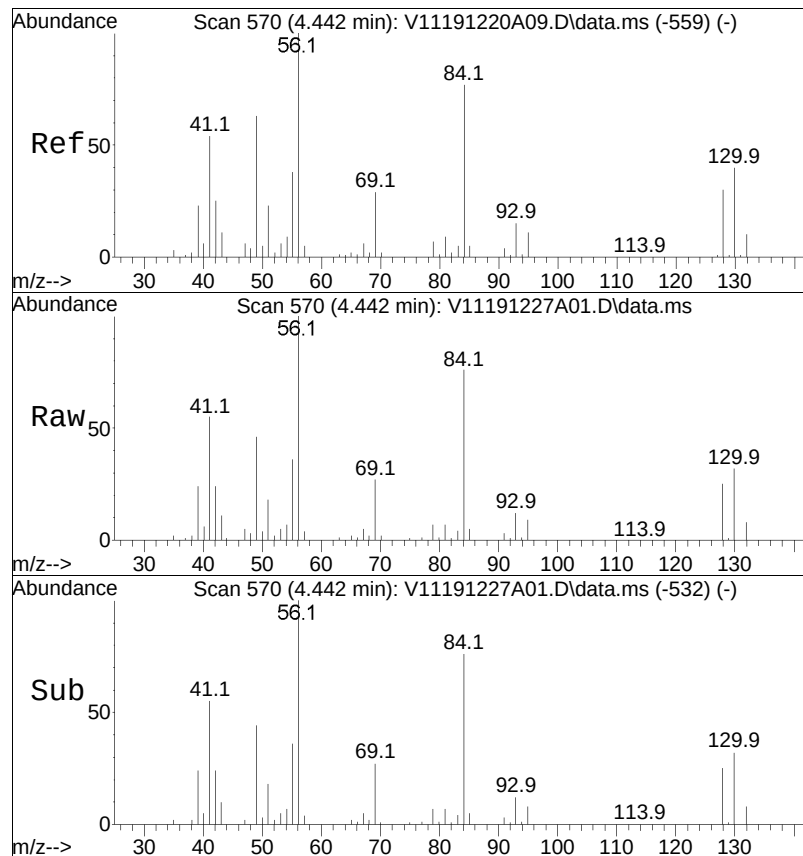




#28  
 cis-1,2-Dichloroethene  
 Concen: 44.98 ug/L  
 RT: 4.254 min Scan# 534  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

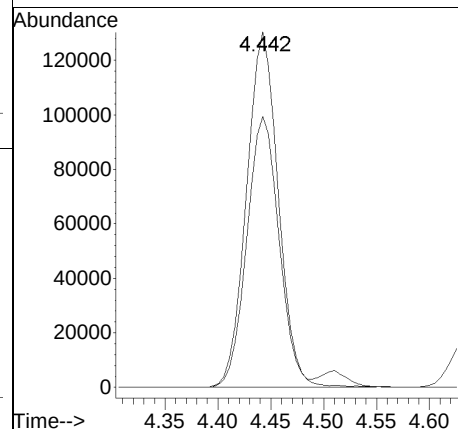
| Tgt Ion:  | 96    | Resp: | 159669 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 140.6 | 126.3 | 189.5  |
| 98        | 63.0  | 51.0  | 76.6   |

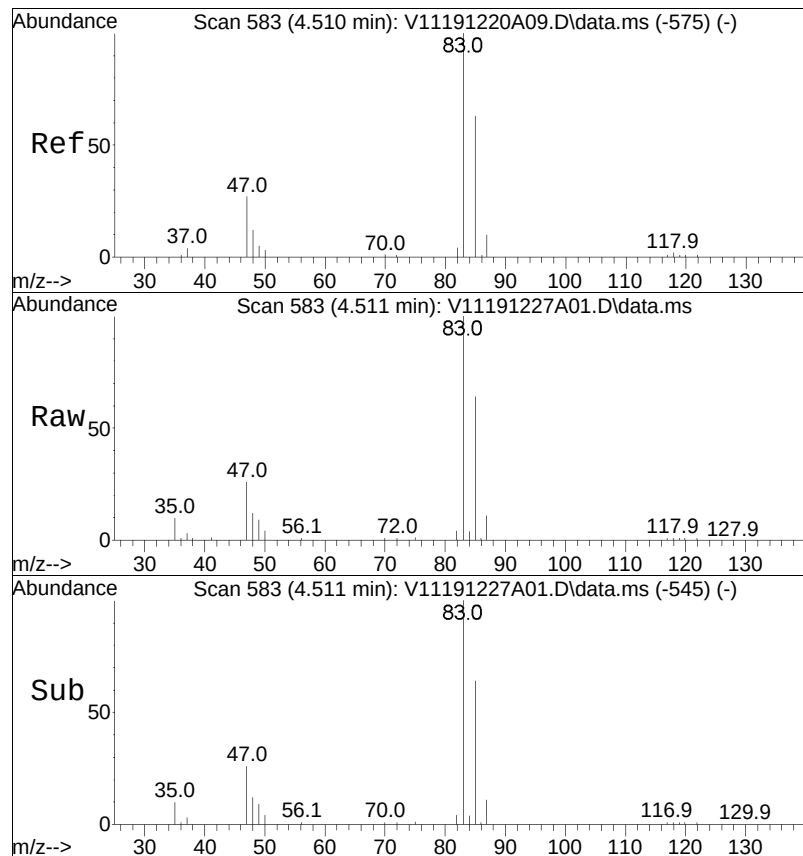




#31  
Cyclohexane  
Concen: 49.35 ug/L  
RT: 4.442 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

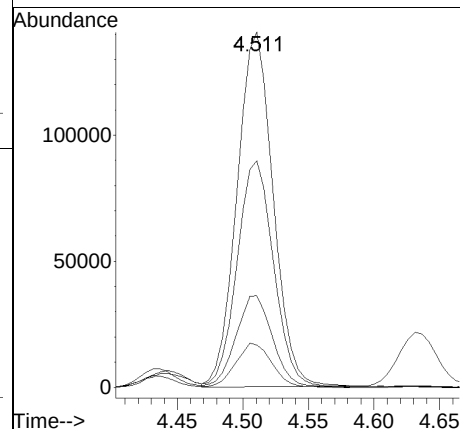
| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 56  | 100  |      |       |       |
| 84  | 77.4 | 40.5 | 84.1  |       |

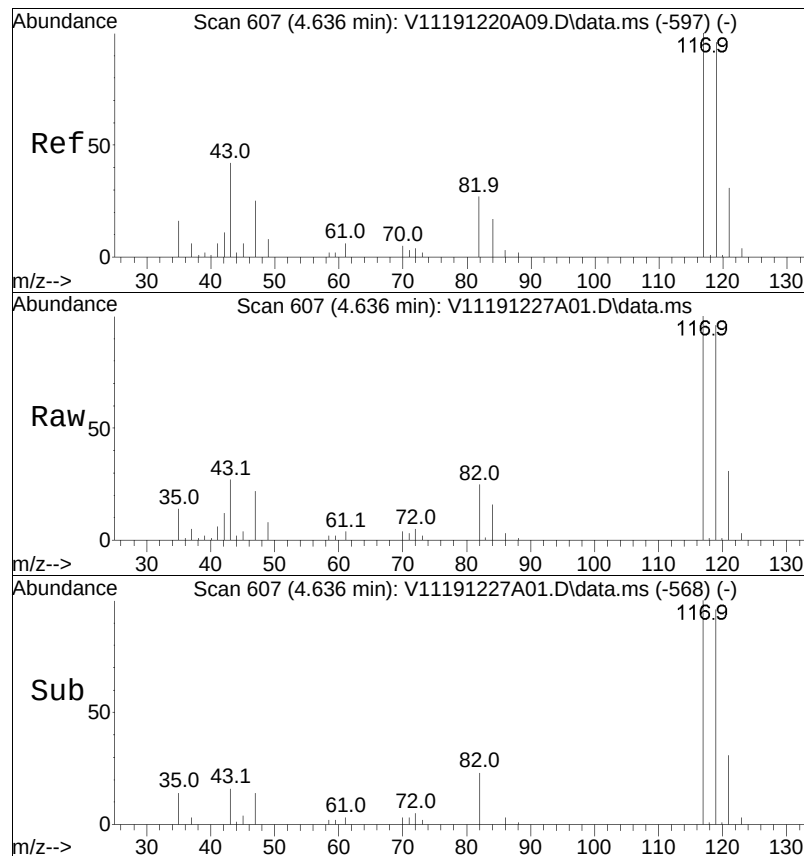




#32  
 Chloroform  
 Concen: 42.77 ug/L  
 RT: 4.511 min Scan# 583  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 269540 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.5  | 41.9  | 87.1   |
| 47       | 25.9  | 20.9  | 43.3   |
| 48       | 12.5  | 9.9   | 20.5   |





#34

Carbon tetrachloride

Concen: 46.02 ug/L

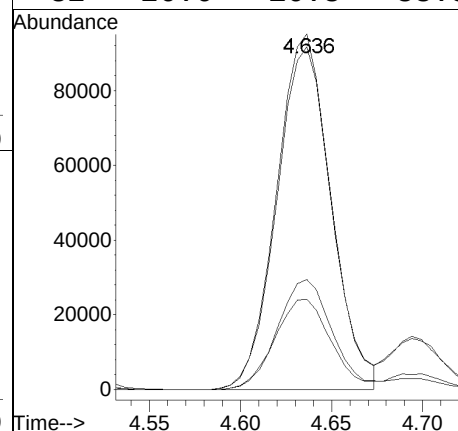
RT: 4.636 min Scan# 607

Delta R.T. 0.000 min

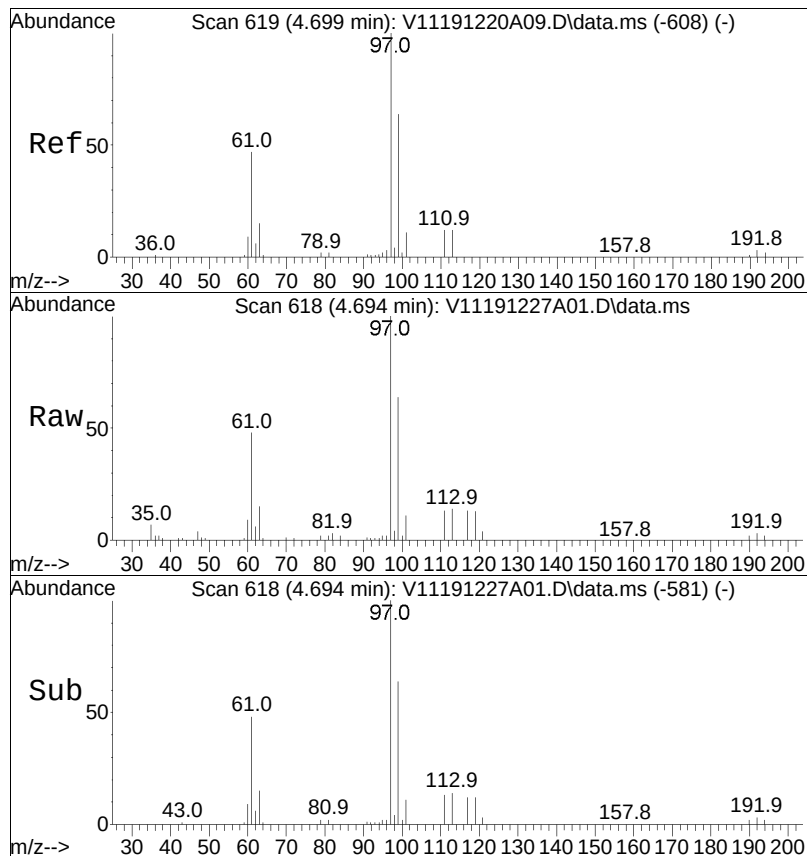
Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 197897 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 97.0  | 64.0  | 132.8  |
| 121       | 31.3  | 20.7  | 42.9   |
| 82        | 26.6  | 16.3  | 33.8   |

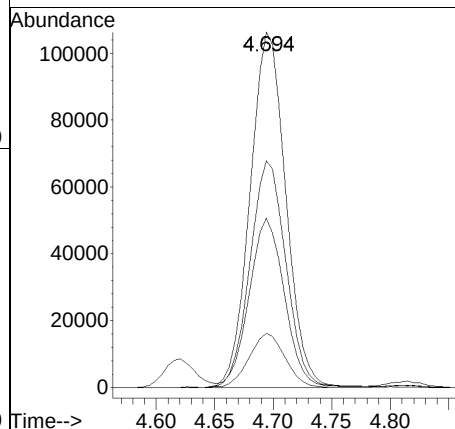


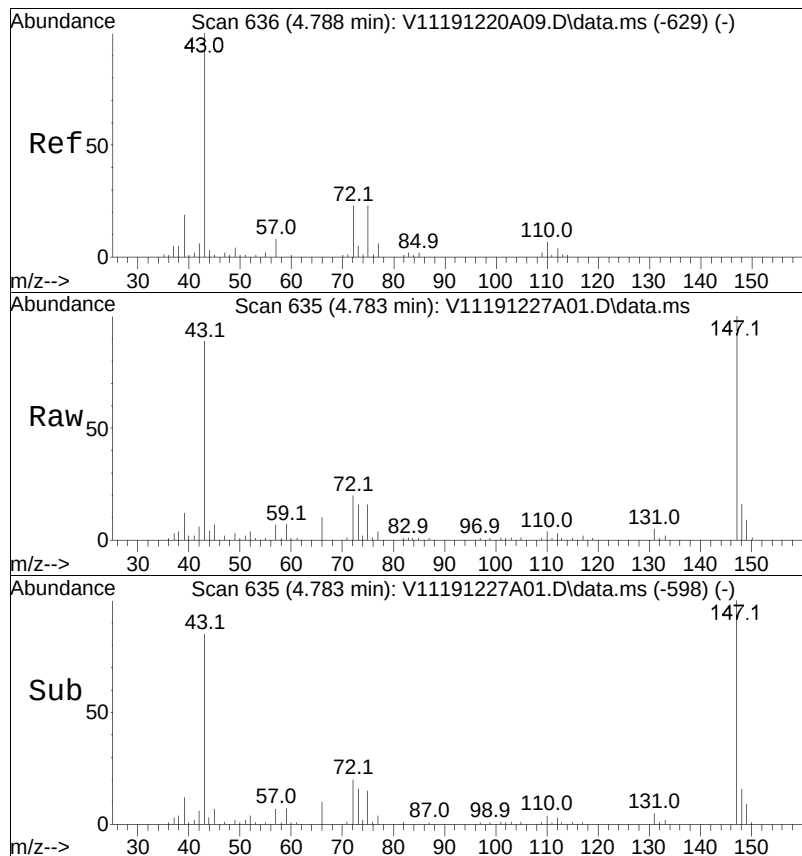




#37  
 1,1,1-Trichloroethane  
 Concen: 44.46 ug/L  
 RT: 4.694 min Scan# 618  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

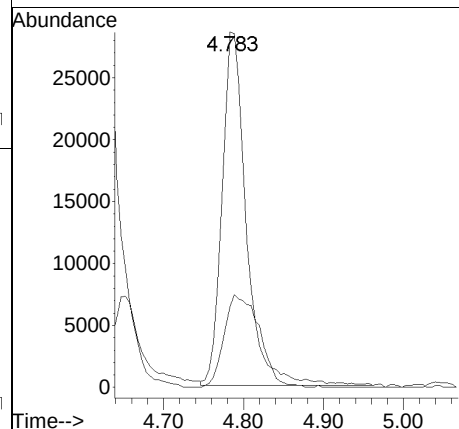
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 225794 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.2  | 41.5  | 86.1   |
| 61        | 47.1  | 32.2  | 67.0   |
| 63        | 15.3  | 10.1  | 20.9   |

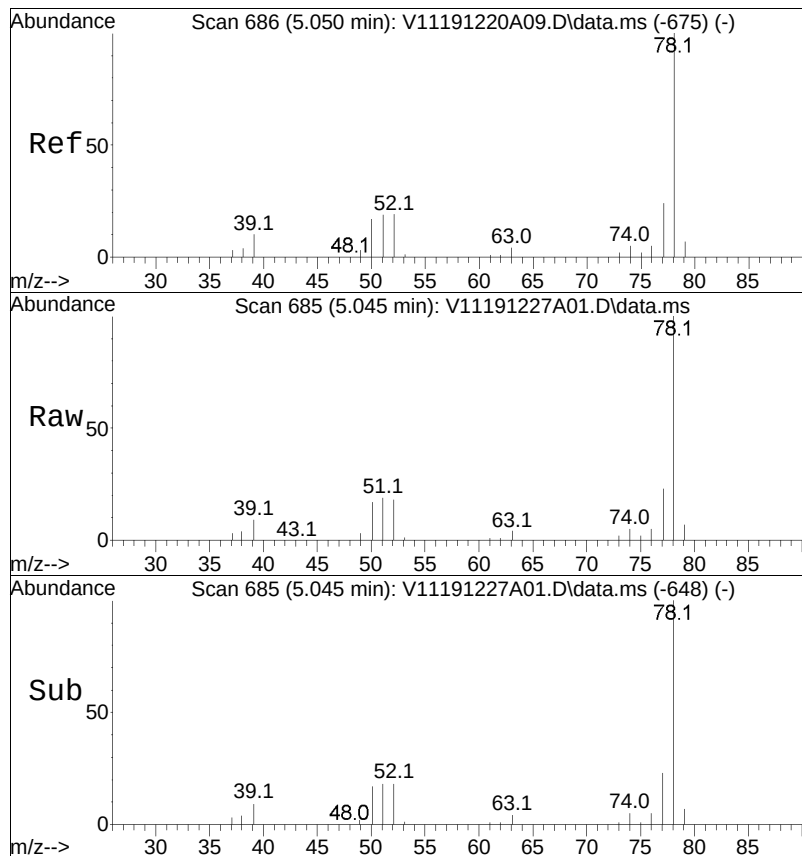




#39  
 2-Butanone  
 Concen: 44.30 ug/L  
 RT: 4.783 min Scan# 635  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

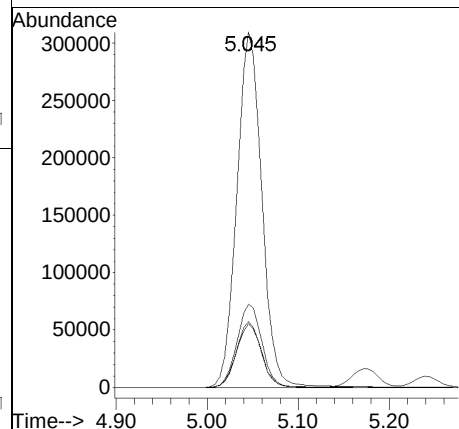
| Tgt Ion: | 43 | 72 | Ion Ratio | 100 | 38.2 | Resp: | 60248 | Lower | Upper |
|----------|----|----|-----------|-----|------|-------|-------|-------|-------|
|          |    |    |           |     |      |       |       | 21.0  | 31.6# |

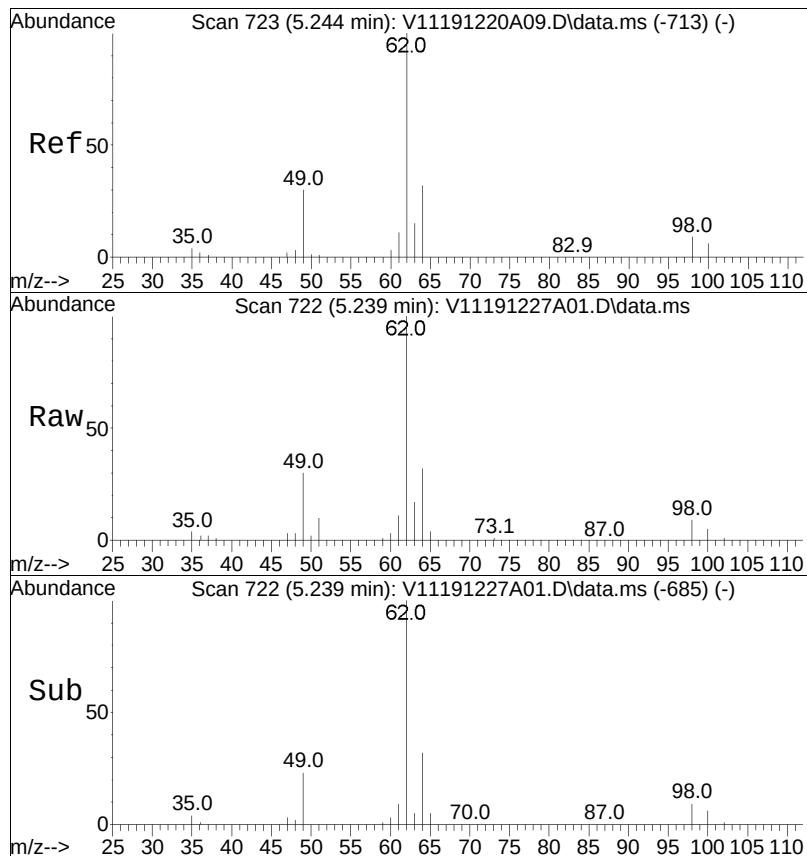




#41  
Benzene  
Concen: 42.23 ug/L  
RT: 5.045 min Scan# 685  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

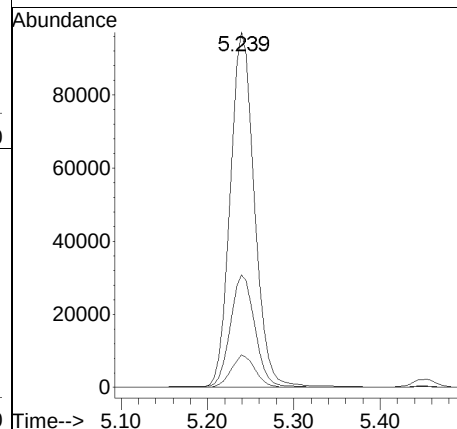
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 78    | Resp: | 590150 |
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 23.5  | 15.1  | 31.3   |
| 51        | 18.6  | 15.8  | 32.8   |
| 52        | 17.9  | 15.6  | 32.4   |

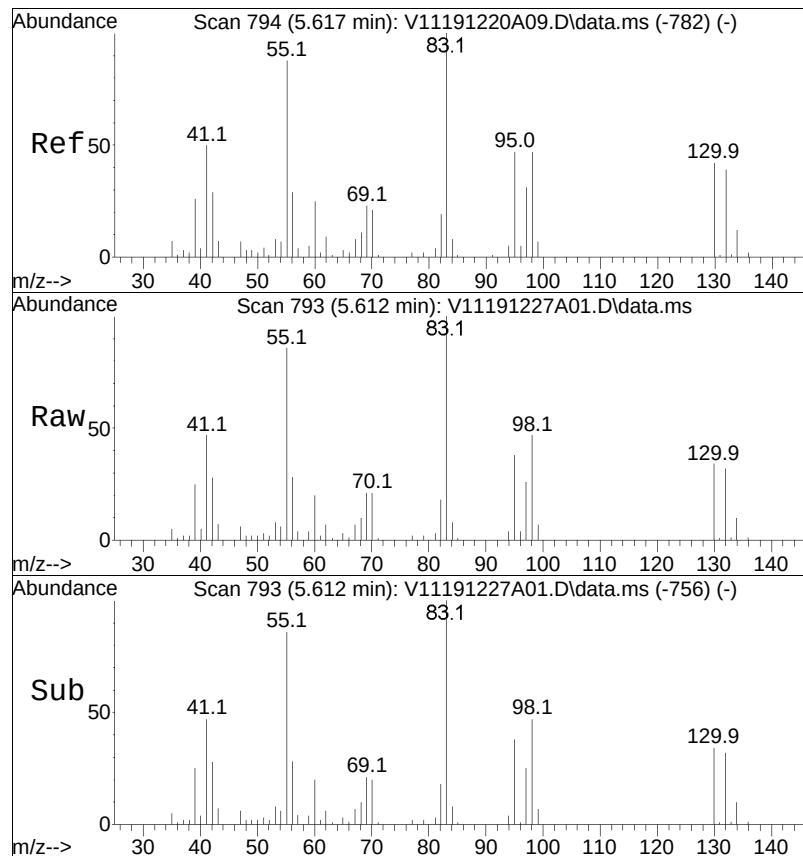




#44  
 1,2-Dichloroethane  
 Concen: 39.66 ug/L  
 RT: 5.239 min Scan# 722  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

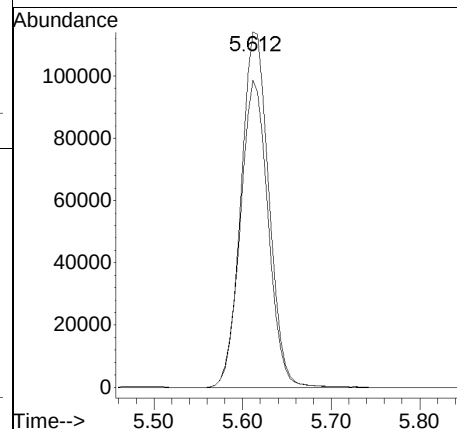
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 62 | Resp: | 189980 |
| Ion | Ratio   | Lower | Upper  |
| 62  | 100     |       |        |
| 64  | 32.3    | 11.1  | 51.1   |
| 98  | 9.0     | 0.0   | 28.0   |

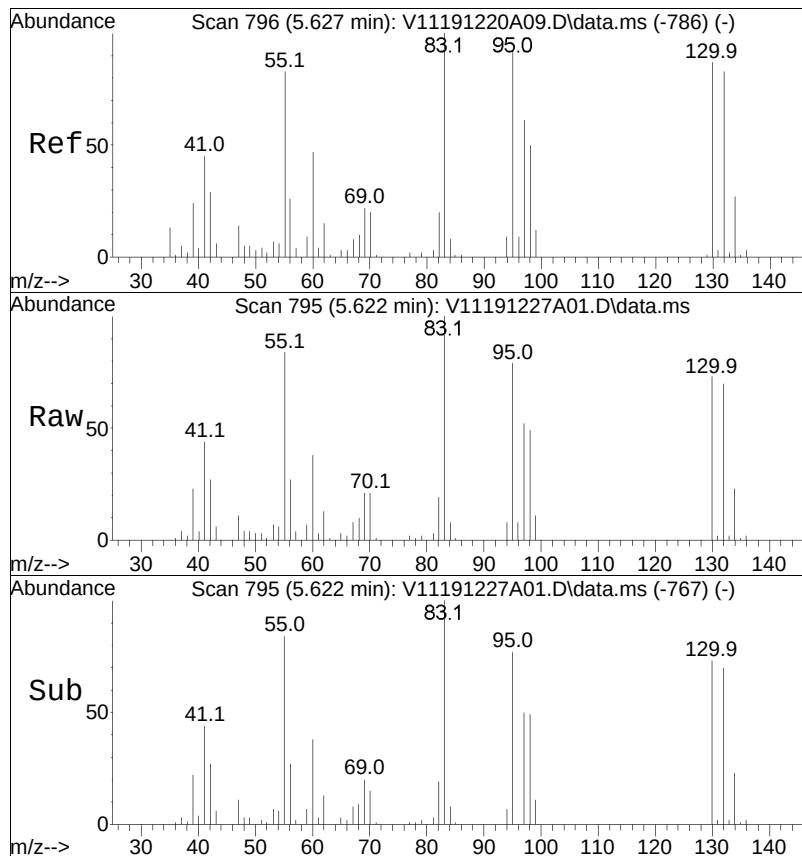




#47  
 Methyl cyclohexane  
 Concen: 47.98 ug/L  
 RT: 5.612 min Scan# 793  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

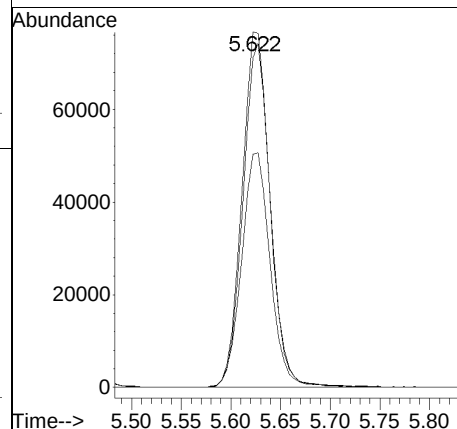
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 85.9  | 88.1  | 132.1# |

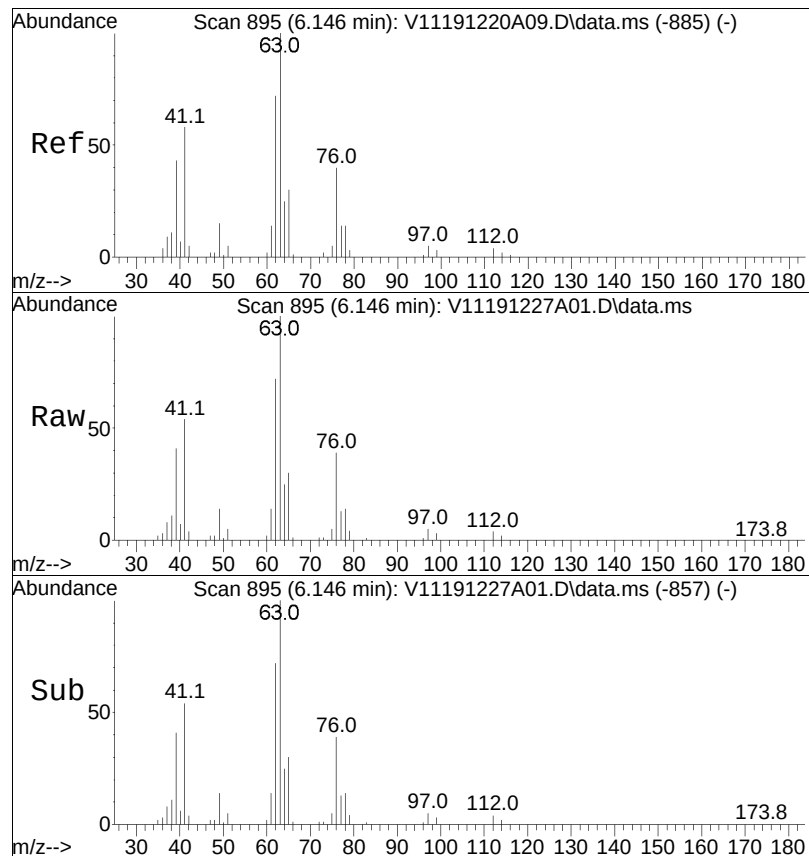




#48  
 Trichloroethene  
 Concen: 44.60 ug/L  
 RT: 5.622 min Scan# 795  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

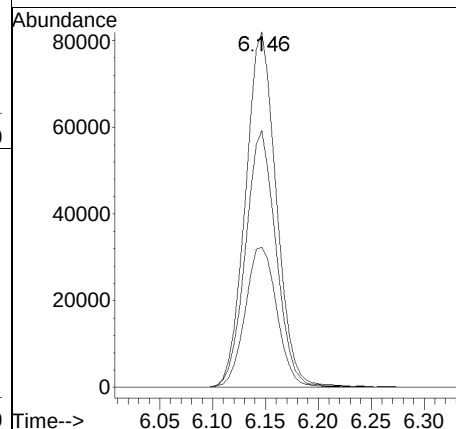
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 67.5  | 54.3  | 81.5  |
| 130     | 94.9  | 84.6  | 126.8 |

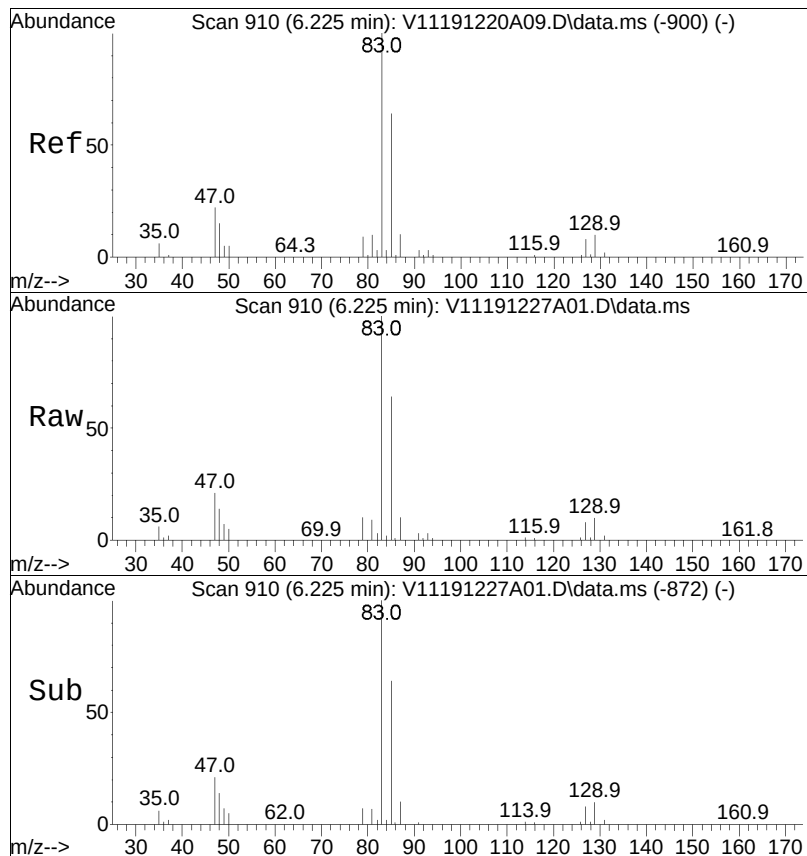




#51  
 1,2-Dichloropropane  
 Concen: 43.24 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion:  | 63    | Resp: | 166682 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 62        | 71.8  | 57.9  | 86.9   |
| 76        | 40.7  | 30.1  | 45.1   |





#54

Bromodichloromethane

Concen: 42.45 ug/L

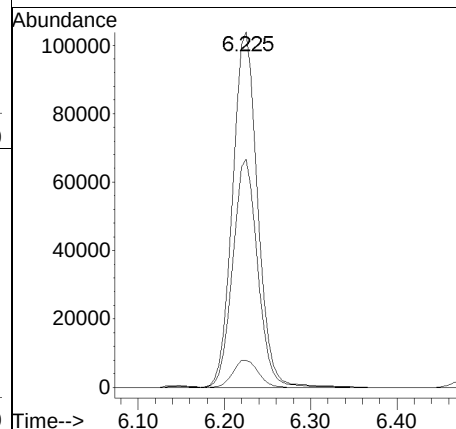
RT: 6.225 min Scan# 910

Delta R.T. 0.000 min

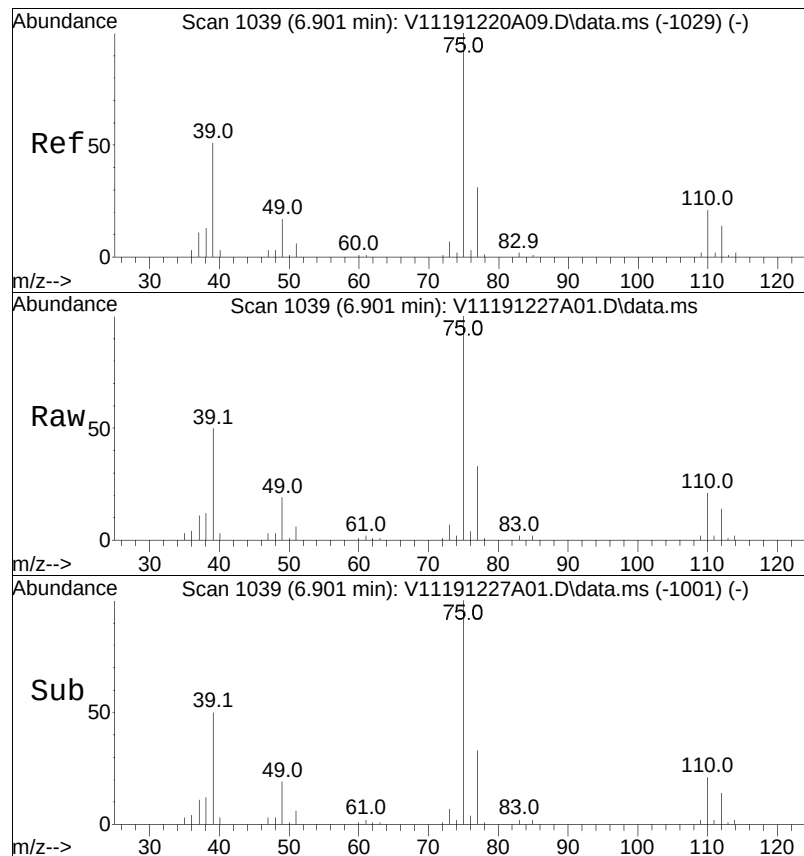
Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 209720 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 63.8    | 51.6  | 77.4   |
| 127 | 7.8     | 7.1   | 10.7   |

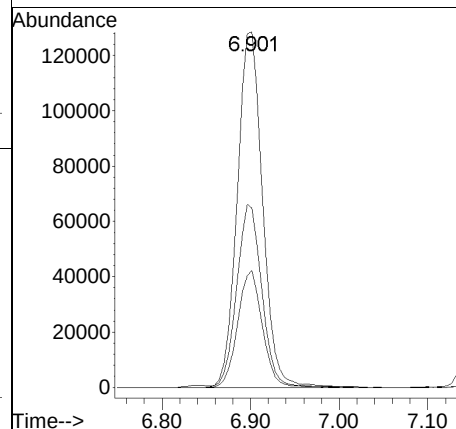


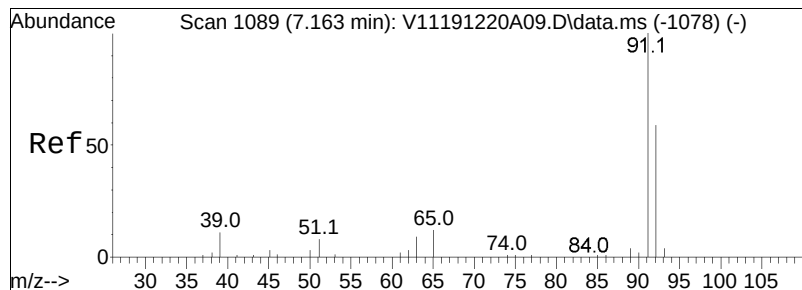




#58  
 cis-1,3-Dichloropropene  
 Concen: 45.64 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

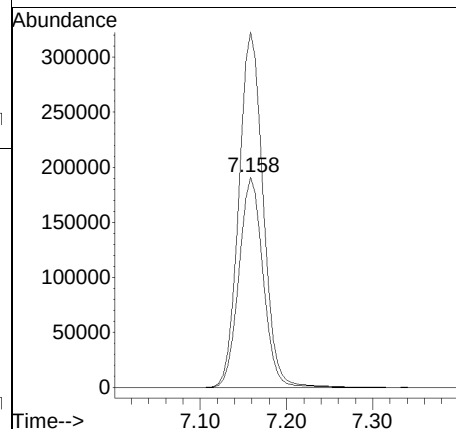
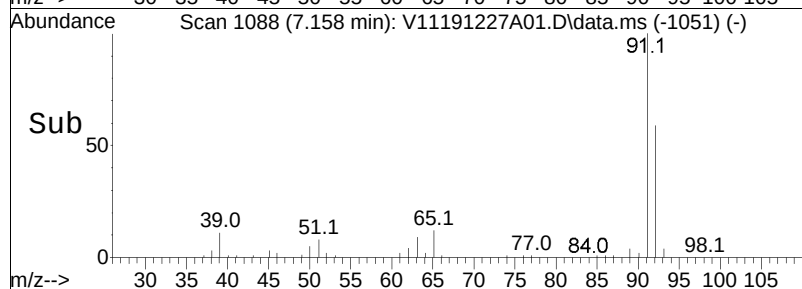
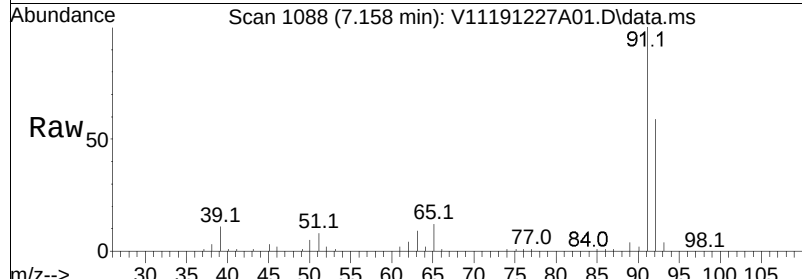
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.0  | 24.9  | 37.3  |
| 39      | 51.1  | 51.8  | 77.8# |

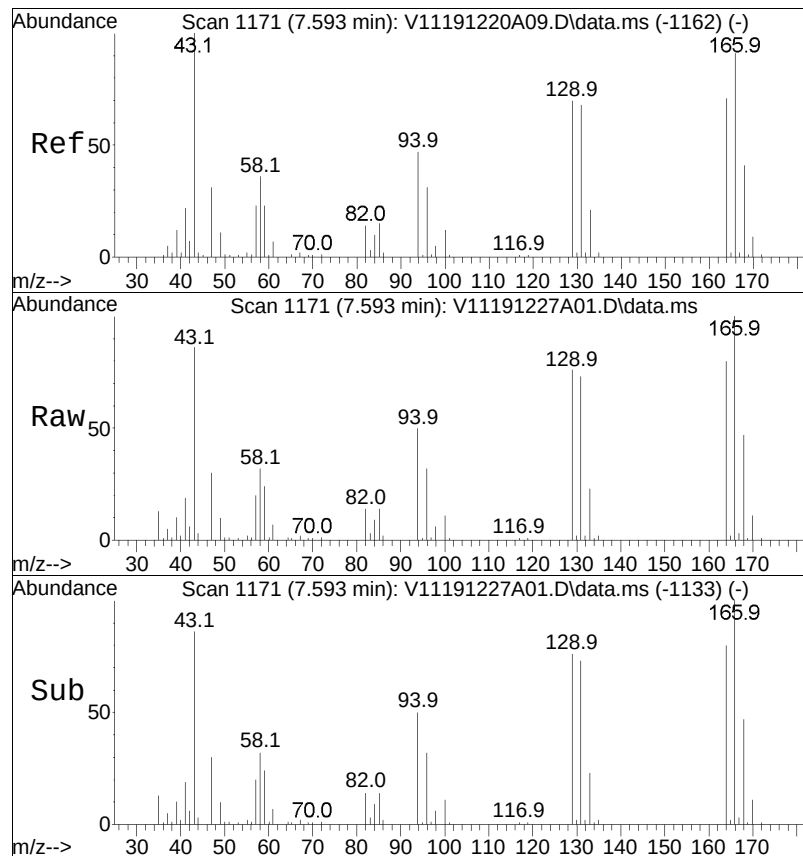




#61  
Toluene  
Concen: 41.36 ug/L  
RT: 7.158 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

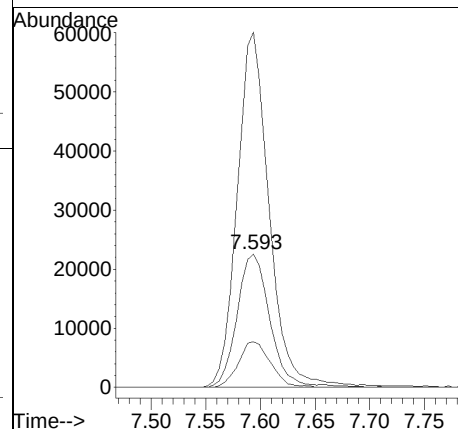
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 169.9 | 133.7 | 200.5 |

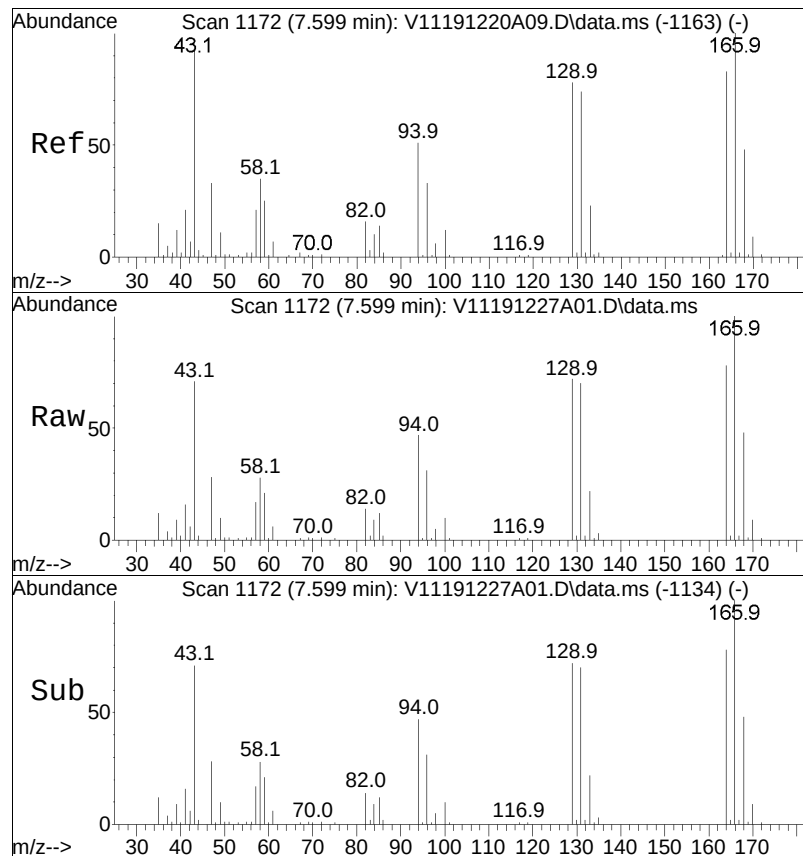




#62  
 4-Methyl-2-pentanone  
 Concen: 41.41 ug/L  
 RT: 7.593 min Scan# 1171  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

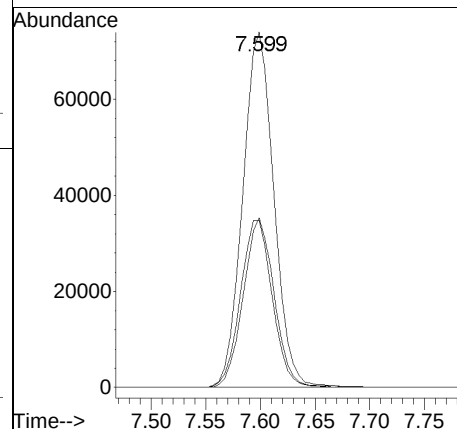
| Tgt | Ion   | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   | 47288 |       |       |
| 100 | 33.5  | 22.0  | 33.0# |       |
| 43  | 259.0 | 236.9 | 355.3 |       |

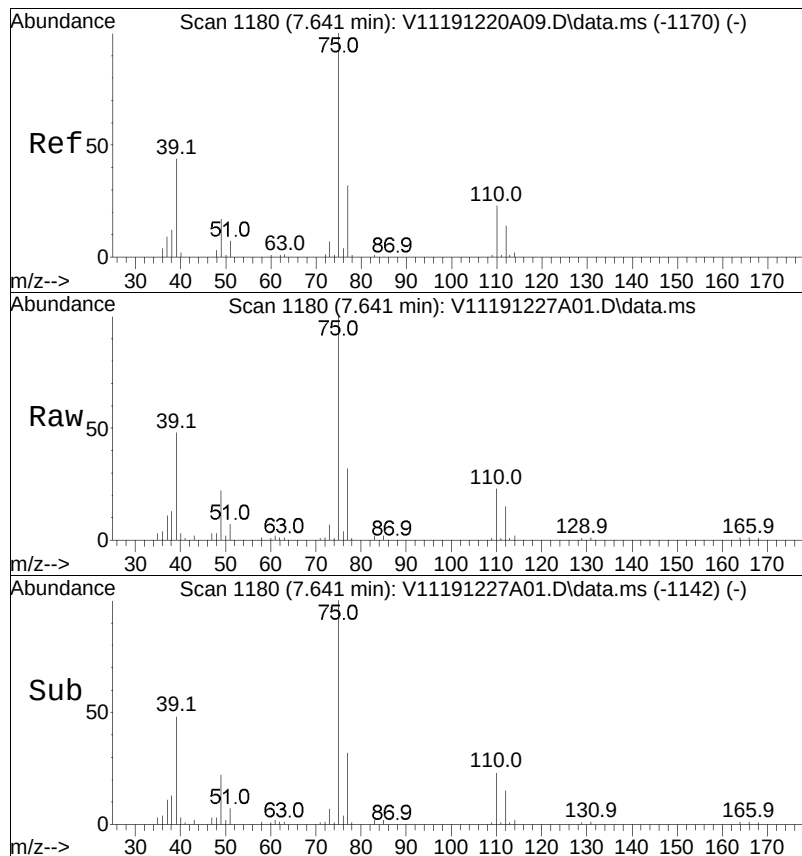




#63  
Tetrachloroethene  
Concen: 43.75 ug/L  
RT: 7.599 min Scan# 1172  
Delta R.T. -0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

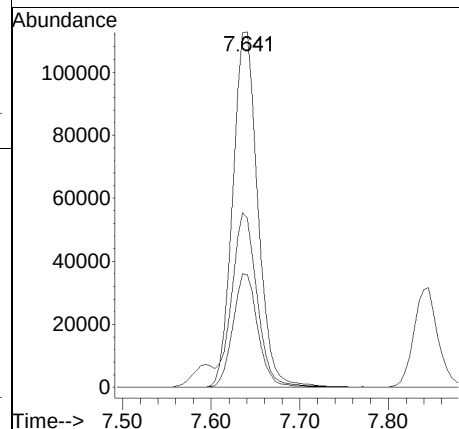
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 146765 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 168 | 47.2    | 28.2  | 68.2   |
| 94  | 48.0    | 26.3  | 66.3   |

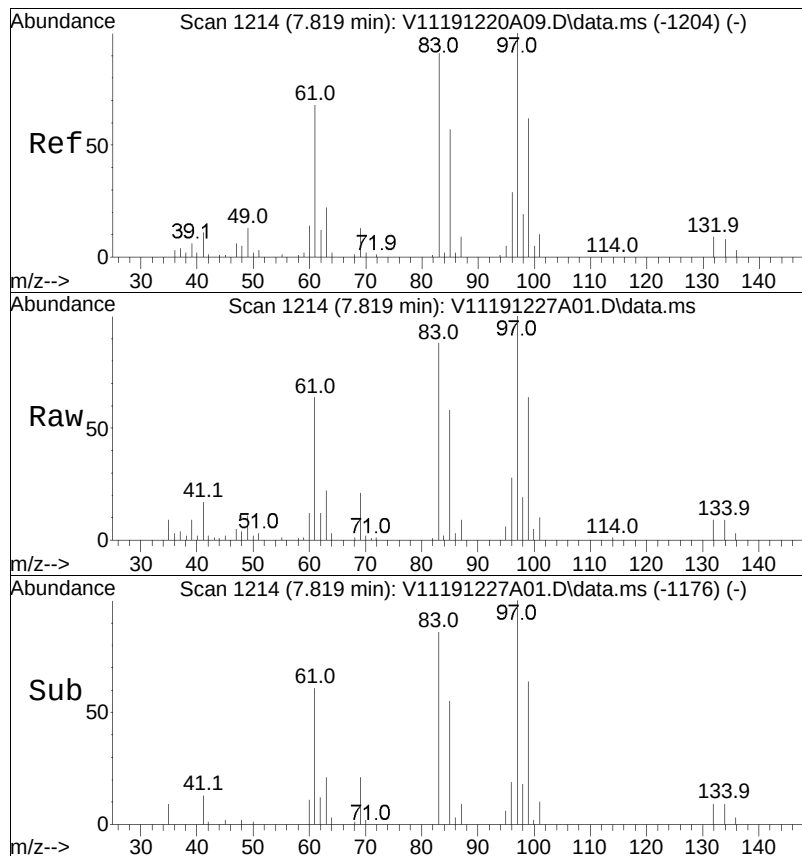




#65  
 trans-1,3-Dichloropropene  
 Concen: 41.60 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

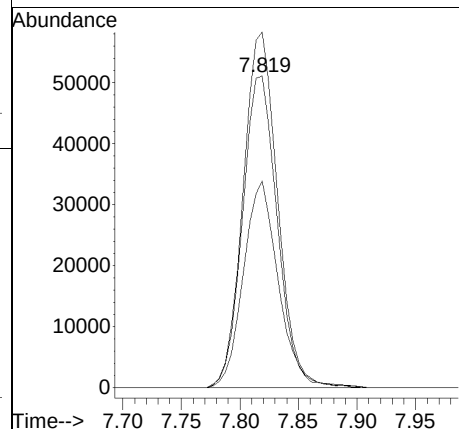
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.9  | 11.4  | 51.4  |
| 39      | 49.0  | 50.3  | 90.3# |

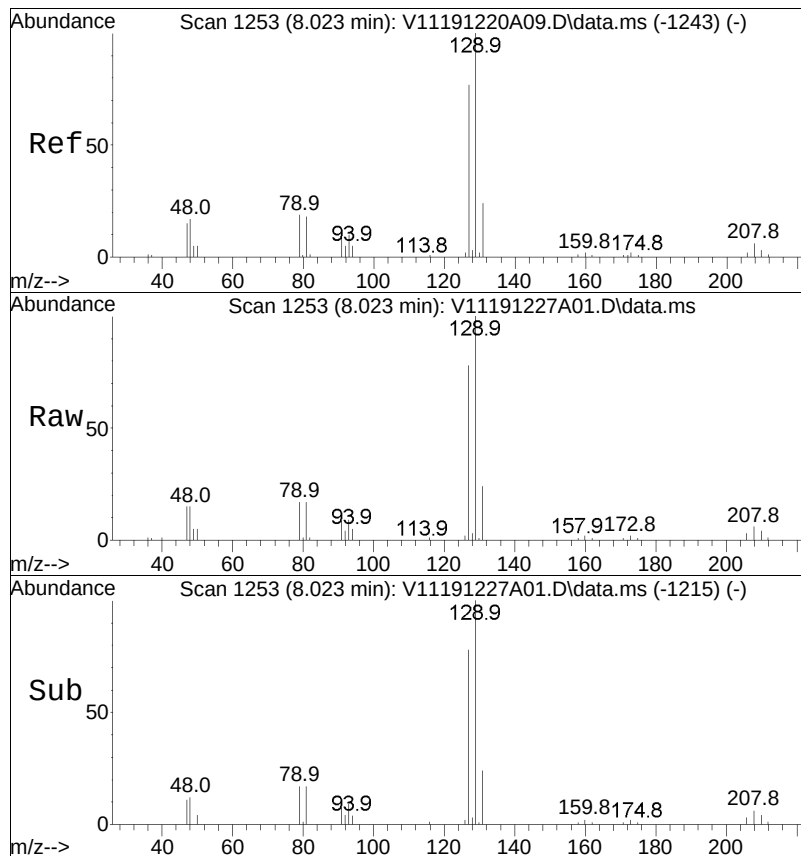




#68  
 1,1,2-Trichloroethane  
 Concen: 39.25 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

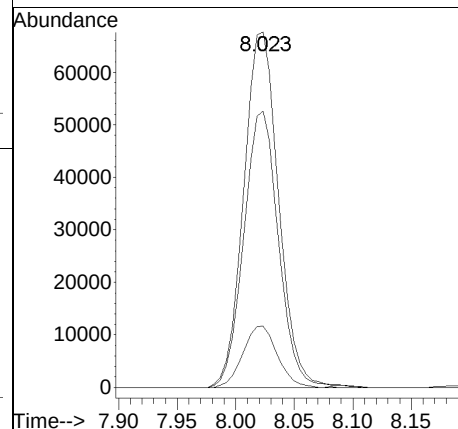
| Tgt Ion:  | 83    | Resp: | 105307 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 113.5 | 97.6  | 137.6  |
| 85        | 66.7  | 46.8  | 86.8   |

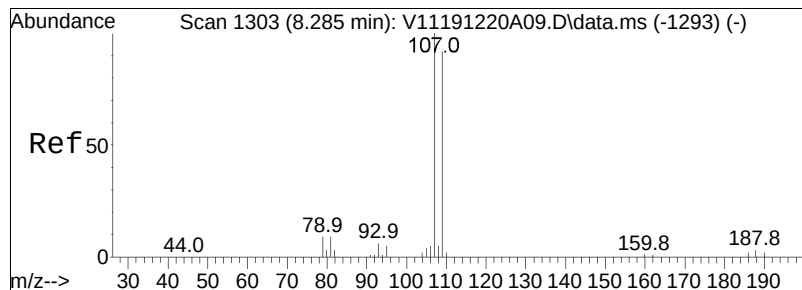




#69  
 Chlorodibromomethane  
 Concen: 40.48 ug/L  
 RT: 8.023 min Scan# 1253  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

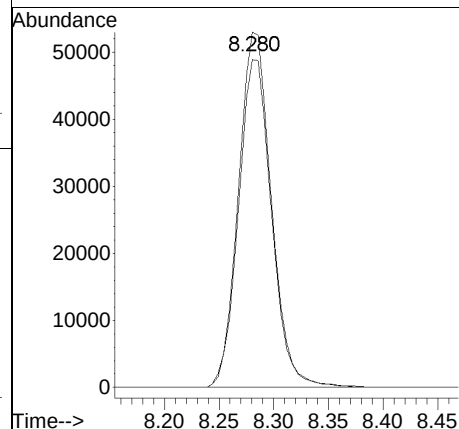
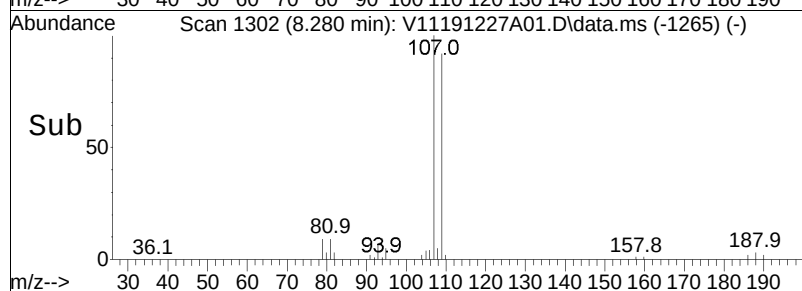
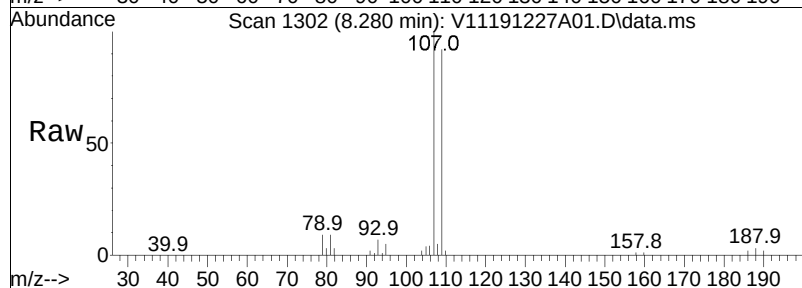
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 129     | 100   | 140372 |       |       |
| 81      | 16.9  |        | 0.0   | 36.0  |
| 127     | 77.1  |        | 56.0  | 96.0  |



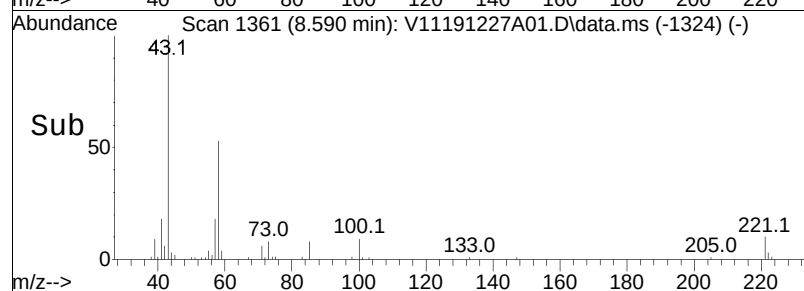
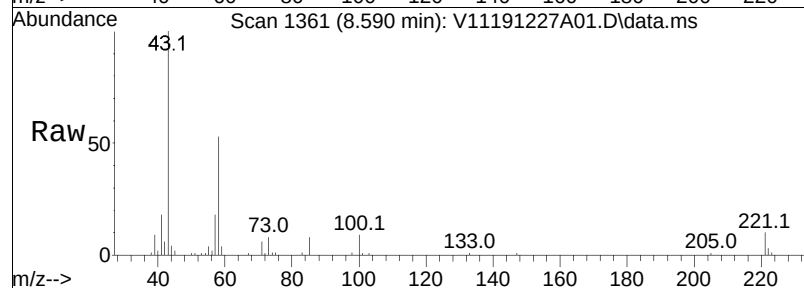
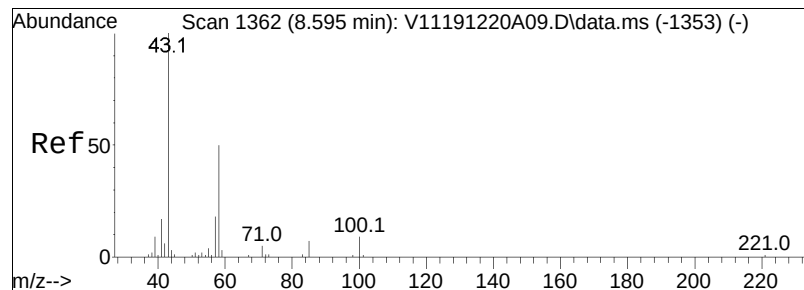


#71  
 1,2-Dibromoethane  
 Concen: 39.30 ug/L  
 RT: 8.280 min Scan# 1302  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.6  | 76.2  | 114.4 |







#72

2-Hexanone

Concen: 39.07 ug/L

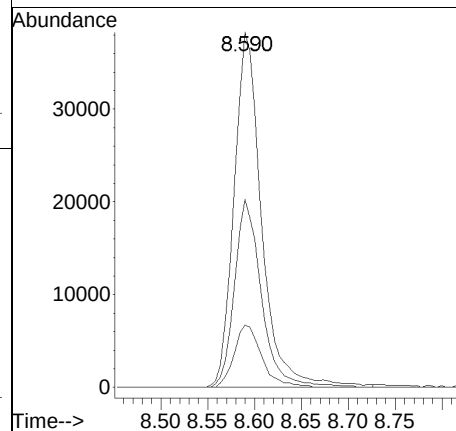
RT: 8.590 min Scan# 1361

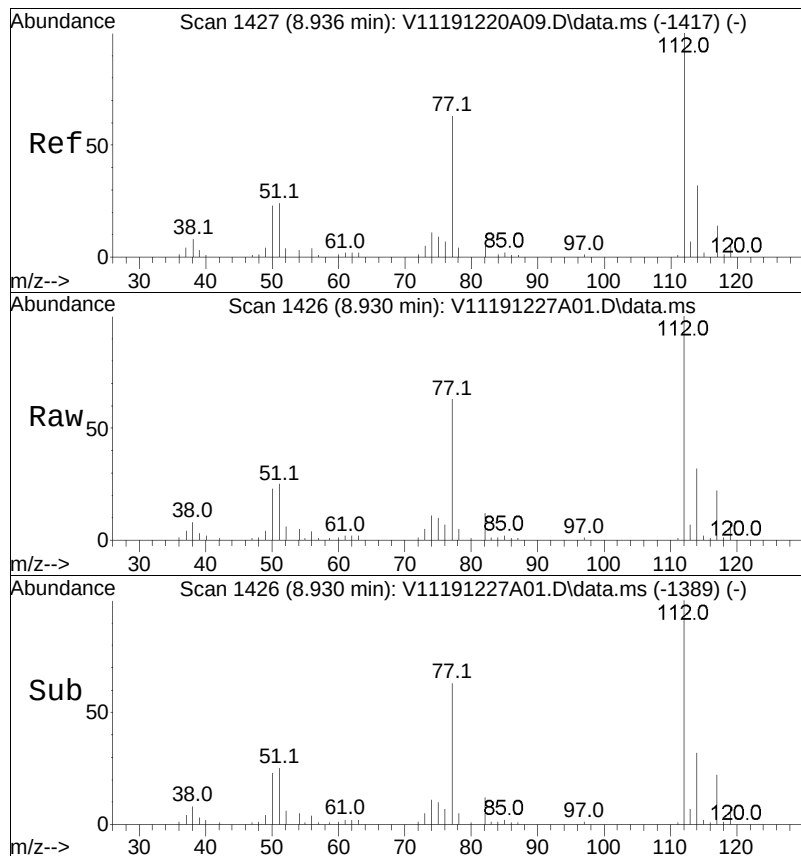
Delta R.T. -0.005 min

Lab File: V11191227A01.D

Acq: 27 Dec 2019 05:20 am

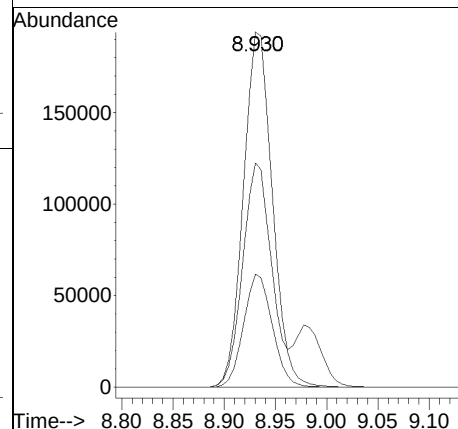
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 78853 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 51.6  | 37.9  | 56.9  |
| 57        | 17.6  | 12.6  | 19.0  |

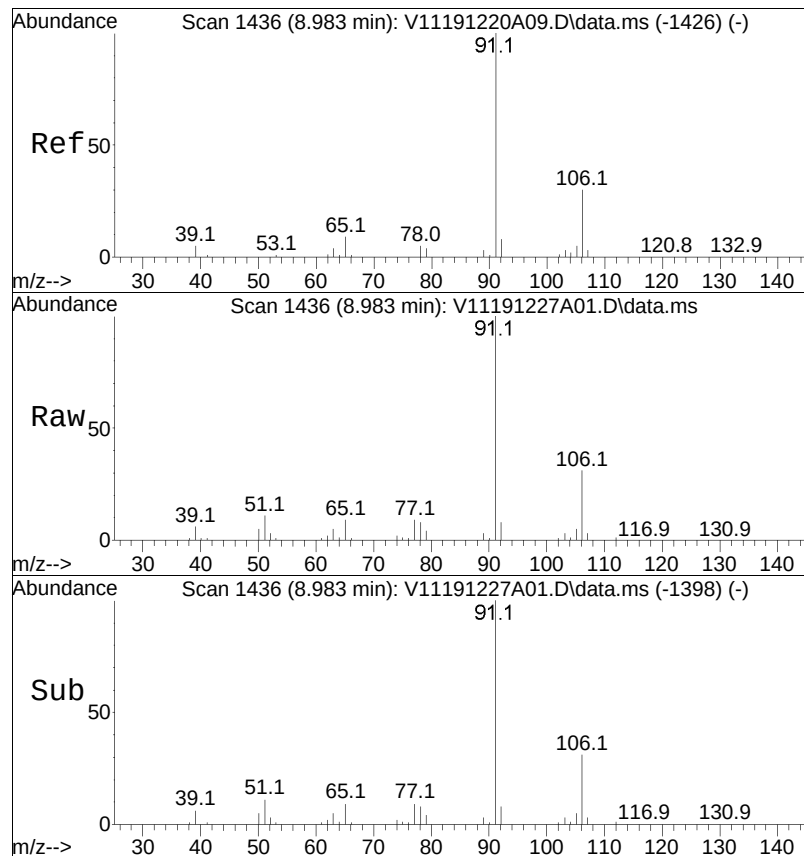




#73  
 Chlorobenzene  
 Concen: 39.37 ug/L  
 RT: 8.930 min Scan# 1426  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 63.2  | 47.0  | 70.4  |
| 114     | 31.6  | 25.9  | 38.9  |





#74

Ethylbenzene

Concen: 42.94 ug/L

RT: 8.983 min Scan# 1436

Delta R.T. -0.000 min

Lab File: V11191227A01.D

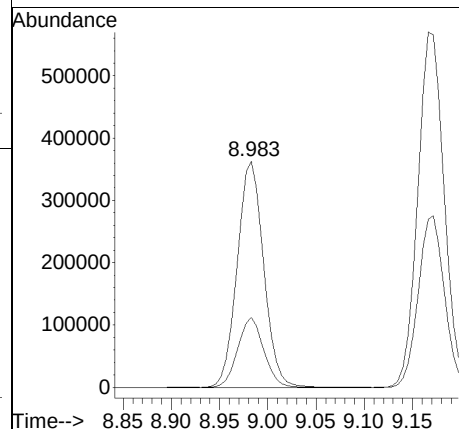
Acq: 27 Dec 2019 05:20 am

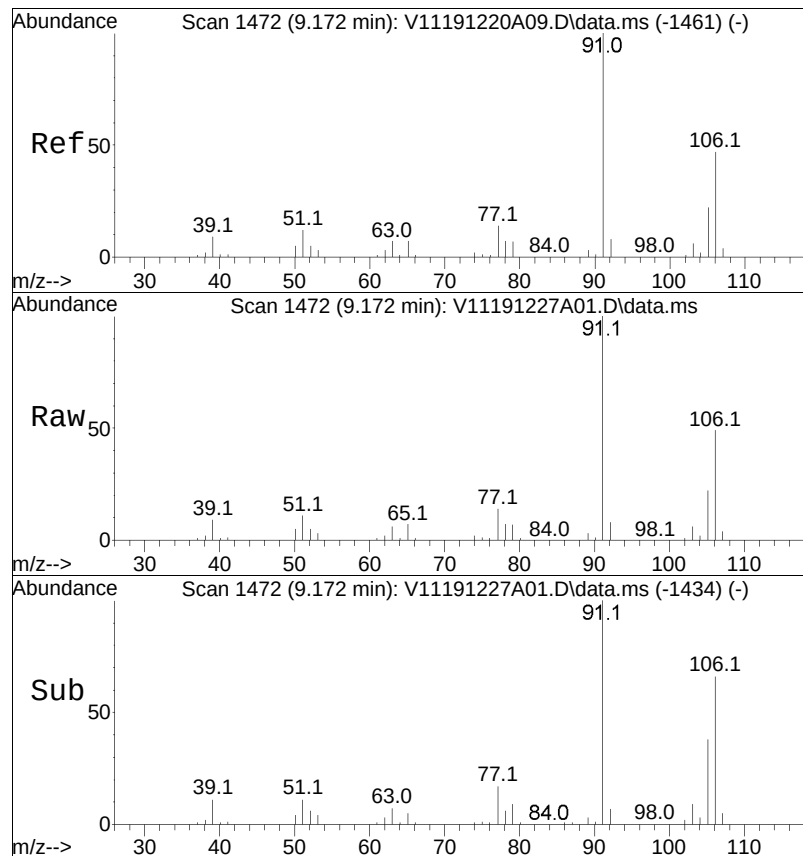
Tgt Ion: 91 Resp: 692490

Ion Ratio Lower Upper

91 100

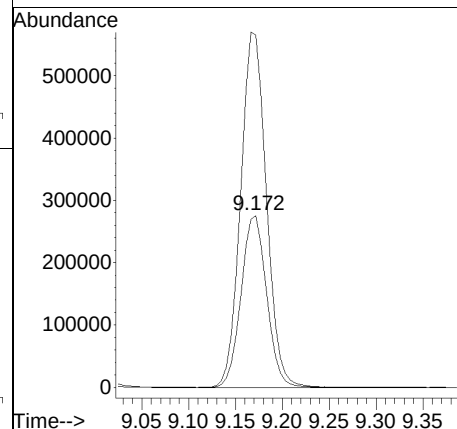
106 30.4 25.0 37.4

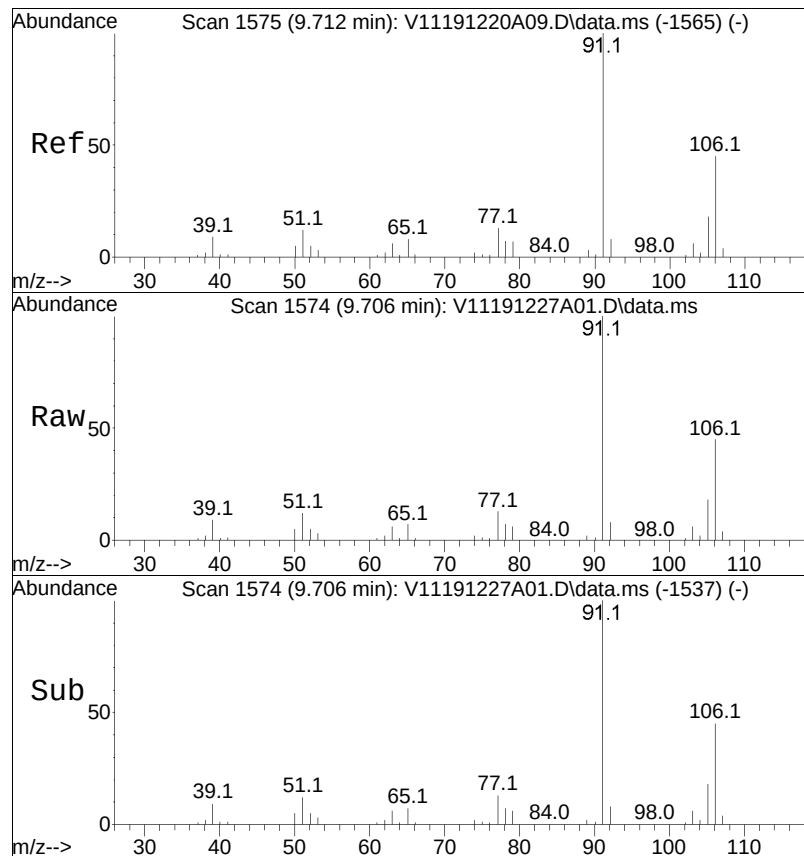




#76  
 p/m Xylene  
 Concen: 90.47 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

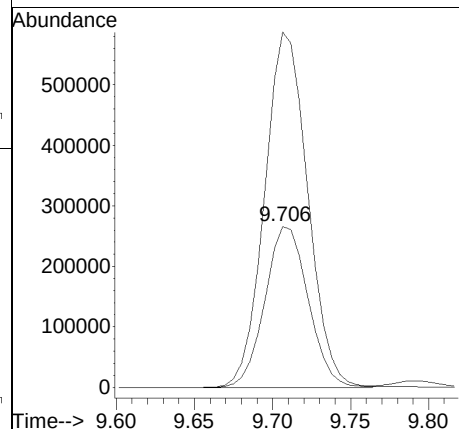
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 208.1 | 159.3 | 238.9 |

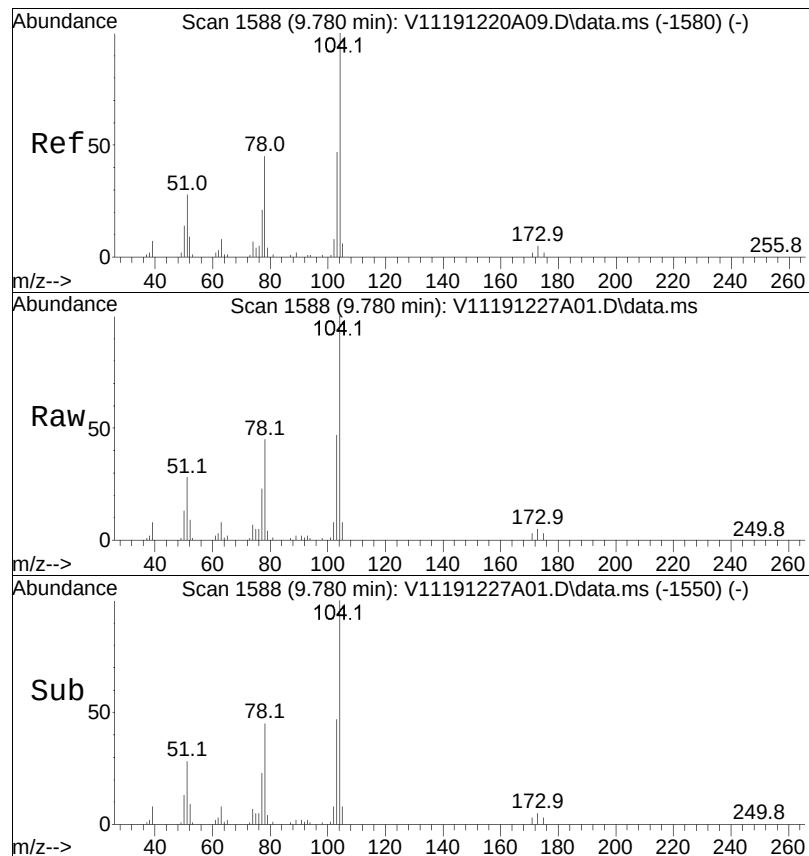




#77  
 o Xylene  
 Concen: 91.67 ug/L  
 RT: 9.706 min Scan# 1574  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

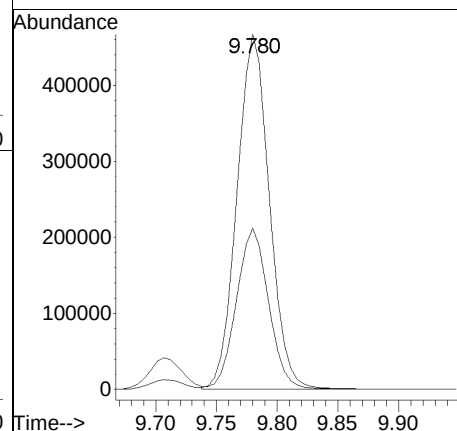
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 219.9 | 170.2 | 255.2 |       |

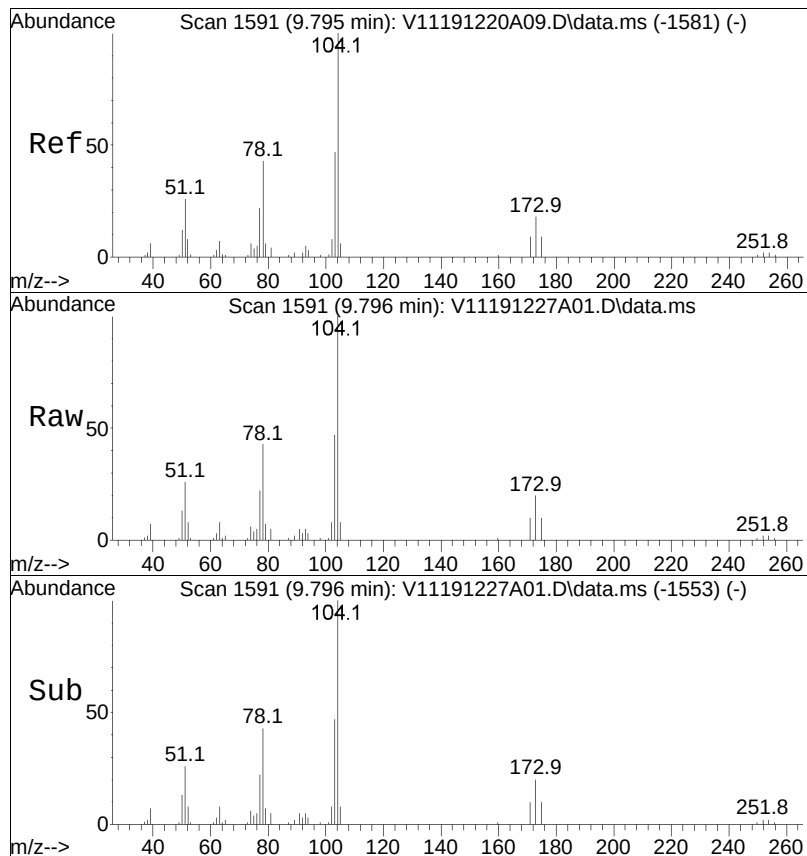




#78  
 Styrene  
 Concen: 92.53 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

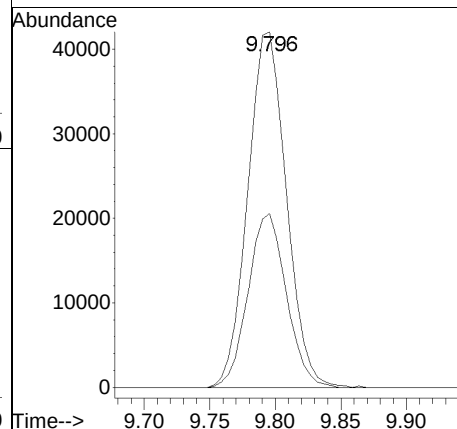
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 104 | 100  |       |       |       |
| 78  | 45.2 | 34.4  | 51.6  |       |

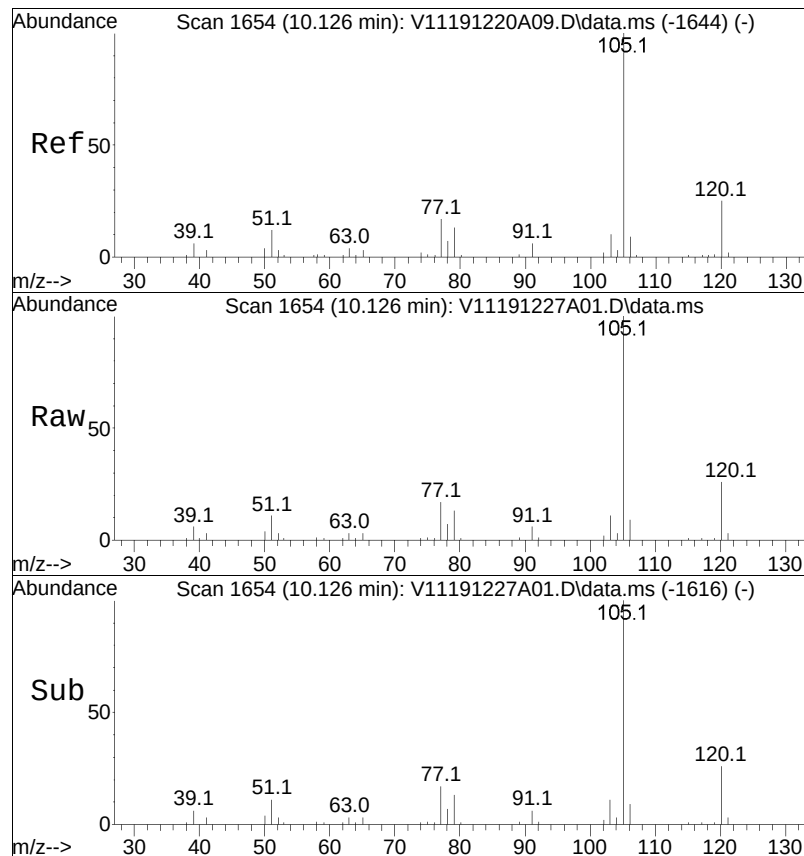




#80  
 Bromoform  
 Concen: 38.51 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

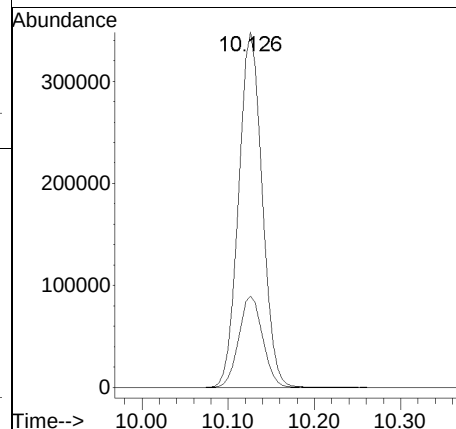
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 173 | 100  |       |       |       |
| 175 | 48.5 | 28.1  | 68.1  |       |



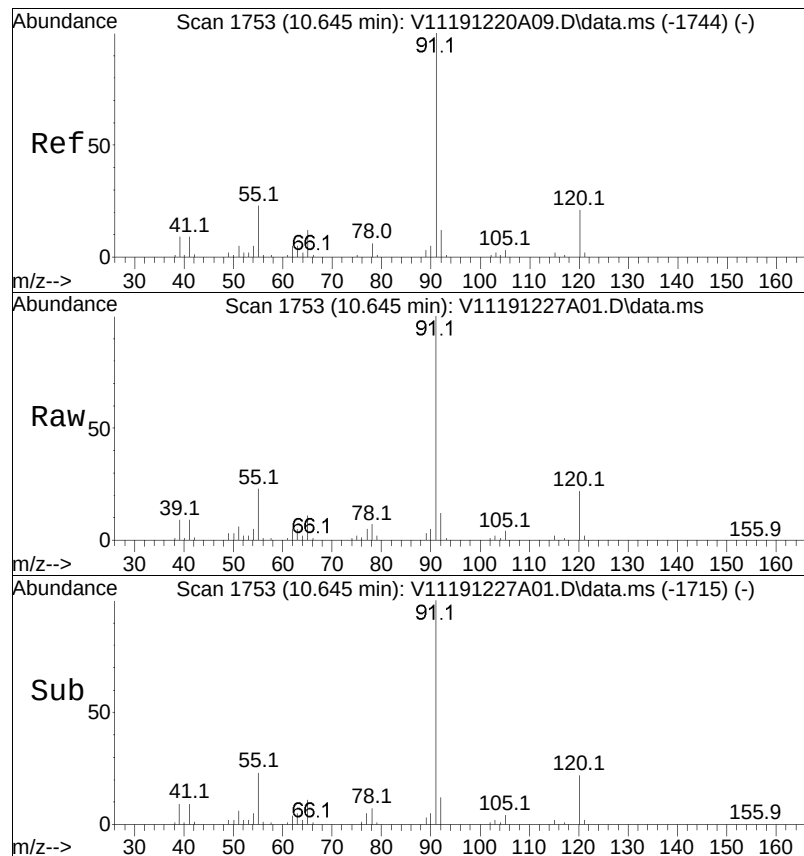


#82  
Isopropylbenzene  
Concen: 42.95 ug/L  
RT: 10.126 min Scan# 1654  
Delta R.T. -0.000 min  
Lab File: V11191227A01.D  
Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.0  | 6.9   | 46.9  |

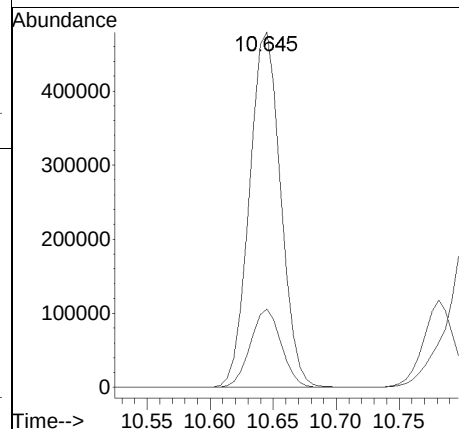


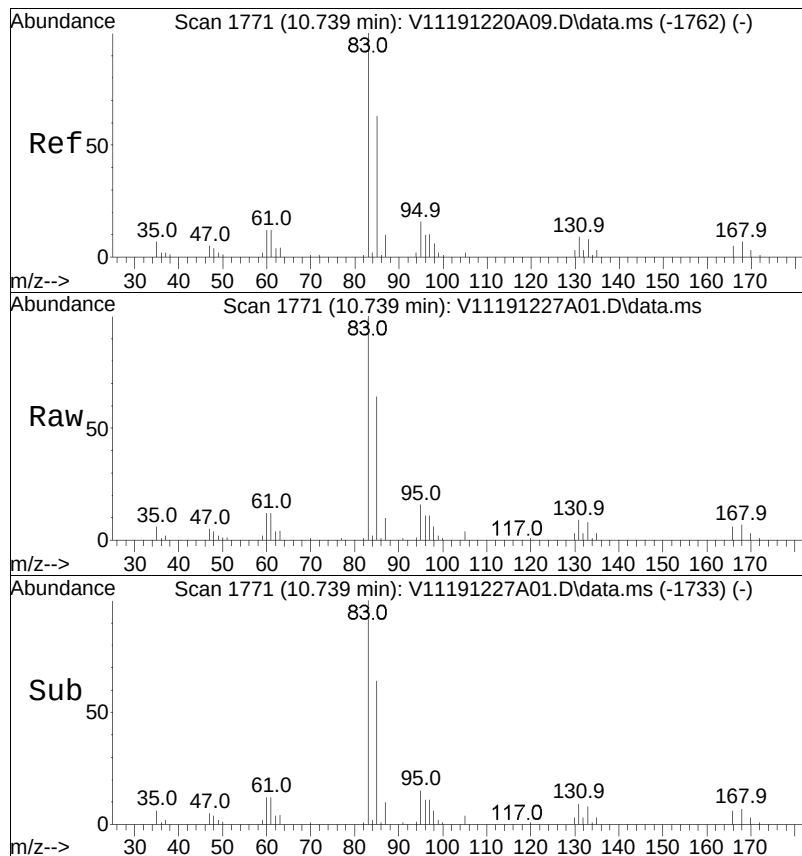




#85  
 n-Propylbenzene  
 Concen: 41.58 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

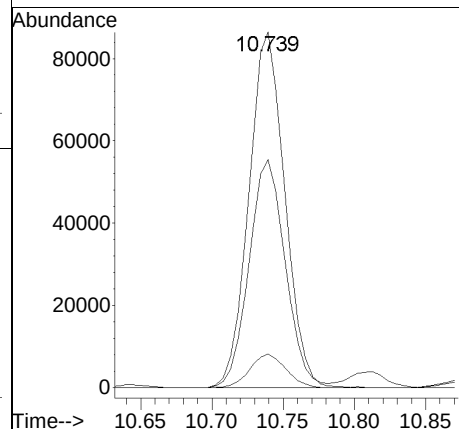
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 827948 |       |       |
| 120 | 21.7 | 18.6   | 27.8  |       |

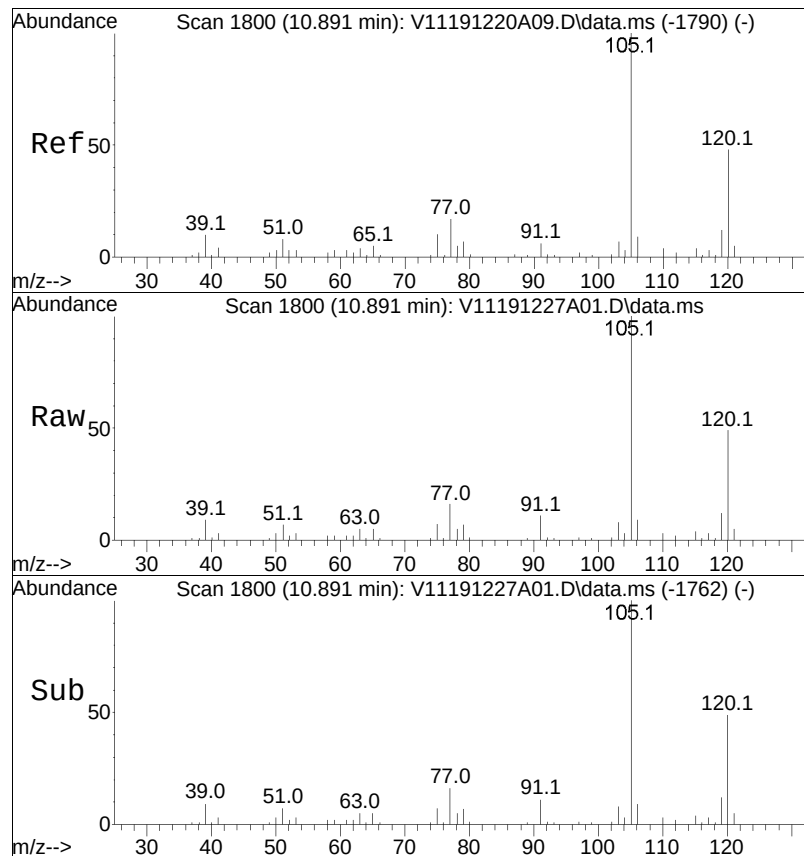




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 35.32 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

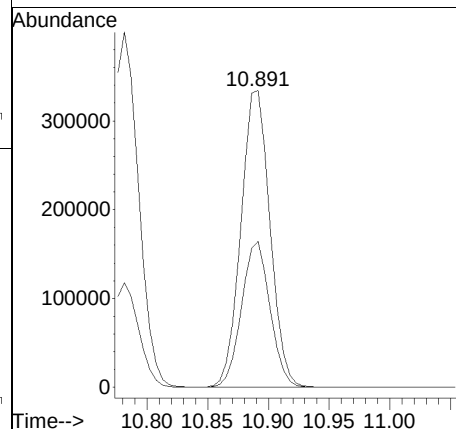
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.3   | 0.0   | 30.1  |
| 85      | 64.9  | 45.8  | 85.8  |

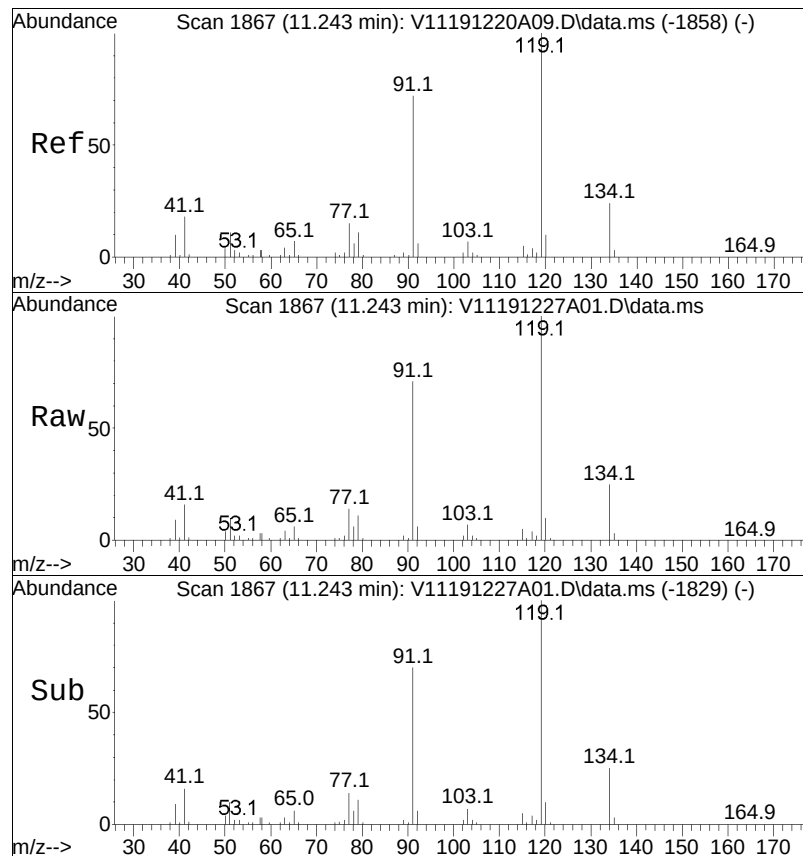




#90  
 1,3,5-Trimethylbenzene  
 Concen: 41.90 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

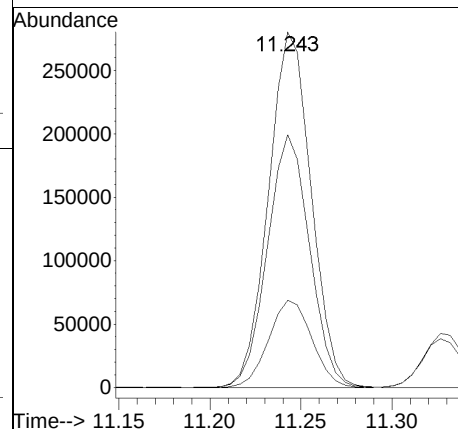
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 48.1 | 39.8  | 59.8  |       |

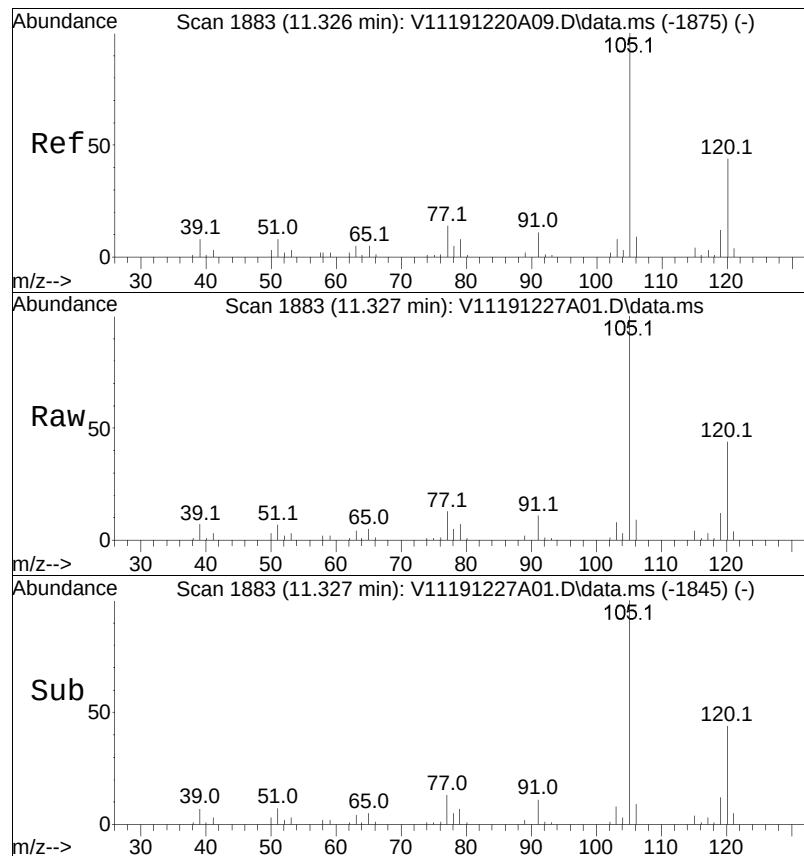




#94  
 tert-Butylbenzene  
 Concen: 42.68 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

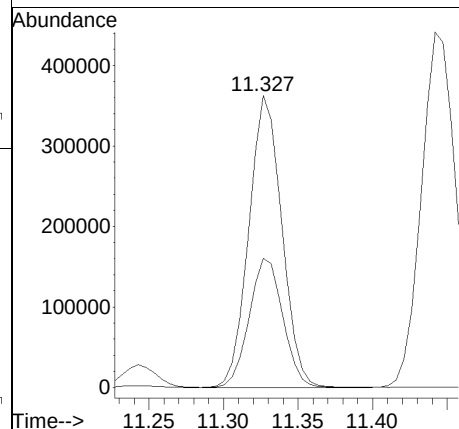
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 70.5  | 53.0  | 79.4  |
| 134     | 24.8  | 19.8  | 29.6  |

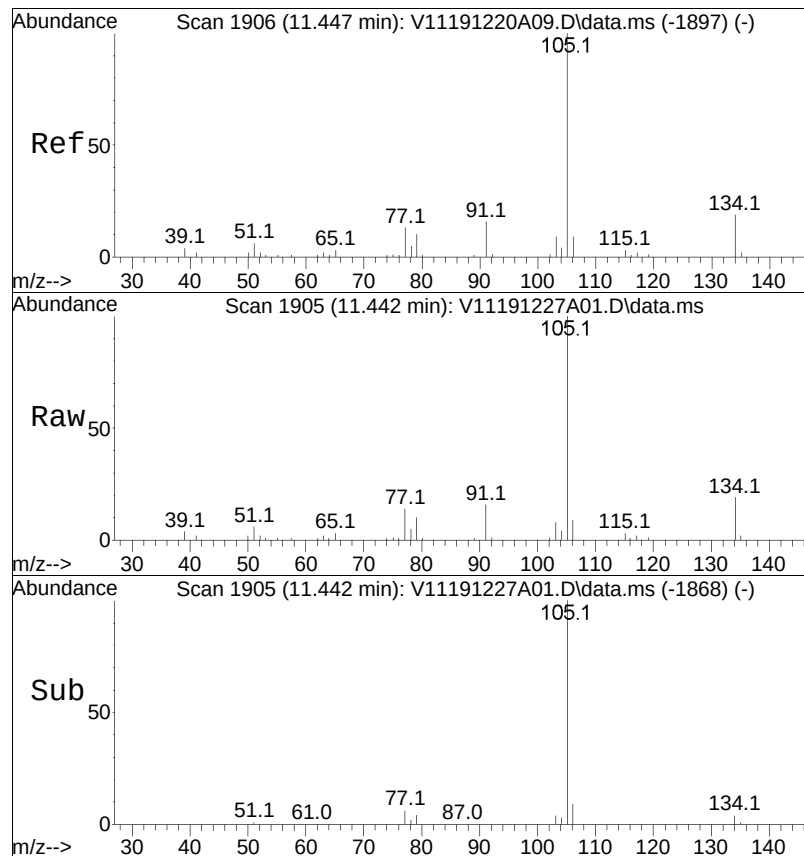




#97  
 1,2,4-Trimethylbenzene  
 Concen: 42.68 ug/L  
 RT: 11.327 min Scan# 1883  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

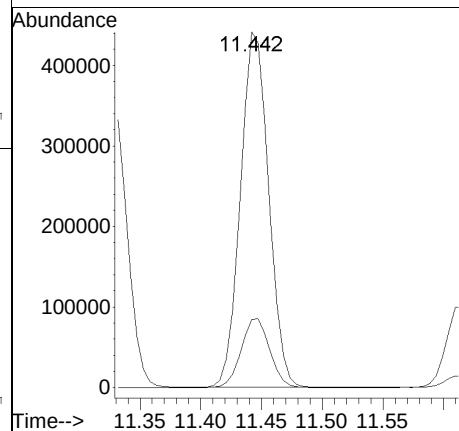
| Tgt Ion | 105    | 120  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 557775 |      |       |       |       |
| Ratio   | 100    | 45.1 |       | 37.4  | 56.0  |

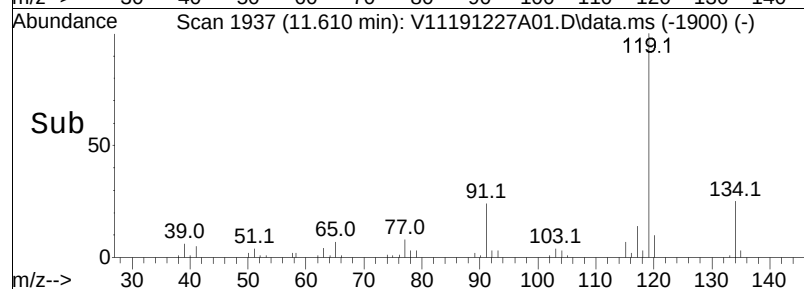
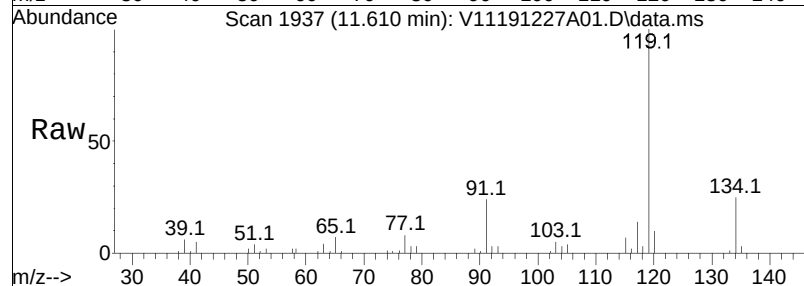
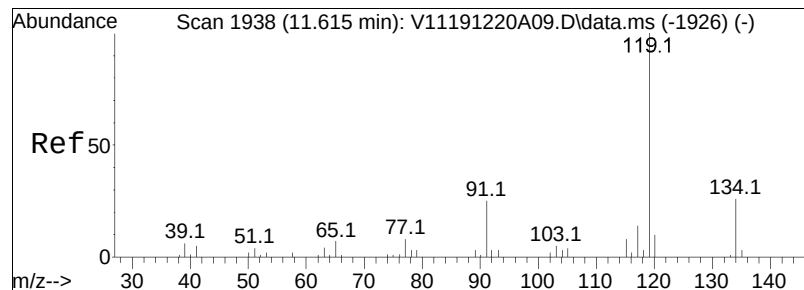




#98  
 sec-Butylbenzene  
 Concen: 42.79 ug/L  
 RT: 11.442 min Scan# 1905  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

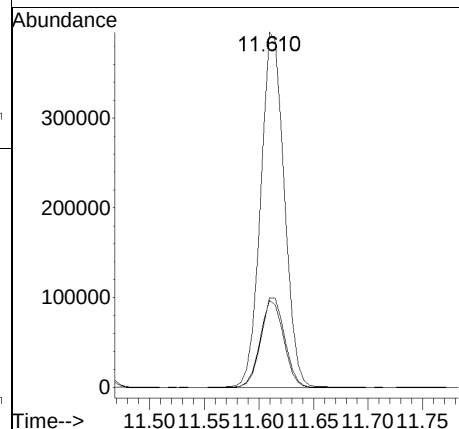
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 134 | 19.4 | 13.2  | 27.4  |       |

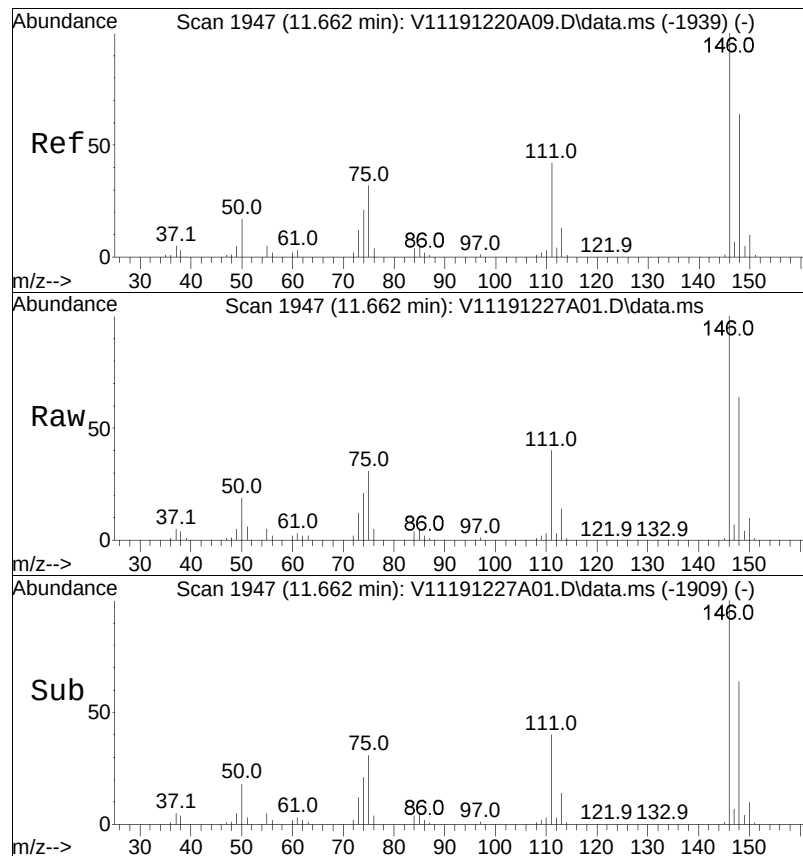




#99  
 p-Isopropyltoluene  
 Concen: 44.49 ug/L  
 RT: 11.610 min Scan# 1937  
 Delta R.T. -0.005 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

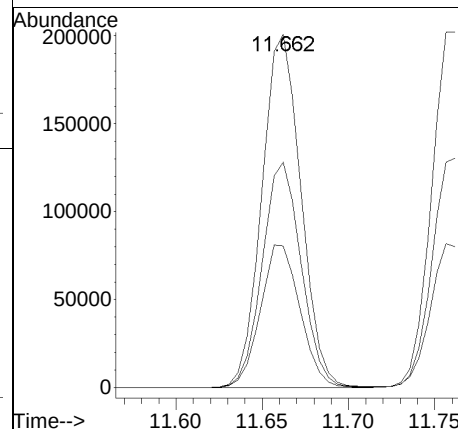
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.5  | 17.1  | 35.5  |
| 91      | 24.6  | 15.3  | 31.9  |



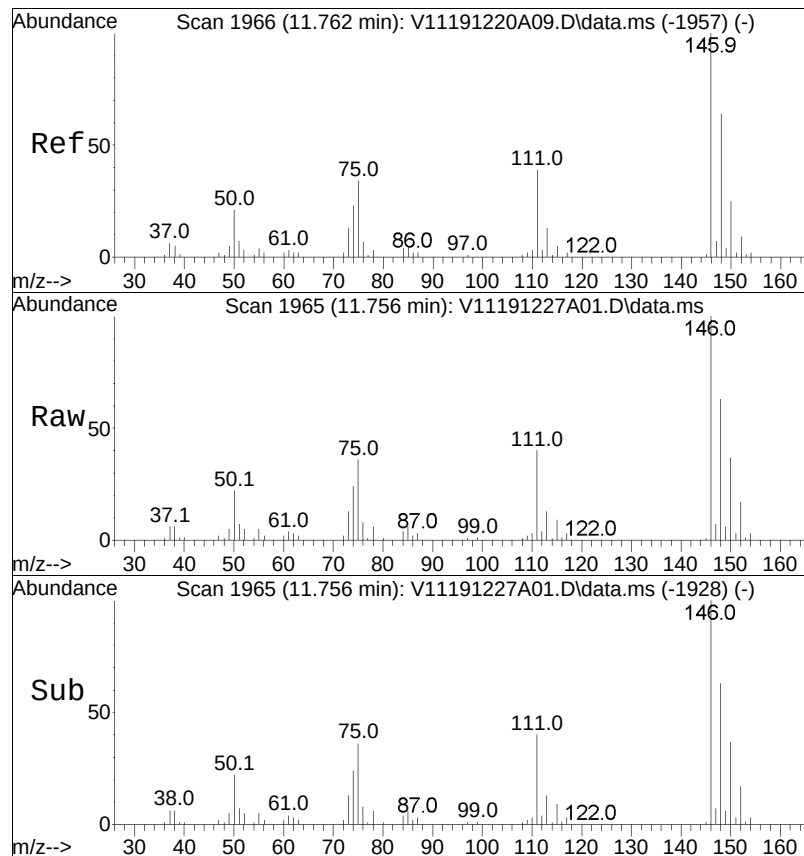


#100  
 1,3-Dichlorobenzene  
 Concen: 39.11 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.9  | 25.6  | 53.2  |
| 148     | 63.6  | 41.3  | 85.9  |

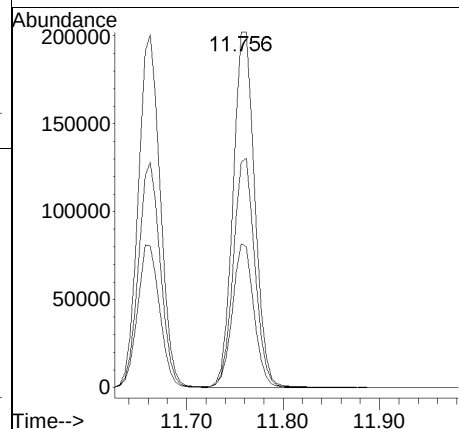


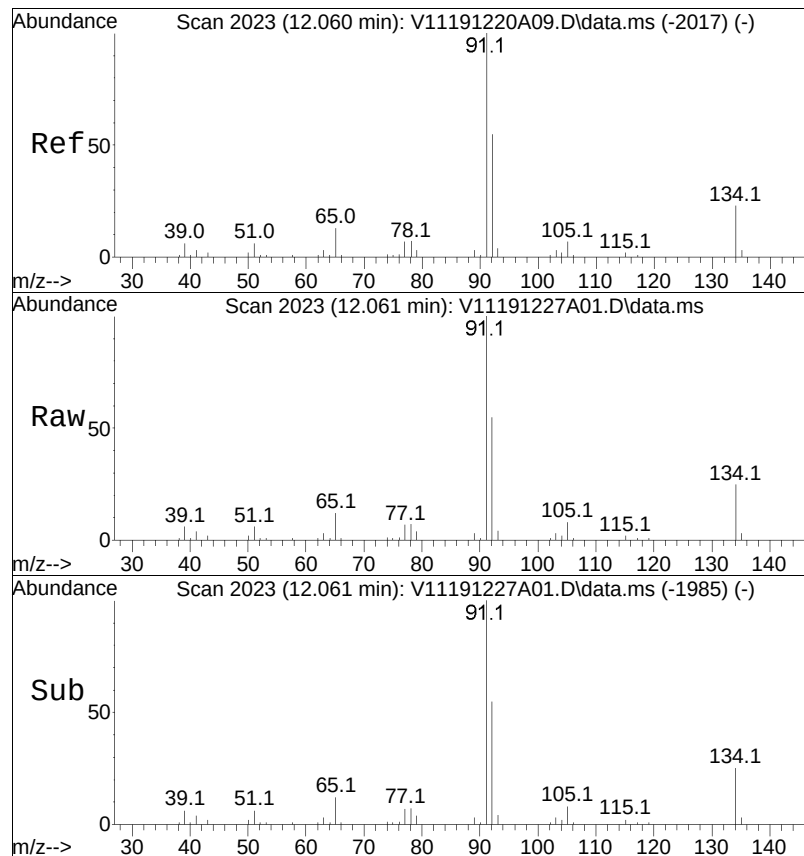




#101  
 1,4-Dichlorobenzene  
 Concen: 38.46 ug/L  
 RT: 11.756 min Scan# 1965  
 Delta R.T. -0.006 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

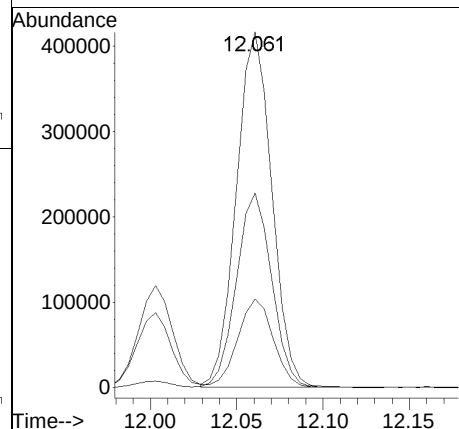
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.1  | 31.4  | 47.0  |
| 148     | 63.9  | 50.7  | 76.1  |

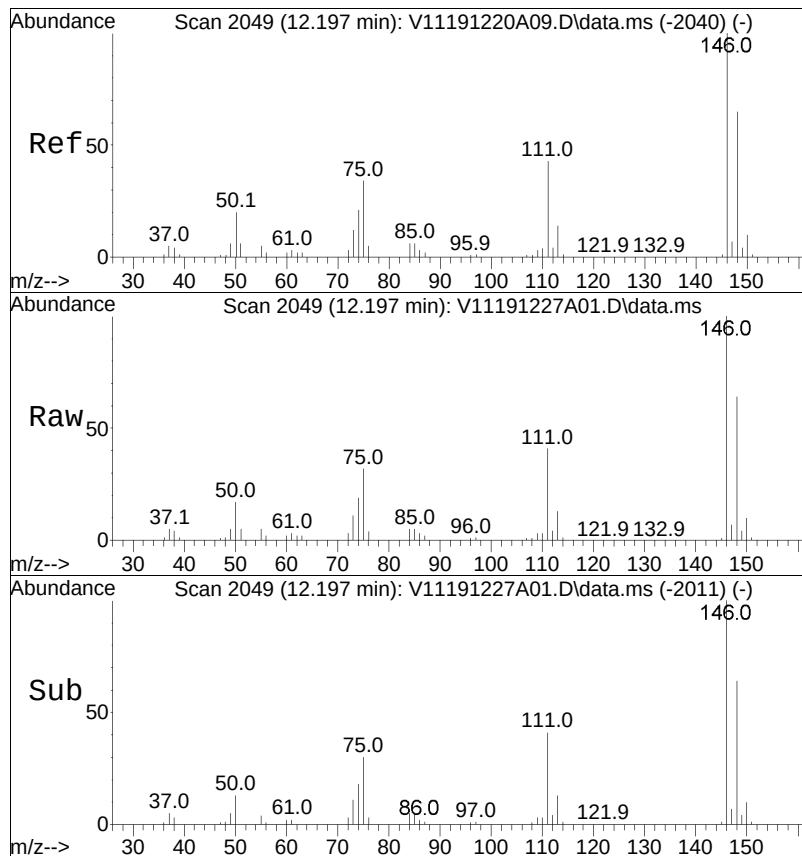




#103  
 n-Butylbenzene  
 Concen: 42.45 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

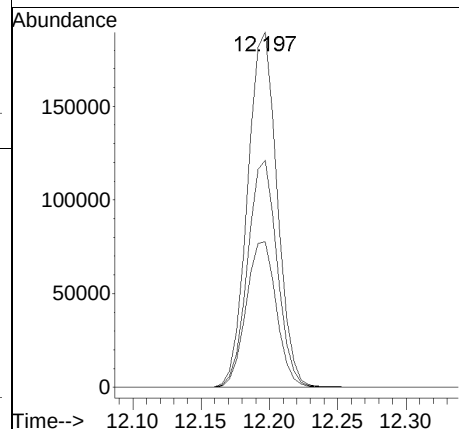
| Tgt Ion:  | 91    | Resp: | 593593 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.7  | 43.3  | 64.9   |
| 134       | 24.9  | 21.4  | 32.0   |

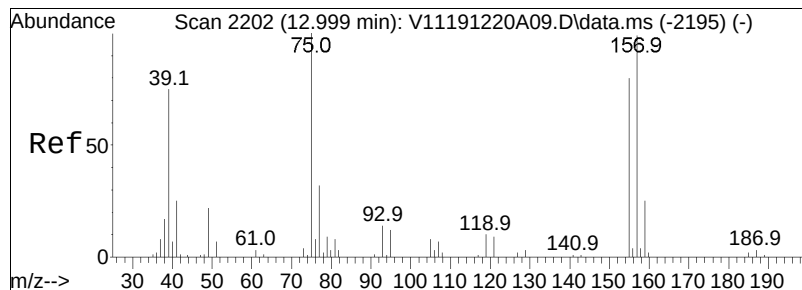




#104  
 1,2-Dichlorobenzene  
 Concen: 38.69 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

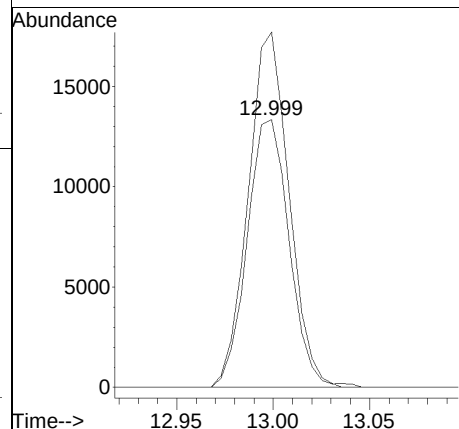
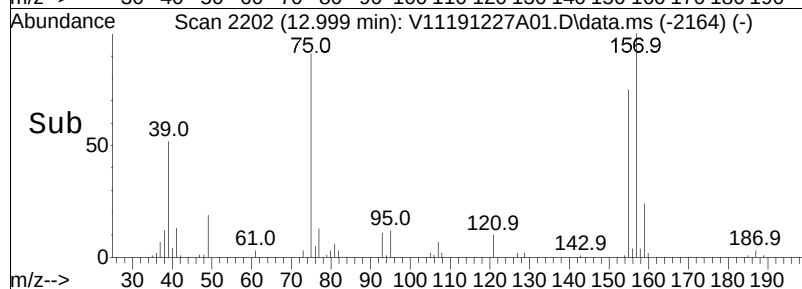
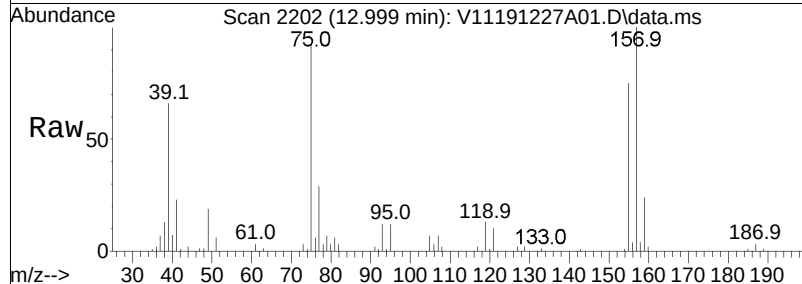
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.9  | 26.9  | 55.9  |
| 148     | 63.7  | 41.2  | 85.6  |

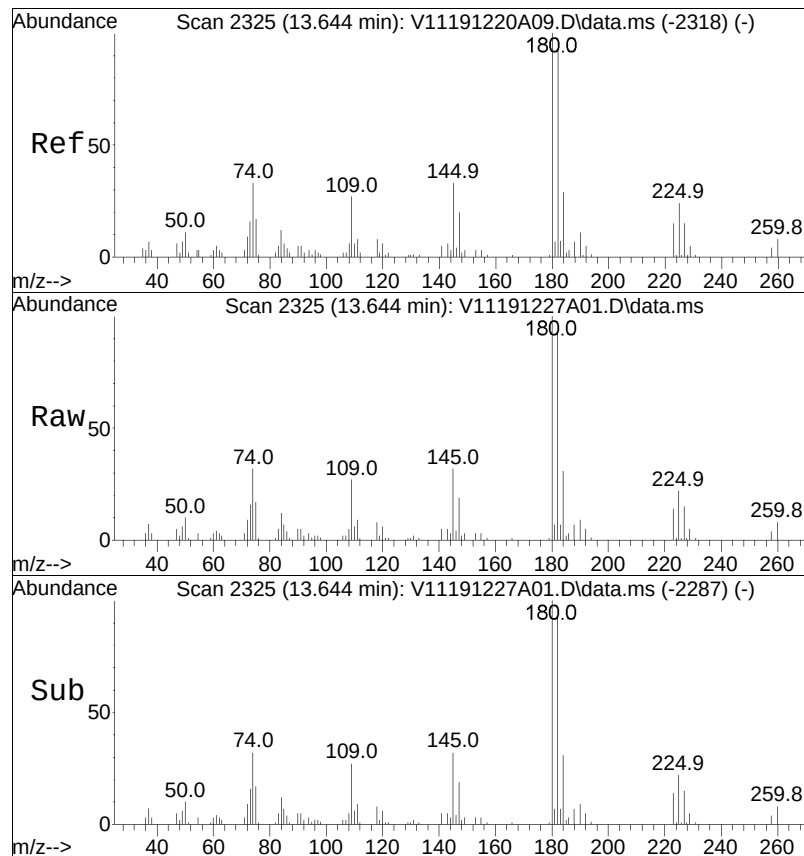




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 38.08 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

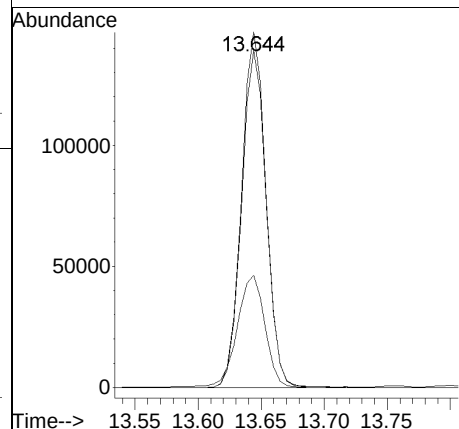
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 155     | 100   |       |       |
| 157     | 128.5 | 100.0 | 150.0 |

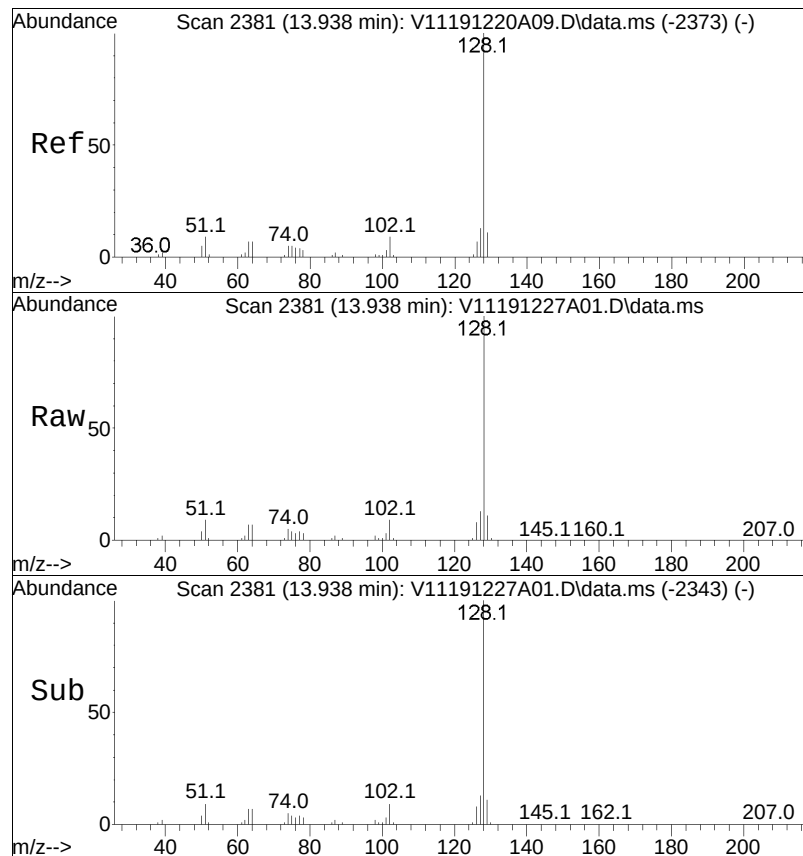




#109  
 1,2,4-Trichlorobenzene  
 Concen: 41.73 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. 0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

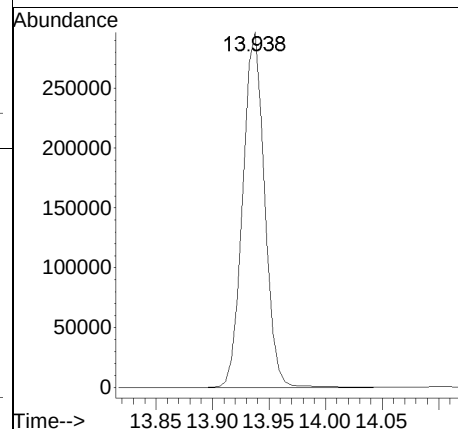
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.3  | 75.8  | 113.6 |
| 145     | 36.0  | 29.6  | 44.4  |





#110  
 Naphthalene  
 Concen: 42.83 ug/L  
 RT: 13.938 min Scan# 2381  
 Delta R.T. -0.000 min  
 Lab File: V11191227A01.D  
 Acq: 27 Dec 2019 05:20 am

Tgt Ion:128 Resp: 398123



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A01.D Operator : VOA111:MV  
Date Inj'd : 12/27/2019 5:20 am Instrument : VOA111  
Sample : WG1325770-3,31h,15,15,0.1 Quant Date : 12/27/2019 6:25 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-3,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.211          | 96   | 92781      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 92781      |                |      | Recovery = | 100.00% |       |          |
| 59) Chlorobenzene-d5         | 9.760          | 117  | 71520      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 71520      |                |      | Recovery = | 100.00% |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.408         | 152  | 38760      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 38760      |                |      | Recovery = | 100.00% |       |          |
|                              |                |      |            |         |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.398          | 113  | 26955      | 20.481  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 102.41% |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.928          | 65   | 29693      | 18.908  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 94.54%  |       |          |
| 60) Toluene-d8               | 7.910          | 98   | 95292      | 19.507  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 97.54%  |       |          |
| 83) 4-Bromofluorobenzene     | 11.223         | 95   | 38677      | 19.211  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 96.05%  |       |          |
|                              |                |      |            |         |       |          |
| Target Compounds             |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.728          | 85   | 49458      | 55.277  | ug/L  | # 96     |
| 3) Chloromethane             | 1.933          | 50   | 65007      | 37.216  | ug/L  | 99       |
| 4) Vinyl chloride            | 2.006          | 62   | 91470      | 55.088  | ug/L  | 95       |
| 5) Bromomethane              | 2.331          | 94   | 41077M1    | 72.666  | ug/L  |          |
| 6) Chloroethane              | 2.452          | 64   | 67704      | 79.199  | ug/L  | 94       |
| 7) Trichlorofluoromethane    | 2.593          | 101  | 127252     | 78.390  | ug/L  | 99       |
| 10) 1,1-Dichloroethene       | 3.102          | 96   | 66592      | 55.888  | ug/L  | # 36     |
| 11) Carbon disulfide         | 3.128          | 76   | 212649     | 54.366  | ug/L  | 100      |
| 12) Freon-113                | 3.133          | 101  | 67458      | 54.818  | ug/L  | 79       |
| 15) Methylene chloride       | 3.673          | 84   | 67187      | 38.797  | ug/L  | # 59     |
| 17) Acetone                  | 3.726          | 43   | 23953      | 37.925  | ug/L  | 99       |
| 18) trans-1,2-Dichloroethene | 3.830          | 96   | 60297      | 41.337  | ug/L  | # 74     |
| 19) Methyl acetate           | 3.841          | 43   | 60278      | 34.934  | ug/L  | # 89     |
| 20) Methyl tert-butyl ether  | 3.930          | 73   | 196754     | 39.701  | ug/L  | # 83     |
| 23) 1,1-Dichloroethane       | 4.423          | 63   | 136803     | 39.109  | ug/L  | 95       |
| 28) cis-1,2-Dichloroethene   | 4.952          | 96   | 69875      | 40.409  | ug/L  | # 72     |
| 31) Cyclohexane              | 5.146          | 56   | 126805     | 39.729  | ug/L  | # 64     |
| 32) Chloroform               | 5.220          | 83   | 119605     | 40.168  | ug/L  | # 92     |
| 34) Carbon tetrachloride     | 5.356          | 117  | 86942      | 41.433  | ug/L  | 99       |
| 37) 1,1,1-Trichloroethane    | 5.419          | 97   | 97284      | 40.644  | ug/L  | 88       |



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-3,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 39)  | 2-Butanone                | 5.519  | 43   | 38726M4  | 34.115 | ug/L   |          |
| 41)  | Benzene                   | 5.791  | 78   | 252434   | 39.576 | ug/L # | 90       |
| 44)  | 1,2-Dichloroethane        | 5.996  | 62   | 111723   | 38.189 | ug/L   | 96       |
| 47)  | Methyl cyclohexane        | 6.379  | 83   | 101171   | 41.738 | ug/L # | 59       |
| 48)  | Trichloroethene           | 6.394  | 95   | 65068    | 41.276 | ug/L   | 92       |
| 51)  | 1,2-Dichloropropane       | 6.940  | 63   | 81125    | 38.946 | ug/L # | 94       |
| 54)  | Bromodichloromethane      | 7.013  | 83   | 98307    | 41.419 | ug/L   | 99       |
| 58)  | cis-1,3-Dichloropropene   | 7.705  | 75   | 116505   | 38.511 | ug/L # | 83       |
| 61)  | Toluene                   | 7.967  | 92   | 156321   | 37.484 | ug/L   | 99       |
| 62)  | 4-Methyl-2-pentanone      | 8.397  | 58   | 33466    | 33.874 | ug/L # | 90       |
| 63)  | Tetrachloroethene         | 8.423  | 166  | 60491    | 37.747 | ug/L   | 90       |
| 65)  | trans-1,3-Dichloropropene | 8.455  | 75   | 108171   | 36.963 | ug/L   | 86       |
| 68)  | 1,1,2-Trichloroethane     | 8.644  | 83   | 54962    | 39.565 | ug/L   | 97       |
| 69)  | Chlorodibromomethane      | 8.853  | 129  | 74720    | 39.818 | ug/L   | 97       |
| 71)  | 1,2-Dibromoethane         | 9.136  | 107  | 62828    | 38.858 | ug/L   | 100      |
| 72)  | 2-Hexanone                | 9.409  | 43   | 56826    | 32.362 | ug/L   | 98       |
| 73)  | Chlorobenzene             | 9.781  | 112  | 182422   | 37.157 | ug/L   | 91       |
| 74)  | Ethylbenzene              | 9.813  | 91   | 308330   | 38.243 | ug/L   | 97       |
| 76)  | p/m Xylene                | 9.996  | 106  | 237153   | 78.299 | ug/L   | 91       |
| 77)  | o Xylene                  | 10.526 | 106  | 237099   | 80.104 | ug/L   | 92       |
| 78)  | Styrene                   | 10.589 | 104  | 405605   | 81.875 | ug/L   | 92       |
| 80)  | Bromoform                 | 10.625 | 173  | 49051    | 38.960 | ug/L   | 99       |
| 82)  | Isopropylbenzene          | 10.893 | 105  | 298502   | 38.339 | ug/L   | 97       |
| 85)  | n-Propylbenzene           | 11.365 | 91   | 373211   | 38.806 | ug/L   | 96       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.454 | 83   | 90358    | 37.490 | ug/L   | 99       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.580 | 105  | 262081   | 38.395 | ug/L   | 96       |
| 94)  | tert-Butylbenzene         | 11.915 | 119  | 210912   | 37.832 | ug/L   | 94       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 261657   | 38.261 | ug/L   | 97       |
| 98)  | sec-Butylbenzene          | 12.104 | 105  | 327332   | 38.416 | ug/L   | 98       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 275096   | 38.309 | ug/L   | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.329 | 146  | 151373   | 37.733 | ug/L   | 97       |
| 101) | 1,4-Dichlorobenzene       | 12.419 | 146  | 154195   | 36.665 | ug/L   | 97       |
| 103) | n-Butylbenzene            | 12.676 | 91   | 274612   | 39.509 | ug/L   | 97       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 145138   | 37.413 | ug/L   | 97       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 13289    | 34.922 | ug/L   | 100      |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 98502    | 36.571 | ug/L   | 98       |
| 110) | Naphthalene               | 14.521 | 128  | 252545   | 35.558 | ug/L   | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A01.D  
 Acq On : 28 Dec 2019 7:27 am  
 Operator : CHARLIE:JAL  
 Sample : WG1325623-3,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

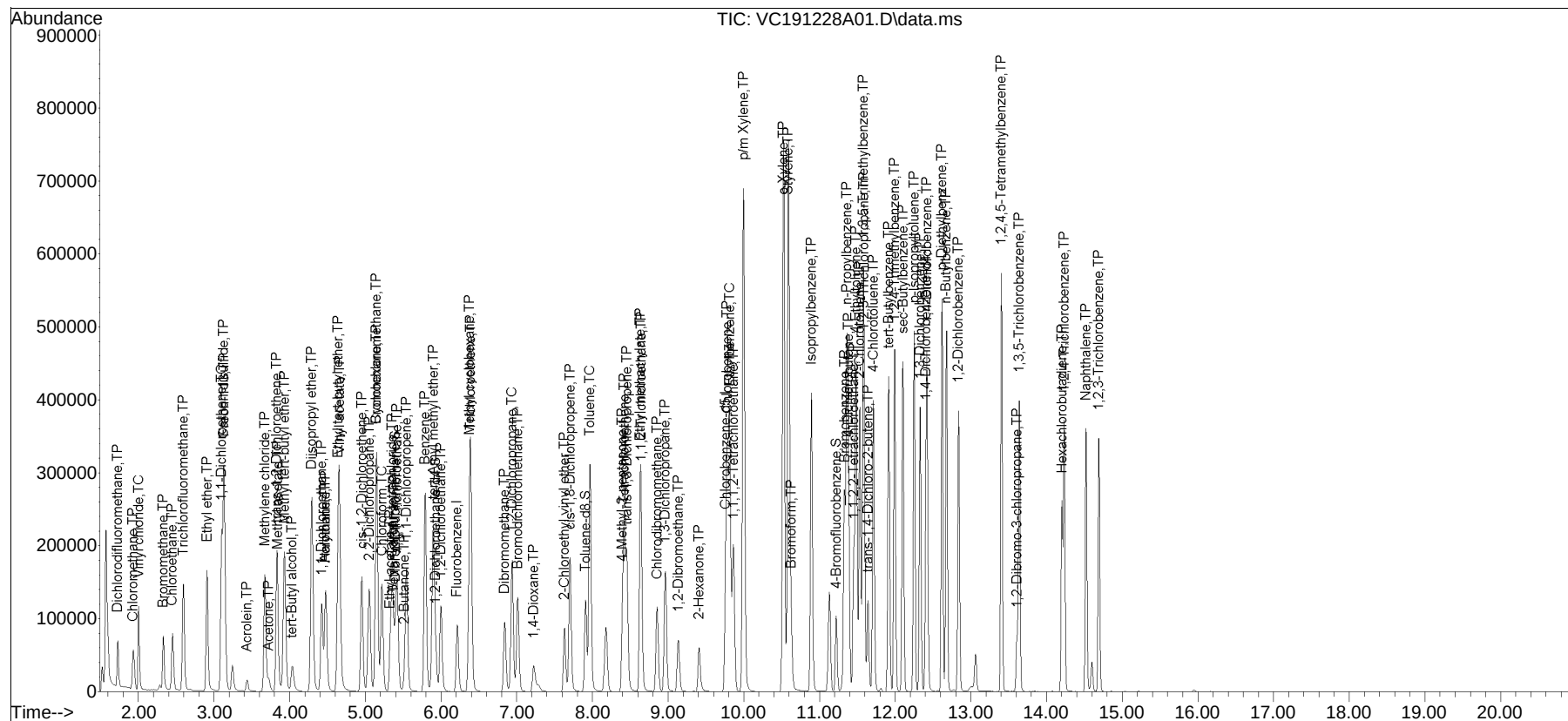
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

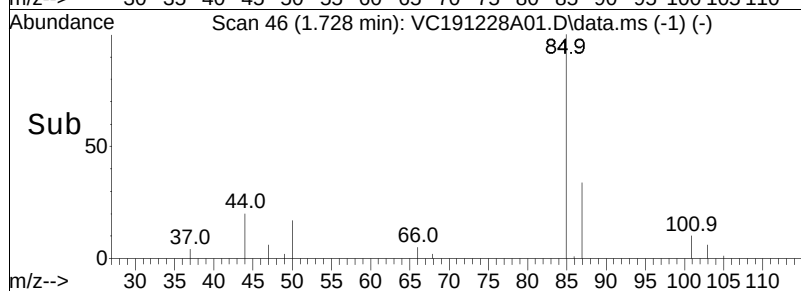
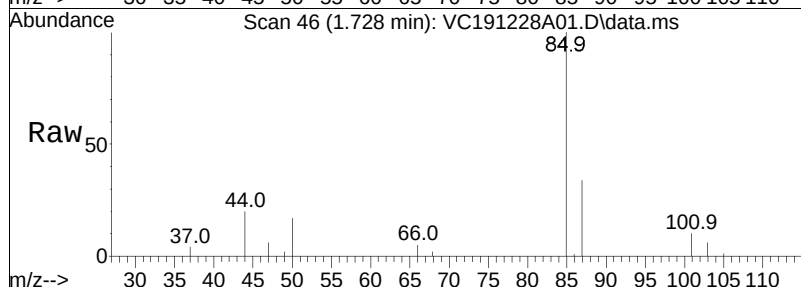
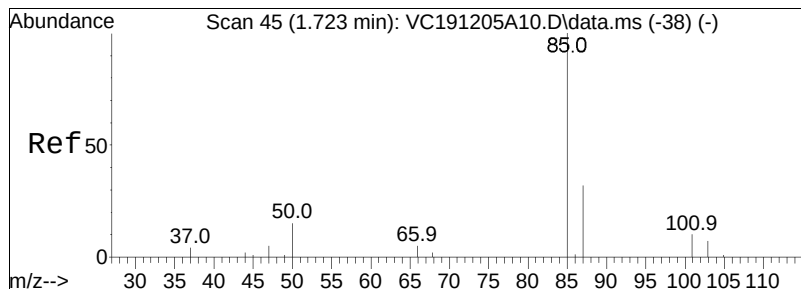
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
Data File : VC191228A01.D  
Acq On : 28 Dec 2019 7:27 am  
Operator : CHARLIE:JAL  
Sample : WG1325623-3,31,5,5  
Misc : WG1325623,ICAL16358  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 28 08:08:06 2019  
Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Dec 12 09:59:41 2019  
Response via : Initial Calibration

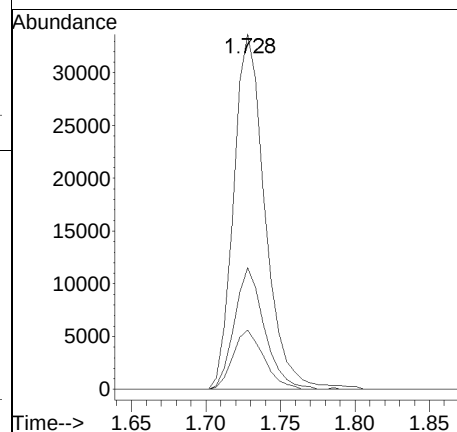
Sub List : 8260-CurveSoil - Megamix plus Diox28A\VC191228A01.D•

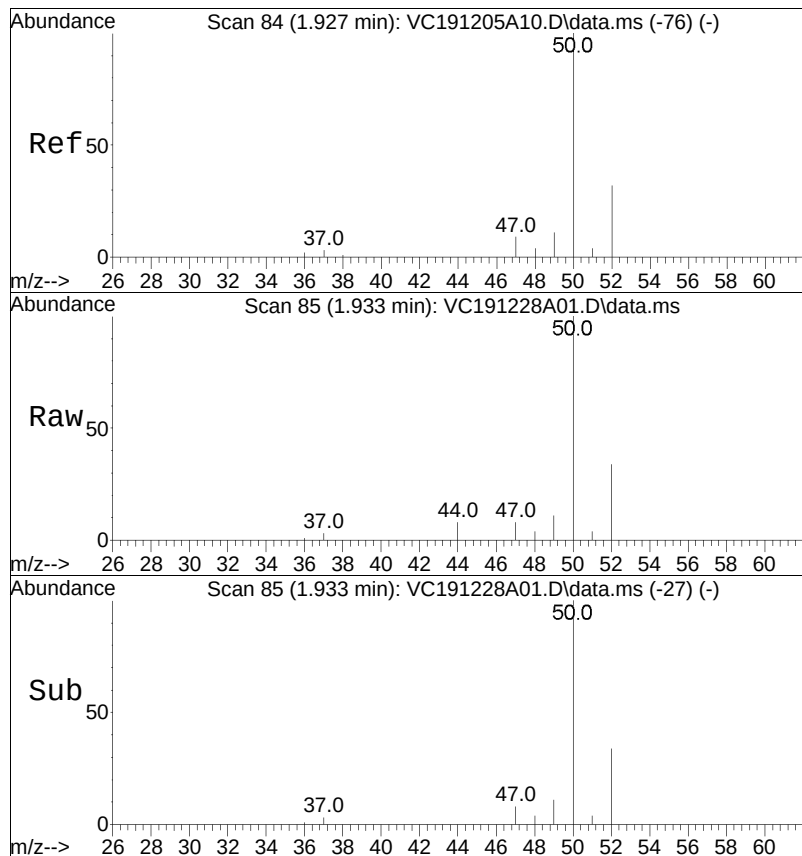




#2  
 Dichlorodifluoromethane  
 Concen: 55.28 ug/L  
 RT: 1.728 min Scan# 46  
 Delta R.T. 0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

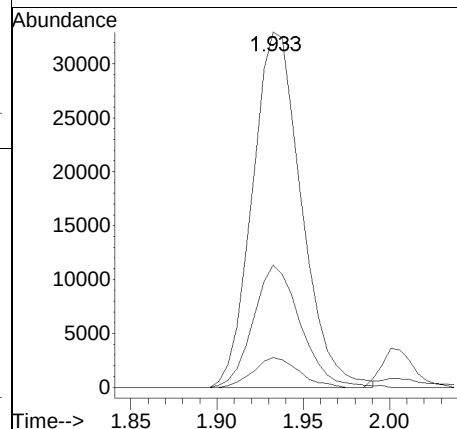
| Tgt Ion | 85 | 87 | 50 | Ratio | 100 | 32.8 | 16.5 | Resp: | 49458 | Lower | 21.0 | 7.0 | Upper | 43.6 | 14.4# |
|---------|----|----|----|-------|-----|------|------|-------|-------|-------|------|-----|-------|------|-------|
|         |    |    |    |       |     |      |      |       |       |       |      |     |       |      |       |

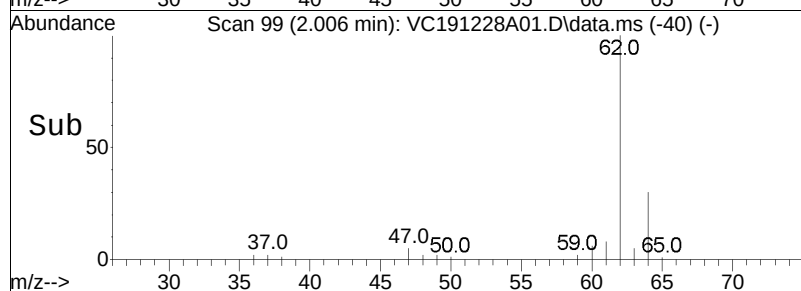
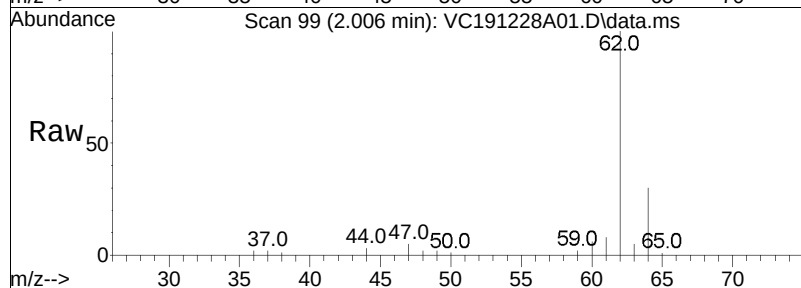
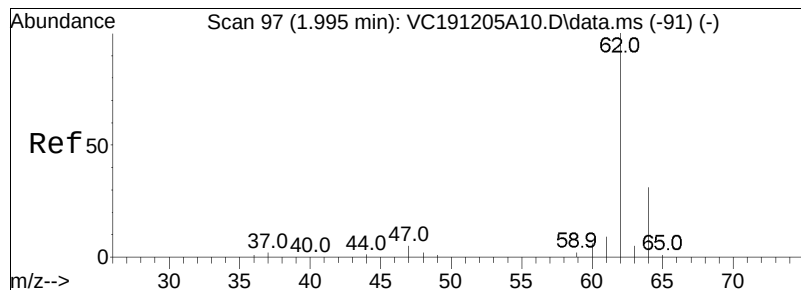




#3  
 Chloromethane  
 Concen: 37.22 ug/L  
 RT: 1.933 min Scan# 85  
 Delta R.T. 0.006 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

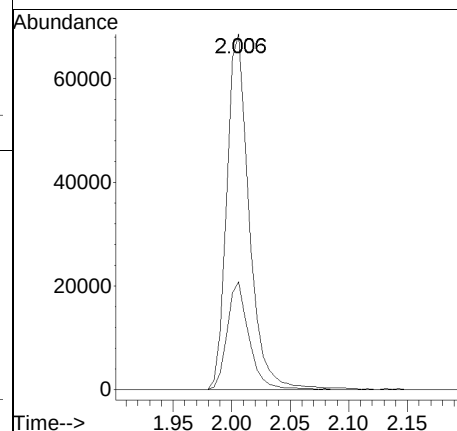
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 50 | Resp: | 65007 |
| Ion | Ratio   | Lower | Upper |
| 50  | 100     |       |       |
| 52  | 33.2    | 13.6  | 53.6  |
| 47  | 7.8     | 0.0   | 28.0  |

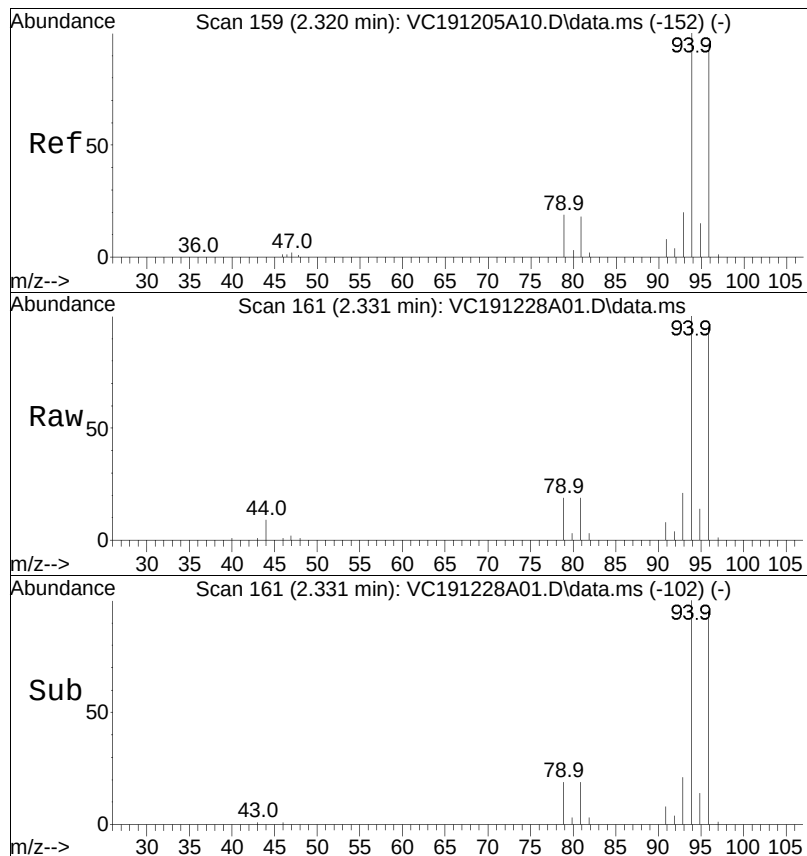




#4  
 Vinyl chloride  
 Concen: 55.09 ug/L  
 RT: 2.006 min Scan# 99  
 Delta R.T. 0.011 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

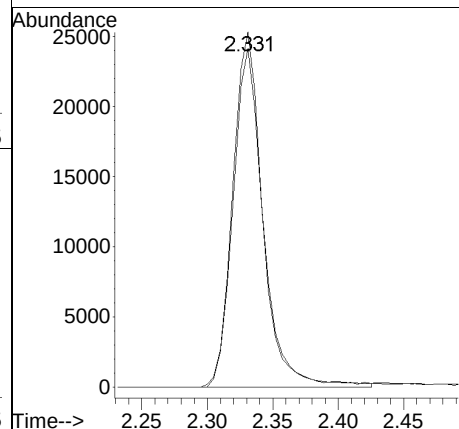
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 29.2  | 11.7  | 51.7  |

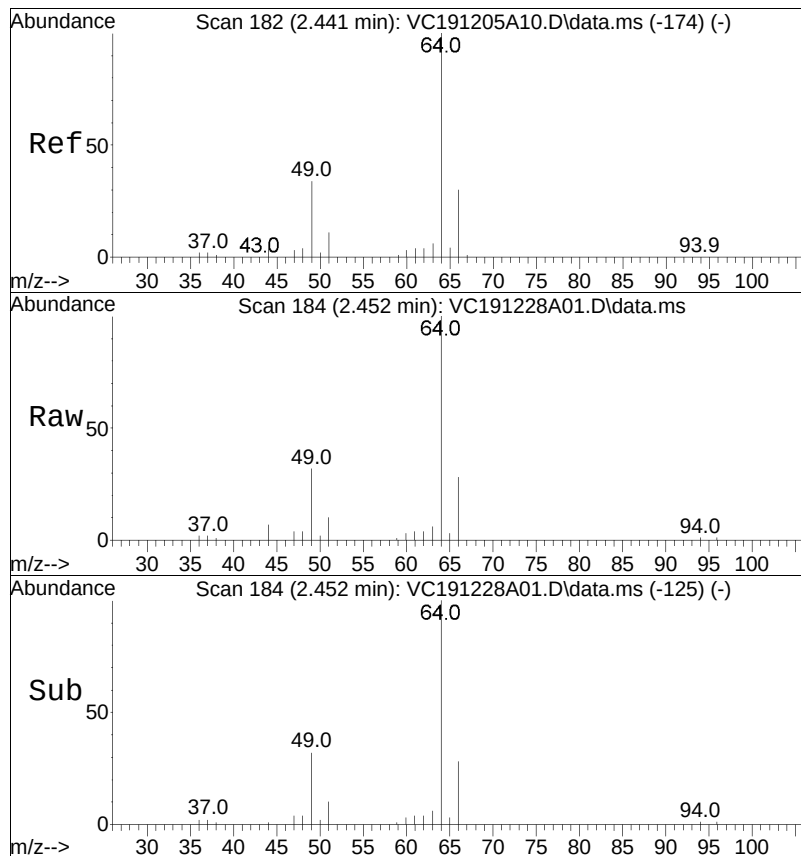




#5  
 Bromomethane  
 Concen: 72.67 ug/L M1  
 RT: 2.331 min Scan# 161  
 Delta R.T. 0.011 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

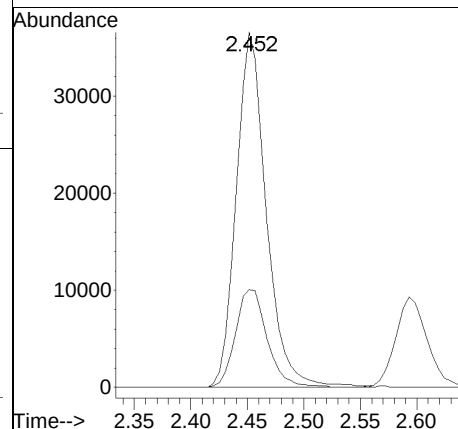
| Tgt Ion   | 94   | Resp  | 41077 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 96        | 93.7 | 73.8  | 113.8 |



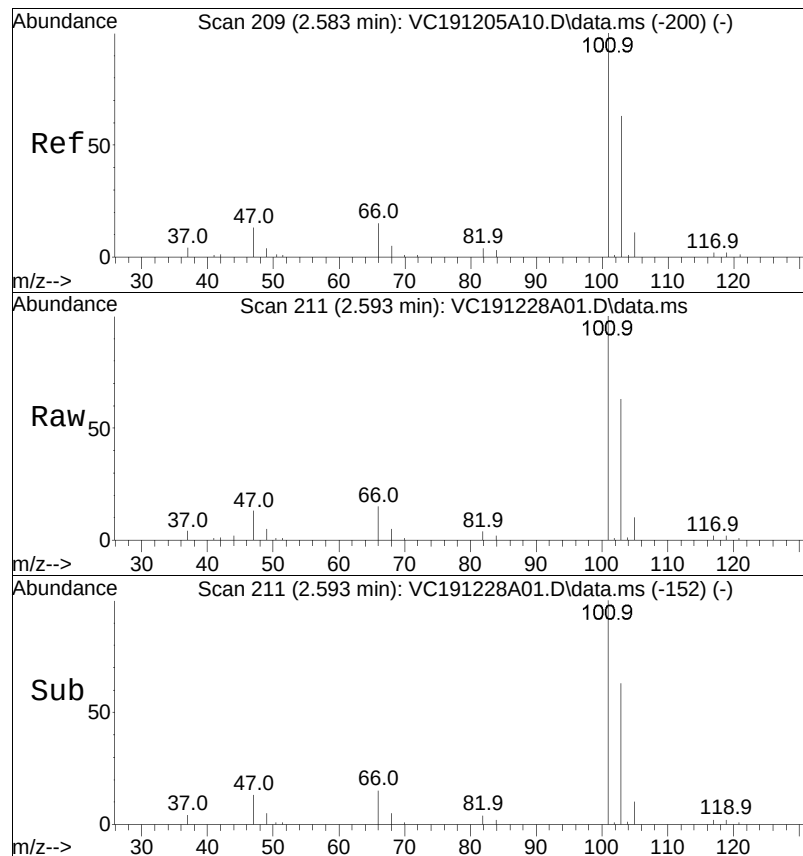


#6  
 Chloroethane  
 Concen: 79.20 ug/L  
 RT: 2.452 min Scan# 184  
 Delta R.T. 0.011 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 29.1  | 12.5  | 52.5  |

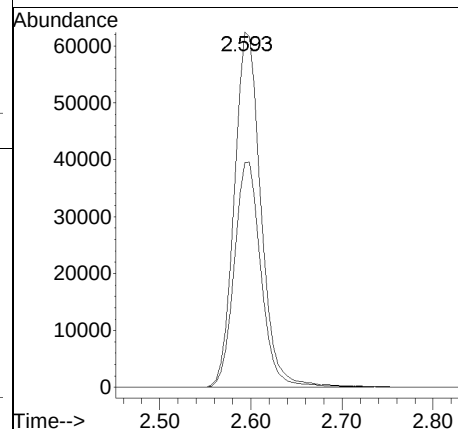


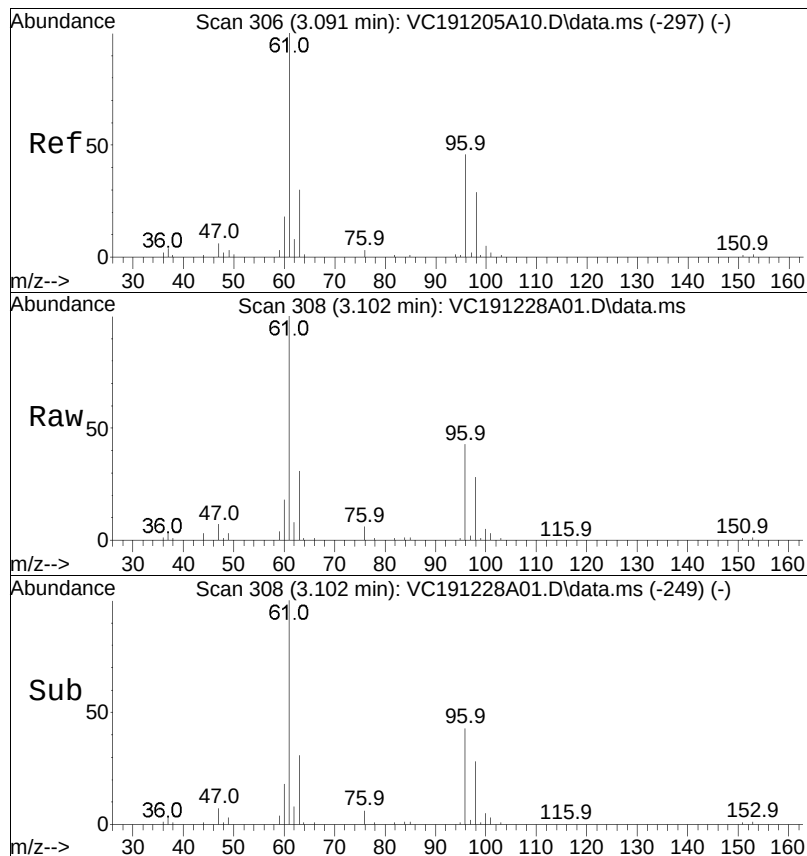




#7  
 Trichlorofluoromethane  
 Concen: 78.39 ug/L  
 RT: 2.593 min Scan# 211  
 Delta R.T. 0.010 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

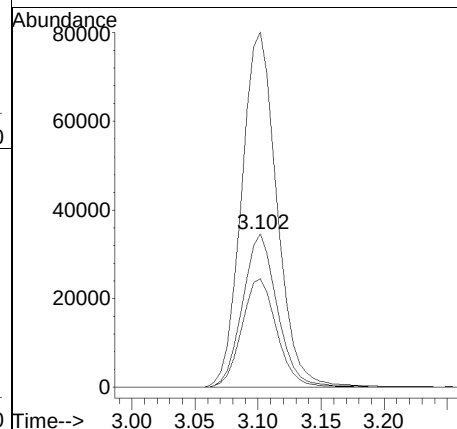
| Tgt Ion   | 101   | Resp  | 127252 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 103       | 63.6  | 51.7  | 77.5   |

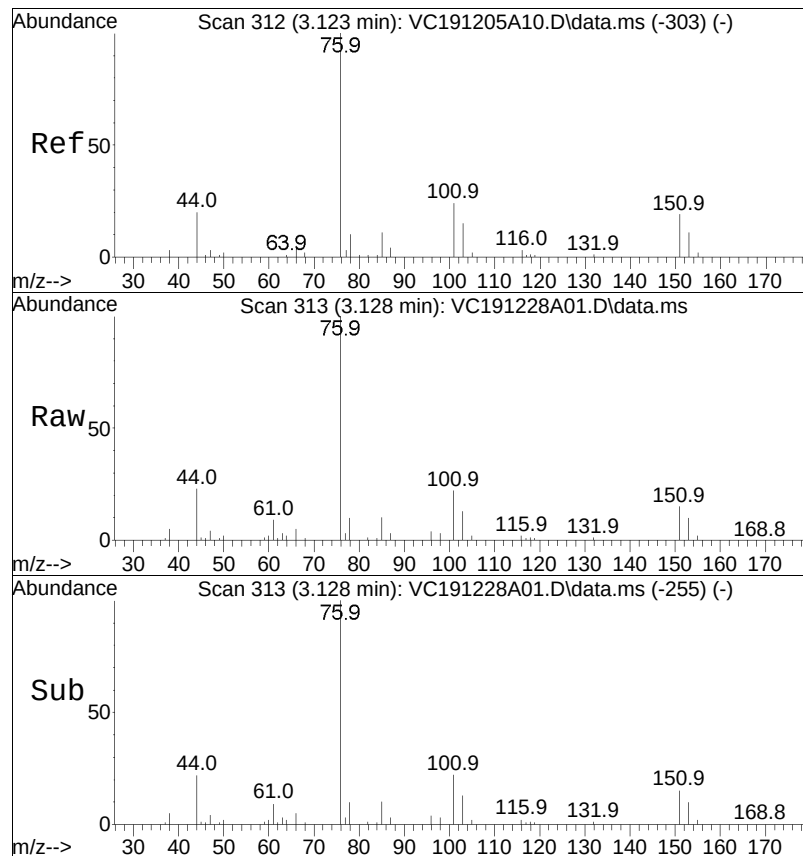




#10  
 1,1-Dichloroethene  
 Concen: 55.89 ug/L  
 RT: 3.102 min Scan# 308  
 Delta R.T. 0.011 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

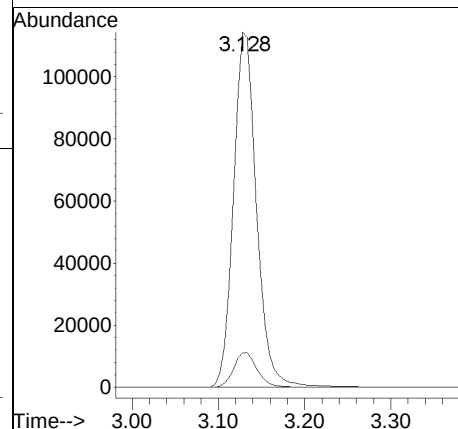
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 235.5 | 116.1 | 174.1# |
| 63      | 71.4  | 37.4  | 56.0#  |

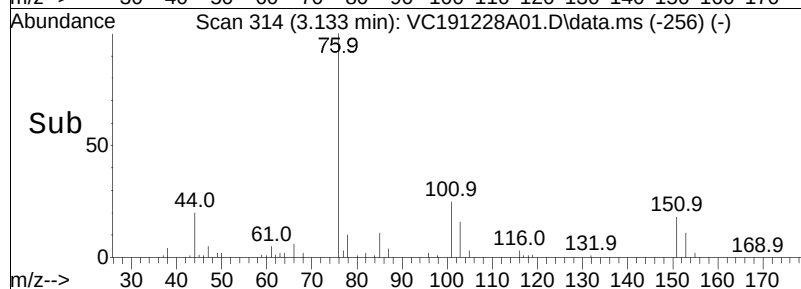
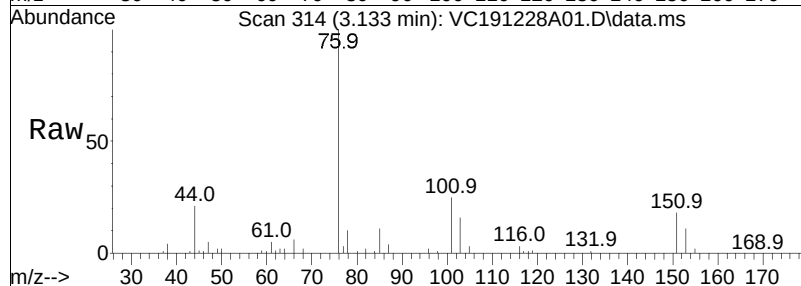
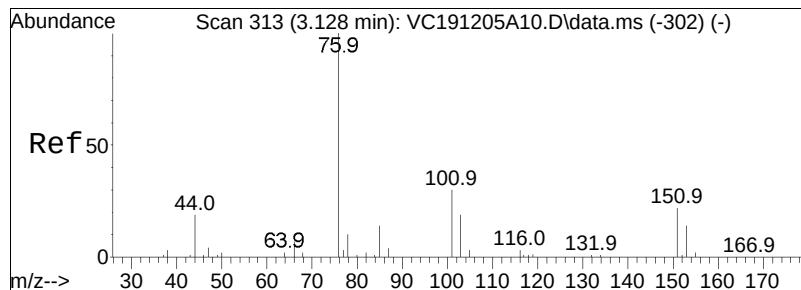




#11  
 Carbon disulfide  
 Concen: 54.37 ug/L  
 RT: 3.128 min Scan# 313  
 Delta R.T. 0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 10.0  | 6.5   | 13.5  |





#12

Freon-113

Concen: 54.82 ug/L

RT: 3.133 min Scan# 314

Delta R.T. 0.005 min

Lab File: VC191228A01.D

Acq: 28 Dec 2019 7:27 am

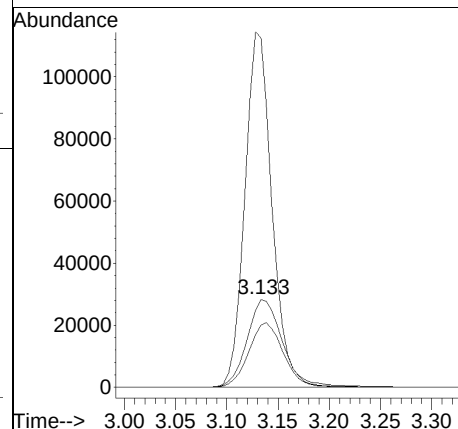
Tgt Ion:101 Resp: 67458

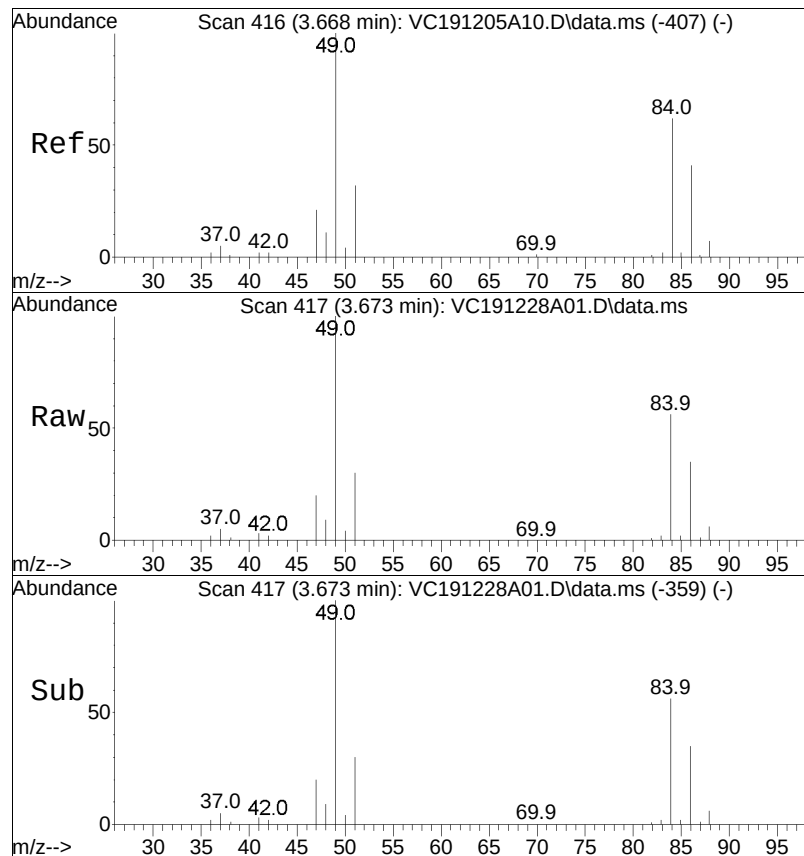
Ion Ratio Lower Upper

101 100

151 73.0 65.0 97.6

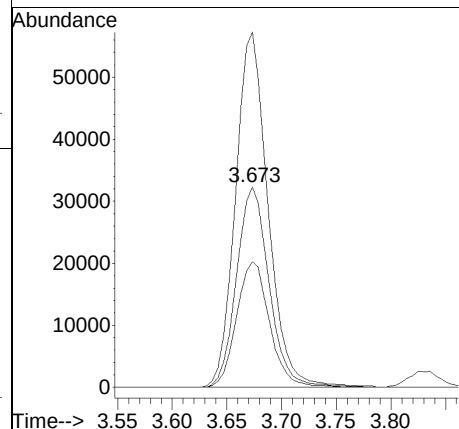
76 315.2 215.5 323.3

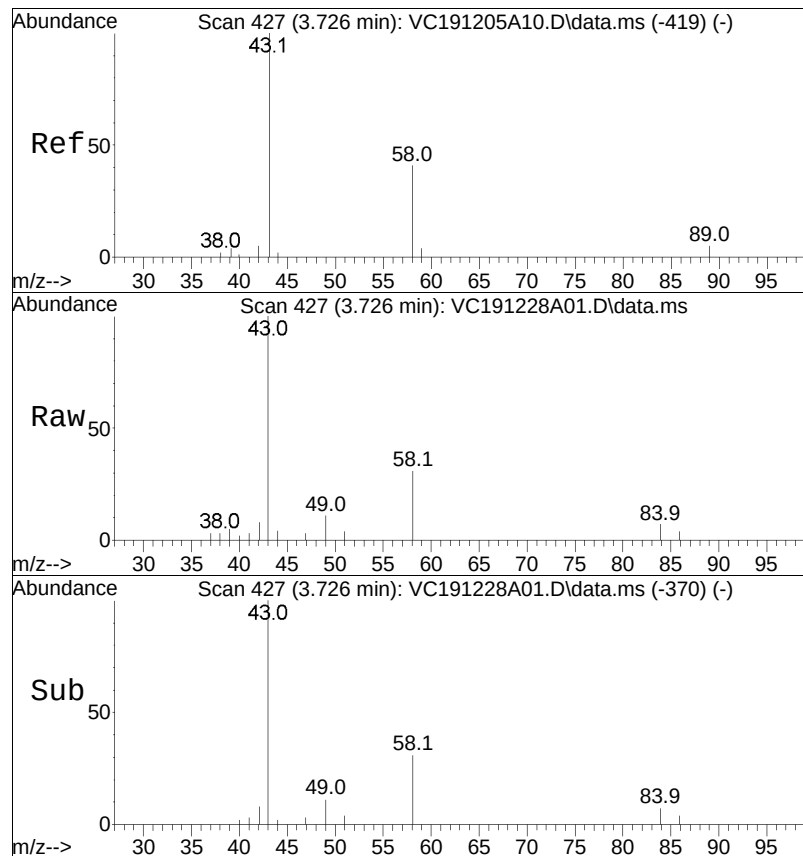




#15  
 Methylene chloride  
 Concen: 38.80 ug/L  
 RT: 3.673 min Scan# 417  
 Delta R.T. 0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

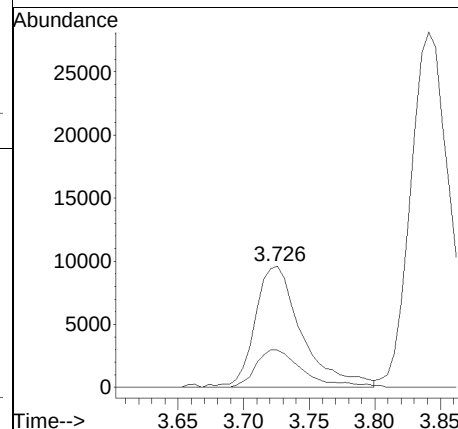
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 84    | Resp: | 67187  |
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 63.4  | 41.9  | 86.9   |
| 49        | 176.2 | 70.3  | 146.1# |

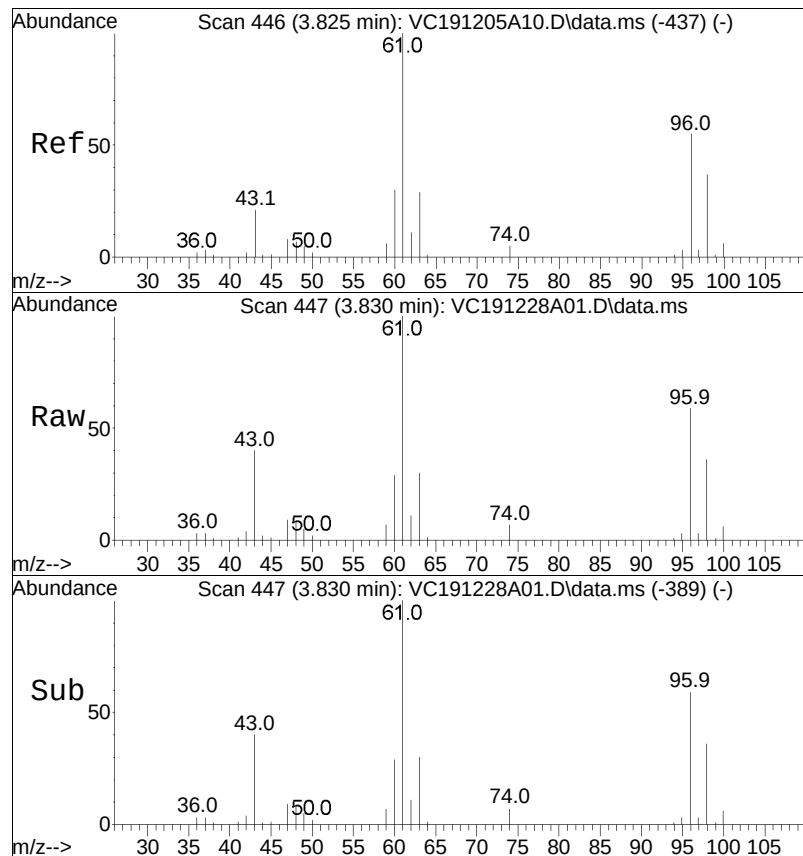




#17  
 Acetone  
 Concen: 37.93 ug/L  
 RT: 3.726 min Scan# 427  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

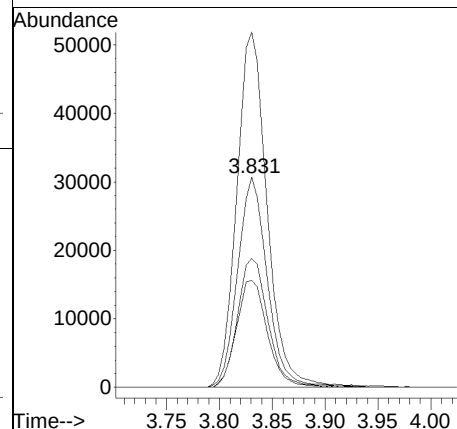
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 31.5  | 25.4  | 38.2  |

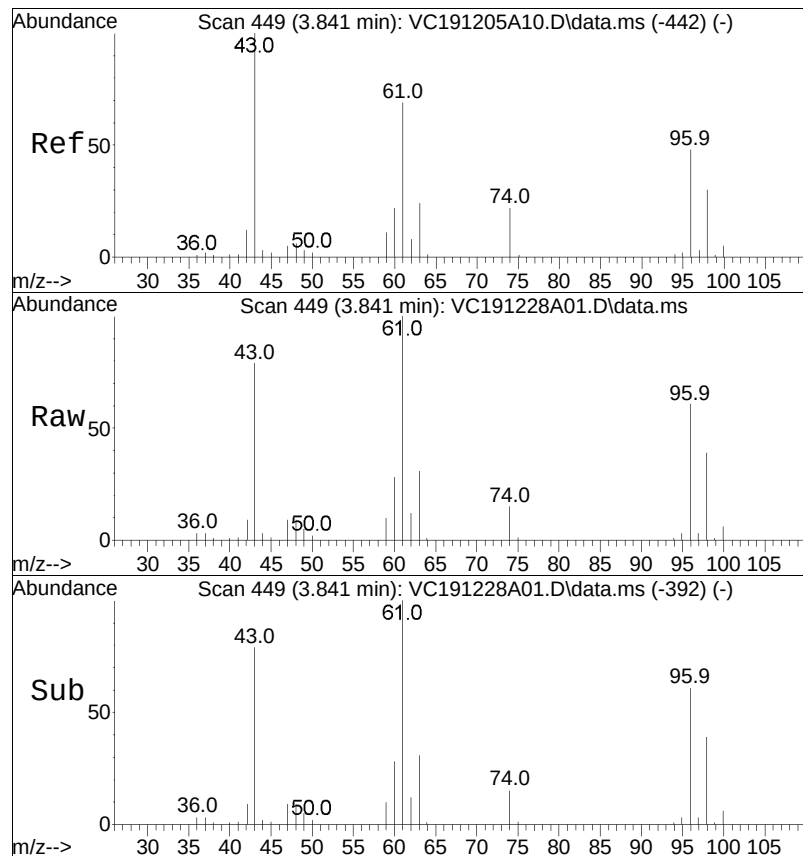




#18  
 trans-1,2-Dichloroethene  
 Concen: 41.34 ug/L  
 RT: 3.830 min Scan# 447  
 Delta R.T. 0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

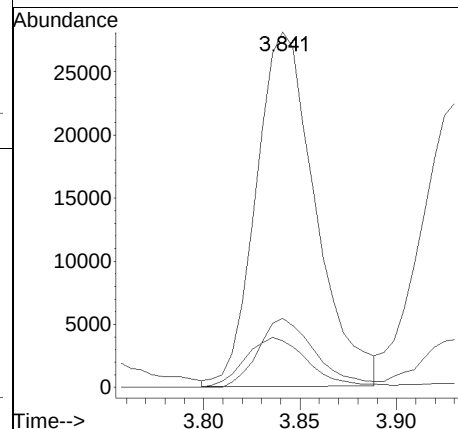
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 60297 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 172.2    | 81.6 169.4# |
| 98 63.0     | 41.5 86.1   |
| 63 52.8     | 26.1 54.1   |



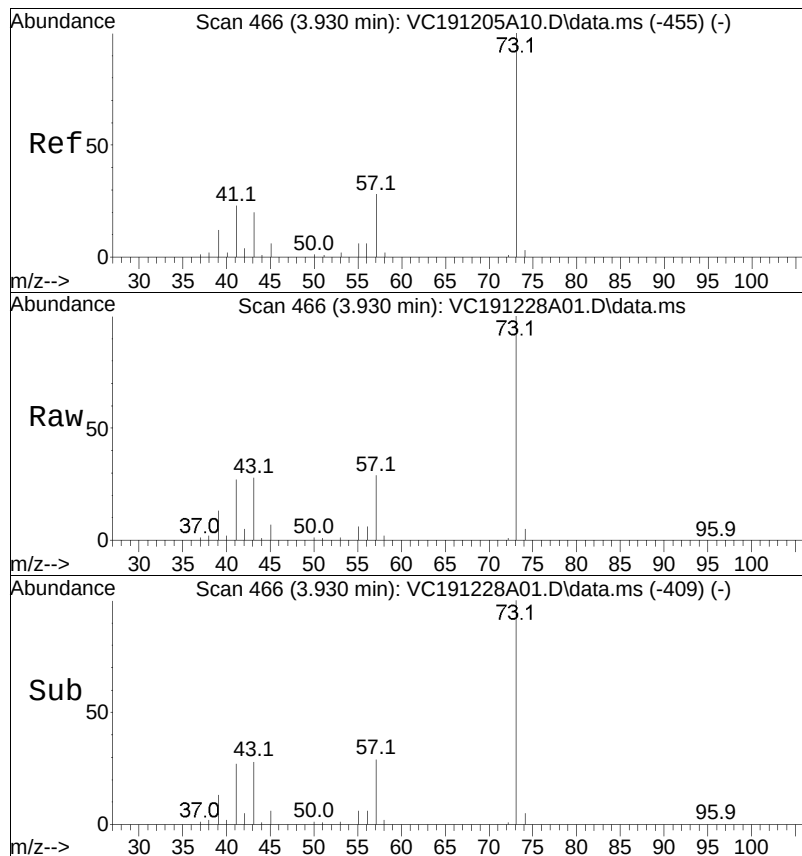


#19  
Methyl acetate  
Concen: 34.93 ug/L  
RT: 3.841 min Scan# 449  
Delta R.T. -0.000 min  
Lab File: VC191228A01.D  
Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 18.9  | 21.9  | 32.9# |
| 59      | 15.1  | 13.0  | 19.6  |







#20

Methyl tert-butyl ether

Concen: 39.70 ug/L

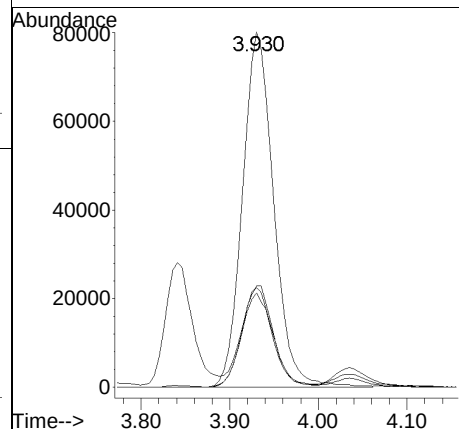
RT: 3.930 min Scan# 466

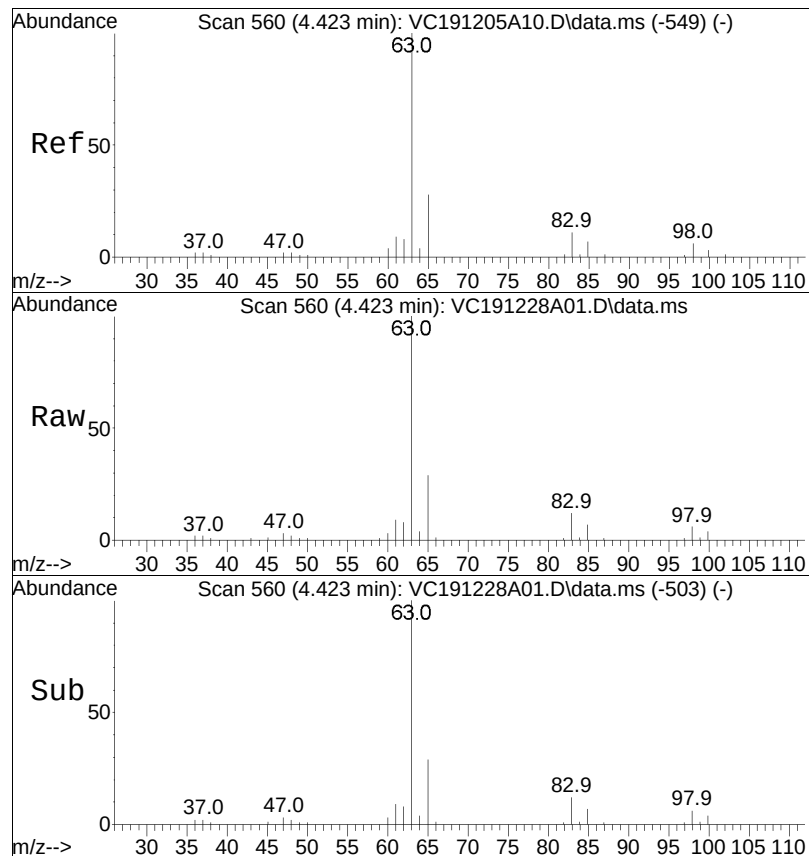
Delta R.T. 0.000 min

Lab File: VC191228A01.D

Acq: 28 Dec 2019 7:27 am

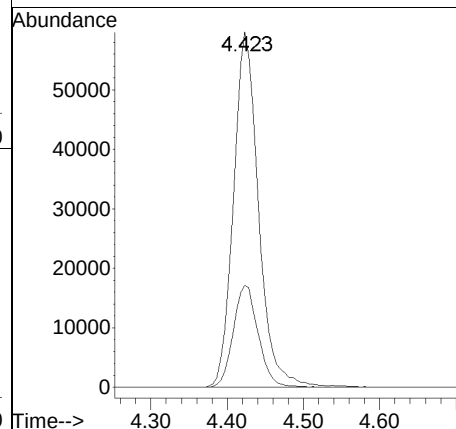
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 196754 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 57       | 28.8  | 13.3  | 27.7#  |
| 43       | 29.0  | 13.0  | 27.0#  |
| 41       | 26.8  | 13.5  | 28.1   |

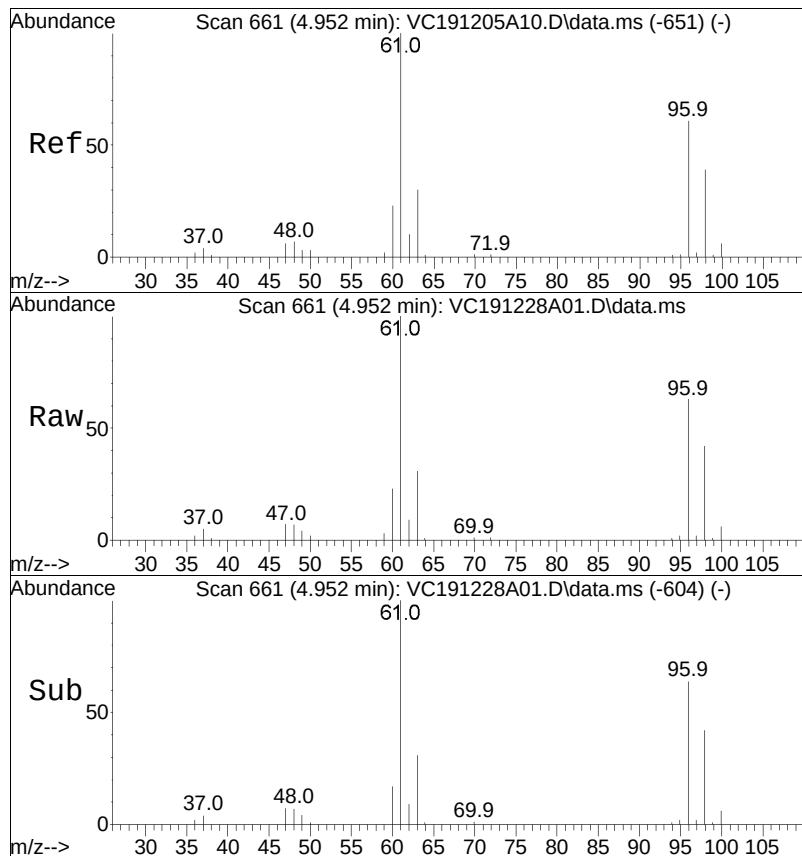




#23  
 1,1-Dichloroethane  
 Concen: 39.11 ug/L  
 RT: 4.423 min Scan# 560  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

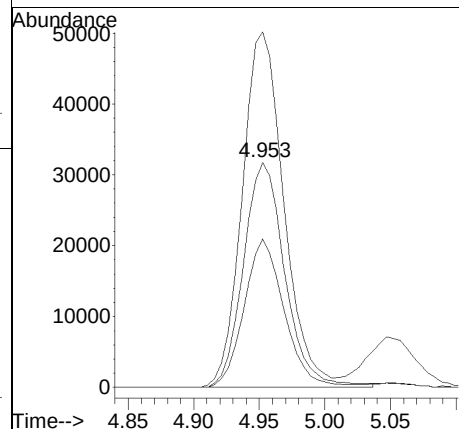
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 28.5  | 11.2  | 51.2  |
| 65      | 28.5  | 11.2  | 51.2  |

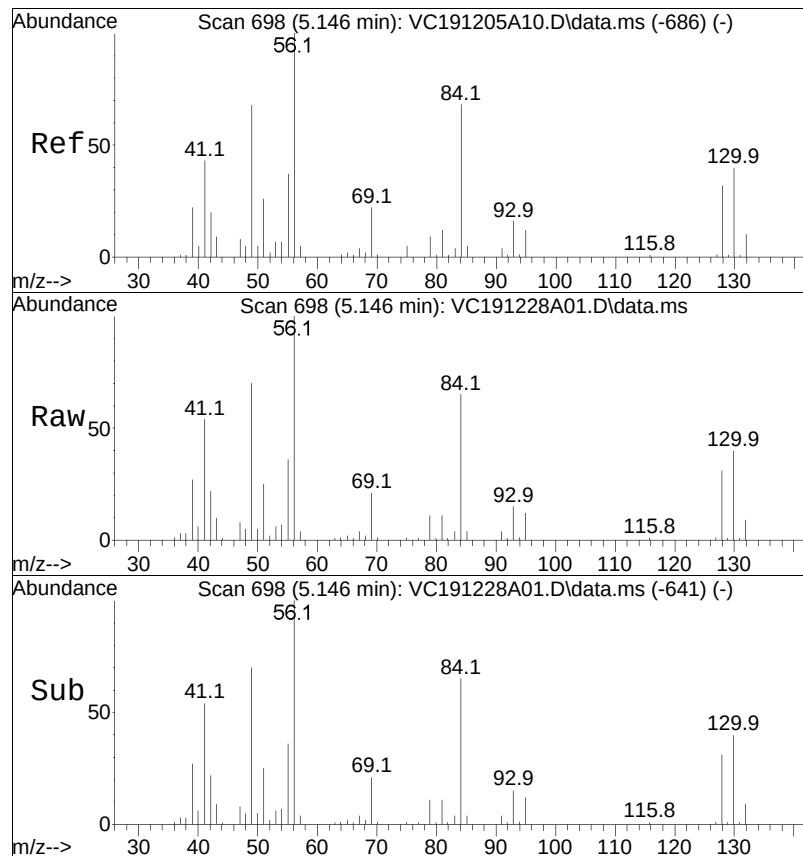




#28  
 cis-1,2-Dichloroethene  
 Concen: 40.41 ug/L  
 RT: 4.952 min Scan# 661  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

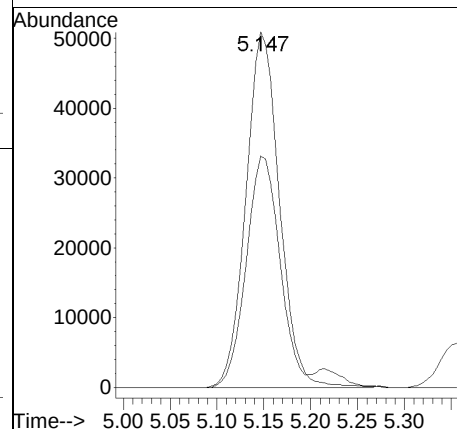
| Tgt Ion | Ratio | Resp  | Lower | Upper  |
|---------|-------|-------|-------|--------|
| 96      | 100   | 69875 |       |        |
| 61      | 157.7 |       | 89.6  | 134.4# |
| 98      | 63.6  |       | 51.5  | 77.3   |

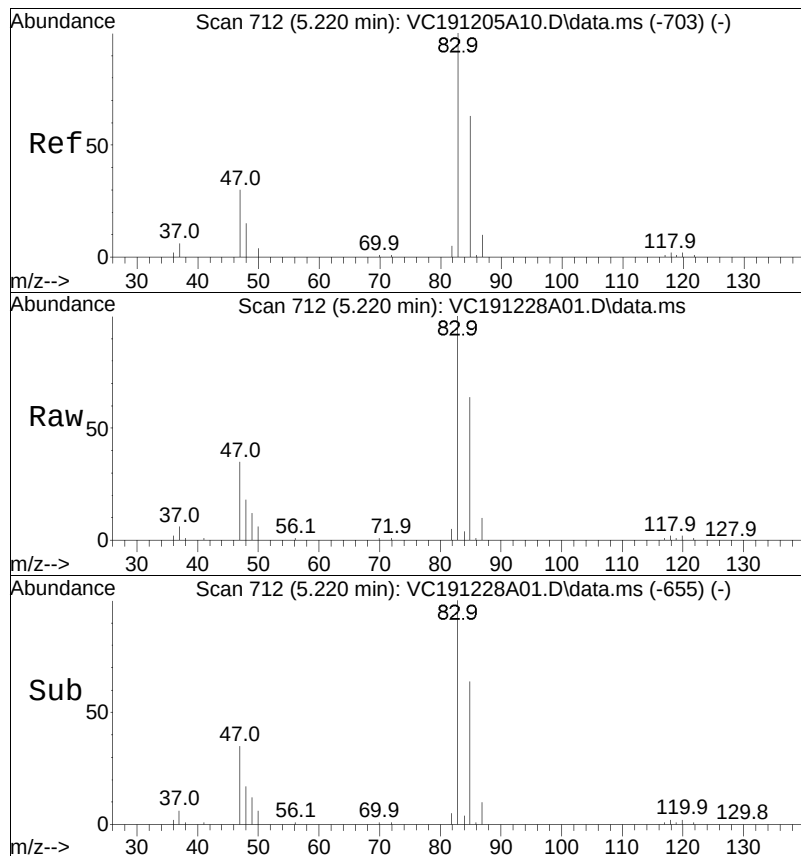




#31  
Cyclohexane  
Concen: 39.73 ug/L  
RT: 5.146 min Scan# 698  
Delta R.T. 0.000 min  
Lab File: VC191228A01.D  
Acq: 28 Dec 2019 7:27 am

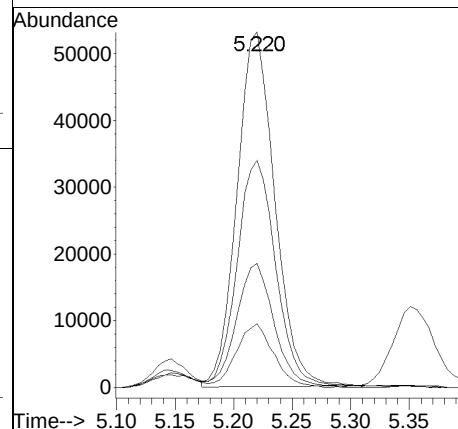
| Tgt | Ion  | Ratio | Lower  | Upper |
|-----|------|-------|--------|-------|
| 56  | 100  |       |        |       |
| 84  | 65.8 | 66.0  | 137.2# |       |

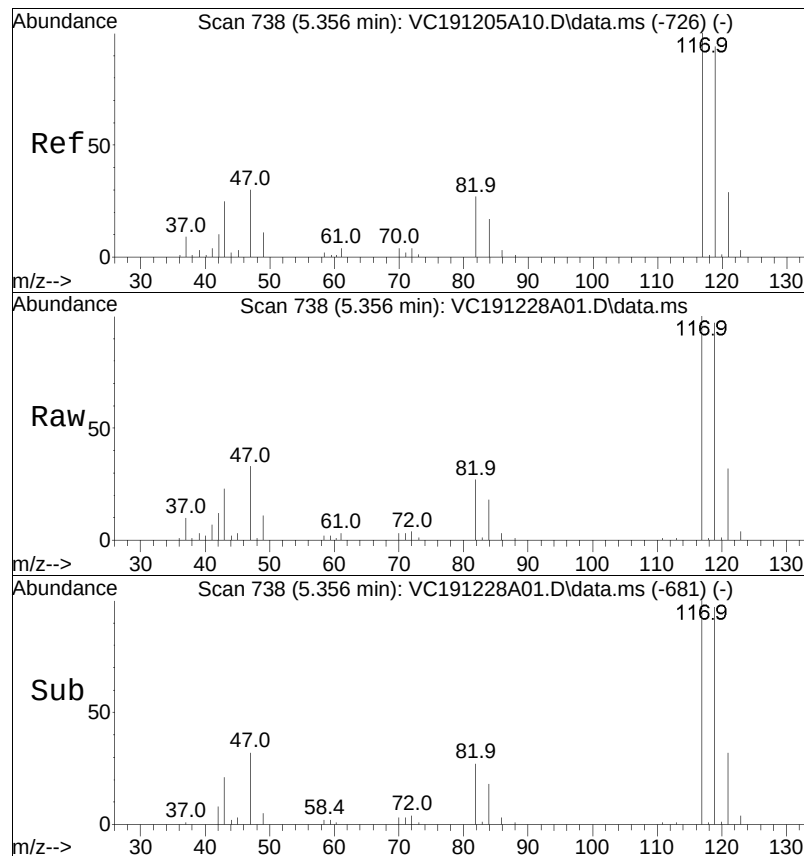




#32  
 Chloroform  
 Concen: 40.17 ug/L  
 RT: 5.220 min Scan# 712  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

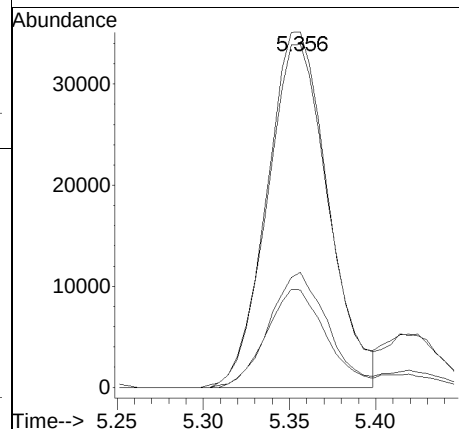
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 119605 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 65.3  | 42.8  | 89.0   |
| 47        | 34.9  | 15.0  | 31.2#  |
| 48        | 17.7  | 7.5   | 15.5#  |

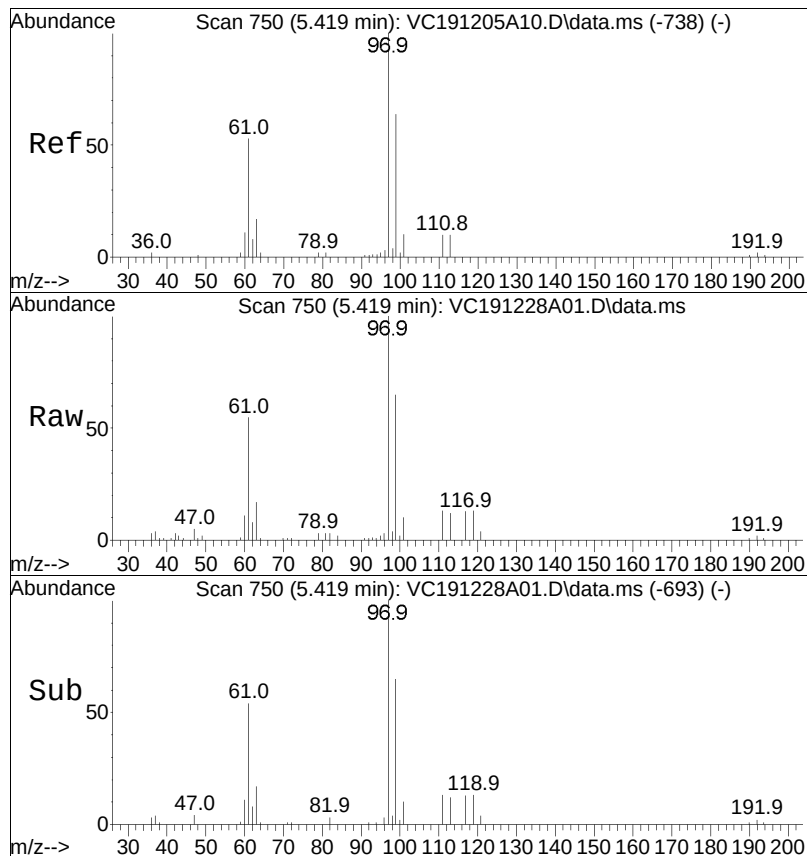




#34  
 Carbon tetrachloride  
 Concen: 41.43 ug/L  
 RT: 5.356 min Scan# 738  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

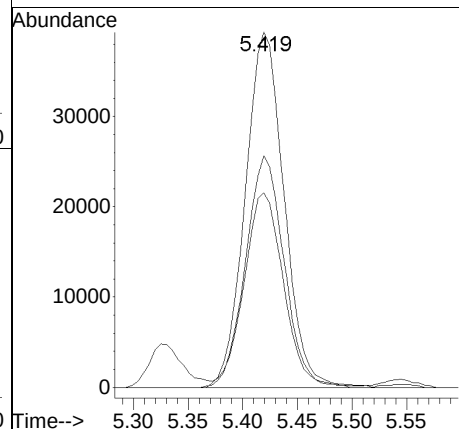
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 86942 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 96.6  | 62.5  | 129.9 |
| 121       | 30.9  | 20.2  | 41.9  |
| 82        | 27.1  | 15.5  | 32.1  |

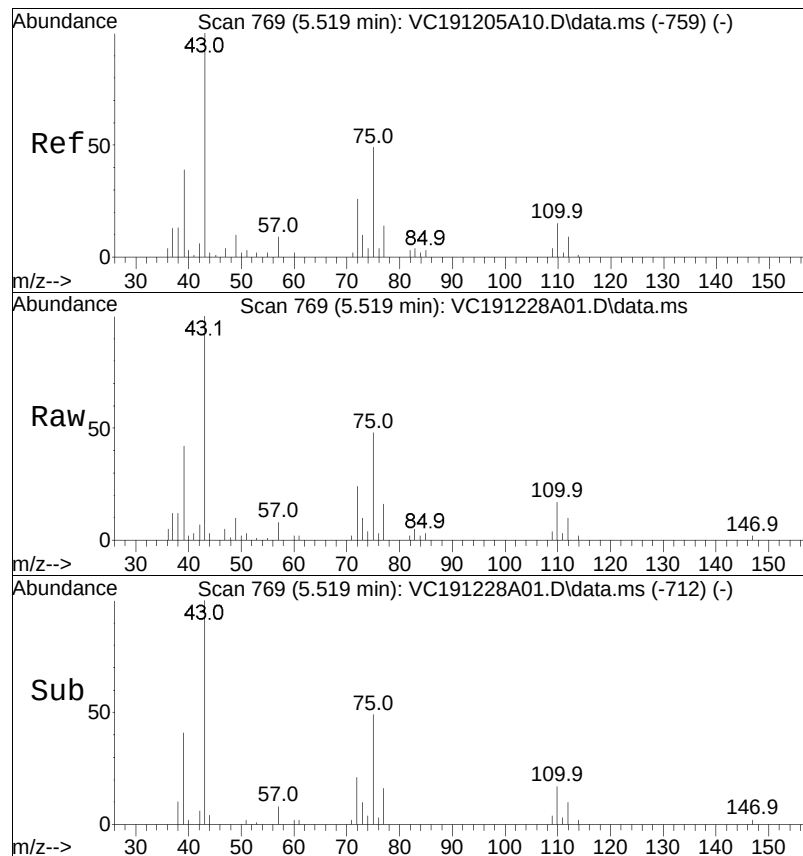




#37  
 1,1,1-Trichloroethane  
 Concen: 40.64 ug/L  
 RT: 5.419 min Scan# 750  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

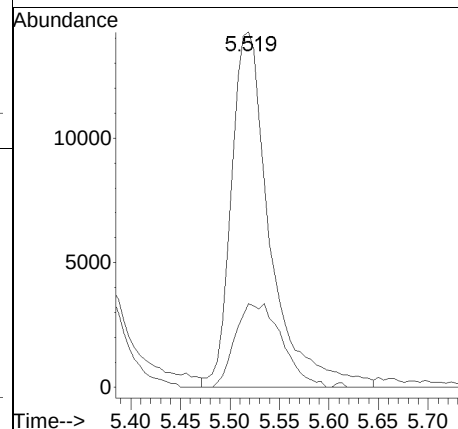
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 97    | Resp: | 97284 |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 64.7  | 41.2  | 85.6  |
| 61        | 55.6  | 27.8  | 57.8  |
| 61        | 55.6  | 27.8  | 57.8  |



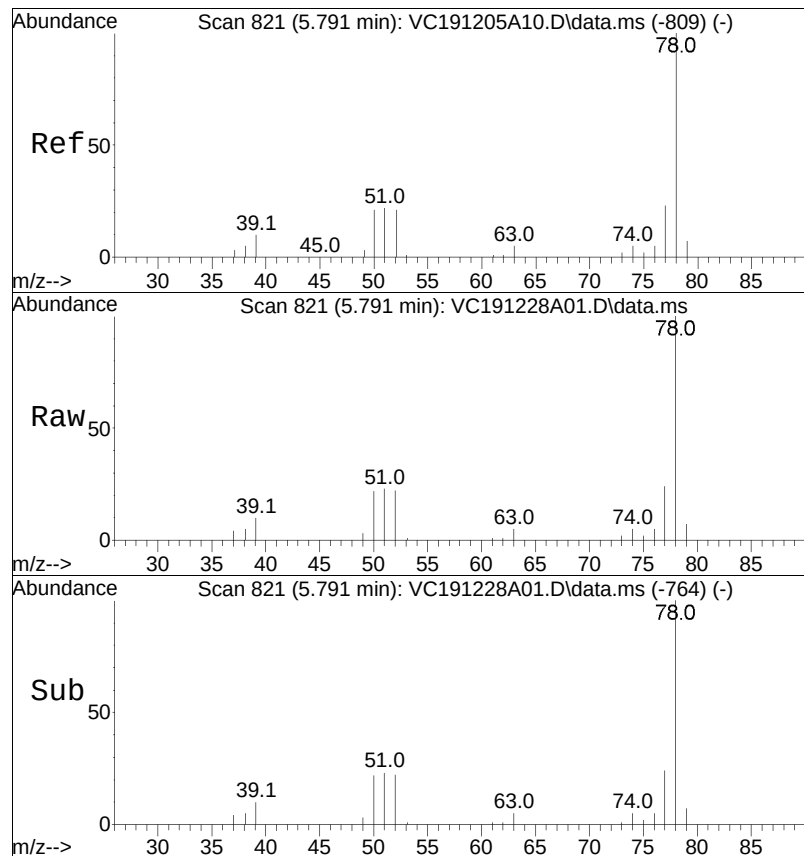


#39  
 2-Butanone  
 Concen: 34.11 ug/L M4  
 RT: 5.519 min Scan# 769  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 28.5  | 33.3  | 49.9# |

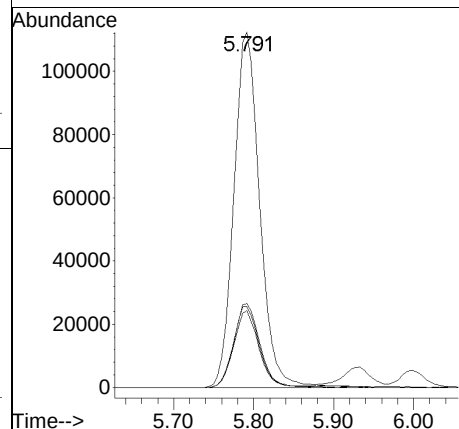


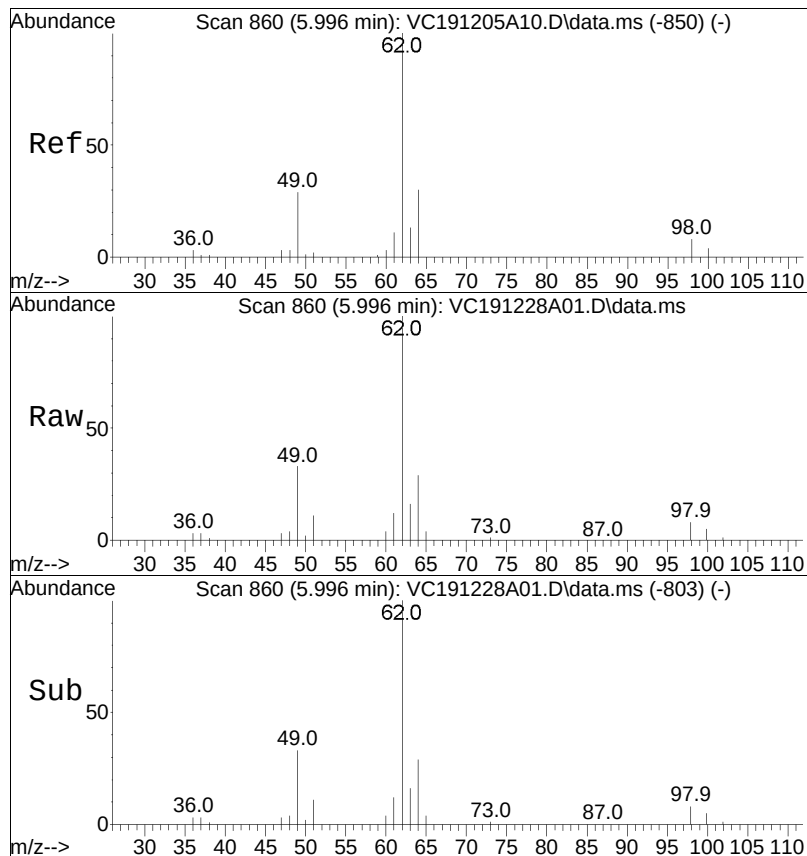




#41  
Benzene  
Concen: 39.58 ug/L  
RT: 5.791 min Scan# 821  
Delta R.T. 0.000 min  
Lab File: VC191228A01.D  
Acq: 28 Dec 2019 7:27 am

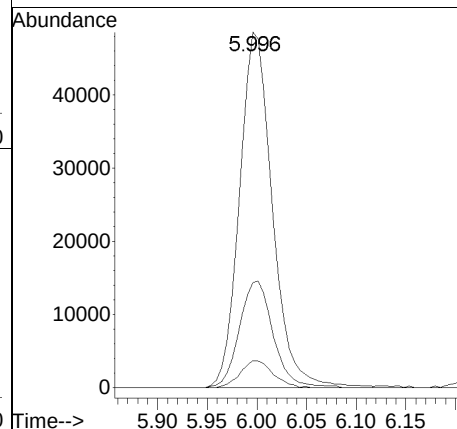
|             |              |
|-------------|--------------|
| Tgt Ion: 78 | Resp: 252434 |
| Ion Ratio   | Lower Upper  |
| 78 100      |              |
| 77 23.7     | 15.3 31.9    |
| 51 22.7     | 9.8 20.4#    |
| 52 21.0     | 9.0 18.8#    |

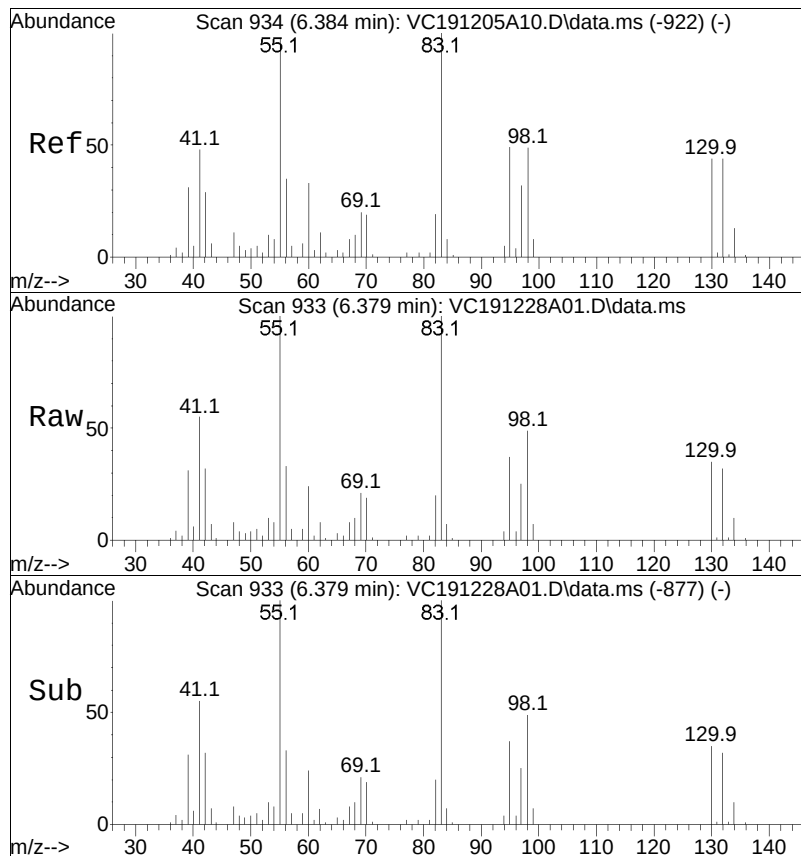




#44  
 1,2-Dichloroethane  
 Concen: 38.19 ug/L  
 RT: 5.996 min Scan# 860  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

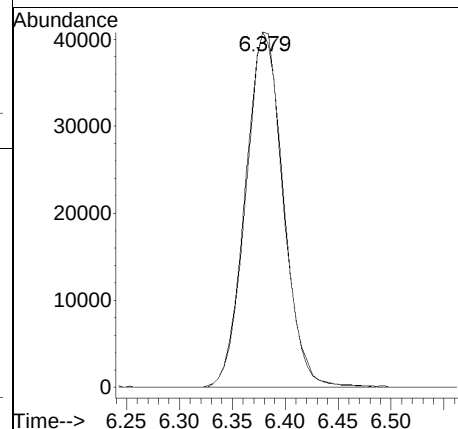
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 30.6  | 12.1  | 52.1  |
| 98      | 7.4   | 0.0   | 29.9  |

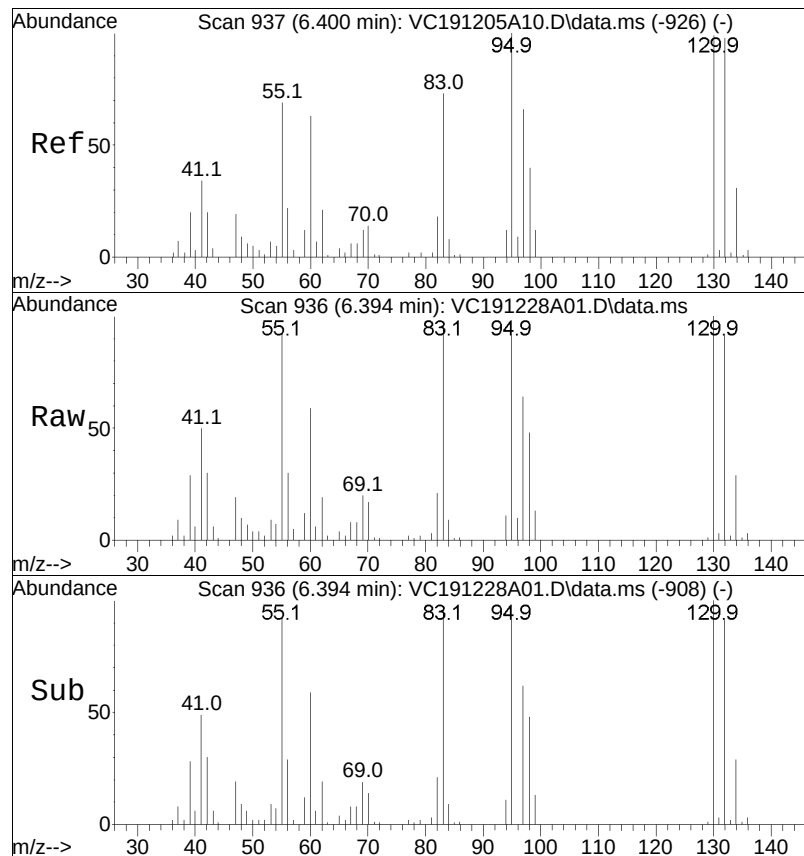




#47  
 Methyl cyclohexane  
 Concen: 41.74 ug/L  
 RT: 6.379 min Scan# 933  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

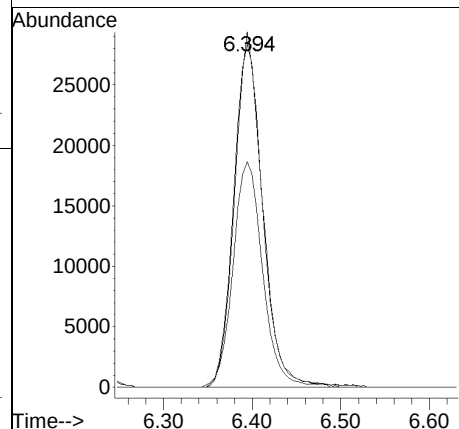
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 100.5 | 53.8  | 80.6# |

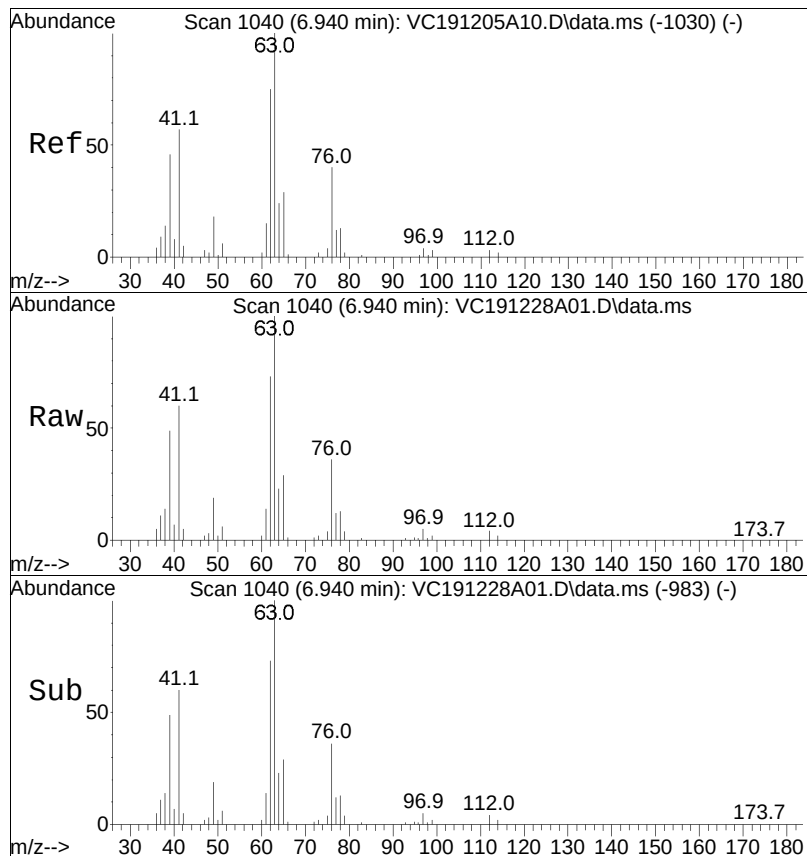




#48  
 Trichloroethene  
 Concen: 41.28 ug/L  
 RT: 6.394 min Scan# 936  
 Delta R.T. -0.006 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

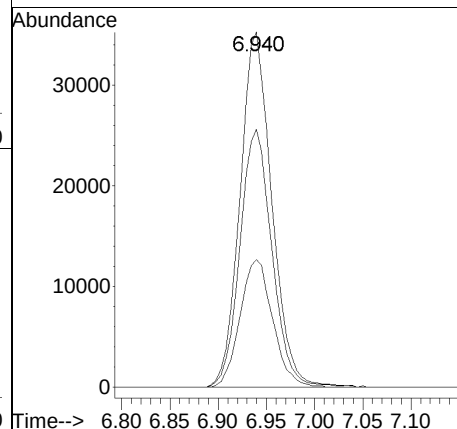
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 65068 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 97        | 67.0  | 54.6  | 82.0  |
| 130       | 99.1  | 89.0  | 133.6 |

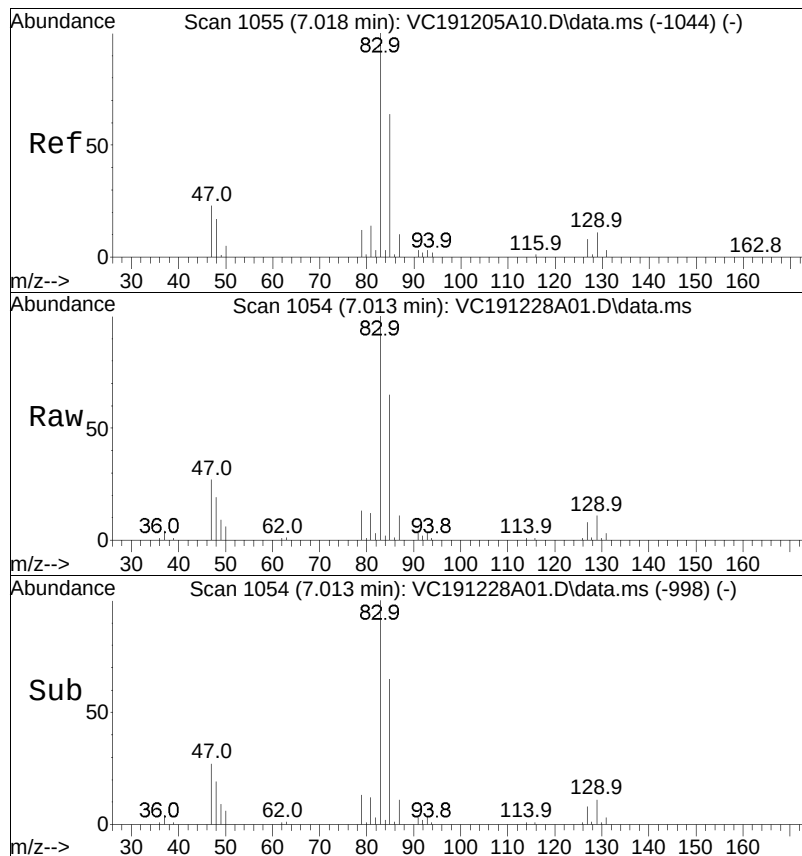




#51  
 1,2-Dichloropropane  
 Concen: 38.95 ug/L  
 RT: 6.940 min Scan# 1040  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

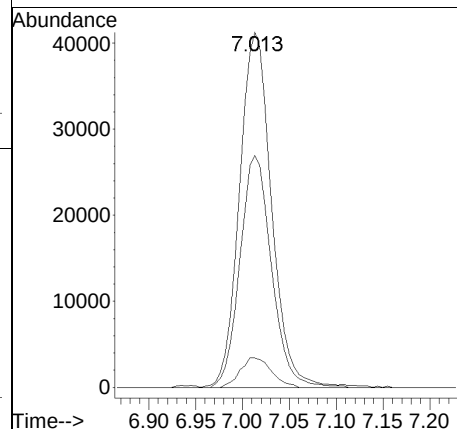
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 62      | 73.1  | 57.8  | 86.6  |
| 76      | 37.0  | 37.1  | 55.7# |

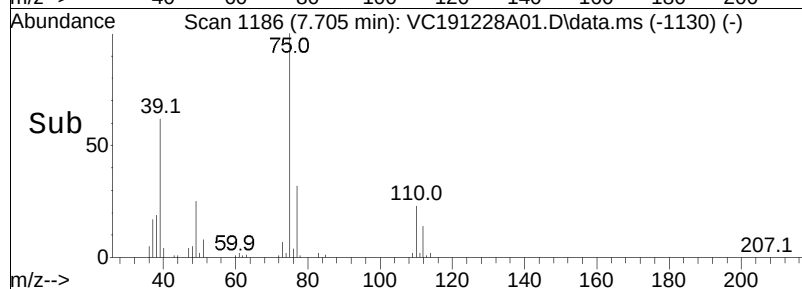
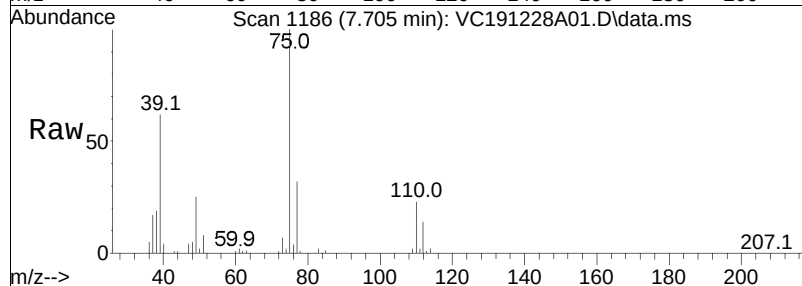
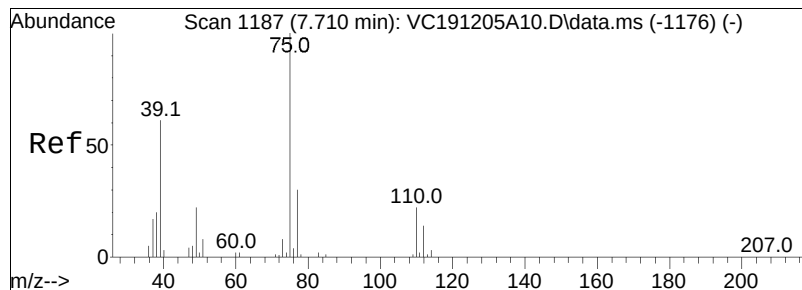




#54  
 Bromodichloromethane  
 Concen: 41.42 ug/L  
 RT: 7.013 min Scan# 1054  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

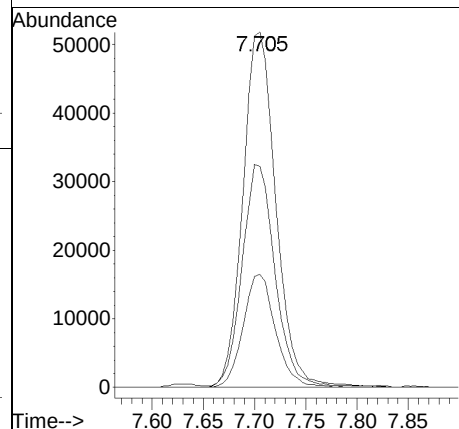
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 98307 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 64.2  | 51.5  | 77.3  |
| 127       | 8.1   | 7.6   | 11.4  |

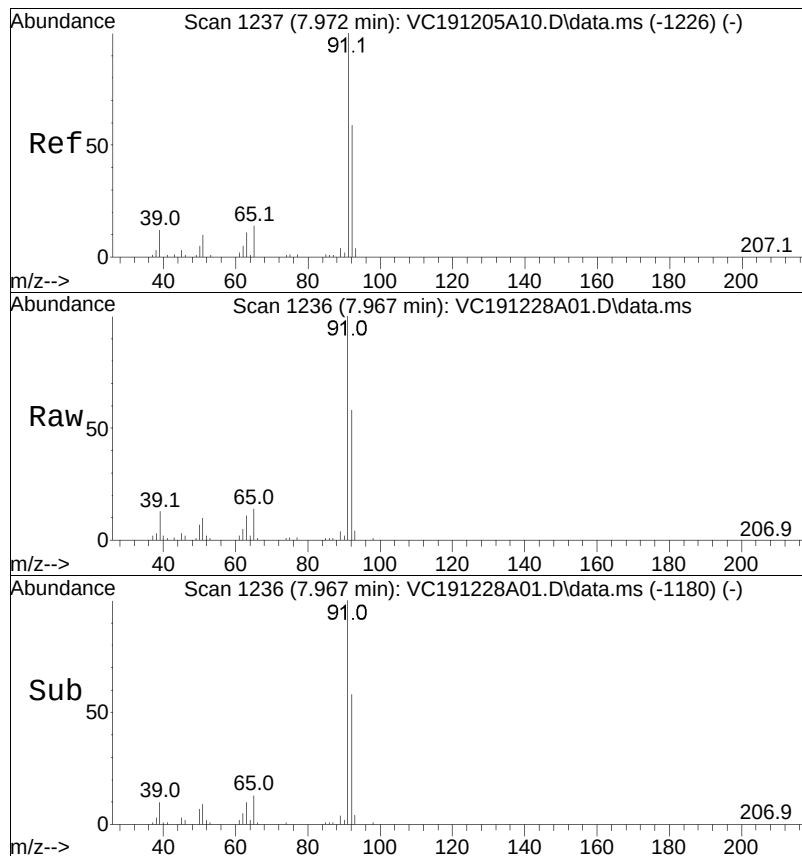




#58  
 cis-1,3-Dichloropropene  
 Concen: 38.51 ug/L  
 RT: 7.705 min Scan# 1186  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

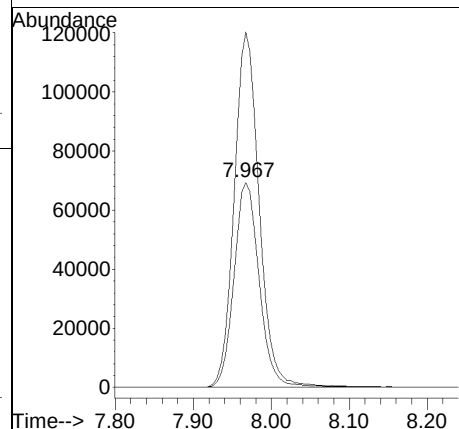
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.1  | 25.1  | 37.7  |
| 39      | 61.9  | 35.0  | 52.6  |



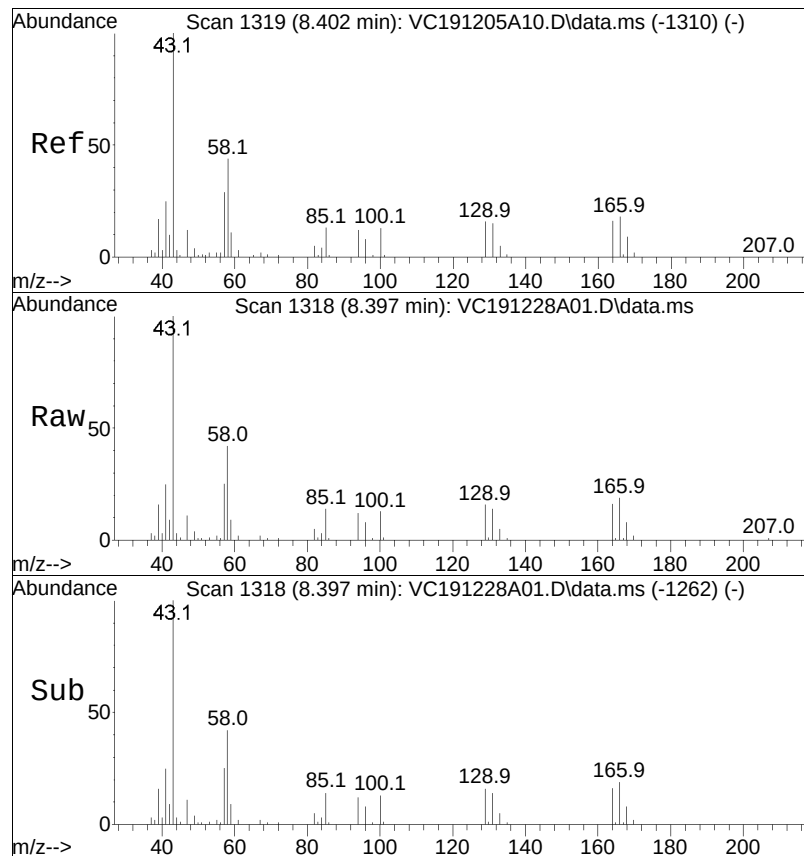


#61  
 Toluene  
 Concen: 37.48 ug/L  
 RT: 7.967 min Scan# 1236  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 170.9 | 137.8 | 206.6 |

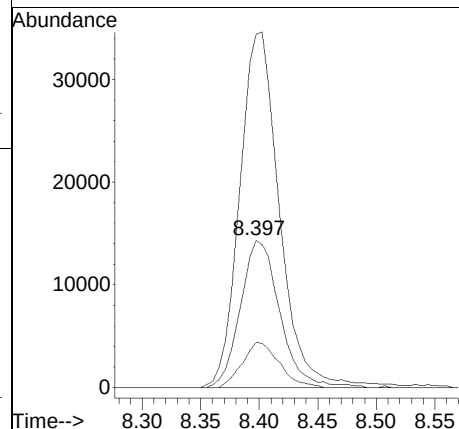


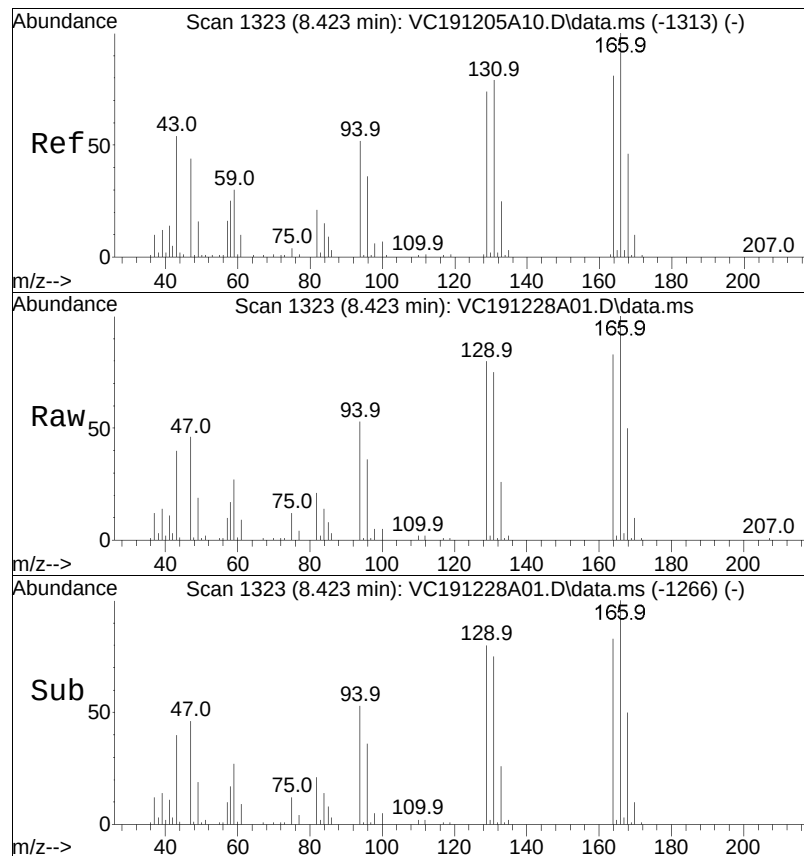




#62  
 4-Methyl-2-pentanone  
 Concen: 33.87 ug/L  
 RT: 8.397 min Scan# 1318  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

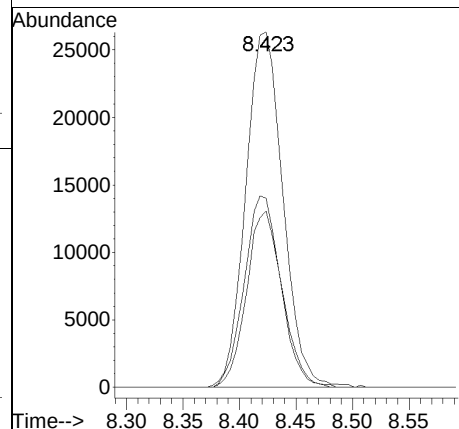
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   |       |       |       |
| 100 | 28.8  | 36.9  | 55.3# |       |
| 43  | 245.0 | 205.4 | 308.2 |       |

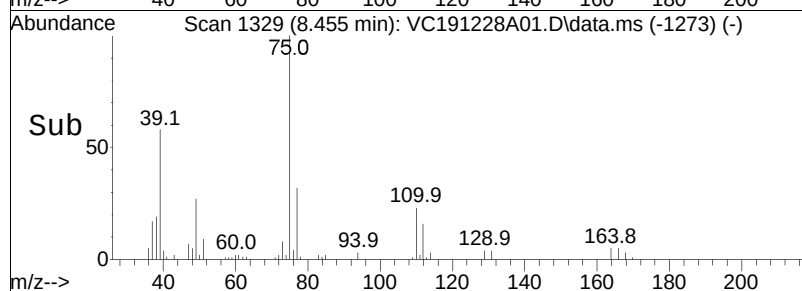
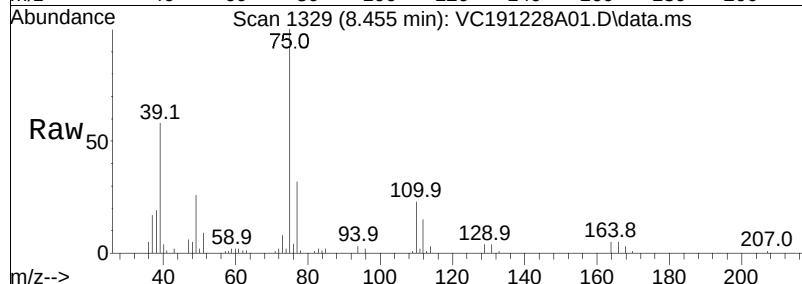
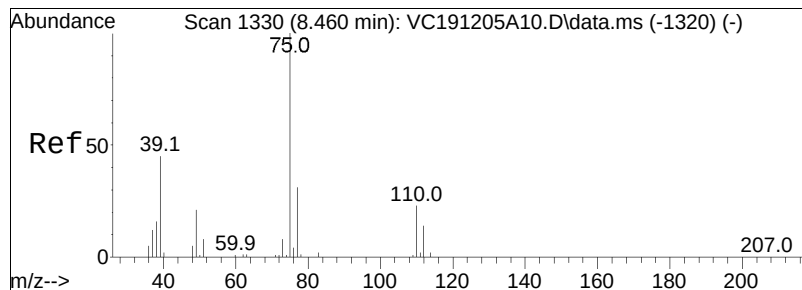




#63  
 Tetrachloroethene  
 Concen: 37.75 ug/L  
 RT: 8.423 min Scan# 1323  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

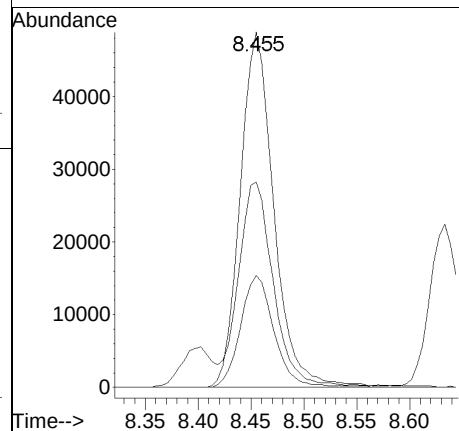
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:166 | Resp: | 60491 |
| Ion | Ratio   | Lower | Upper |
| 166 | 100     |       |       |
| 168 | 48.0    | 26.4  | 66.4  |
| 94  | 52.6    | 21.5  | 61.5  |

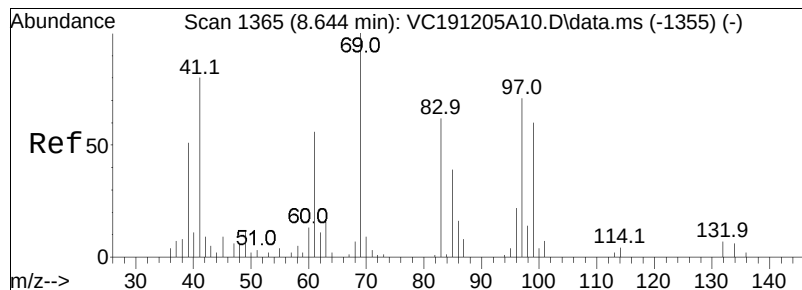




#65  
 trans-1,3-Dichloropropene  
 Concen: 36.96 ug/L  
 RT: 8.455 min Scan# 1329  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

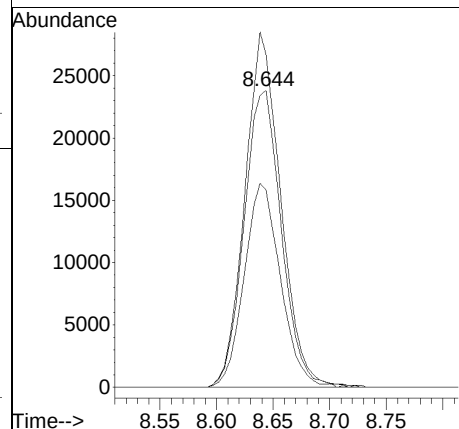
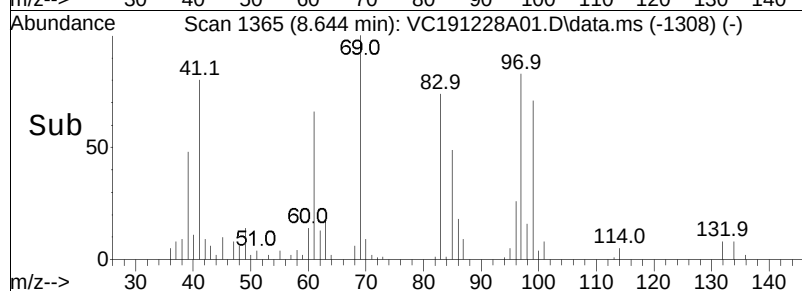
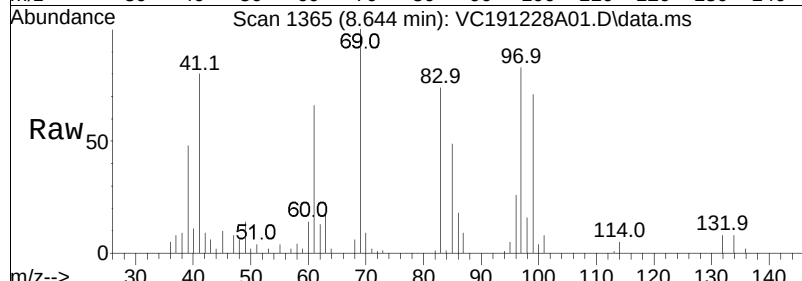
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.2  | 11.7  | 51.7  |
| 39      | 58.6  | 23.8  | 63.8  |

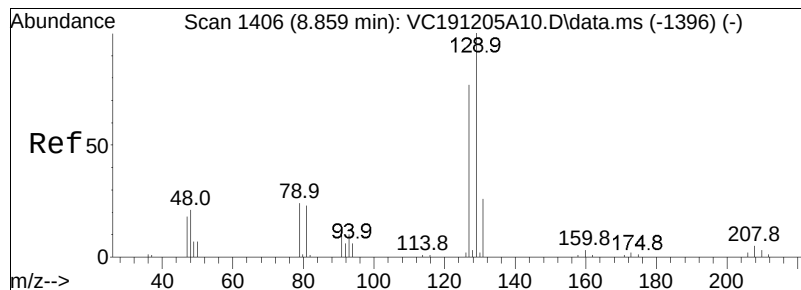




#68  
 1,1,2-Trichloroethane  
 Concen: 39.56 ug/L  
 RT: 8.644 min Scan# 1365  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

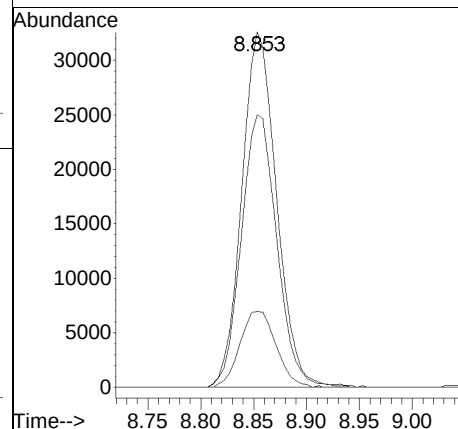
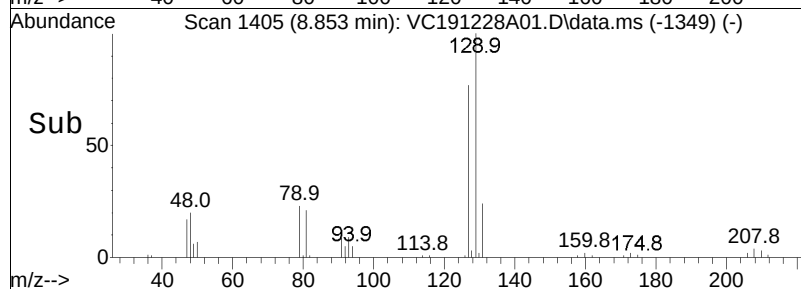
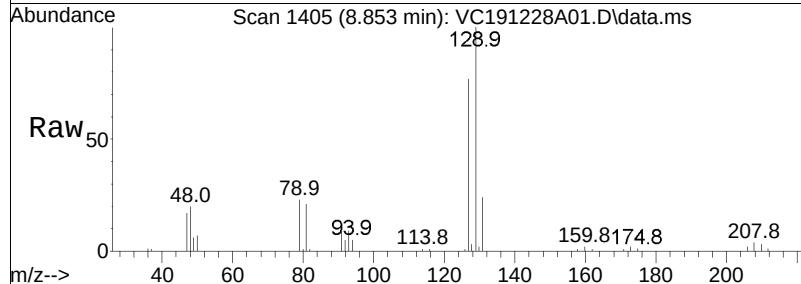
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 97      | 114.2 | 98.7  | 138.7 |
| 85      | 66.6  | 47.1  | 87.1  |

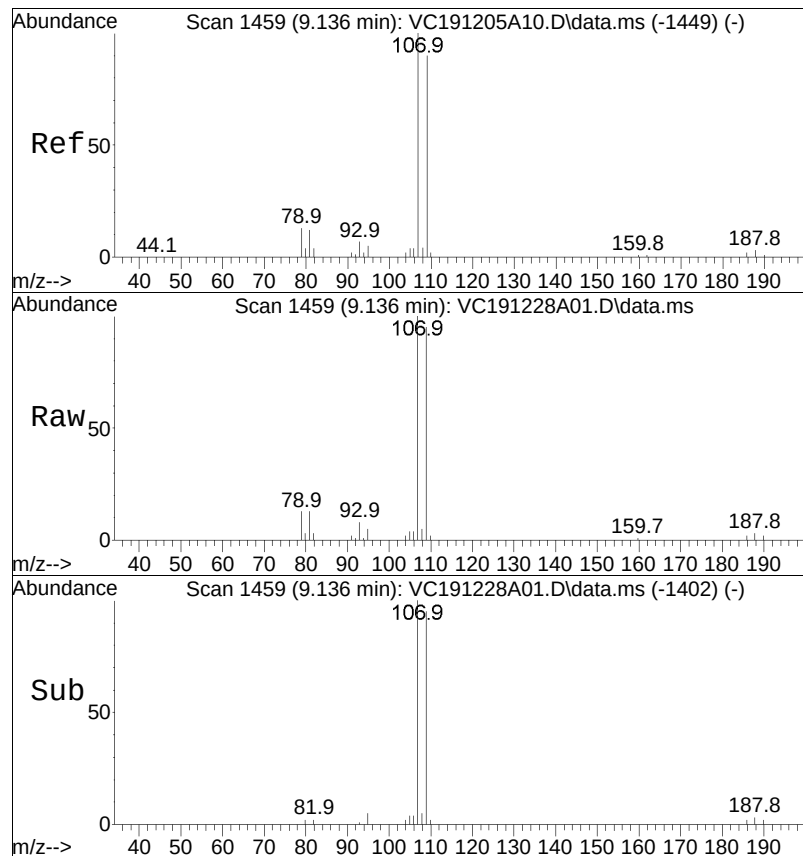




#69  
 Chlorodibromomethane  
 Concen: 39.82 ug/L  
 RT: 8.853 min Scan# 1405  
 Delta R.T. -0.006 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

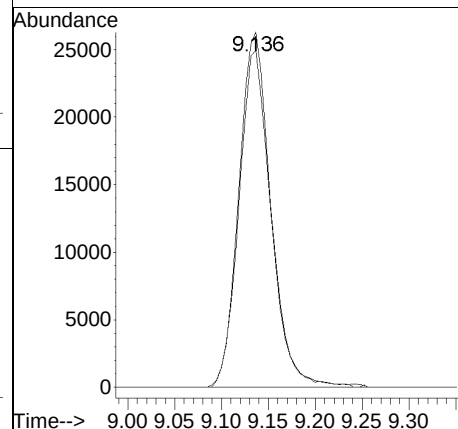
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 81      | 22.3  | 0.0   | 37.3  |
| 127     | 78.2  | 57.7  | 97.7  |

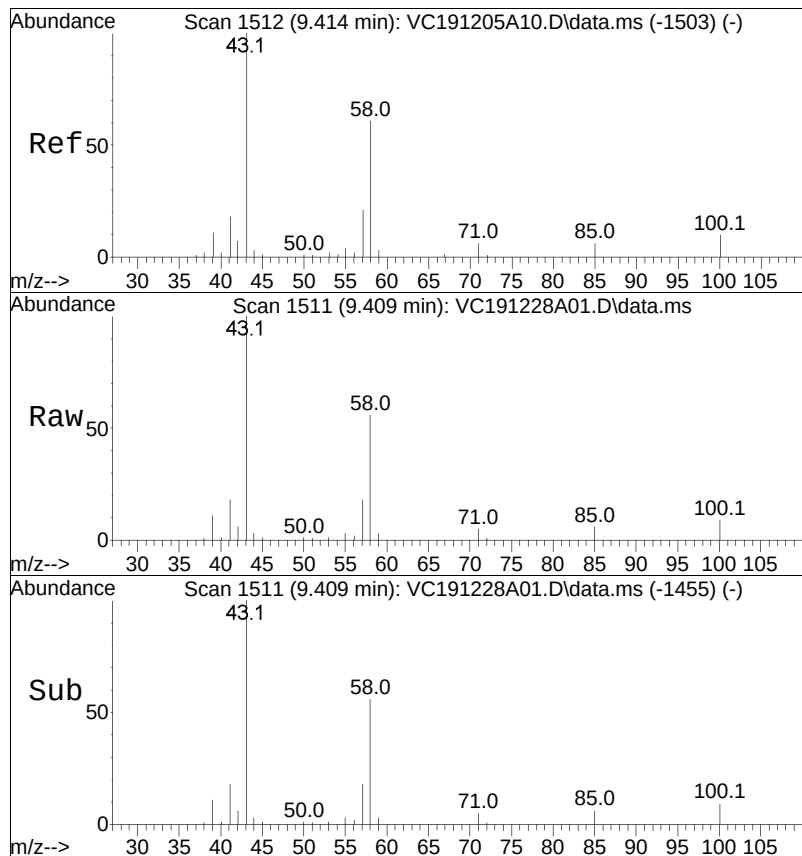




#71  
 1,2-Dibromoethane  
 Concen: 38.86 ug/L  
 RT: 9.136 min Scan# 1459  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

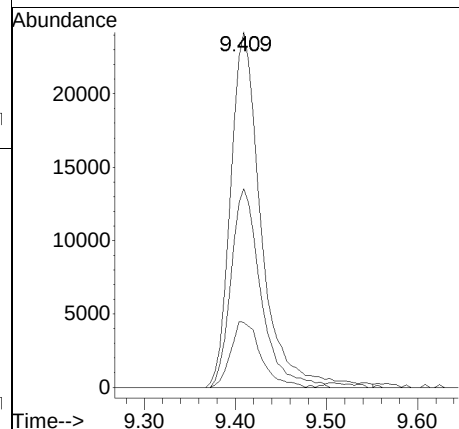
Tgt Ion:107 Resp: 62828  
 Ion Ratio Lower Upper  
 107 100  
 109 94.5 75.8 113.8

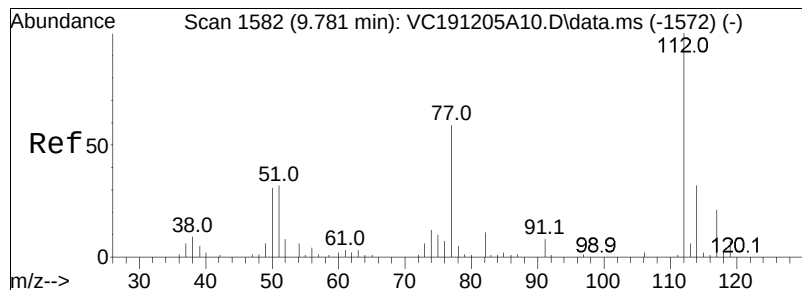




#72  
 2-Hexanone  
 Concen: 32.36 ug/L  
 RT: 9.409 min Scan# 1511  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

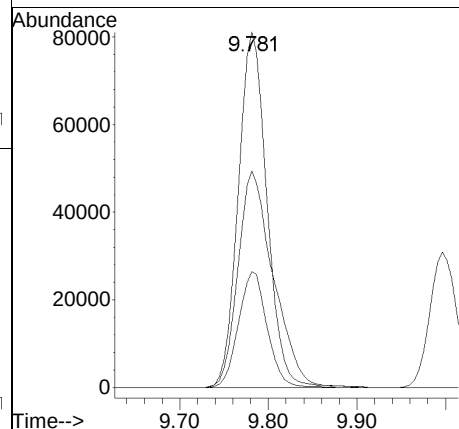
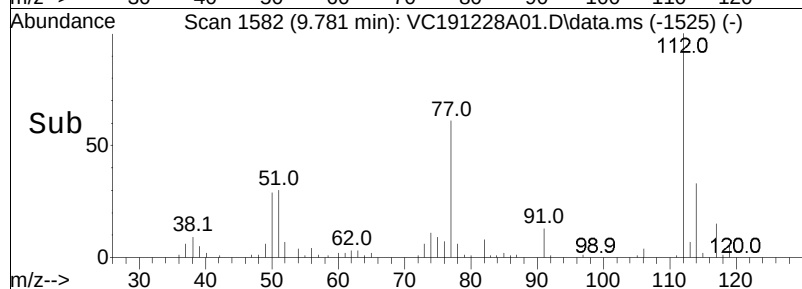
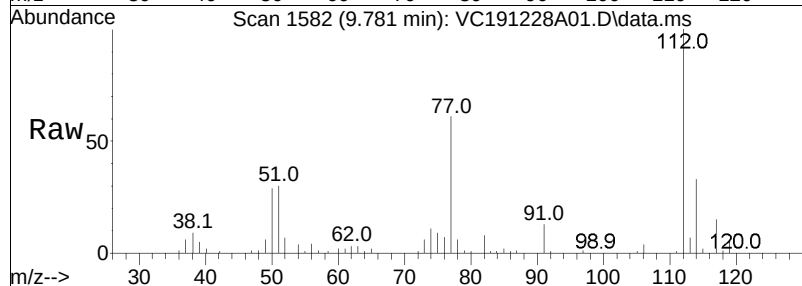
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 56826 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 54.5  | 44.4  | 66.6  |
| 57        | 18.2  | 15.6  | 23.4  |



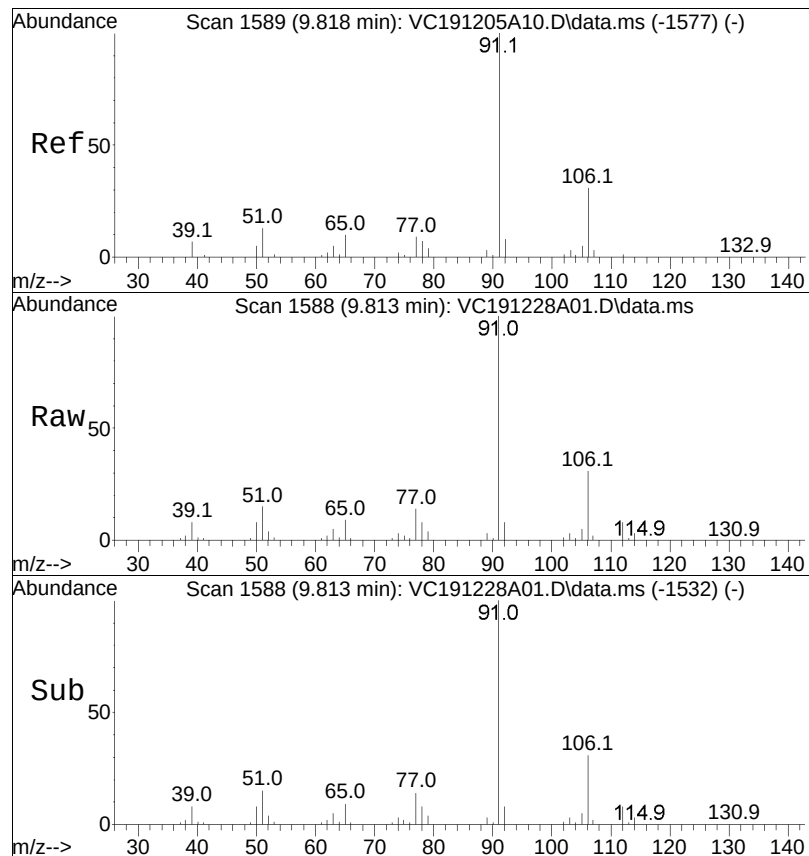


#73  
 Chlorobenzene  
 Concen: 37.16 ug/L  
 RT: 9.781 min Scan# 1582  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:112 | Resp: | 182422 |
| Ion | Ratio   | Lower | Upper  |
| 112 | 100     |       |        |
| 77  | 74.8    | 51.9  | 77.9   |
| 114 | 32.4    | 25.8  | 38.6   |

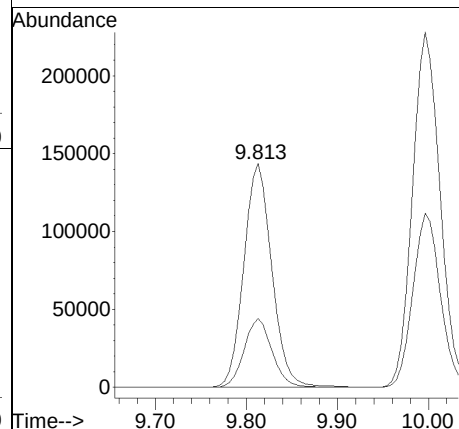


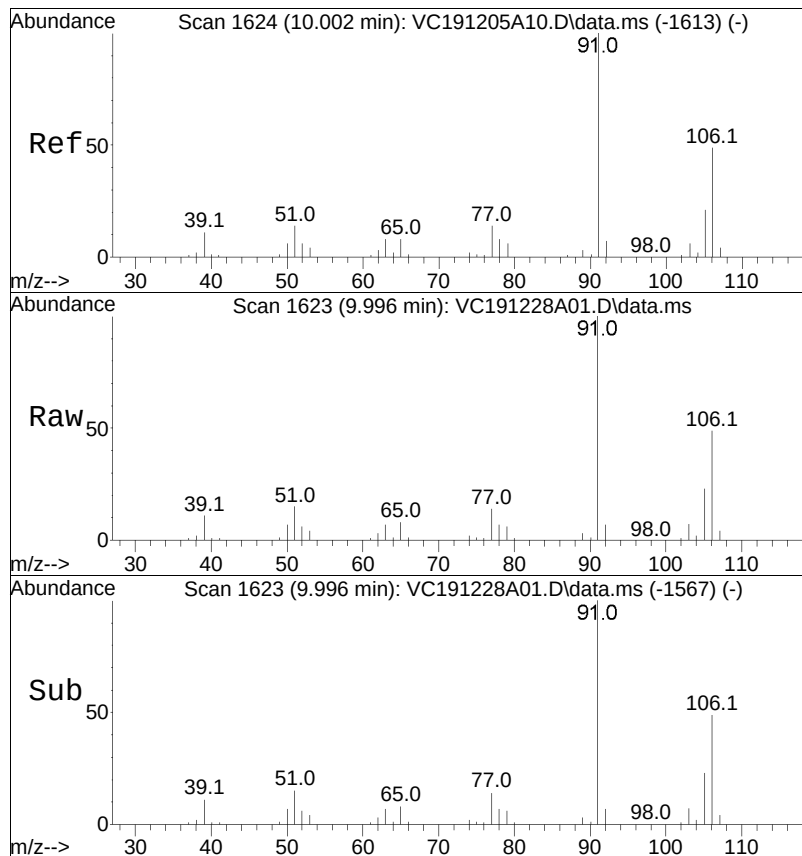




#74  
 Ethylbenzene  
 Concen: 38.24 ug/L  
 RT: 9.813 min Scan# 1588  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

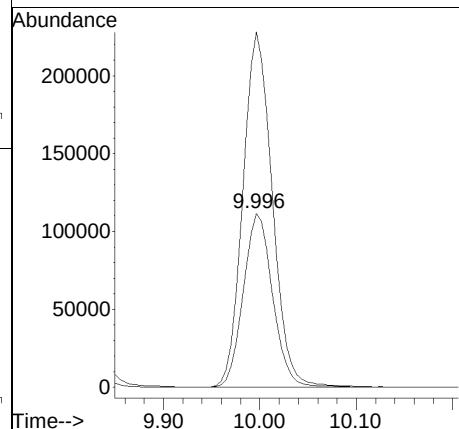
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 308330 |       |       |
| 106 | 30.6 | 26.0   | 39.0  |       |

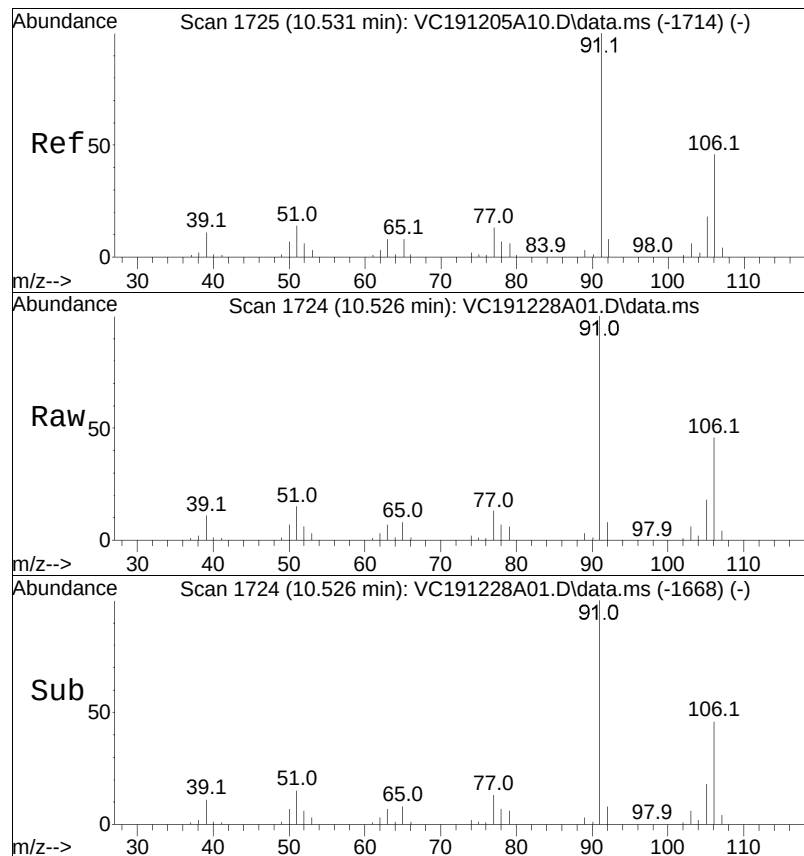




#76  
 p/m Xylene  
 Concen: 78.30 ug/L  
 RT: 9.996 min Scan# 1623  
 Delta R.T. -0.006 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

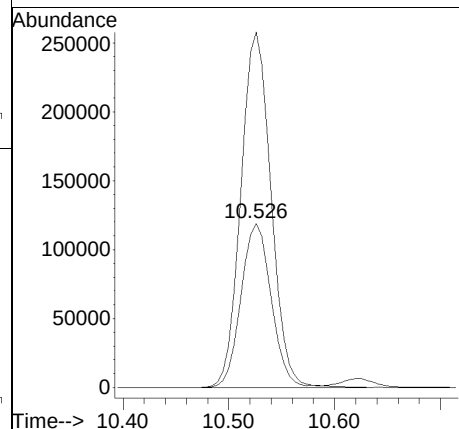
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 106   | 100   |       |       |
| 91  | 203.8 | 152.9 | 229.3 |       |

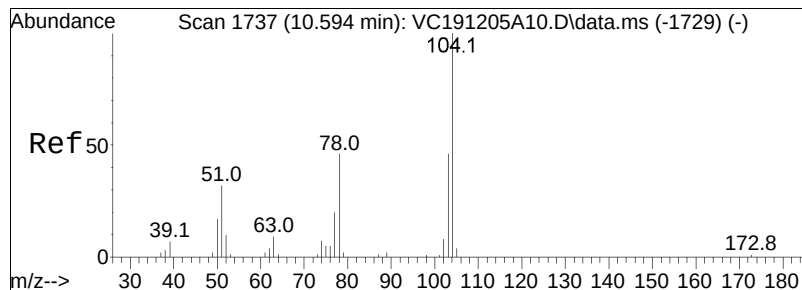




#77  
 o Xylene  
 Concen: 80.10 ug/L  
 RT: 10.526 min Scan# 1724  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 214.6 | 161.5 | 242.3 |       |





#78

Styrene

Concen: 81.87 ug/L

RT: 10.589 min Scan# 1736

Delta R.T. -0.005 min

Lab File: VC191228A01.D

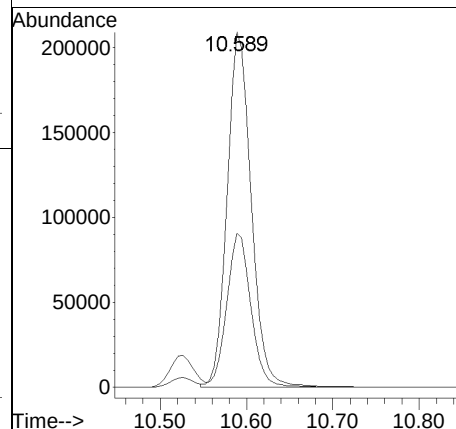
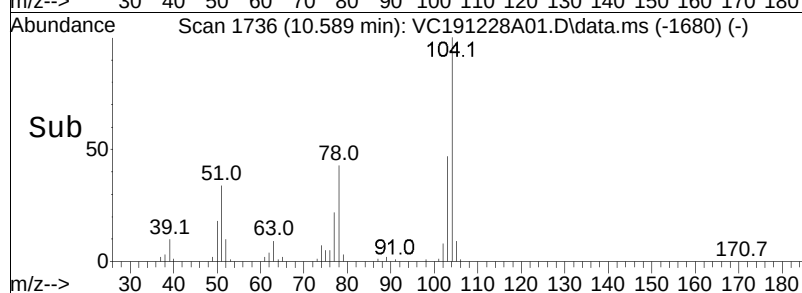
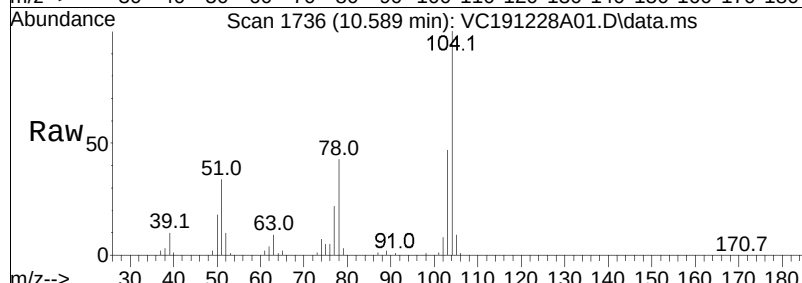
Acq: 28 Dec 2019 7:27 am

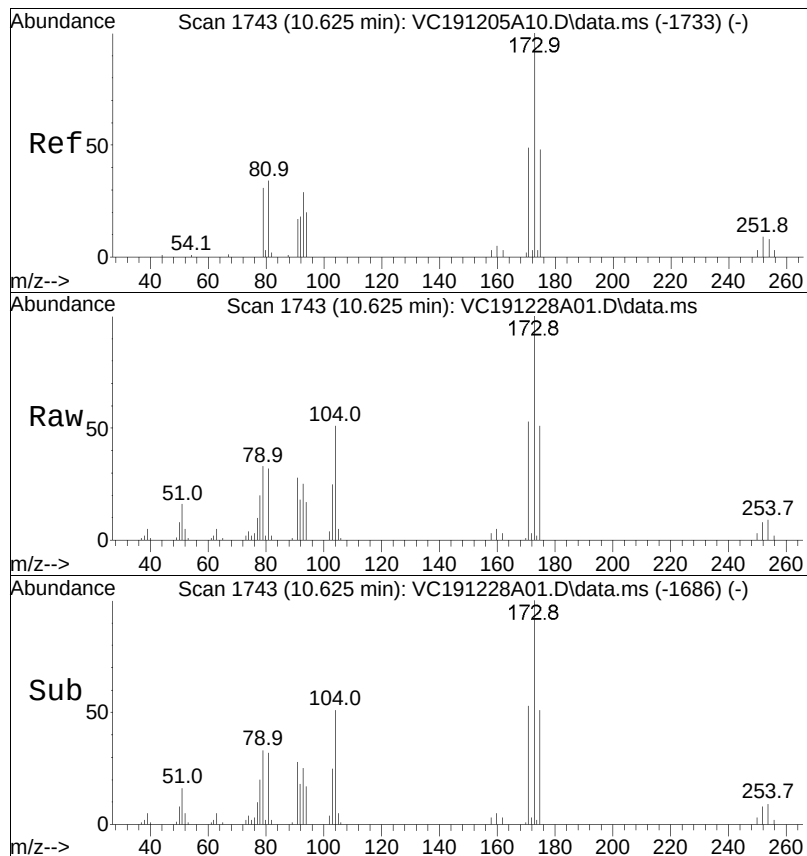
Tgt Ion:104 Resp: 405605

Ion Ratio Lower Upper

104 100

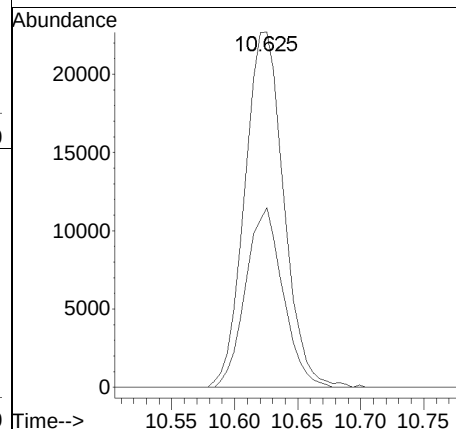
78 43.4 30.7 46.1

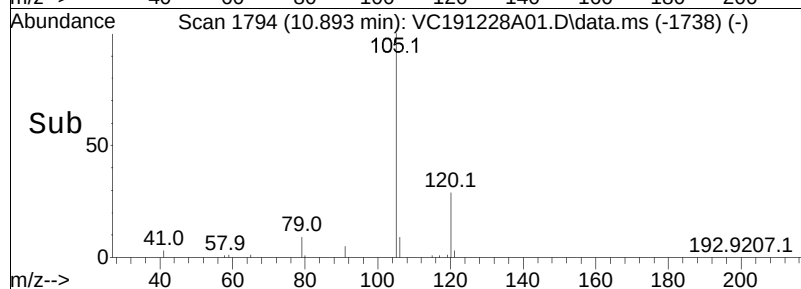
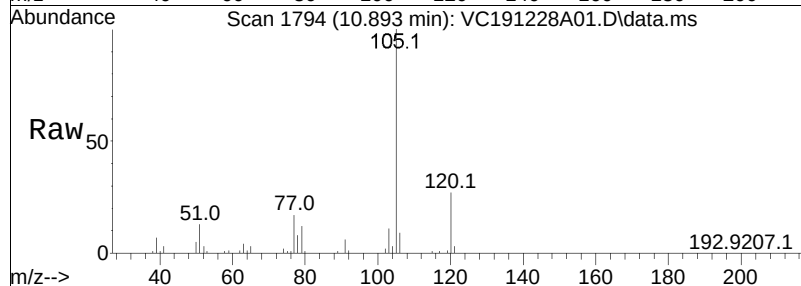
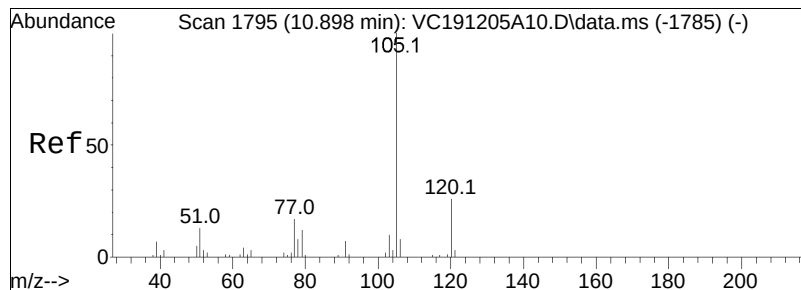




#80  
 Bromoform  
 Concen: 38.96 ug/L  
 RT: 10.625 min Scan# 1743  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

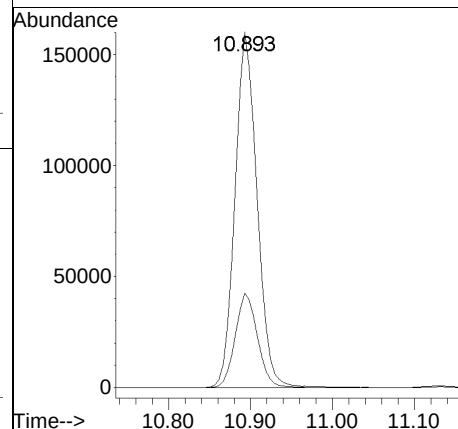
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.3  | 29.1  | 69.1  |

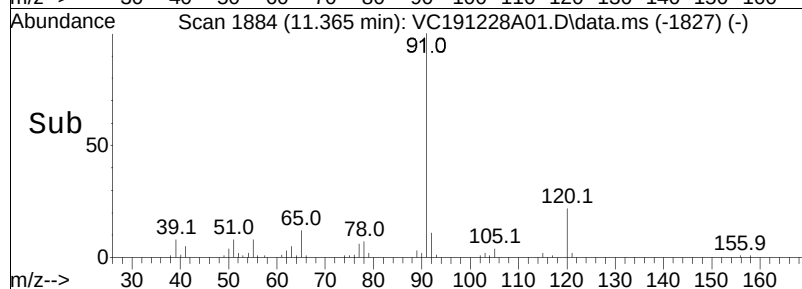
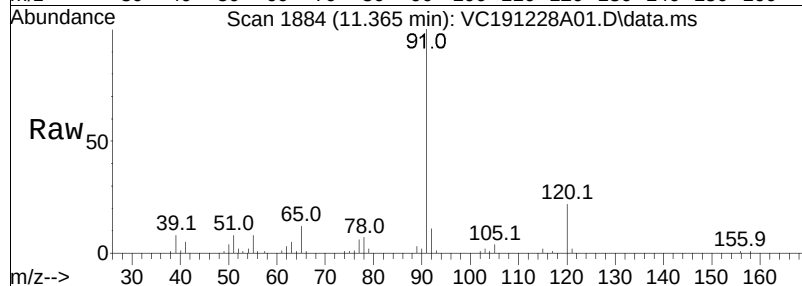
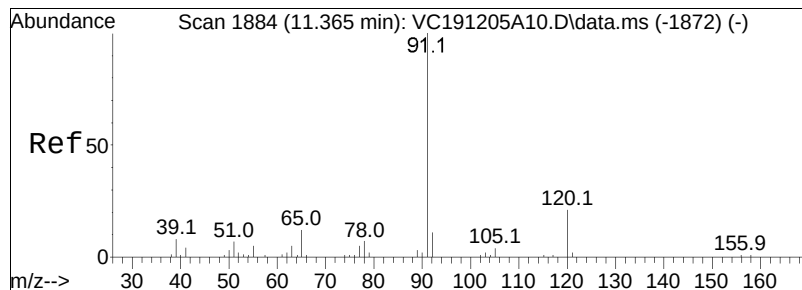




#82  
Isopropylbenzene  
Concen: 38.34 ug/L  
RT: 10.893 min Scan# 1794  
Delta R.T. -0.005 min  
Lab File: VC191228A01.D  
Acq: 28 Dec 2019 7:27 am

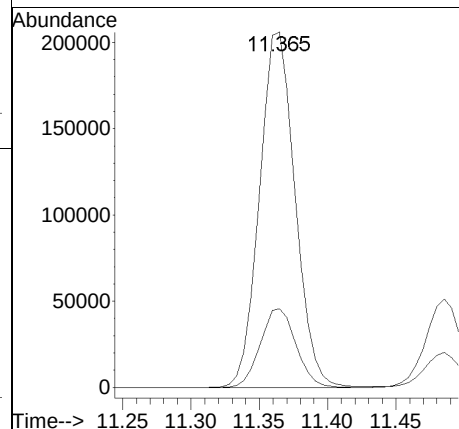
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.6  | 8.1   | 48.1  |

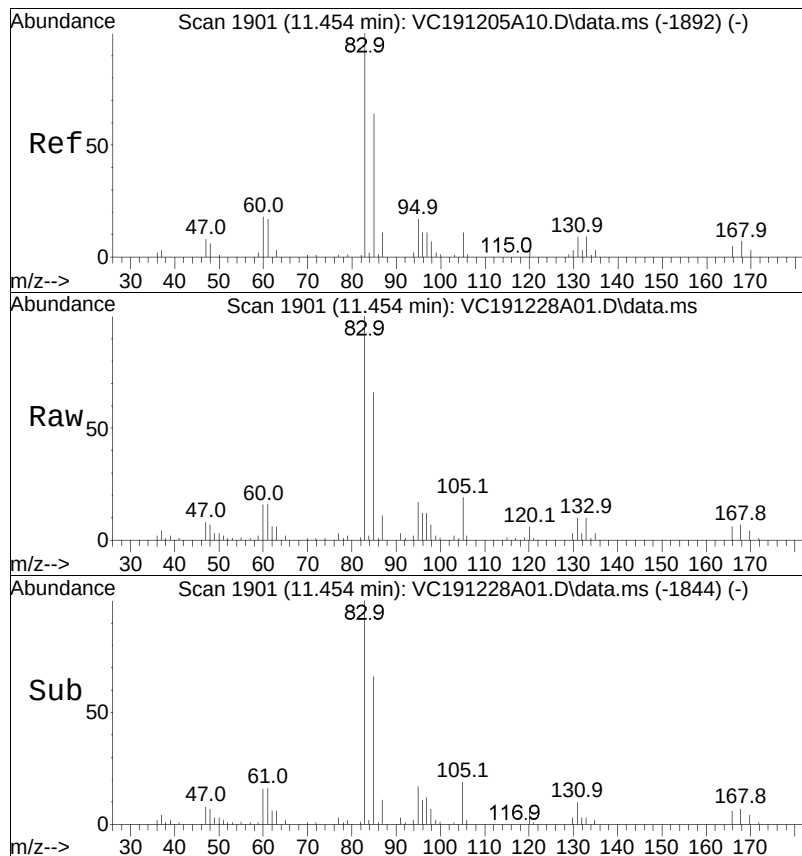




#85  
 n-Propylbenzene  
 Concen: 38.81 ug/L  
 RT: 11.365 min Scan# 1884  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

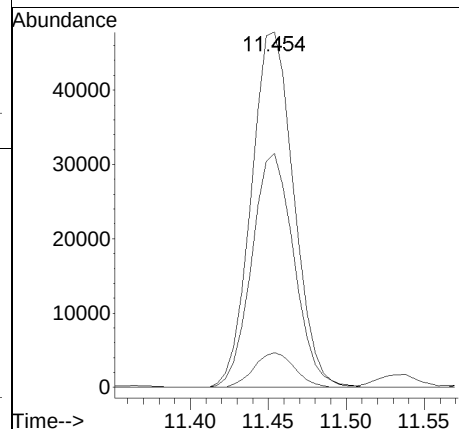
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 22.1  | 19.4  | 29.0  |



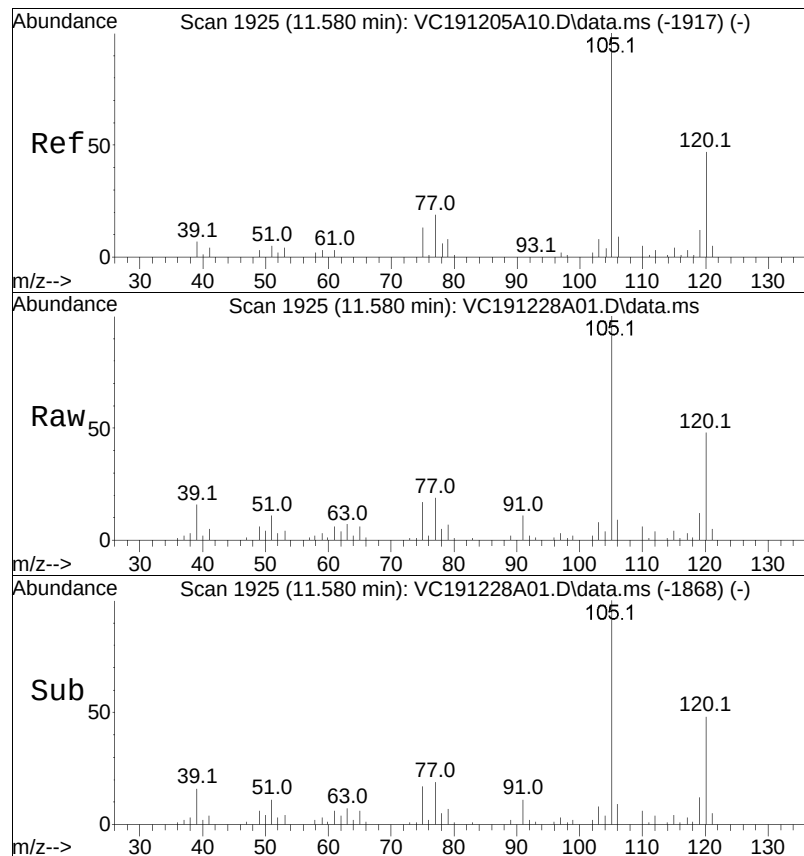


#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 37.49 ug/L  
 RT: 11.454 min Scan# 1901  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.4   | 0.0   | 30.9  |
| 85      | 65.6  | 45.5  | 85.5  |

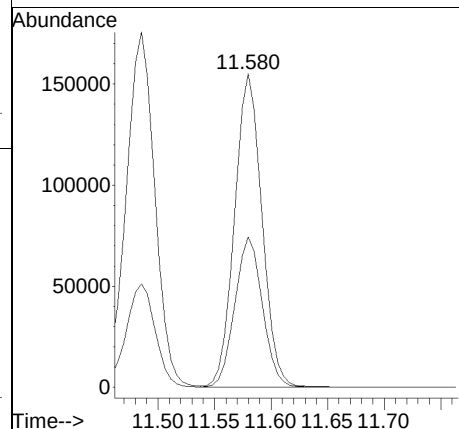


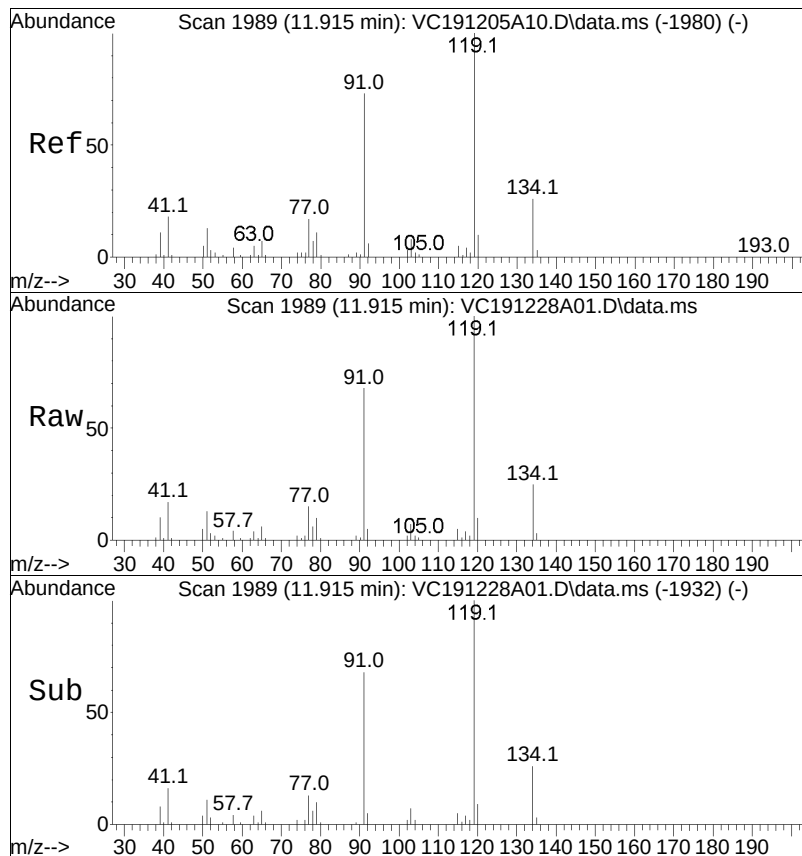




#90  
 1,3,5-Trimethylbenzene  
 Concen: 38.39 ug/L  
 RT: 11.580 min Scan# 1925  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

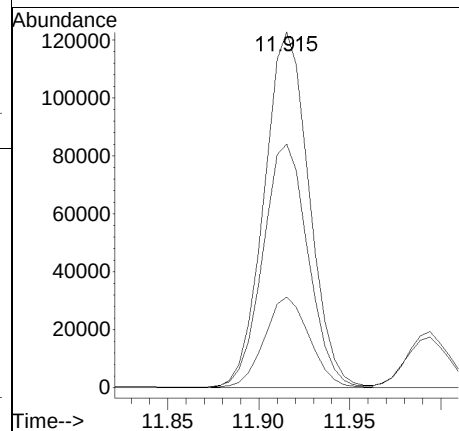
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 48.3 | 41.0  | 61.4  |       |

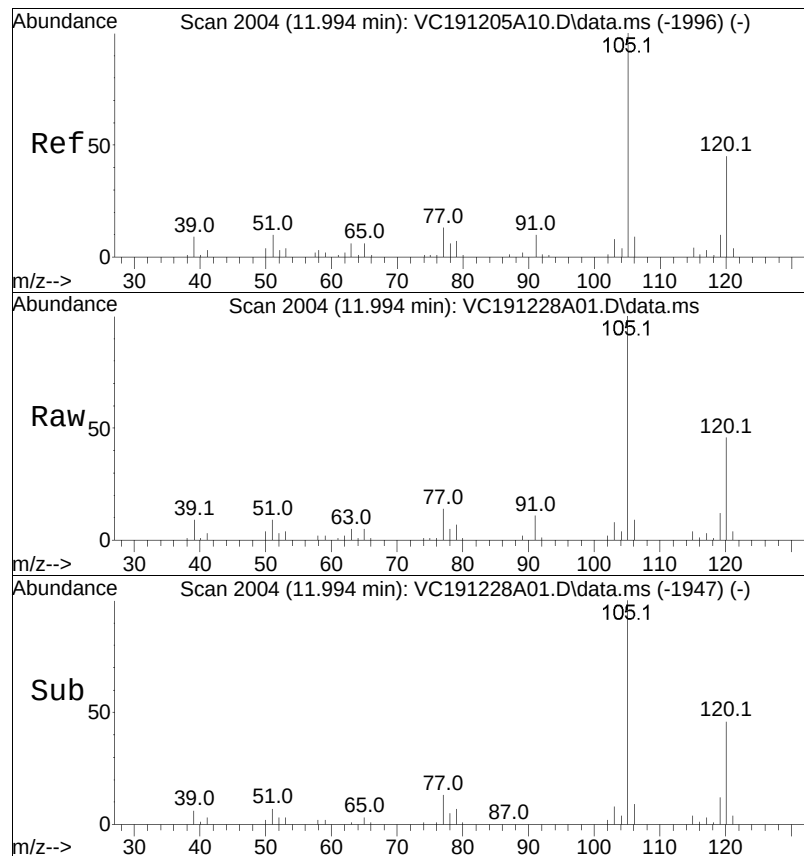




#94  
 tert-Butylbenzene  
 Concen: 37.83 ug/L  
 RT: 11.915 min Scan# 1989  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

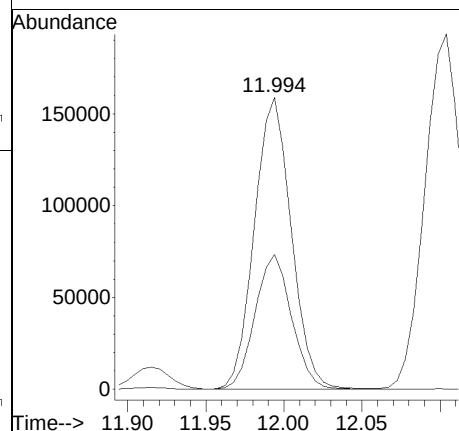
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 210912 |       |       |
| 91      | 68.8  |        | 49.9  | 74.9  |
| 134     | 25.4  |        | 20.5  | 30.7  |

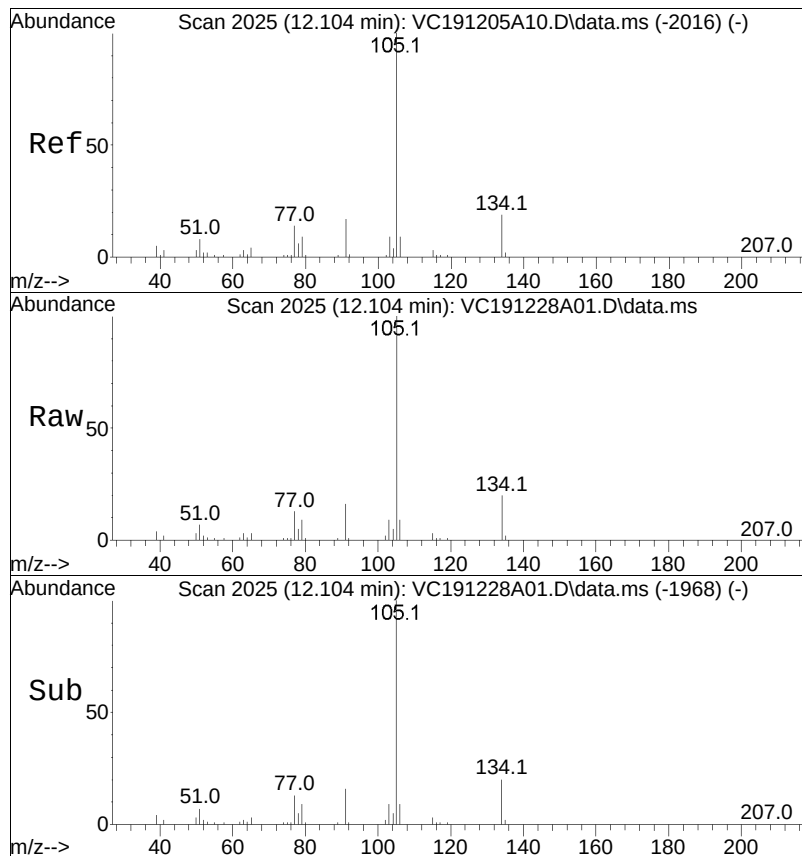




#97  
 1,2,4-Trimethylbenzene  
 Concen: 38.26 ug/L  
 RT: 11.994 min Scan# 2004  
 Delta R.T. -0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

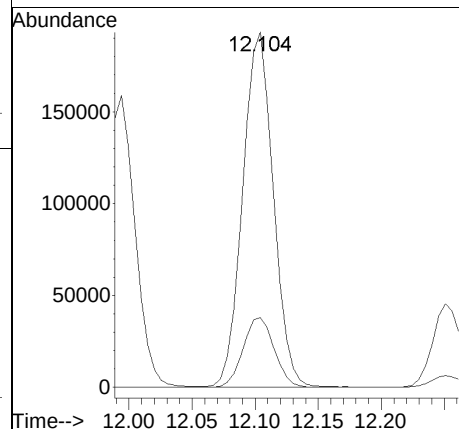
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 45.8 | 38.2  | 57.4  |       |

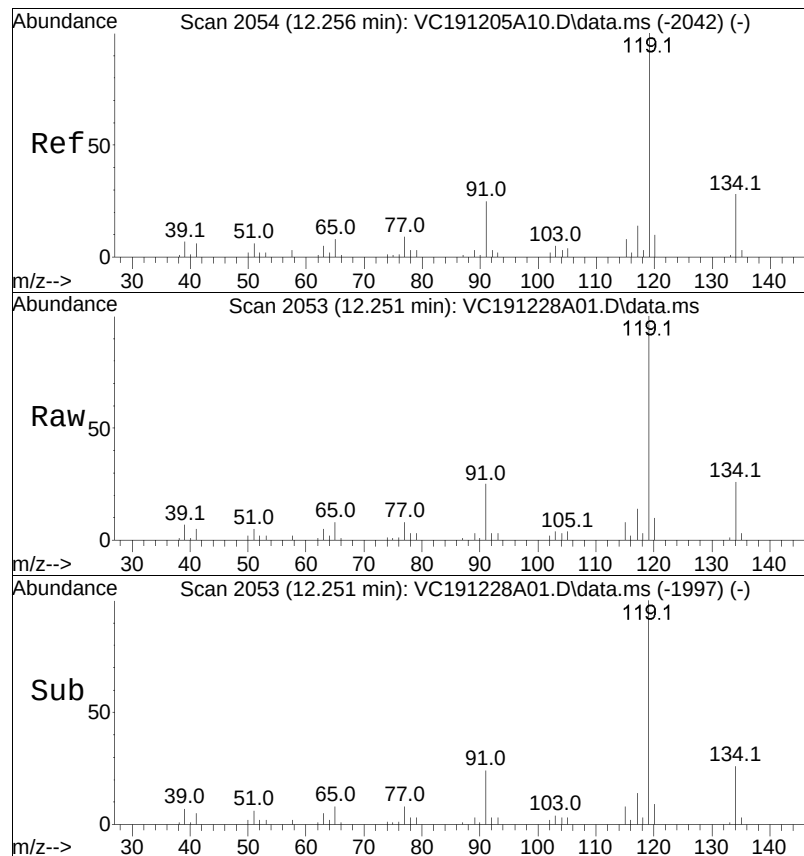




#98  
 sec-Butylbenzene  
 Concen: 38.42 ug/L  
 RT: 12.104 min Scan# 2025  
 Delta R.T. 0.000 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

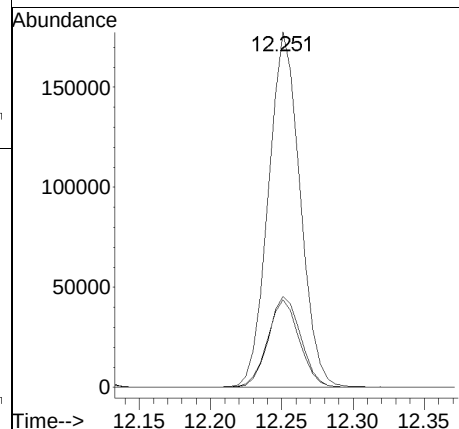
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 19.9  | 13.5  | 27.9  |

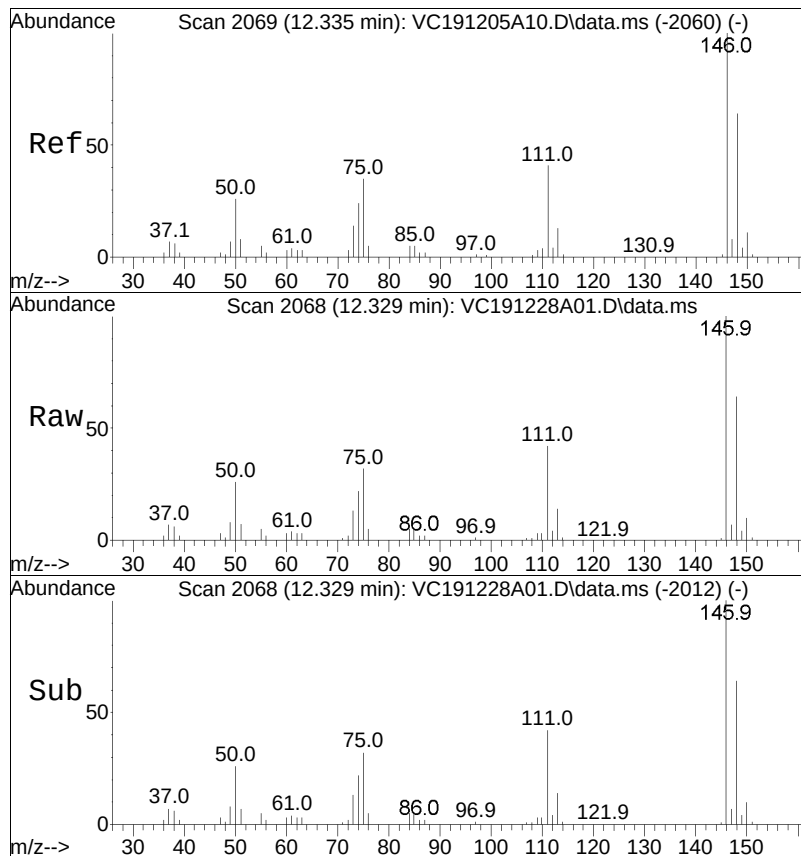




#99  
 p-Isopropyltoluene  
 Concen: 38.31 ug/L  
 RT: 12.251 min Scan# 2053  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

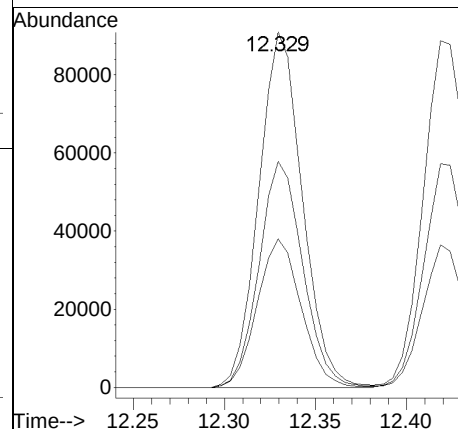
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.1  | 17.0  | 35.4  |
| 91      | 24.9  | 14.0  | 29.2  |

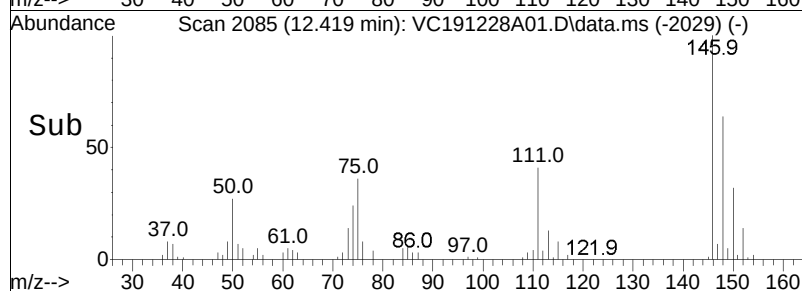
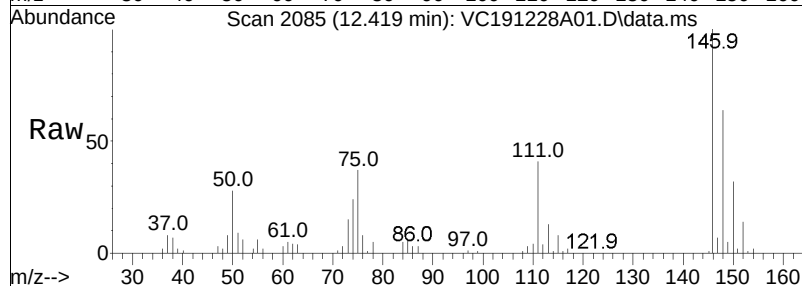
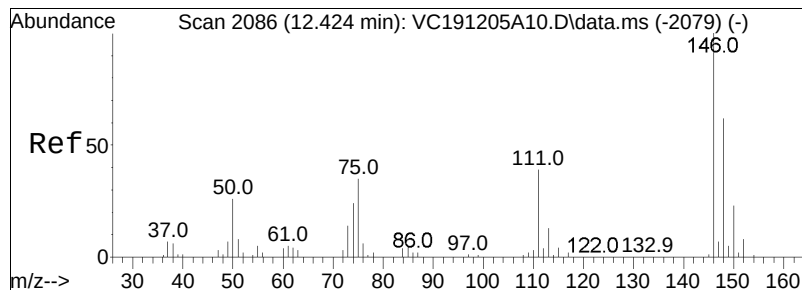




#100  
 1,3-Dichlorobenzene  
 Concen: 37.73 ug/L  
 RT: 12.329 min Scan# 2068  
 Delta R.T. -0.006 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

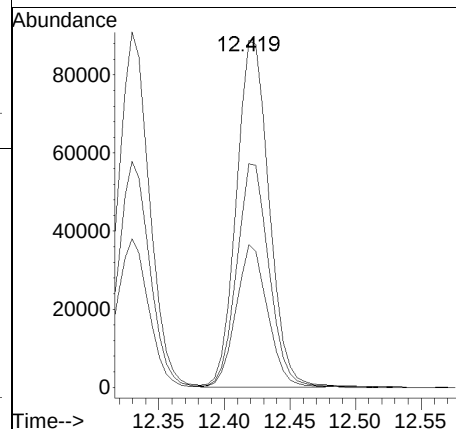
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 151373 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 42.2  | 24.9  | 51.7   |
| 148       | 63.8  | 41.6  | 86.4   |

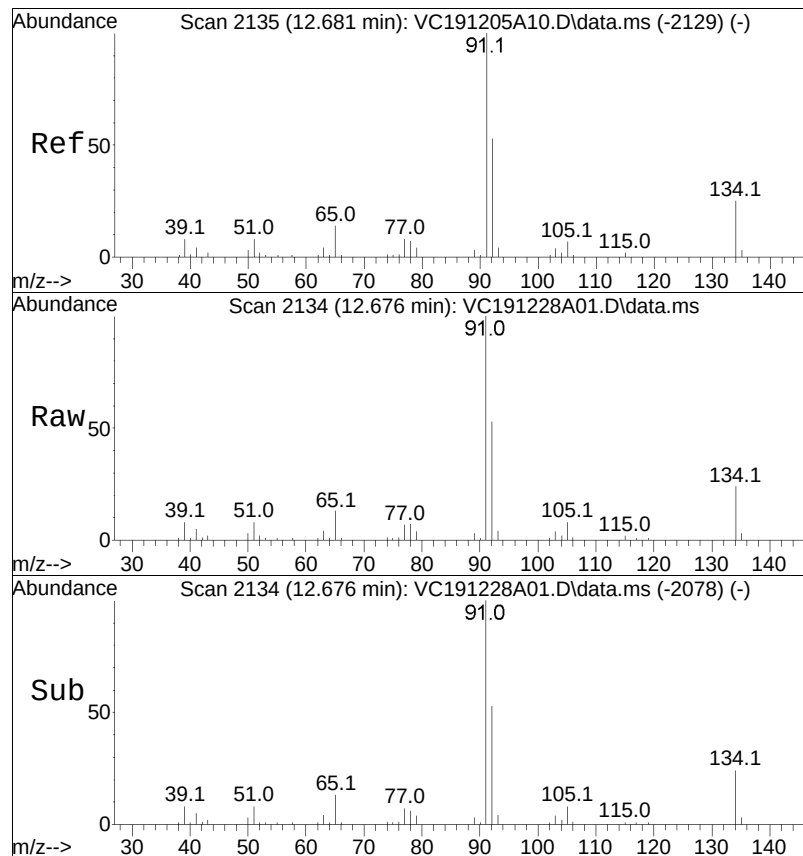




#101  
 1,4-Dichlorobenzene  
 Concen: 36.66 ug/L  
 RT: 12.419 min Scan# 2085  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

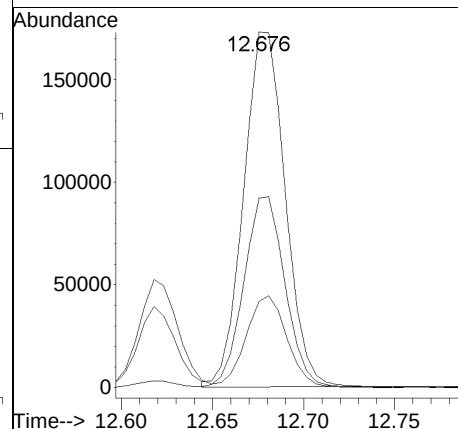
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.0  | 29.5  | 44.3  |
| 148     | 63.9  | 52.1  | 78.1  |



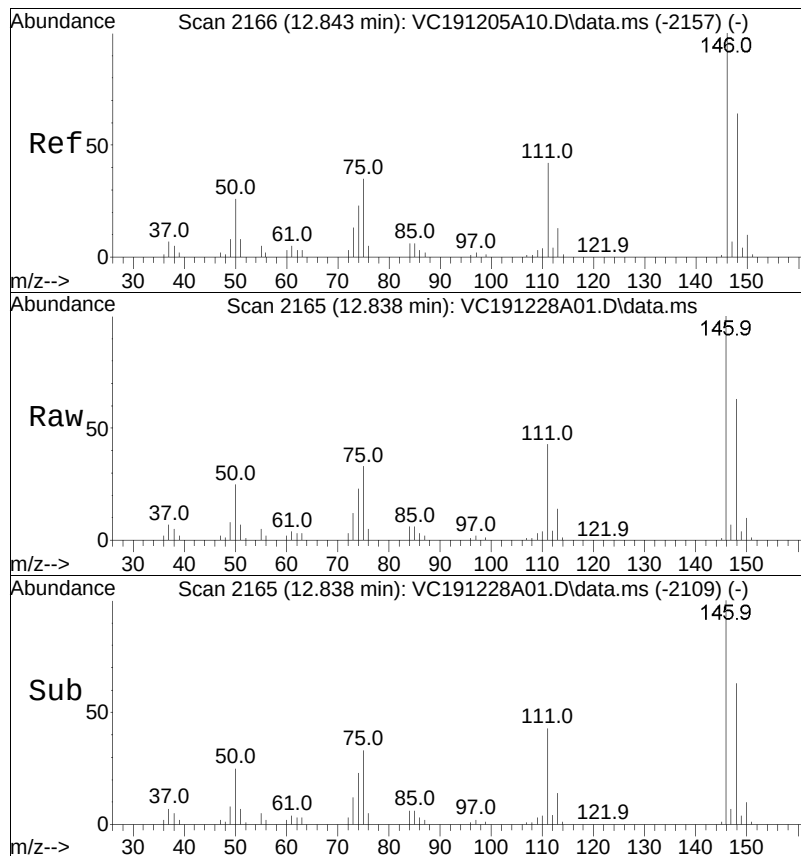


#103  
 n-Butylbenzene  
 Concen: 39.51 ug/L  
 RT: 12.676 min Scan# 2134  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 53.4  | 43.5  | 65.3  |
| 134     | 25.4  | 22.6  | 34.0  |

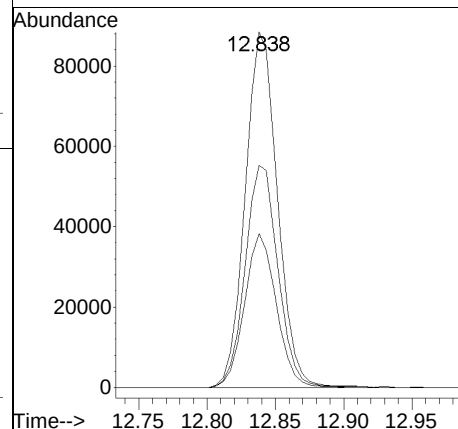


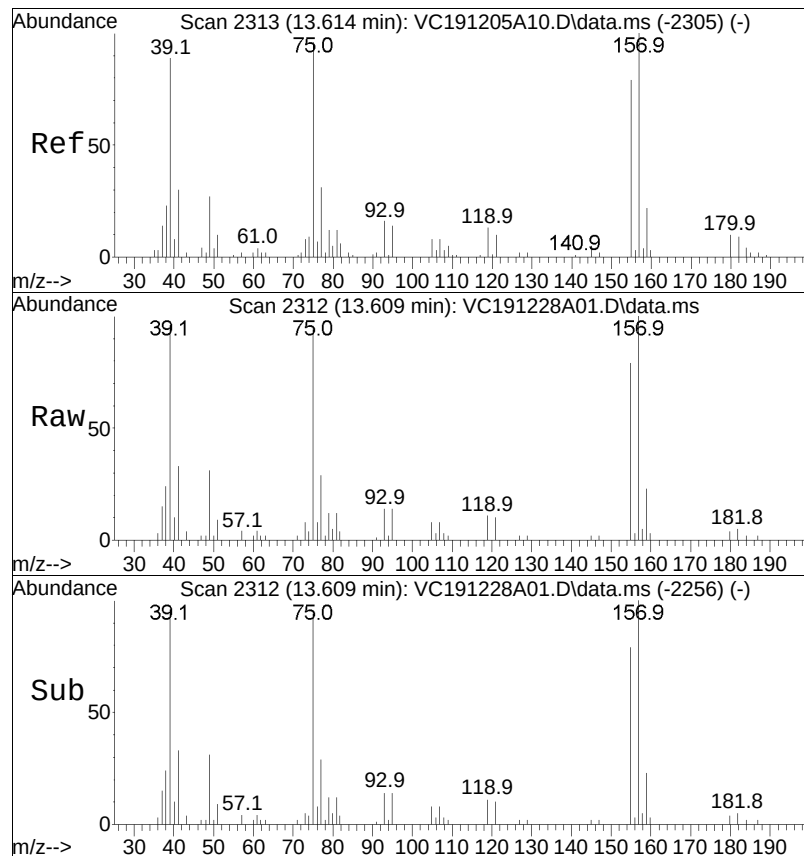




#104  
 1,2-Dichlorobenzene  
 Concen: 37.41 ug/L  
 RT: 12.838 min Scan# 2165  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

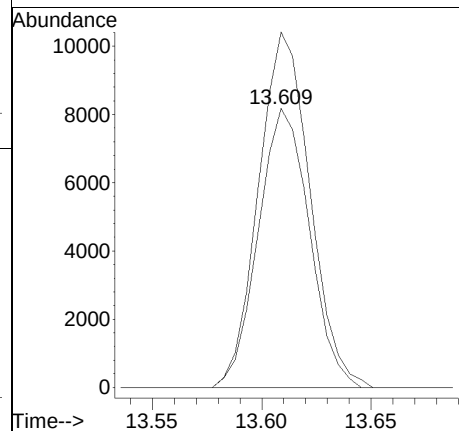
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.6  | 25.4  | 52.8  |
| 148     | 63.6  | 41.8  | 86.8  |

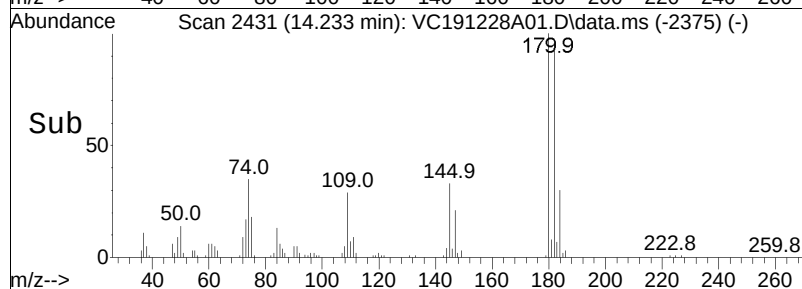
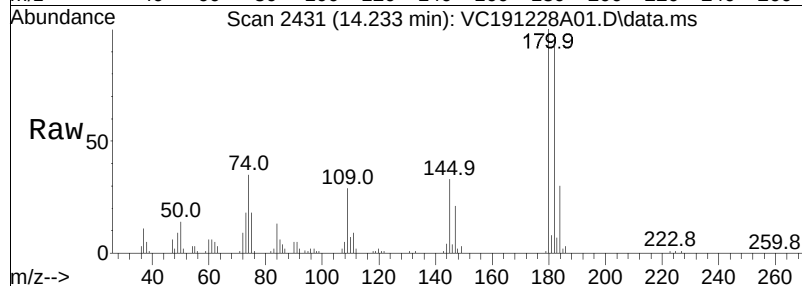
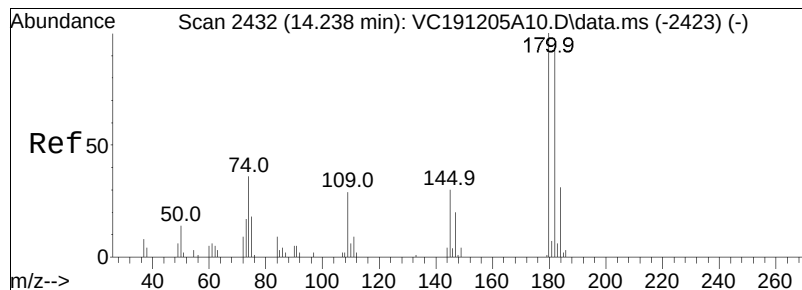




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 34.92 ug/L  
 RT: 13.609 min Scan# 2312  
 Delta R.T. -0.005 min  
 Lab File: VC191228A01.D  
 Acq: 28 Dec 2019 7:27 am

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 155 | 100   |       |       |       |
| 157 | 128.3 | 103.0 | 154.6 |       |





#109

1,2,4-Trichlorobenzene

Concen: 36.57 ug/L

RT: 14.233 min Scan# 2431

Delta R.T. -0.005 min

Lab File: VC191228A01.D

Acq: 28 Dec 2019 7:27 am

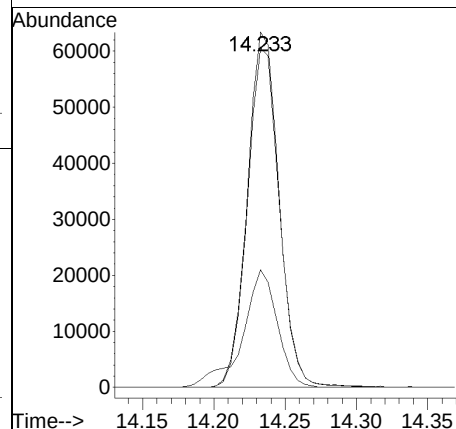
Tgt Ion:180 Resp: 98502

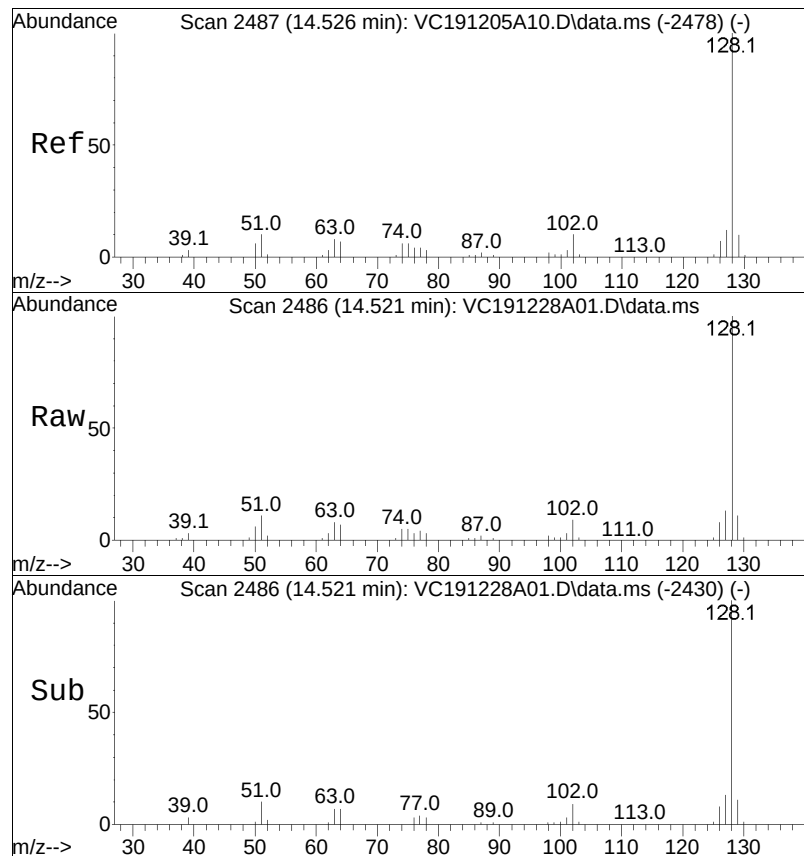
Ion Ratio Lower Upper

180 100

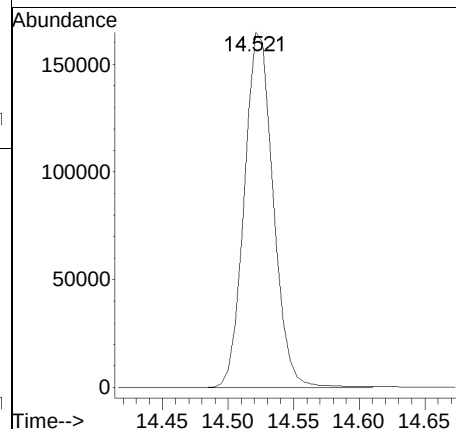
182 96.0 77.4 116.2

145 36.3 26.8 40.2





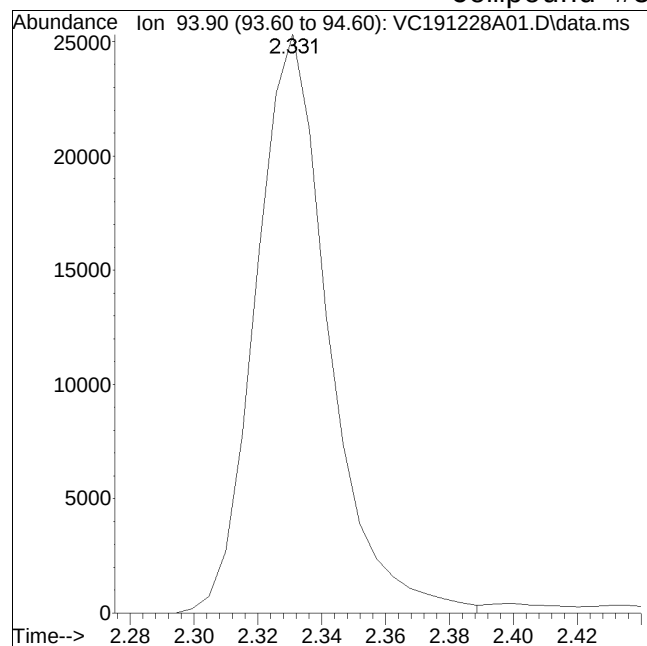
#110  
Naphthalene  
Concen: 35.56 ug/L  
RT: 14.521 min Scan# 2486  
Delta R.T. -0.005 min  
Lab File: VC191228A01.D  
Acq: 28 Dec 2019 7:27 am  
Tgt Ion:128 Resp: 252545



# Manual Integration Report

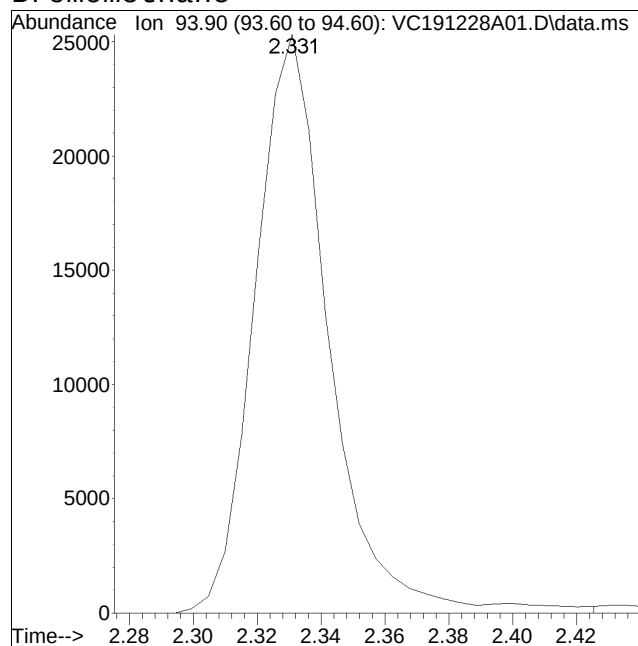
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191228A01.D Operator : CHARLIE:JAL  
Date Inj'd : 12/28/2019 7:27 am Instrument : Charlie  
Sample : WG1325623-3,31,5,5 Quant Date : 12/28/2019 8:06 am

## Compound #5: Bromomethane



Original Peak Response = 40328

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

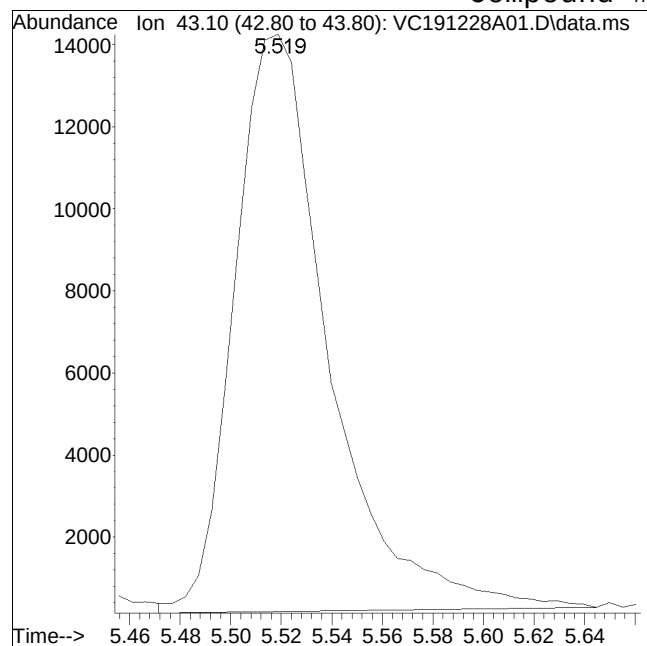


Manual Peak Response = 41077 M1

# Manual Integration Report

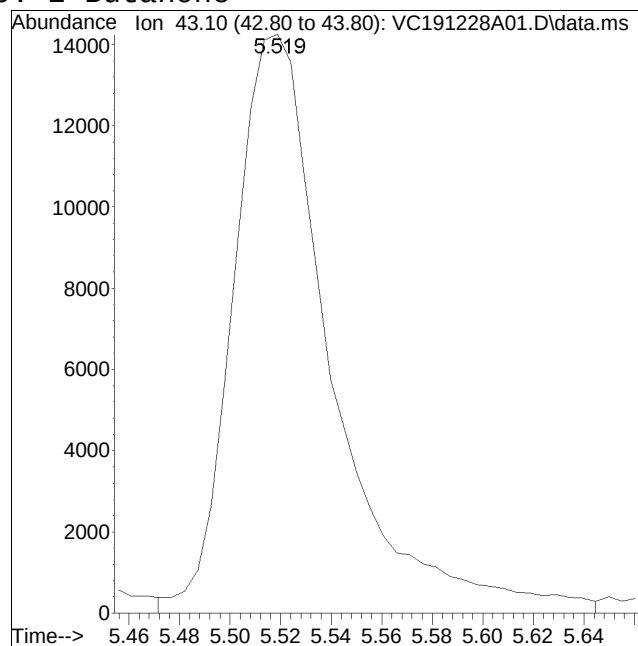
Data Path : I:\VOLATILES\Charlie\2019\QMethod : C\_191211N\_8260.m  
Data File : VC191228A01.D Operator : CHARLIE:JAL  
Date Inj'd : 12/28/2019 7:27 am Instrument : Charlie  
Sample : WG1325623-3,31,5,5 Quant Date : 12/28/2019 8:06 am

## Compound #39: 2-Butanone



Original Peak Response = 36453

M4 = Poor automated baseline construction.



Manual Peak Response = 38726 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-3,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.449          | 96   | 340789   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 340789     |                |      | Recovery | =      | 100.00% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 288898   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 288898     |                |      | Recovery | =      | 100.00% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 151324   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 151324     |                |      | Recovery | =      | 100.00% |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 88703    | 19.554 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 97.77%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 84114    | 17.352 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 86.76%  |          |
| 60) Toluene-d8               | 7.101          | 98   | 375503   | 18.639 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 93.19%  |          |
| 83) 4-Bromofluorobenzene     | 10.462         | 95   | 157943   | 20.235 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 101.18% |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 131834   | 33.314 | ug/L    | 97       |
| 3) Chloromethane             | 1.648          | 50   | 181492   | 33.080 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 175593   | 35.021 | ug/L    | 96       |
| 5) Bromomethane              | 1.957          | 94   | 109482   | 39.600 | ug/L    | 99       |
| 6) Chloroethane              | 2.062          | 64   | 102241   | 34.780 | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 229603   | 38.579 | ug/L    | 99       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 142211   | 40.971 | ug/L    | 84       |
| 11) Carbon disulfide         | 2.628          | 76   | 483404   | 33.903 | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 149252   | 41.004 | ug/L    | 100      |
| 15) Methylene chloride       | 3.095          | 84   | 167359   | 34.345 | ug/L    | 69       |
| 17) Acetone                  | 3.132          | 43   | 37429    | 33.855 | ug/L    | # 88     |
| 18) trans-1,2-Dichloroethene | 3.237          | 96   | 161958   | 40.245 | ug/L    | 88       |
| 19) Methyl acetate           | 3.242          | 43   | 97967    | 33.195 | ug/L    | # 85     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 436869   | 39.232 | ug/L    | 85       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 312229   | 36.759 | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.259          | 96   | 177950   | 40.142 | ug/L    | 88       |
| 31) Cyclohexane              | 4.442          | 56   | 291517   | 42.148 | ug/L    | 76       |
| 32) Chloroform               | 4.511          | 83   | 292194   | 37.132 | ug/L    | 94       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 215039   | 40.045 | ug/L    | 99       |
| 37) 1,1,1-Trichloroethane    | 4.694          | 97   | 249463   | 39.334 | ug/L    | 97       |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-3,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|--------|-------|----------|-----|
| 39)  | 2-Butanone                | 4.783  | 43   | 59446    | 35.000 | ug/L  | #        | 71  |
| 41)  | Benzene                   | 5.045  | 78   | 675219   | 38.688 | ug/L  |          | 90  |
| 44)  | 1,2-Dichloroethane        | 5.239  | 62   | 205616   | 34.376 | ug/L  |          | 97  |
| 47)  | Methyl cyclohexane        | 5.612  | 83   | 281167   | 43.249 | ug/L  | #        | 73  |
| 48)  | Trichloroethene           | 5.627  | 95   | 166916   | 39.506 | ug/L  |          | 96  |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 179100   | 37.207 | ug/L  |          | 98  |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 226490   | 36.707 | ug/L  |          | 99  |
| 58)  | cis-1,3-Dichloropropene   | 6.896  | 75   | 285910   | 40.882 | ug/L  | #        | 84  |
| 61)  | Toluene                   | 7.158  | 92   | 416860   | 35.641 | ug/L  |          | 99  |
| 62)  | 4-Methyl-2-pentanone      | 7.594  | 58   | 53036    | 35.609 | ug/L  | #        | 76  |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 170533   | 38.982 | ug/L  |          | 98  |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 247684   | 35.445 | ug/L  | #        | 79  |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 115935   | 33.130 | ug/L  |          | 99  |
| 69)  | Chlorodibromomethane      | 8.023  | 129  | 156793   | 34.670 | ug/L  |          | 98  |
| 71)  | 1,2-Dibromoethane         | 8.280  | 107  | 129559   | 35.113 | ug/L  |          | 99  |
| 72)  | 2-Hexanone                | 8.590  | 43   | 90611    | 34.425 | ug/L  |          | 90  |
| 73)  | Chlorobenzene             | 8.931  | 112  | 449640   | 35.440 | ug/L  |          | 97  |
| 74)  | Ethylbenzene              | 8.983  | 91   | 785162   | 37.327 | ug/L  |          | 99  |
| 76)  | p/m Xylene                | 9.166  | 106  | 596775   | 79.167 | ug/L  |          | 95  |
| 77)  | o Xylene                  | 9.707  | 106  | 576661   | 79.205 | ug/L  |          | 97  |
| 78)  | Styrene                   | 9.780  | 104  | 957040   | 78.526 | ug/L  |          | 98  |
| 80)  | Bromoform                 | 9.796  | 173  | 97014    | 34.517 | ug/L  |          | 99  |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 743482   | 38.460 | ug/L  |          | 99  |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 913262   | 36.476 | ug/L  |          | 98  |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 165774   | 30.869 | ug/L  |          | 98  |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 624096   | 37.270 | ug/L  |          | 98  |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 519236   | 38.610 | ug/L  |          | 98  |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 622192   | 37.867 | ug/L  |          | 98  |
| 98)  | sec-Butylbenzene          | 11.442 | 105  | 785346   | 37.465 | ug/L  |          | 98  |
| 99)  | p-Isopropyltoluene        | 11.610 | 119  | 658984   | 39.249 | ug/L  |          | 99  |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 349245   | 34.336 | ug/L  |          | 99  |
| 101) | 1,4-Dichlorobenzene       | 11.757 | 146  | 354094   | 34.155 | ug/L  |          | 100 |
| 103) | n-Butylbenzene            | 12.061 | 91   | 637985   | 36.287 | ug/L  |          | 98  |
| 104) | 1,2-Dichlorobenzene       | 12.192 | 146  | 314573   | 33.793 | ug/L  |          | 99  |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 22656    | 33.933 | ug/L  |          | 95  |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 227139   | 38.155 | ug/L  |          | 98  |
| 110) | Naphthalene               | 13.938 | 128  | 451251   | 38.607 | ug/L  |          | 100 |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A01.D  
 Acq On : 30 Dec 2019 05:40 am  
 Operator : VOA111:MV  
 Sample : WG1325794-3,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 06:53:01 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

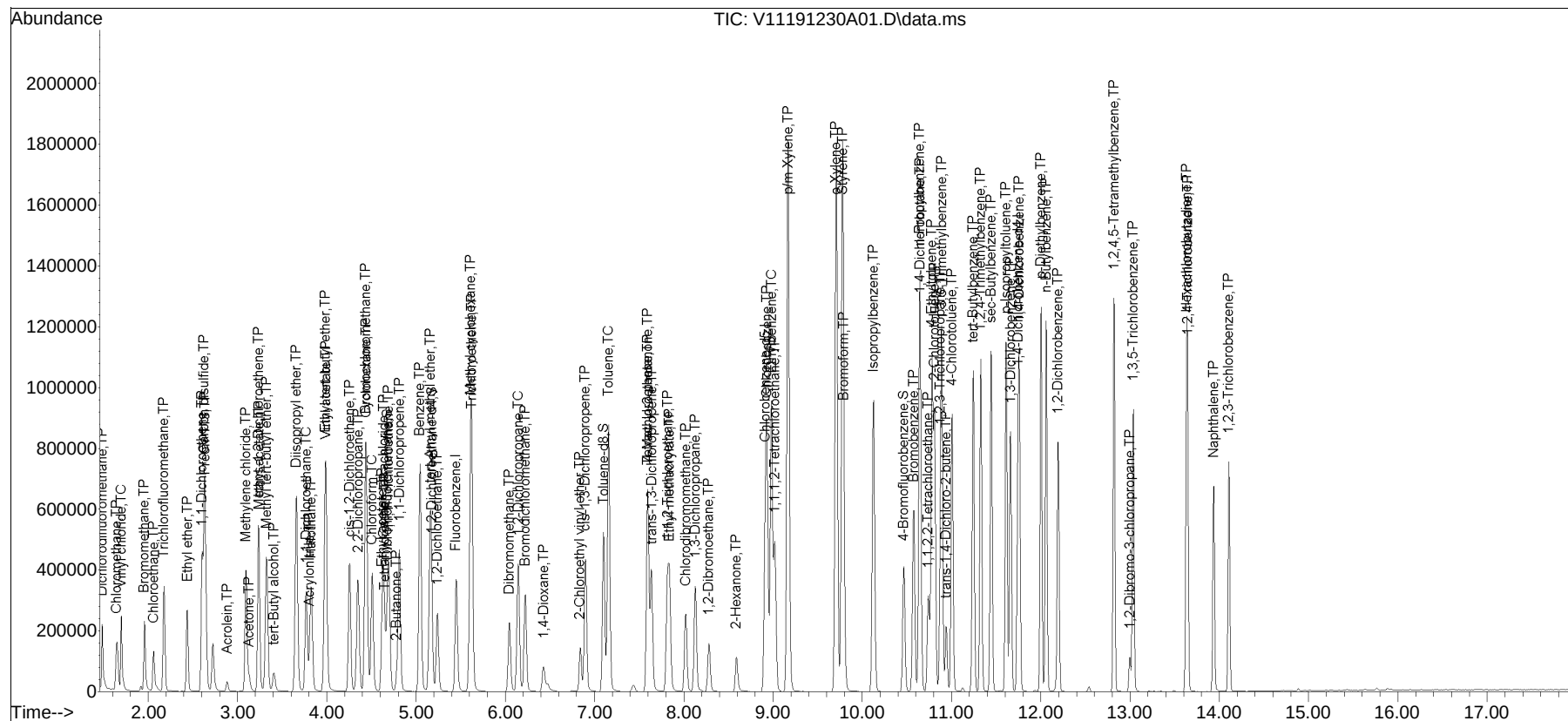
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

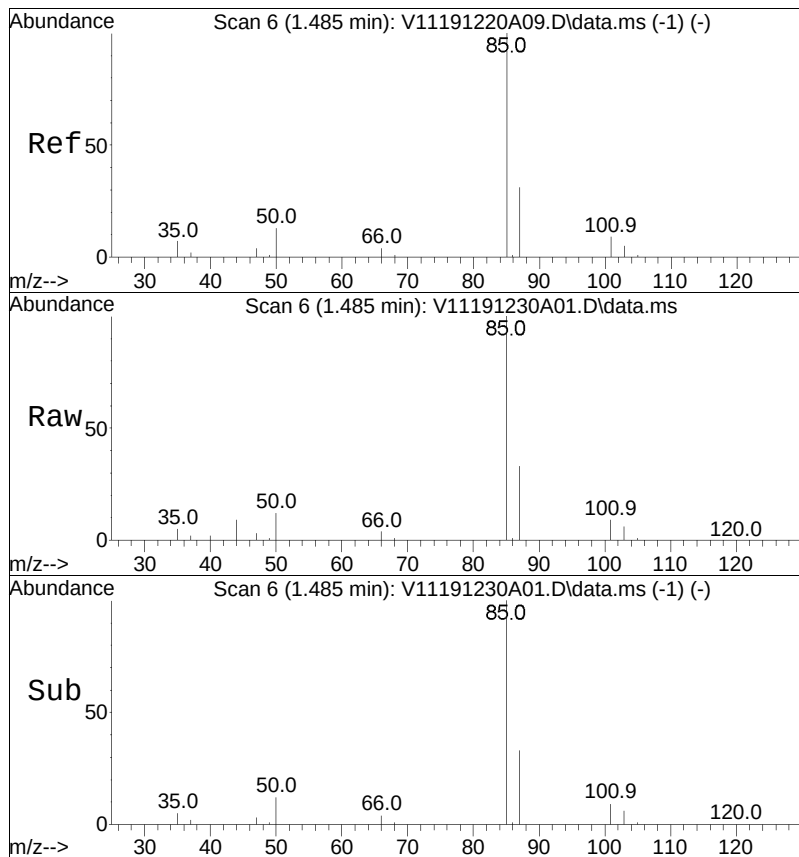
Quantitation Report (QT Reviewed)

```
Data Path : I:\VOLATILES\VOA111\2019\191230A\
Data File : V1191230A01.D
Acq On    : 30 Dec 2019  05:40 am
Operator  : VOA111:MV
Sample    : WG1325794-3, 31h, 15, 15, 0.1
Misc      : WG1325794, ICAL16383
ALS Vial  : 1      Sample Multiplier: 1
```

Quant Time: Dec 30 06:53:01 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:19:02 2019  
Response via : Initial Calibration

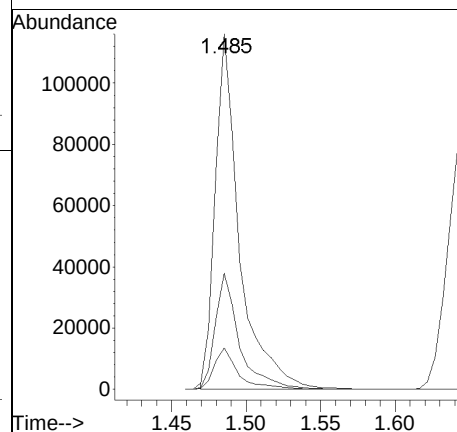
Sub List : 8260-CurveSoil - Megamix plus Diox0A\V11191230A01.D•

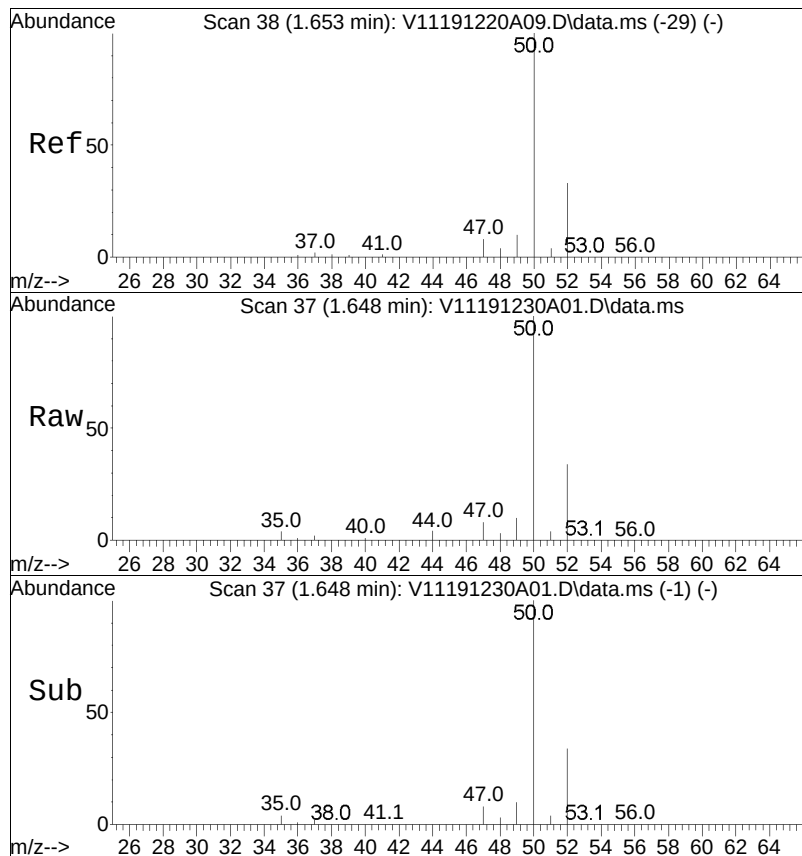




#2  
 Dichlorodifluoromethane  
 Concen: 33.31 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

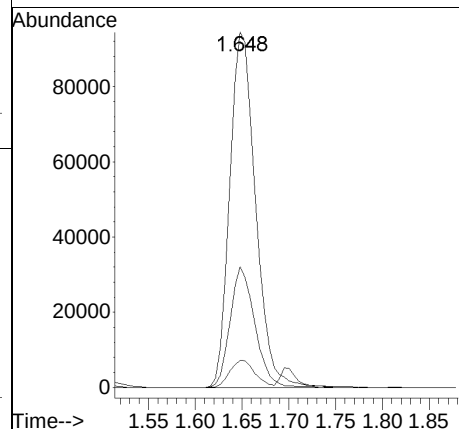
| Tgt Ion | 85   | 87 | 50 | Ratio | 100 | 20.7 | 9.8 | Resp | 131834 | Upper |
|---------|------|----|----|-------|-----|------|-----|------|--------|-------|
| 85      | 100  |    |    |       |     |      |     |      |        |       |
| 87      | 32.4 |    |    |       |     |      |     |      |        |       |
| 50      | 11.6 |    |    |       |     |      |     |      |        |       |

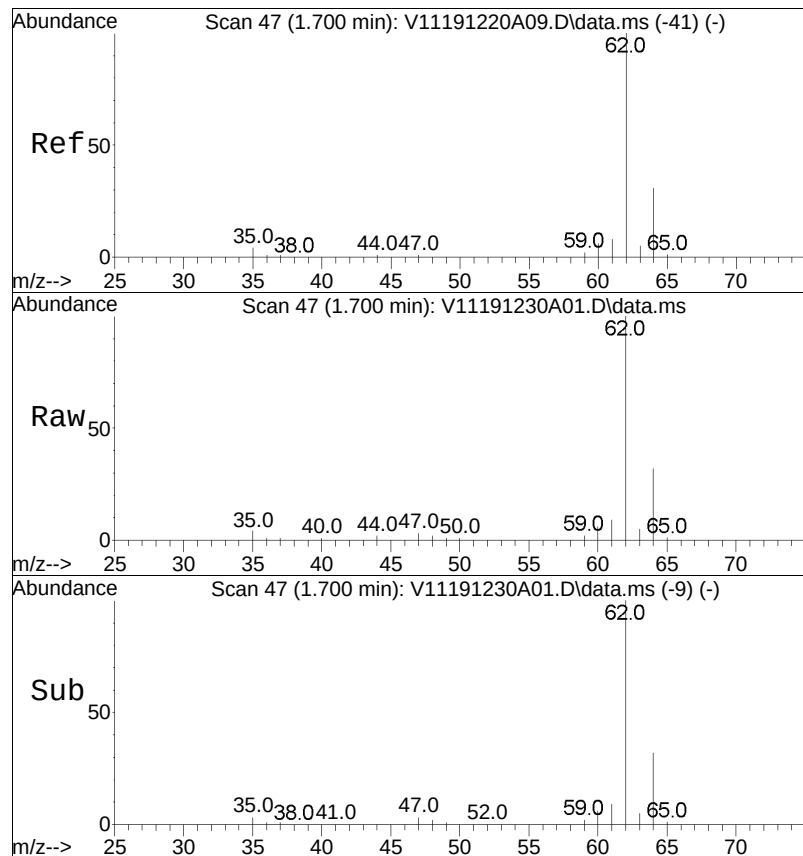




#3  
 Chloromethane  
 Concen: 33.08 ug/L  
 RT: 1.648 min Scan# 37  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

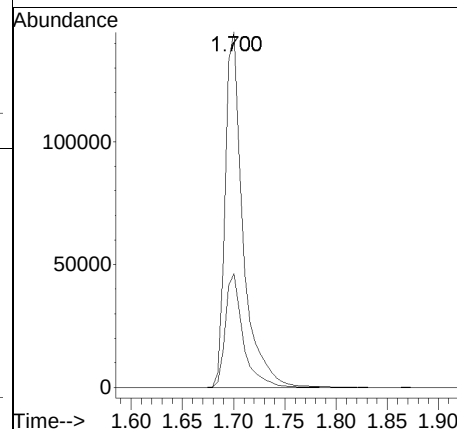
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 50 | Resp: | 181492 |
| Ion | Ratio   | Lower | Upper  |
| 50  | 100     |       |        |
| 52  | 32.4    | 10.9  | 50.9   |
| 47  | 7.5     | 0.0   | 27.2   |

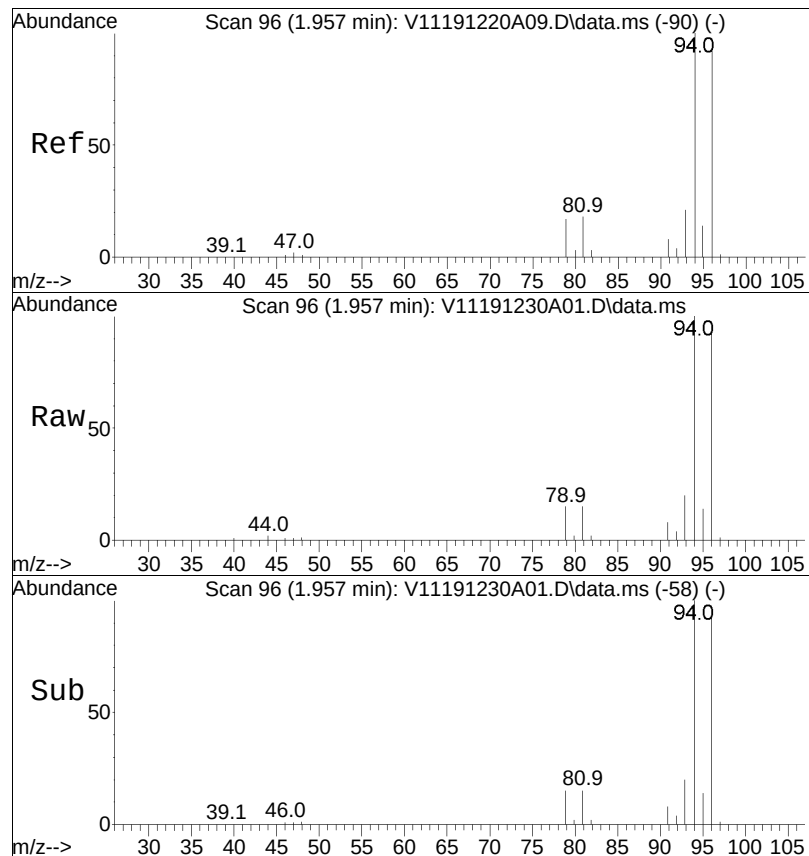




#4  
 Vinyl chloride  
 Concen: 35.02 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

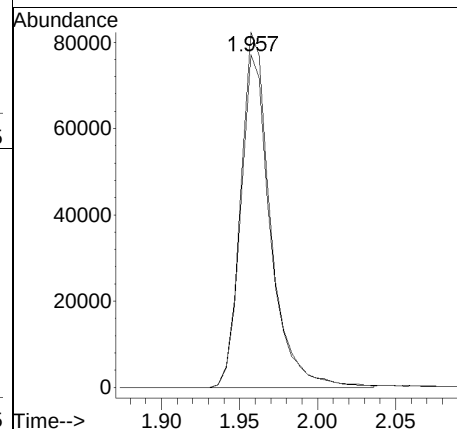
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.9  | 9.9   | 49.9  |

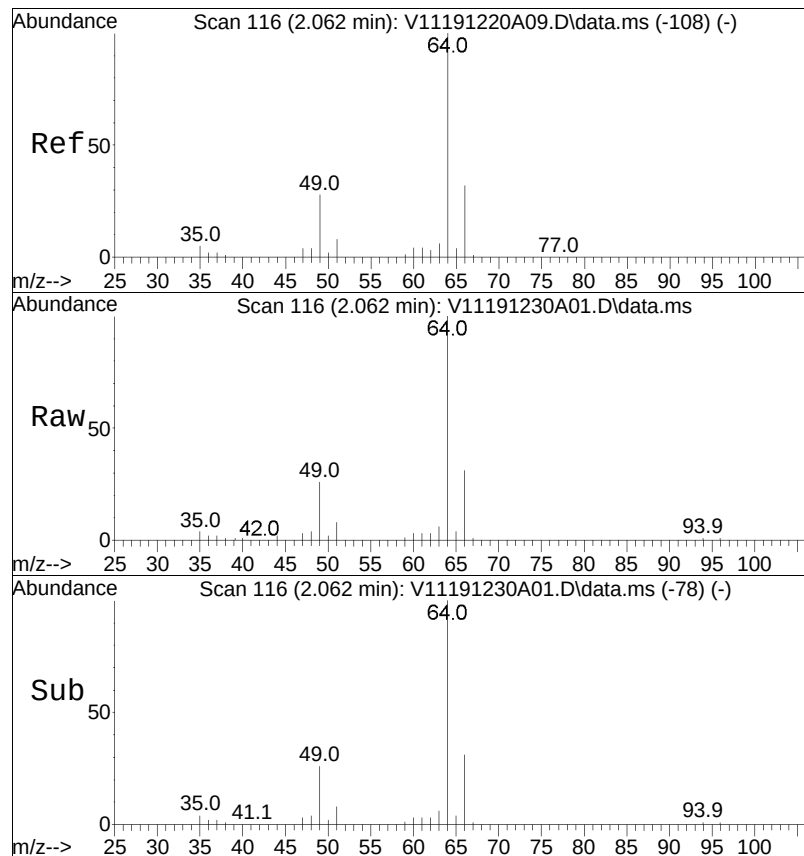




#5  
 Bromomethane  
 Concen: 39.60 ug/L  
 RT: 1.957 min Scan# 96  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

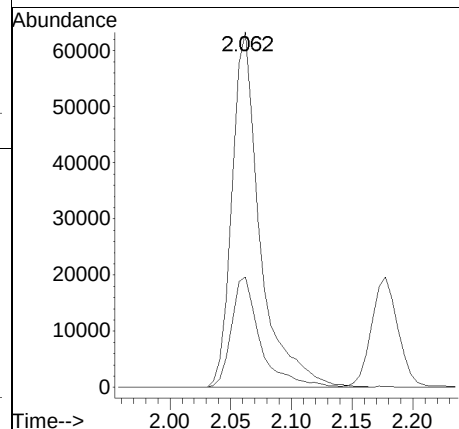
| Tgt Ion:  | 94    | Resp: | 109482 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 96        | 93.9  | 72.6  | 112.6  |

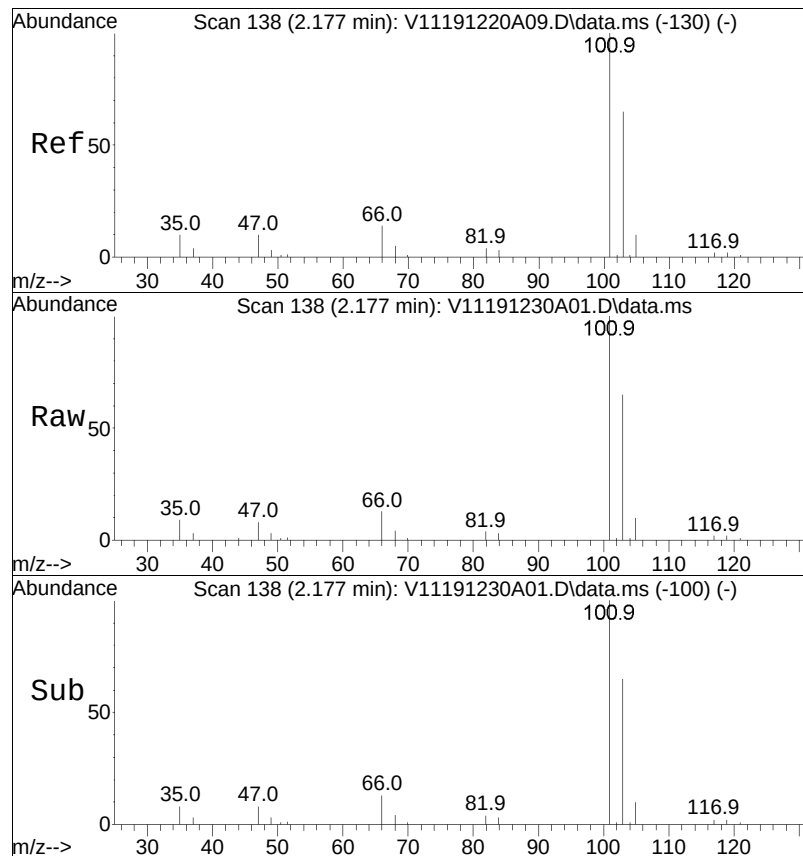




#6  
 Chloroethane  
 Concen: 34.78 ug/L  
 RT: 2.062 min Scan# 116  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

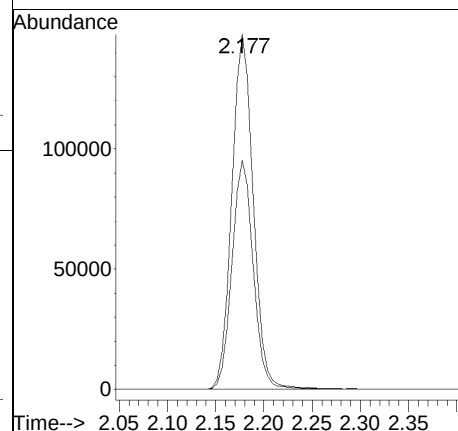
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 32.0  | 10.2  | 50.2  |



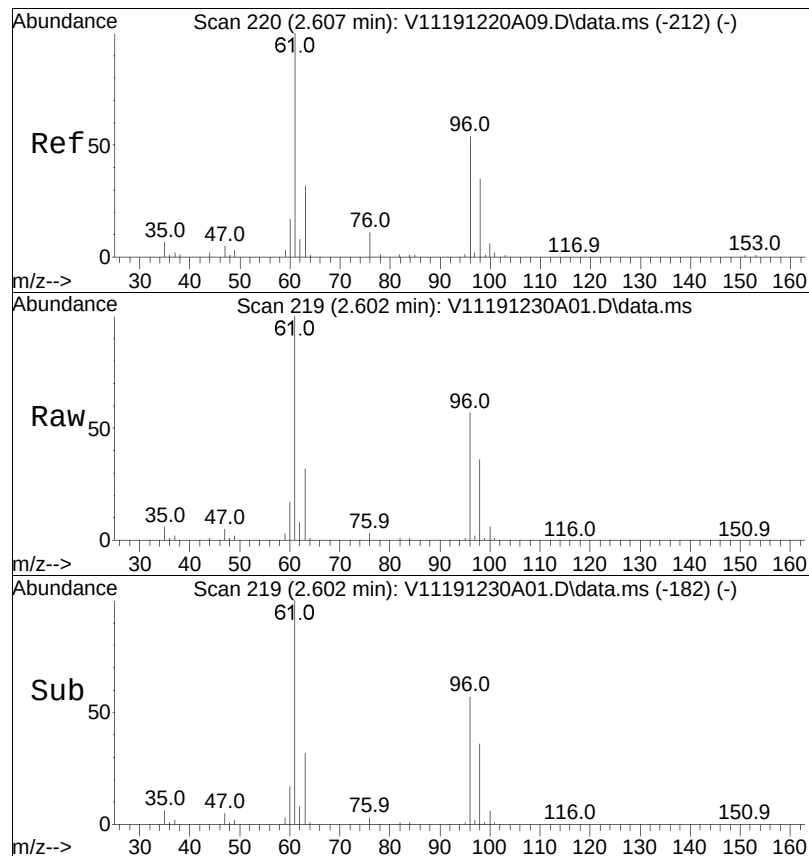


#7  
 Trichlorofluoromethane  
 Concen: 38.58 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 101 | 100  |       |       |       |
| 103 | 64.1 | 51.8  | 77.6  |       |

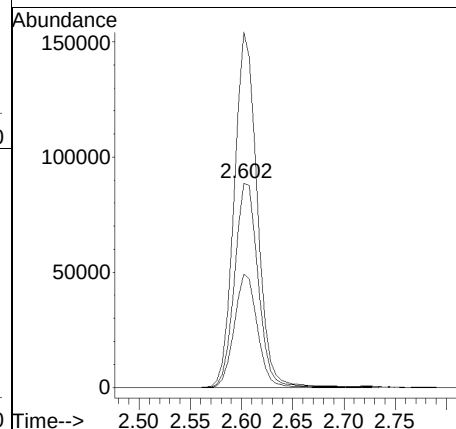


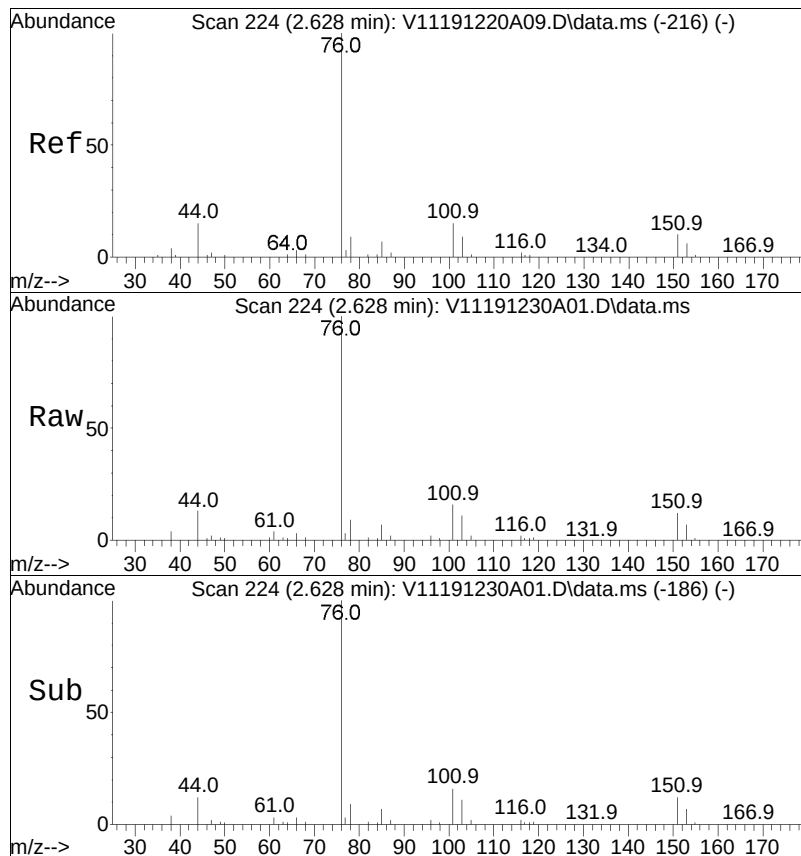




#10  
 1,1-Dichloroethene  
 Concen: 40.97 ug/L  
 RT: 2.602 min Scan# 219  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

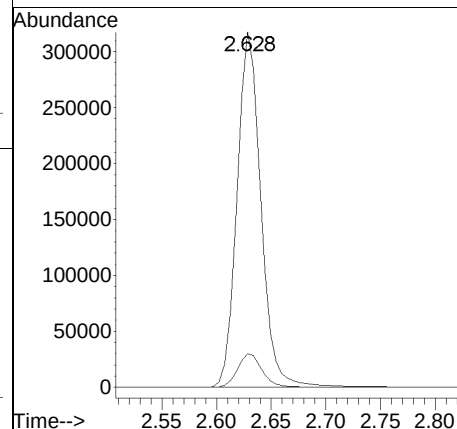
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 96 | Resp: | 142211 |
| Ion | Ratio   | Lower | Upper  |
| 96  | 100     |       |        |
| 61  | 169.1   | 157.7 | 236.5  |
| 63  | 54.4    | 47.9  | 71.9   |

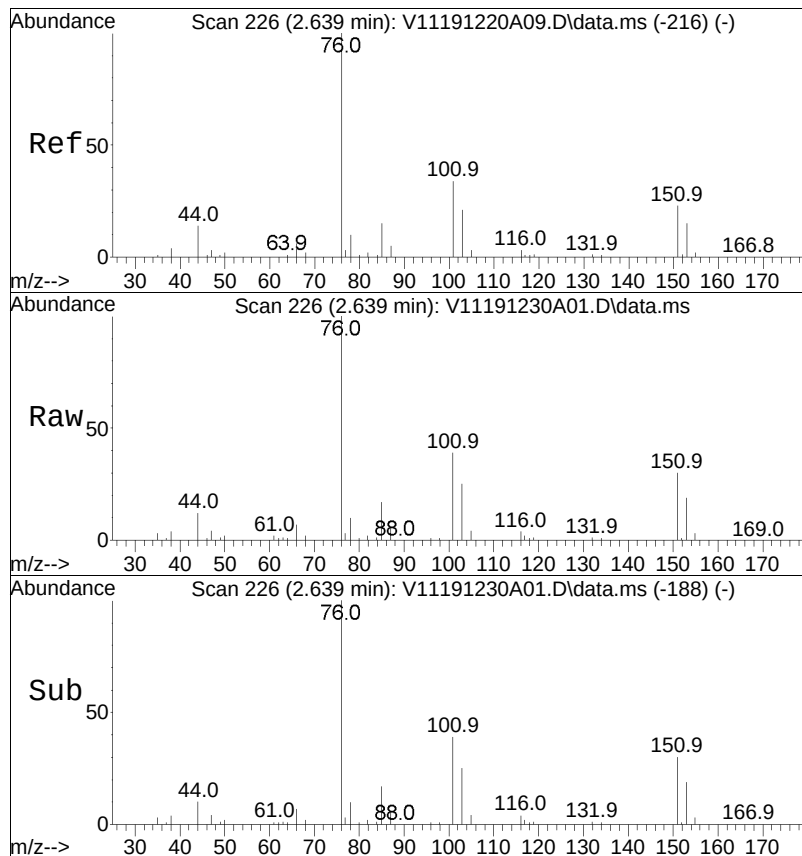




#11  
 Carbon disulfide  
 Concen: 33.90 ug/L  
 RT: 2.628 min Scan# 224  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

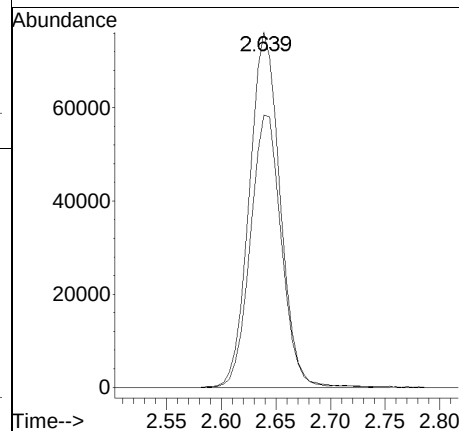
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.8   | 6.4   | 13.4  |

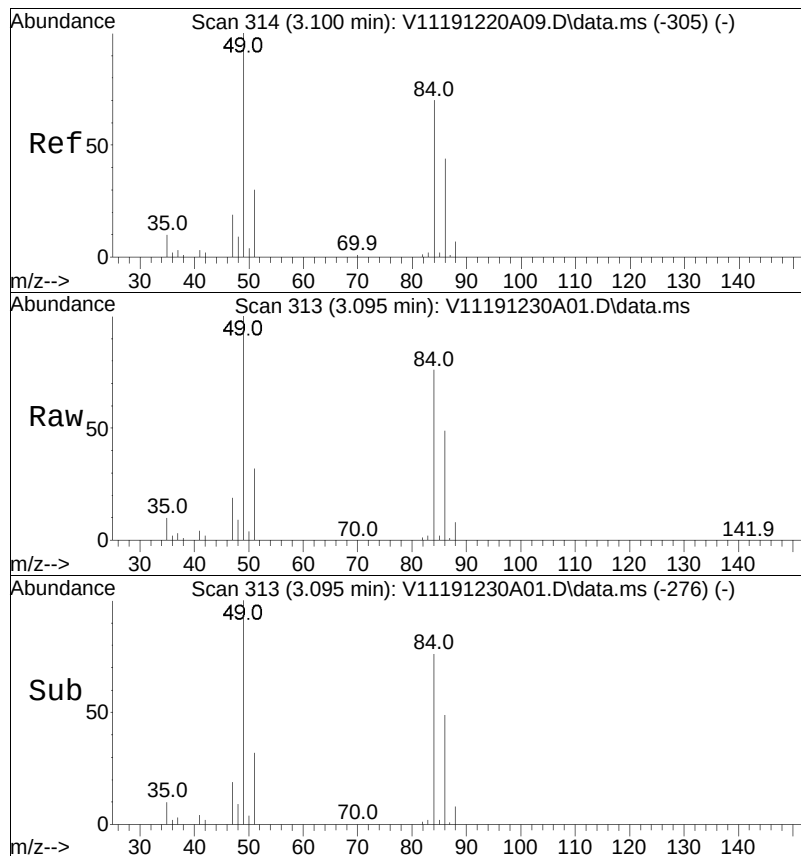




#12  
 Freon-113  
 Concen: 41.00 ug/L  
 RT: 2.639 min Scan# 226  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

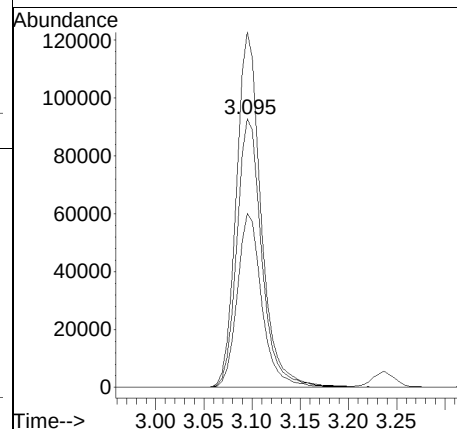
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 101 | 100  | 100   |       |       |
| 151 | 77.6 | 62.2  | 93.4  |       |

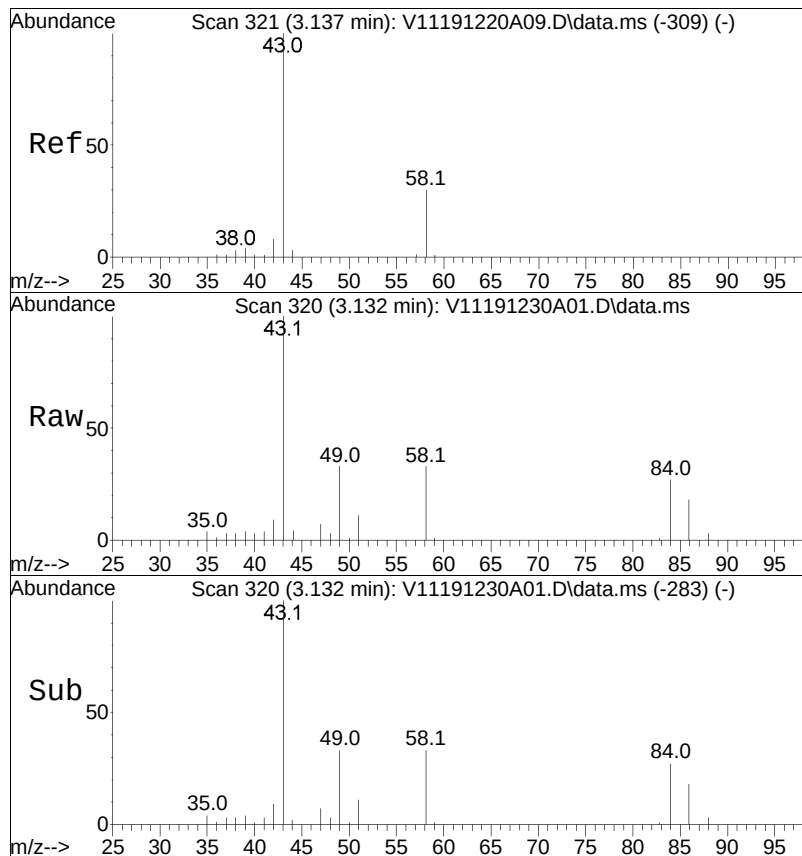




#15  
 Methylene chloride  
 Concen: 34.35 ug/L  
 RT: 3.095 min Scan# 313  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

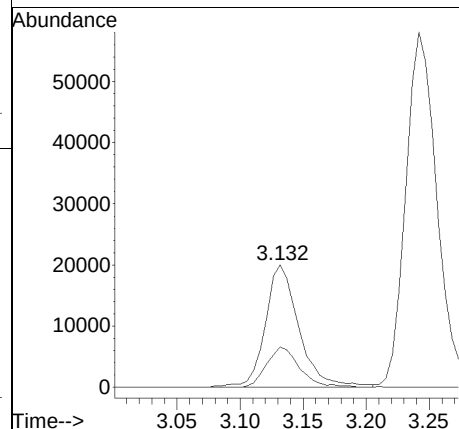
| Tgt Ion:  | 84    | Resp: | 167359 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 64.1  | 41.1  | 85.3   |
| 49        | 131.1 | 124.2 | 258.0  |

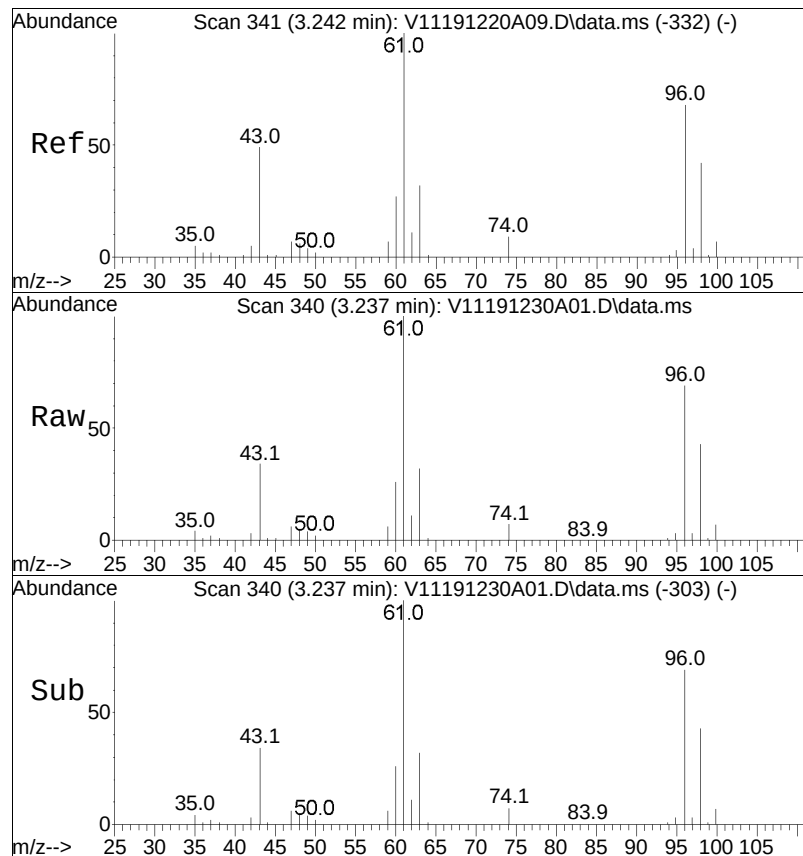




#17  
 Acetone  
 Concen: 33.86 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

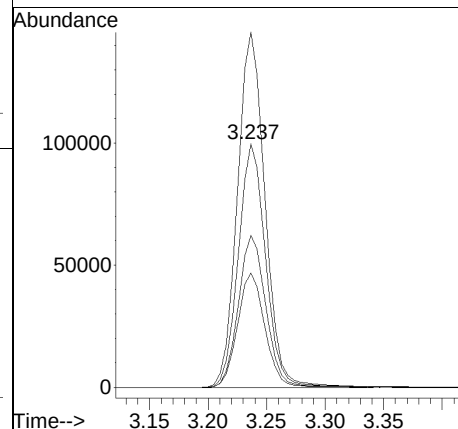
| Tgt Ion:  | 43    | Resp: | 37429 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 32.3  | 20.8  | 31.2# |

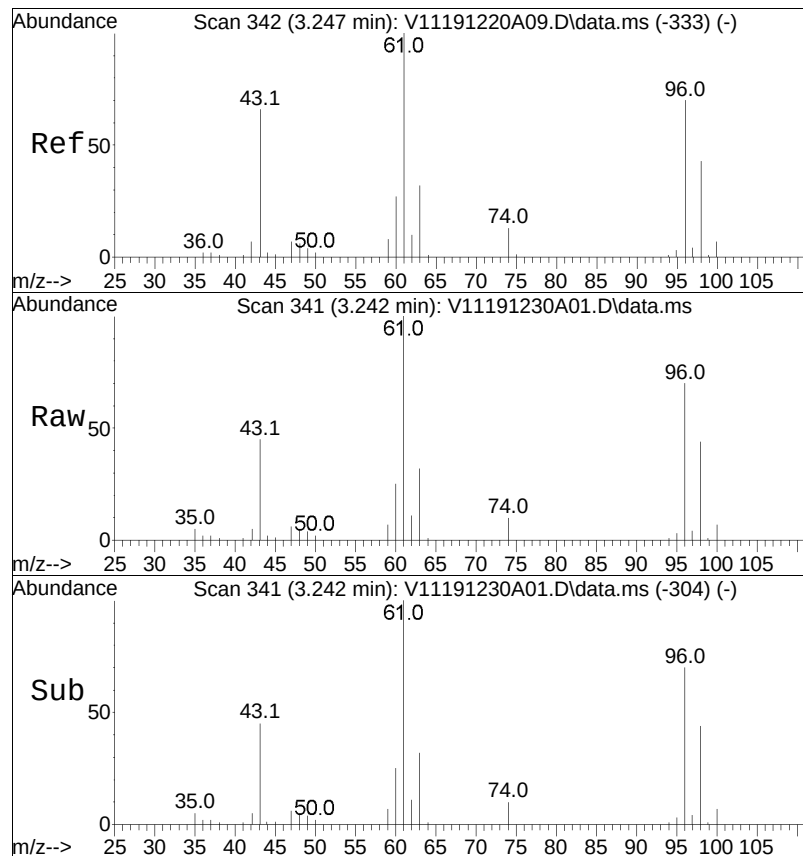




#18  
 trans-1,2-Dichloroethene  
 Concen: 40.25 ug/L  
 RT: 3.237 min Scan# 340  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

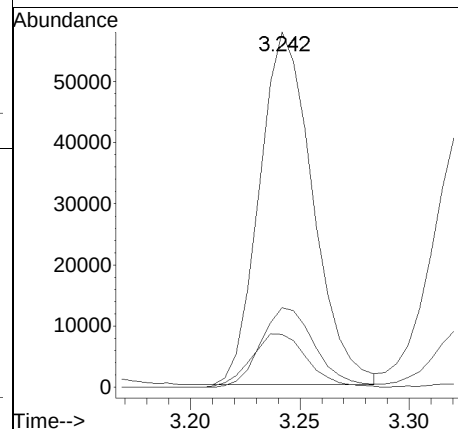
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 161958 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 147.3 | 111.1 | 230.8  |
| 98        | 63.1  | 41.8  | 86.8   |
| 63        | 47.2  | 33.3  | 69.1   |

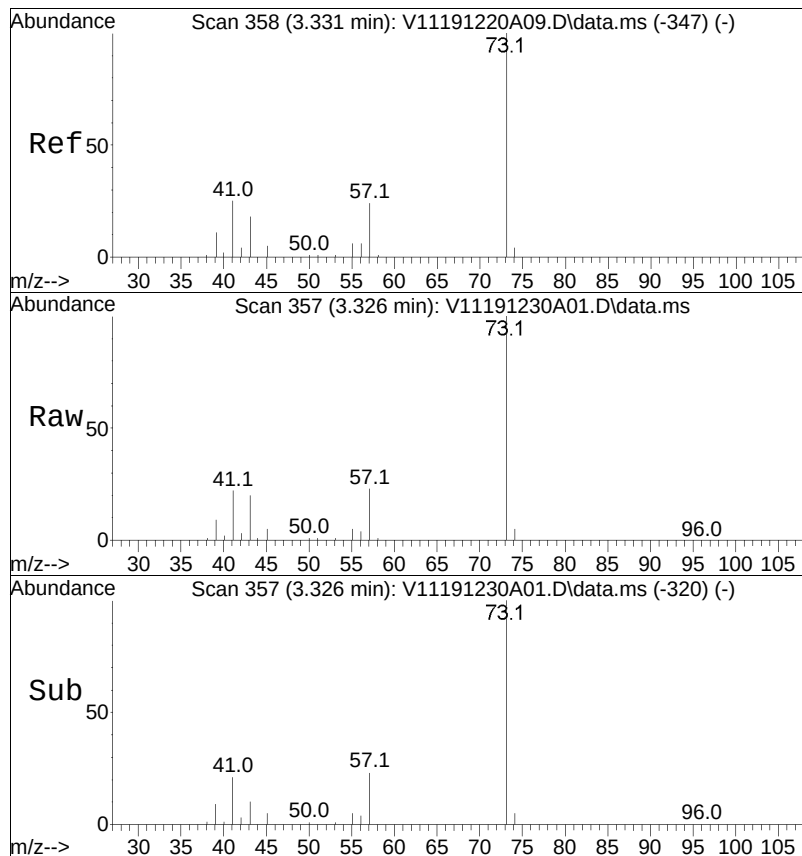




#19  
Methyl acetate  
Concen: 33.19 ug/L  
RT: 3.242 min Scan# 341  
Delta R.T. -0.005 min  
Lab File: V11191230A01.D  
Acq: 30 Dec 2019 05:40 am

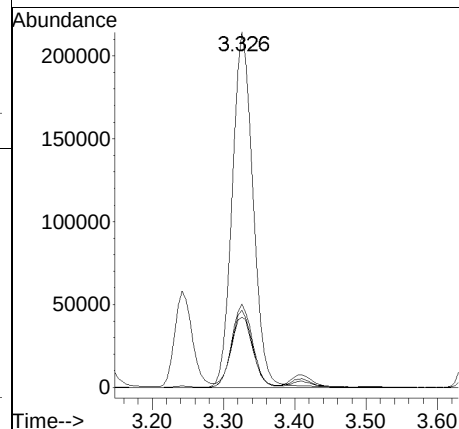
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 97967 |       |       |
| 74      | 22.9  |       | 11.3  | 16.9# |
| 59      | 16.0  |       | 10.4  | 15.6# |



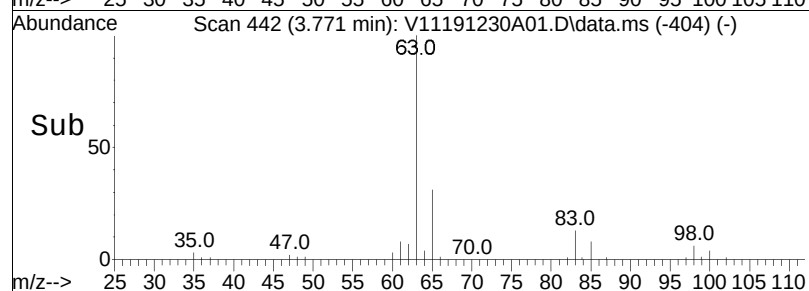
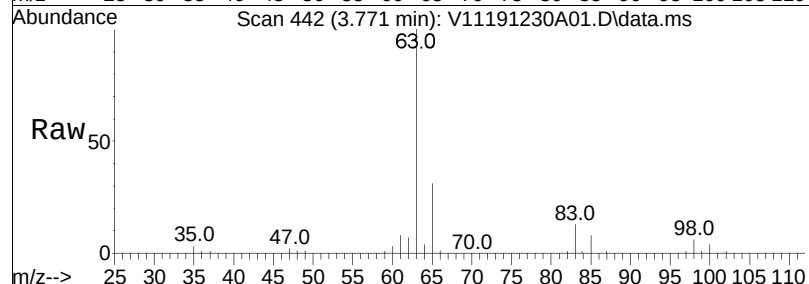
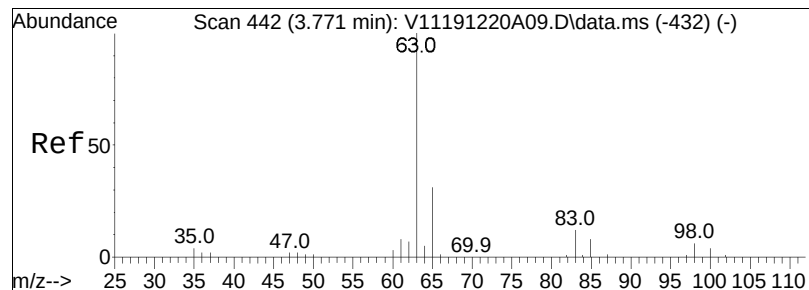


#20  
 Methyl tert-butyl ether  
 Concen: 39.23 ug/L  
 RT: 3.326 min Scan# 357  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 436869 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 57       | 23.4  | 19.6  | 40.6   |
| 43       | 20.5  | 18.5  | 38.3   |
| 41       | 21.6  | 20.3  | 42.1   |







#23

1,1-Dichloroethane

Concen: 36.76 ug/L

RT: 3.771 min Scan# 442

Delta R.T. 0.000 min

Lab File: V11191230A01.D

Acq: 30 Dec 2019 05:40 am

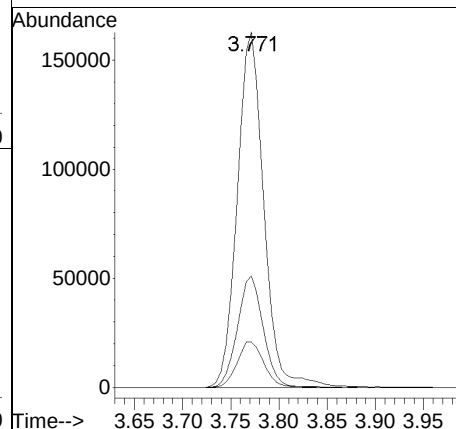
Tgt Ion: 63 Resp: 312229

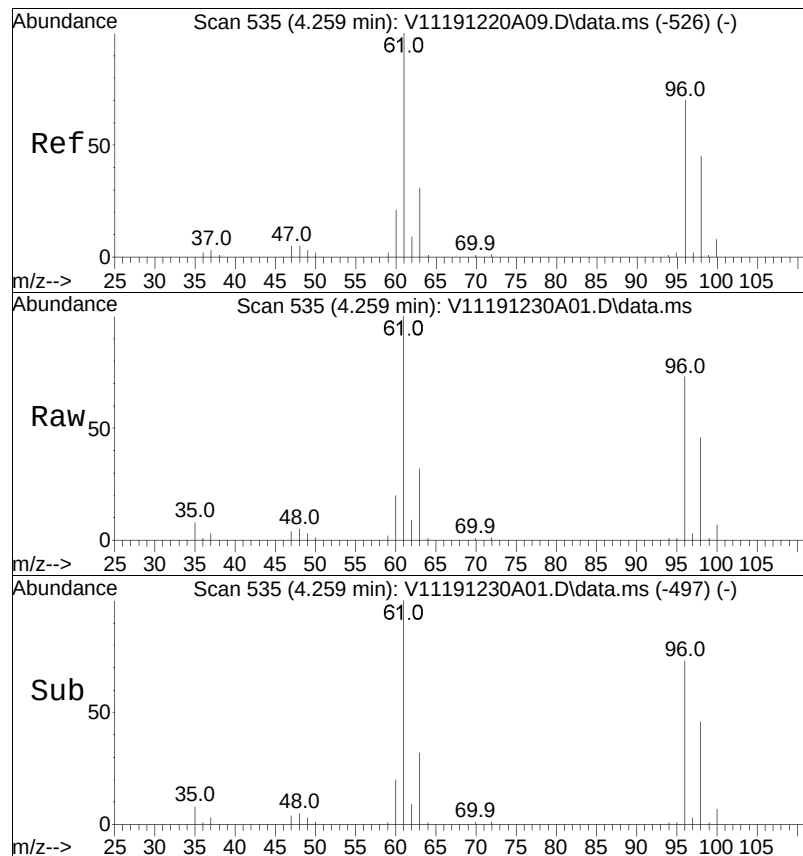
Ion Ratio Lower Upper

63 100

65 30.5 9.0 49.0

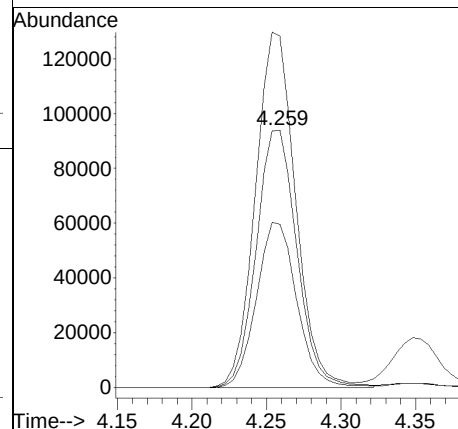
83 12.9 0.0 31.4

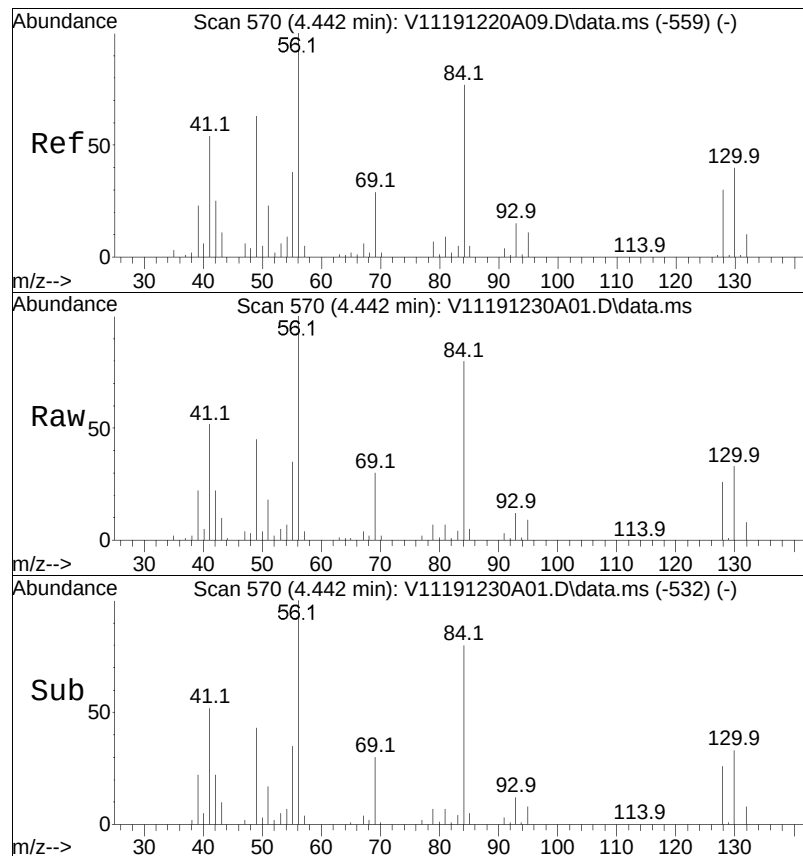




#28  
 cis-1,2-Dichloroethene  
 Concen: 40.14 ug/L  
 RT: 4.259 min Scan# 535  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

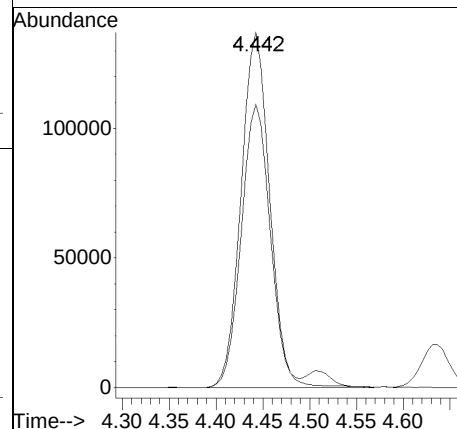
| Tgt Ion:  | 96    | Resp: | 177950 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 136.0 | 126.3 | 189.5  |
| 98        | 63.9  | 51.0  | 76.6   |

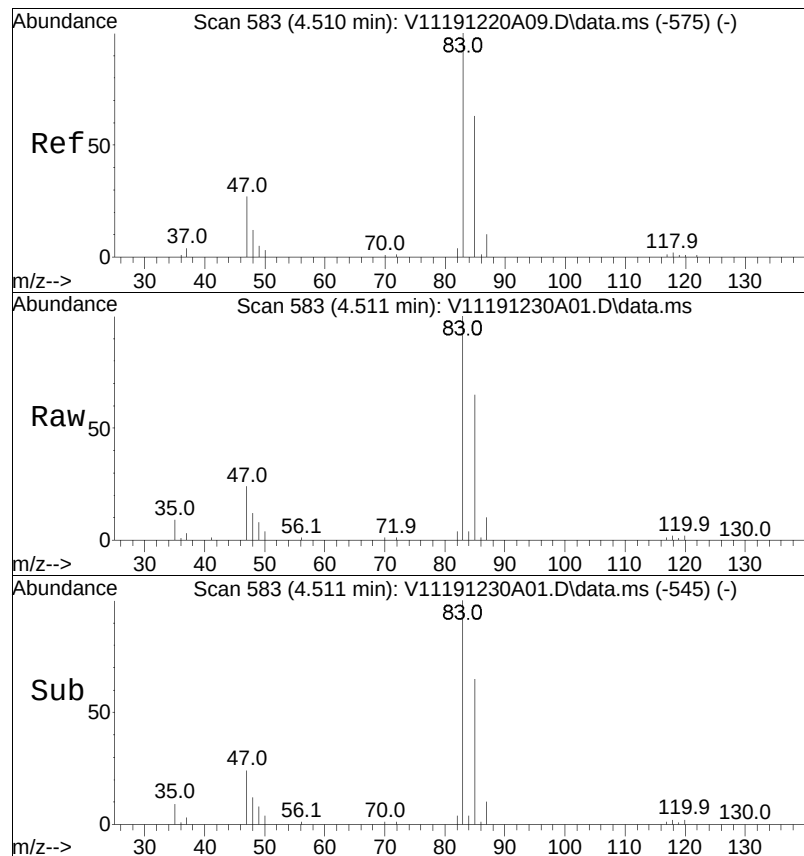




#31  
 Cyclohexane  
 Concen: 42.15 ug/L  
 RT: 4.442 min Scan# 570  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

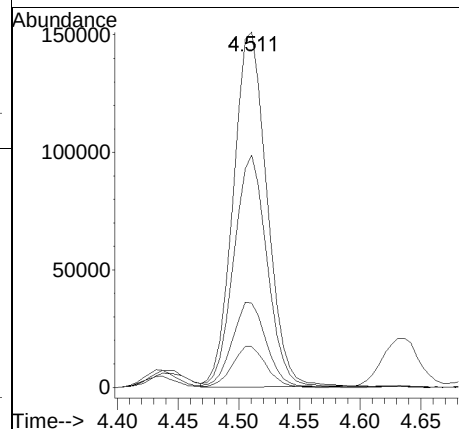
| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 56  | 100  |      |       |       |
| 84  | 80.8 | 40.5 | 84.1  |       |

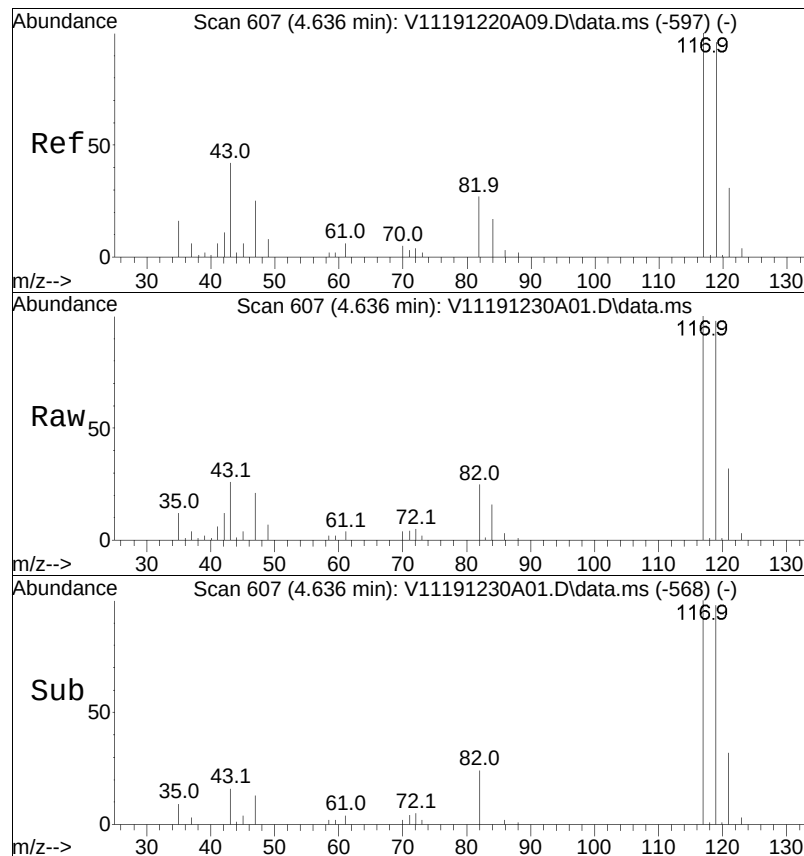




#32  
 Chloroform  
 Concen: 37.13 ug/L  
 RT: 4.511 min Scan# 583  
 Delta R.T. 0.001 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 292194 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.7  | 41.9  | 87.1   |
| 47        | 23.8  | 20.9  | 43.3   |
| 48        | 11.6  | 9.9   | 20.5   |





#34

Carbon tetrachloride

Concen: 40.04 ug/L

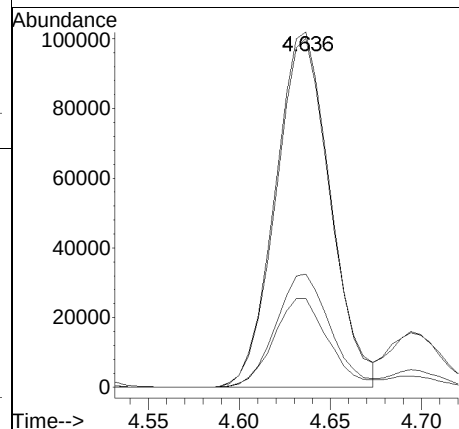
RT: 4.636 min Scan# 607

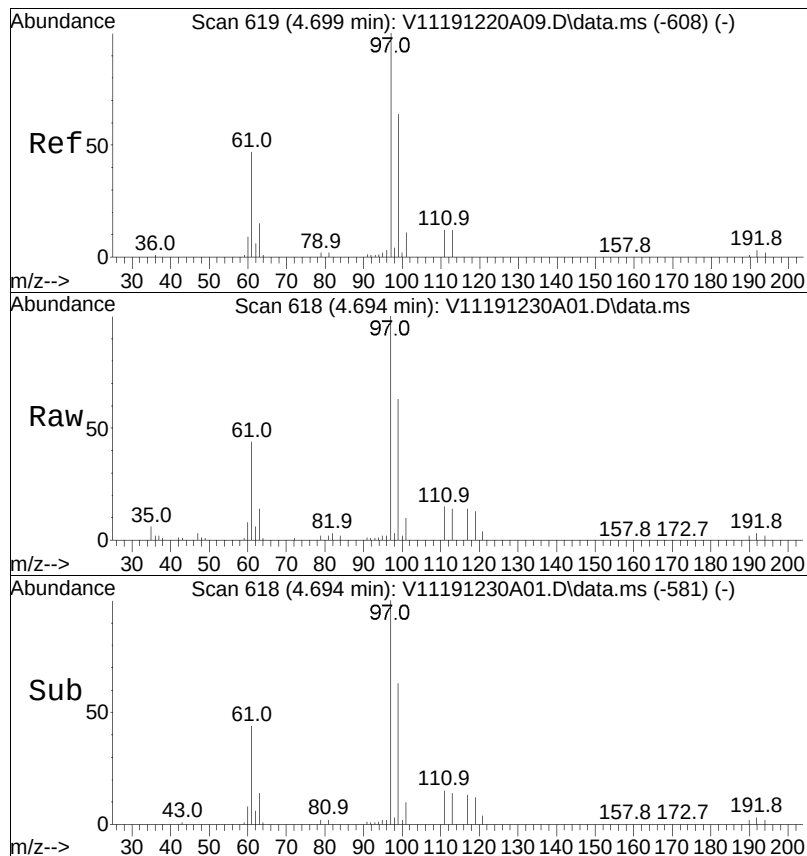
Delta R.T. 0.000 min

Lab File: V11191230A01.D

Acq: 30 Dec 2019 05:40 am

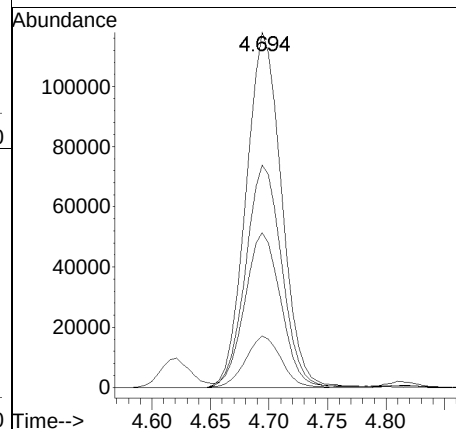
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 215039 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 96.7  | 64.0  | 132.8  |
| 121       | 31.4  | 20.7  | 42.9   |
| 82        | 24.9  | 16.3  | 33.8   |

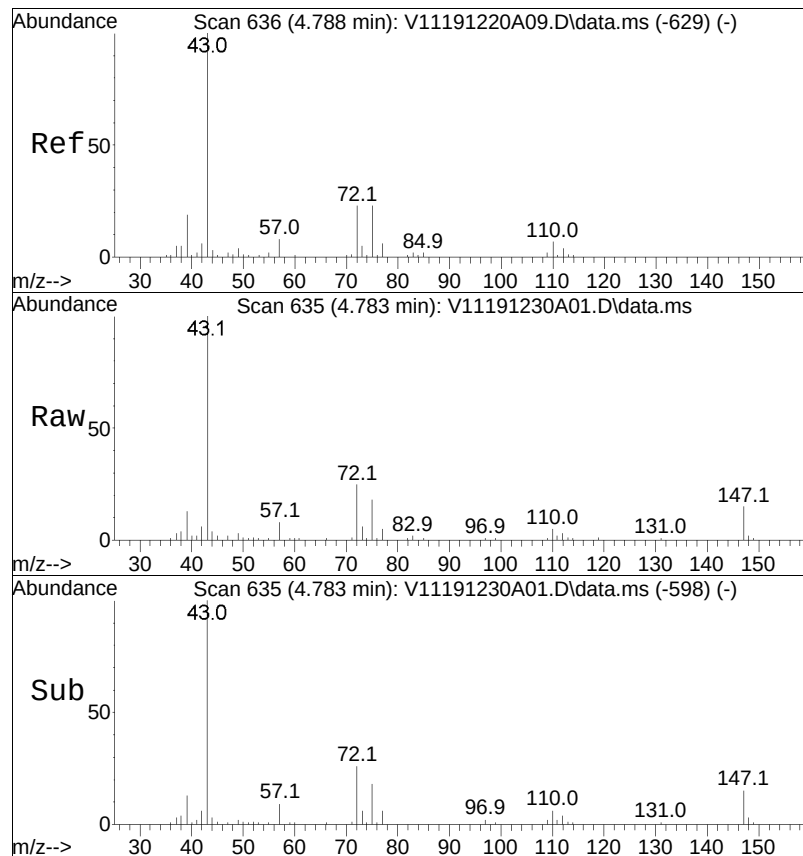




#37  
 1,1,1-Trichloroethane  
 Concen: 39.33 ug/L  
 RT: 4.694 min Scan# 618  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

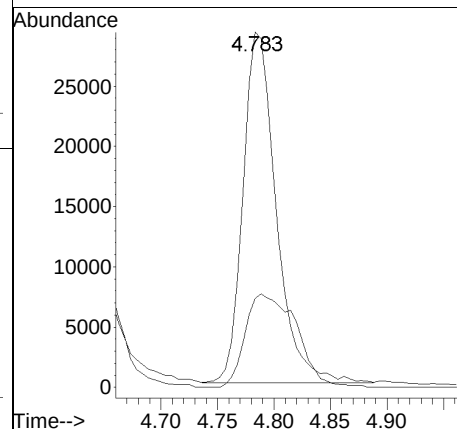
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 249463 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.7  | 41.5  | 86.1   |
| 61       | 44.5  | 32.2  | 67.0   |
| 63       | 14.3  | 10.1  | 20.9   |

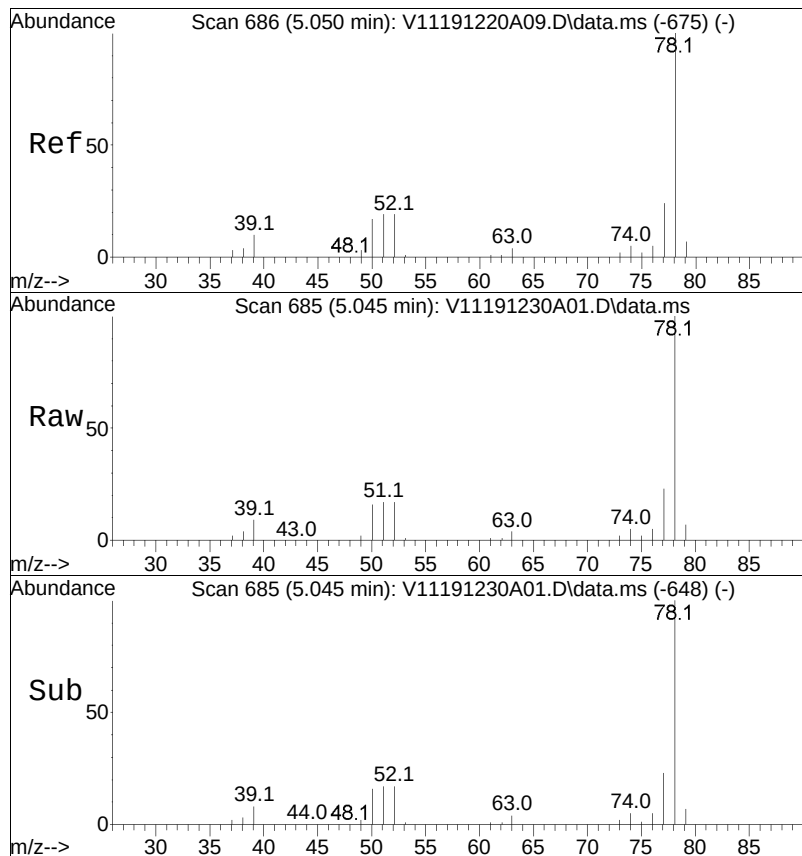




#39  
 2-Butanone  
 Concen: 35.00 ug/L  
 RT: 4.783 min Scan# 635  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

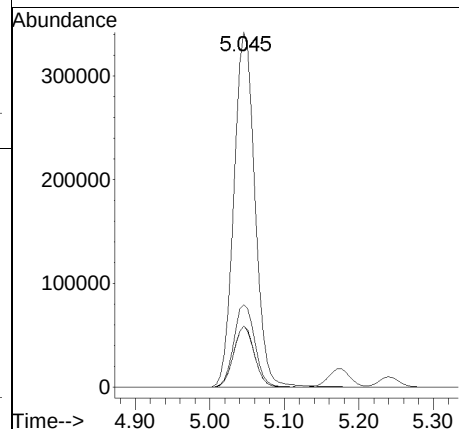
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 41.2  | 21.0  | 31.6  |



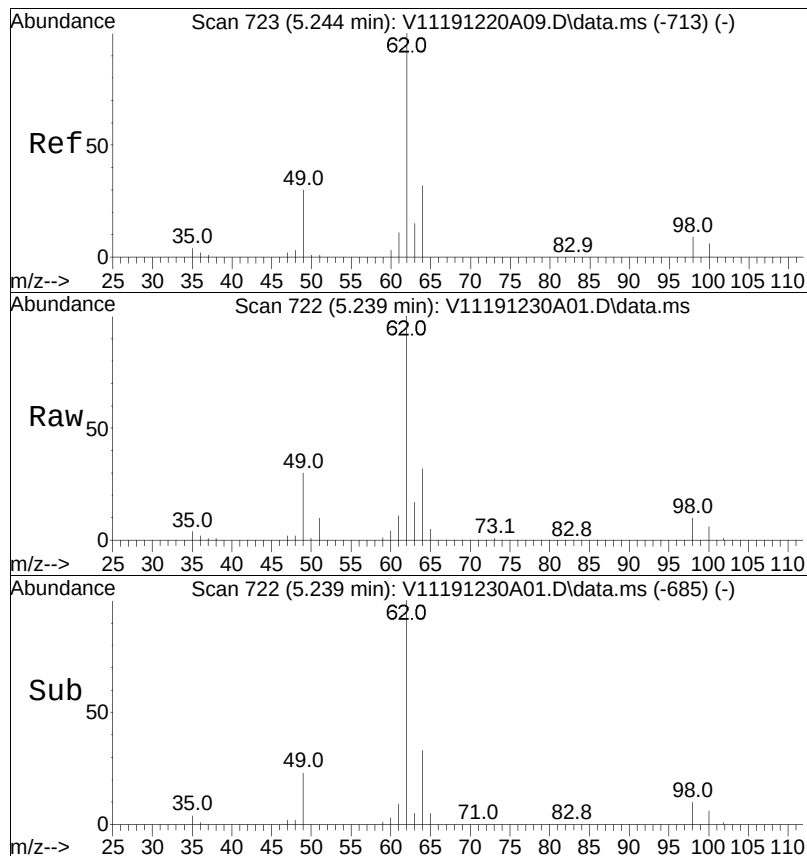


#41  
Benzene  
Concen: 38.69 ug/L  
RT: 5.045 min Scan# 685  
Delta R.T. -0.005 min  
Lab File: V11191230A01.D  
Acq: 30 Dec 2019 05:40 am

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 675219 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 23.5  | 15.1  | 31.3   |
| 51       | 17.1  | 15.8  | 32.8   |
| 52       | 16.9  | 15.6  | 32.4   |

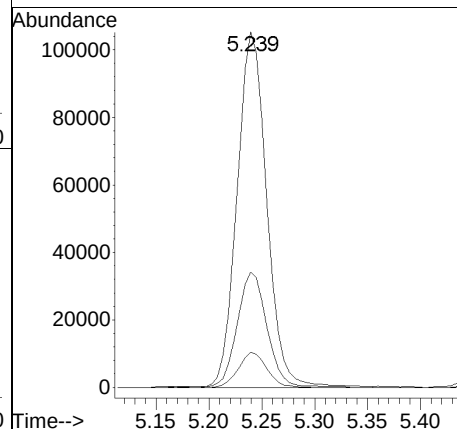


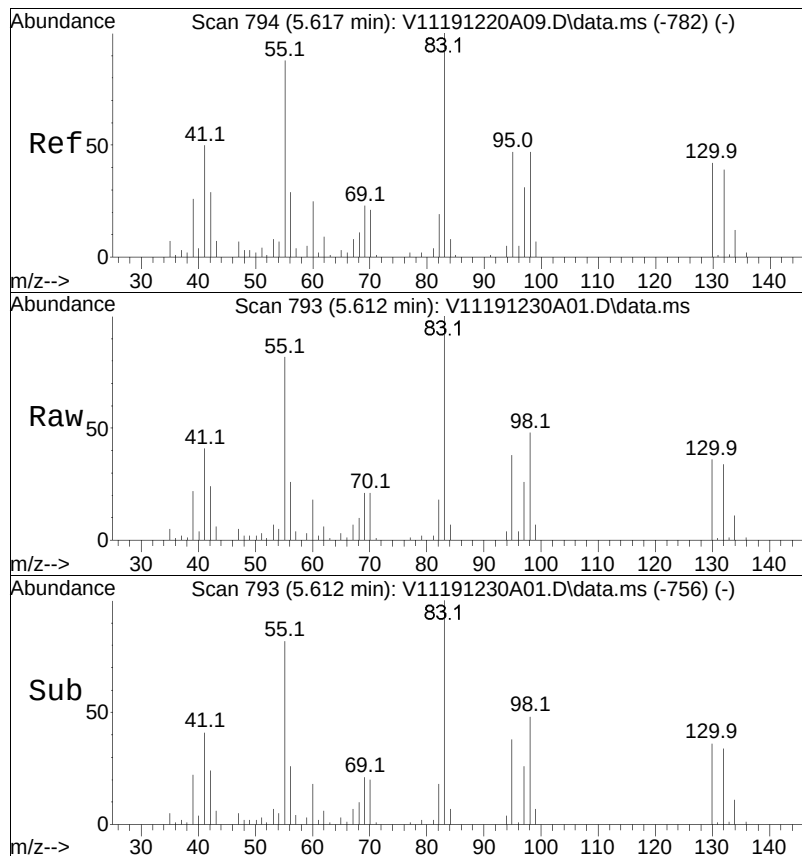




#44  
 1,2-Dichloroethane  
 Concen: 34.38 ug/L  
 RT: 5.239 min Scan# 722  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

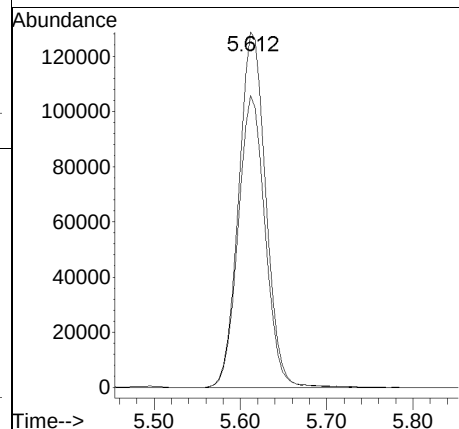
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 62 | Resp: | 205616 |
| Ion | Ratio   | Lower | Upper  |
| 62  | 100     |       |        |
| 64  | 32.5    | 11.1  | 51.1   |
| 98  | 9.5     | 0.0   | 28.0   |

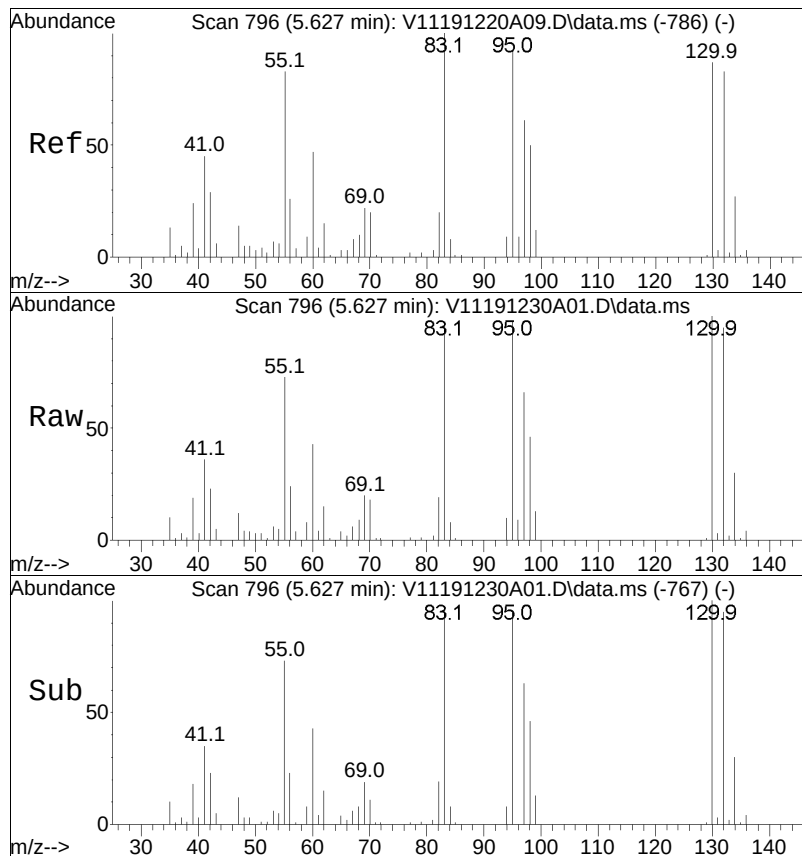




#47  
 Methyl cyclohexane  
 Concen: 43.25 ug/L  
 RT: 5.612 min Scan# 793  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

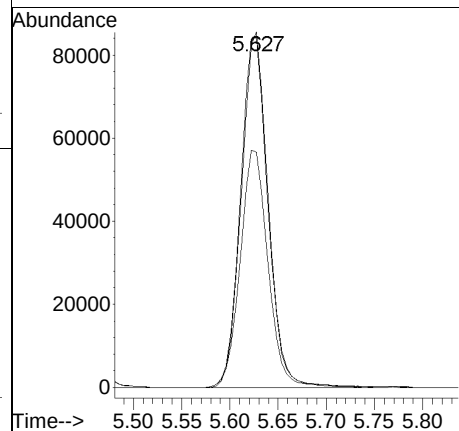
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 82.0  | 88.1  | 132.1# |

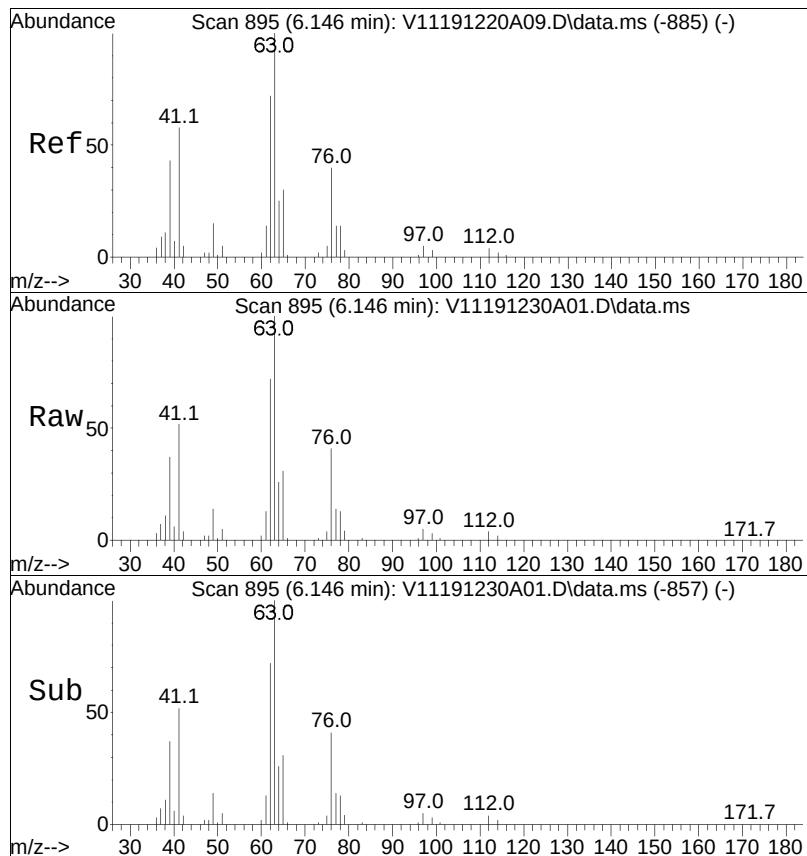




#48  
 Trichloroethene  
 Concen: 39.51 ug/L  
 RT: 5.627 min Scan# 796  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

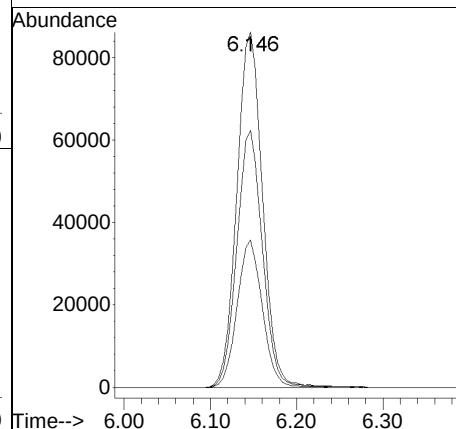
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 68.7  | 54.3  | 81.5  |
| 130     | 99.5  | 84.6  | 126.8 |

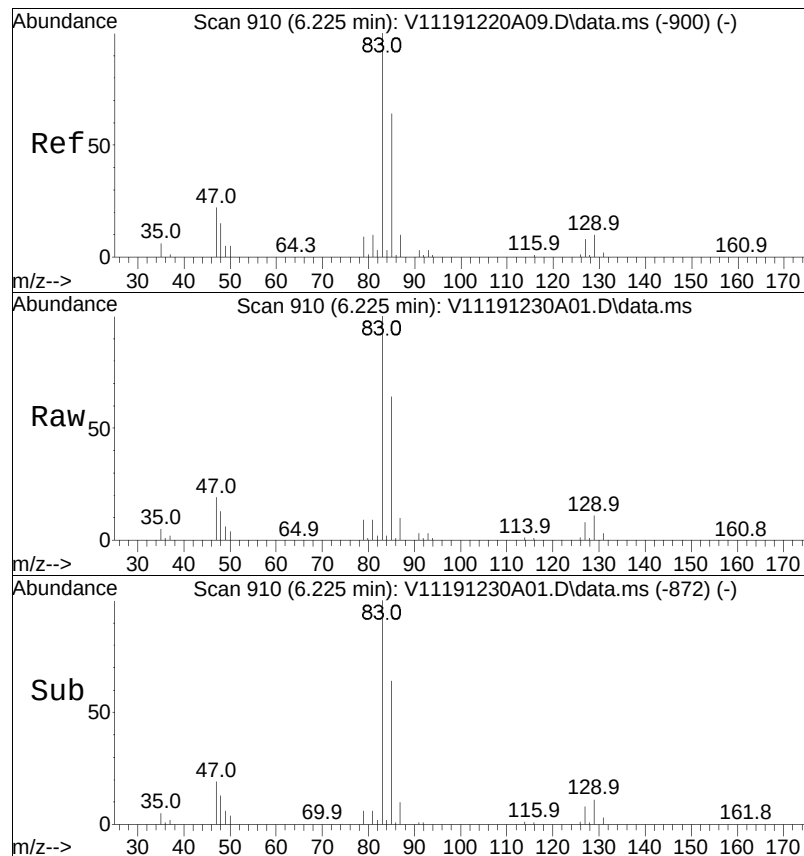




#51  
 1,2-Dichloropropane  
 Concen: 37.21 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 62      | 72.0  | 57.9  | 86.9  |
| 76      | 40.6  | 30.1  | 45.1  |





#54

Bromodichloromethane

Concen: 36.71 ug/L

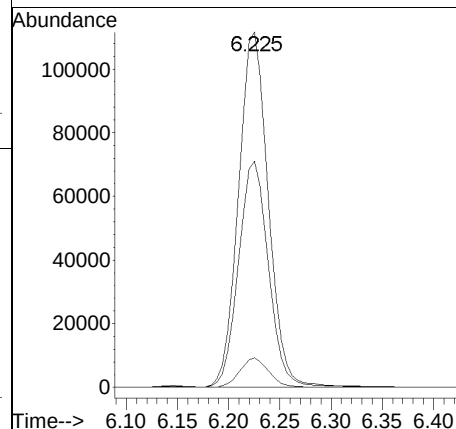
RT: 6.225 min Scan# 910

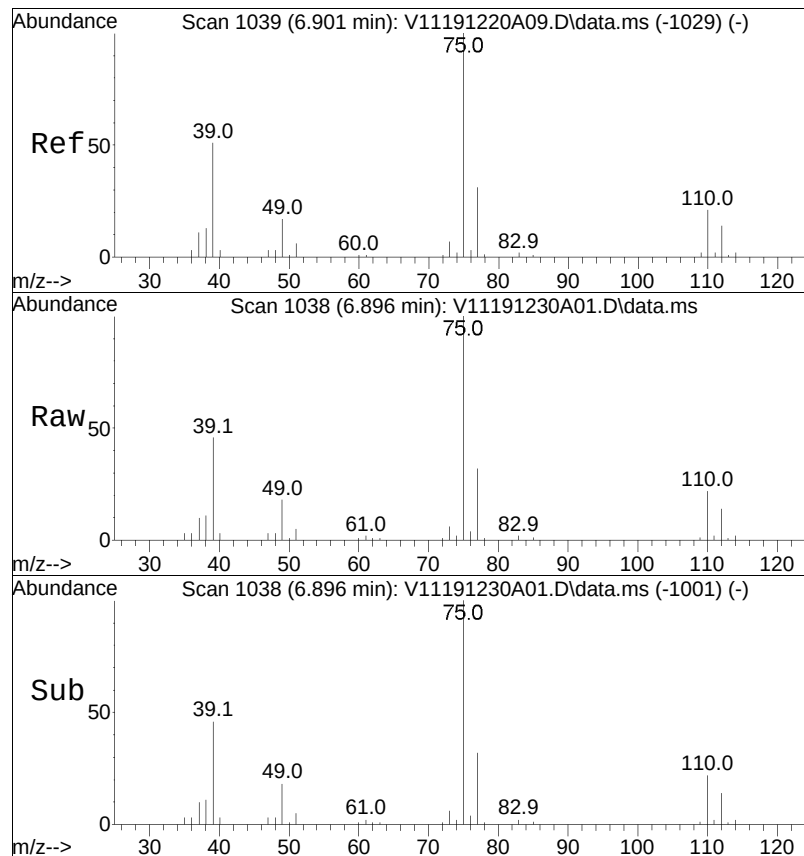
Delta R.T. 0.000 min

Lab File: V11191230A01.D

Acq: 30 Dec 2019 05:40 am

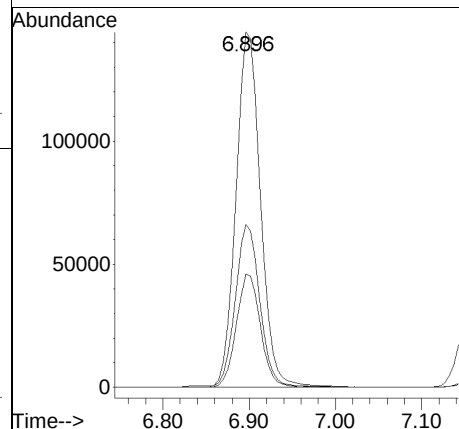
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 226490 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 64.1    | 51.6  | 77.4   |
| 127 | 8.1     | 7.1   | 10.7   |

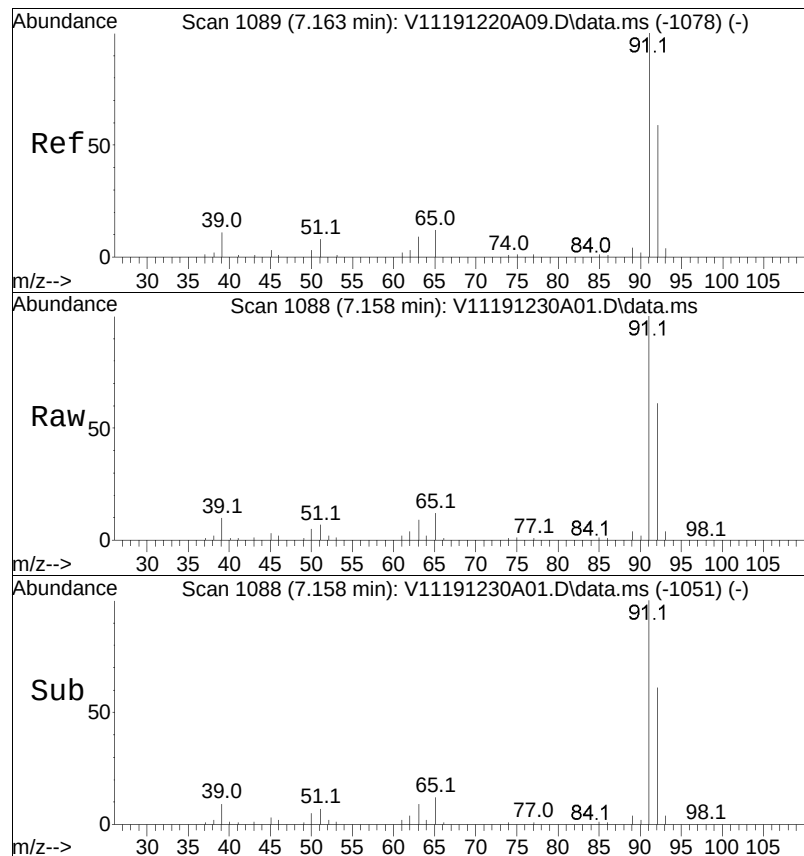




#58  
 cis-1,3-Dichloropropene  
 Concen: 40.88 ug/L  
 RT: 6.896 min Scan# 1038  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

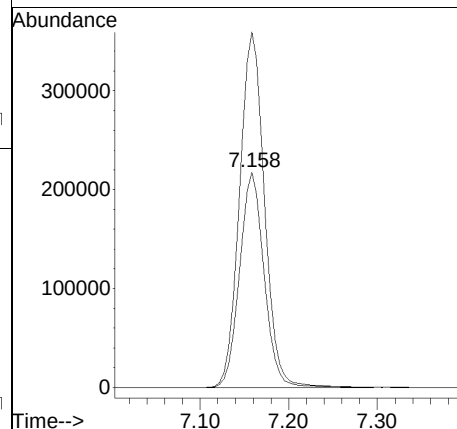
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 285910 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 31.6  | 24.9  | 37.3   |
| 39        | 46.0  | 51.8  | 77.8#  |

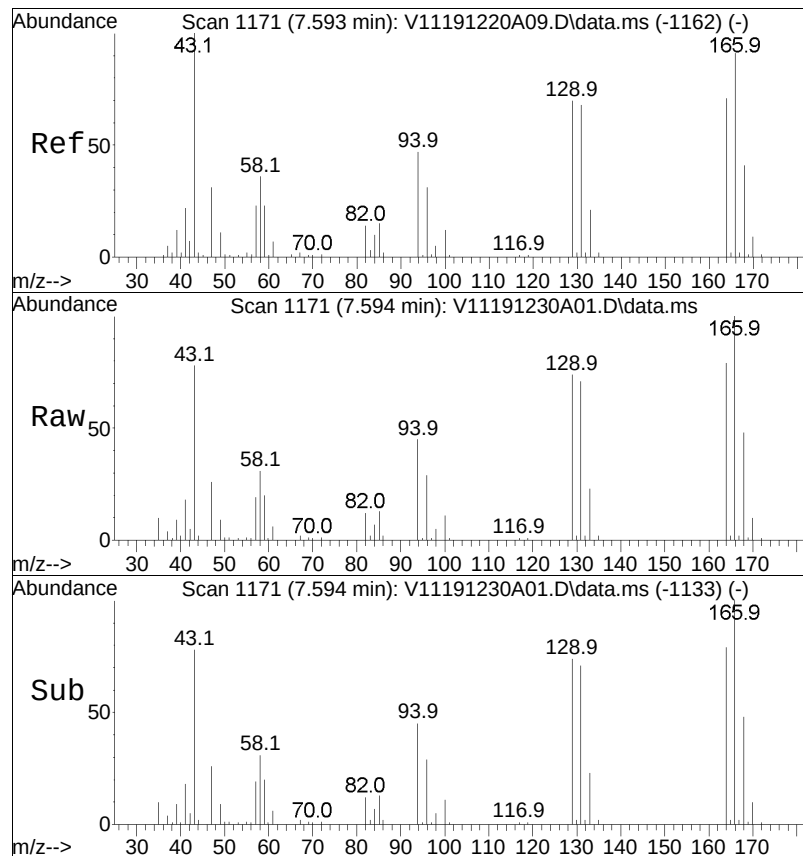




#61  
 Toluene  
 Concen: 35.64 ug/L  
 RT: 7.158 min Scan# 1088  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

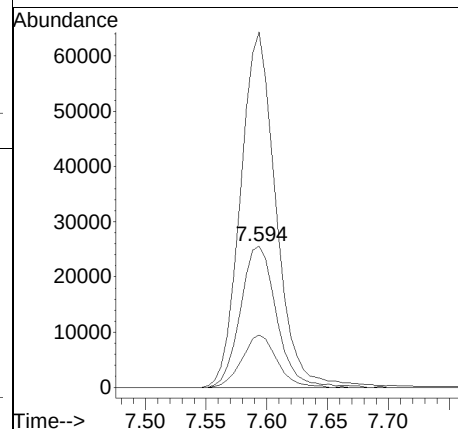
| Tgt Ion:  | 92    | Resp: | 416860 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 92        | 100   |       |        |
| 91        | 168.1 | 133.7 | 200.5  |



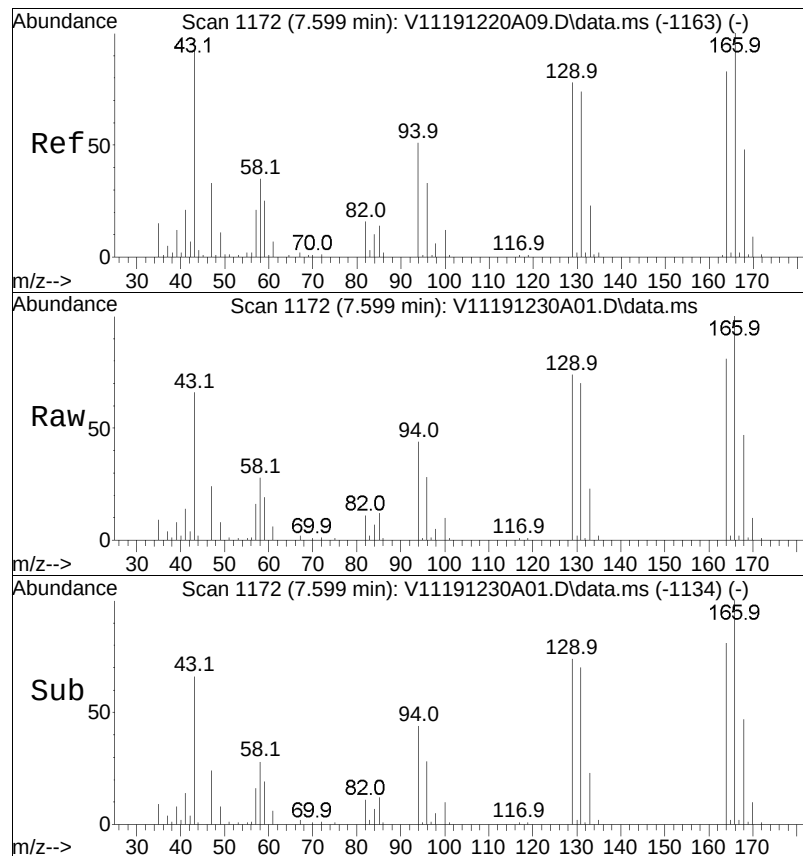


#62  
 4-Methyl-2-pentanone  
 Concen: 35.61 ug/L  
 RT: 7.594 min Scan# 1171  
 Delta R.T. 0.001 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   |       |       |       |
| 100 | 35.9  | 22.0  | 33.0  | #     |
| 43  | 248.4 | 236.9 | 355.3 |       |

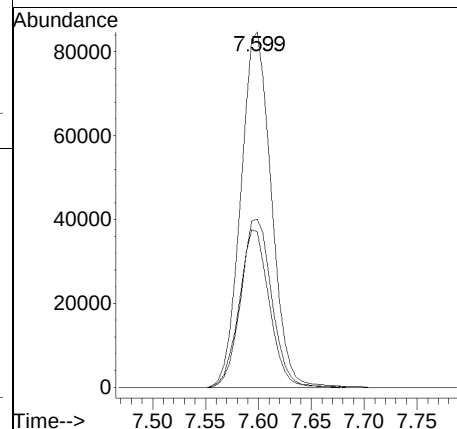


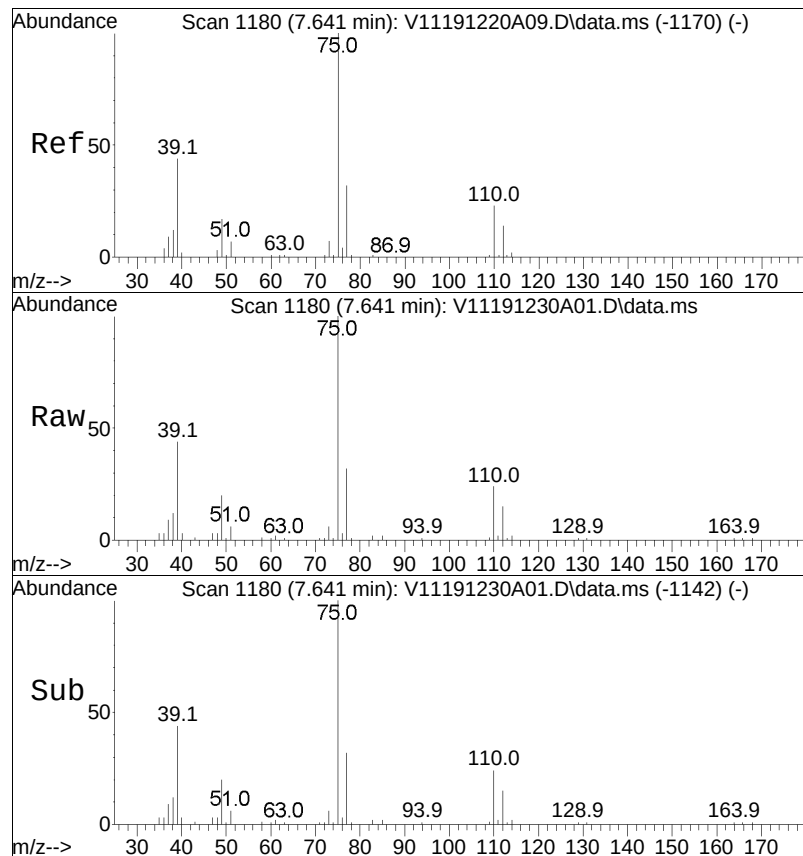




#63  
 Tetrachloroethene  
 Concen: 38.98 ug/L  
 RT: 7.599 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

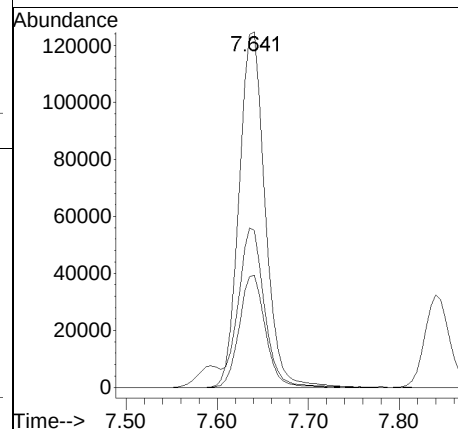
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 170533 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 168       | 47.7  | 28.2  | 68.2   |
| 94        | 43.7  | 26.3  | 66.3   |

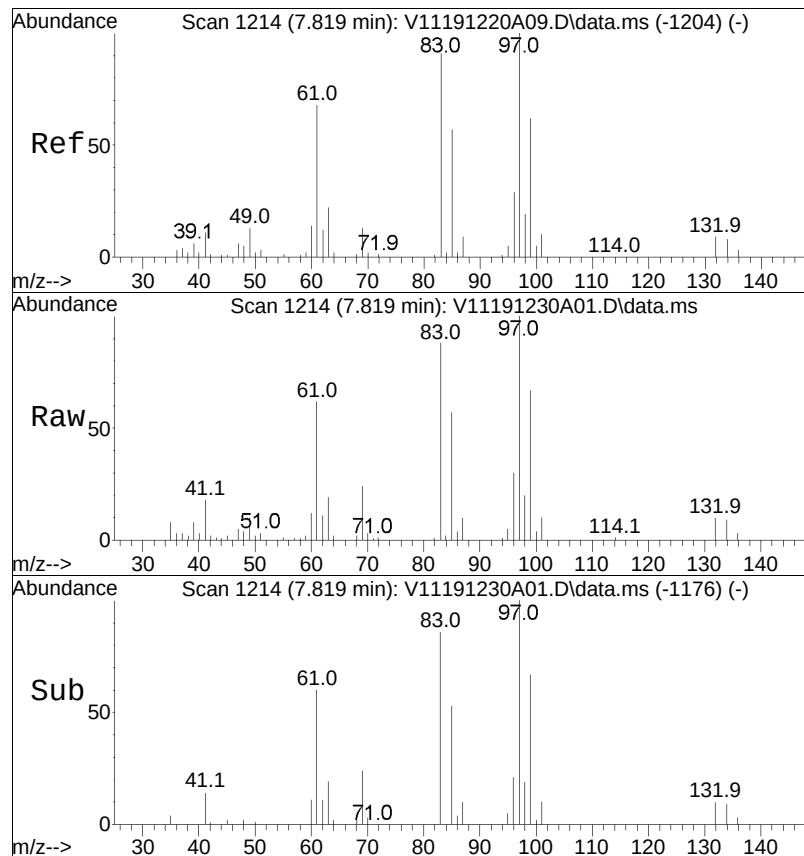




#65  
 trans-1,3-Dichloropropene  
 Concen: 35.44 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

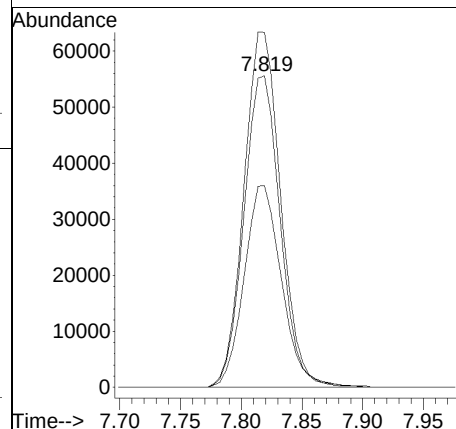
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.7  | 11.4  | 51.4  |
| 39      | 45.2  | 50.3  | 90.3# |

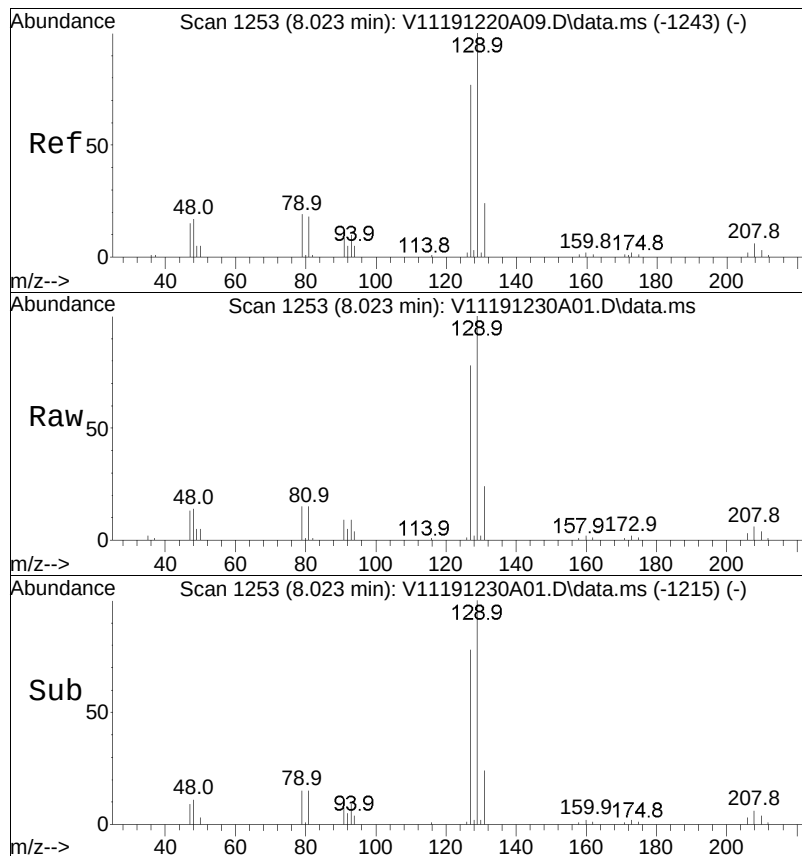




#68  
 1,1,2-Trichloroethane  
 Concen: 33.13 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

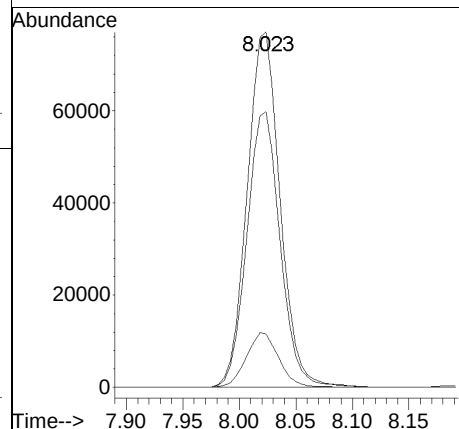
| Tgt Ion:  | 83    | Resp: | 115935 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 115.5 | 97.6  | 137.6  |
| 85        | 66.7  | 46.8  | 86.8   |

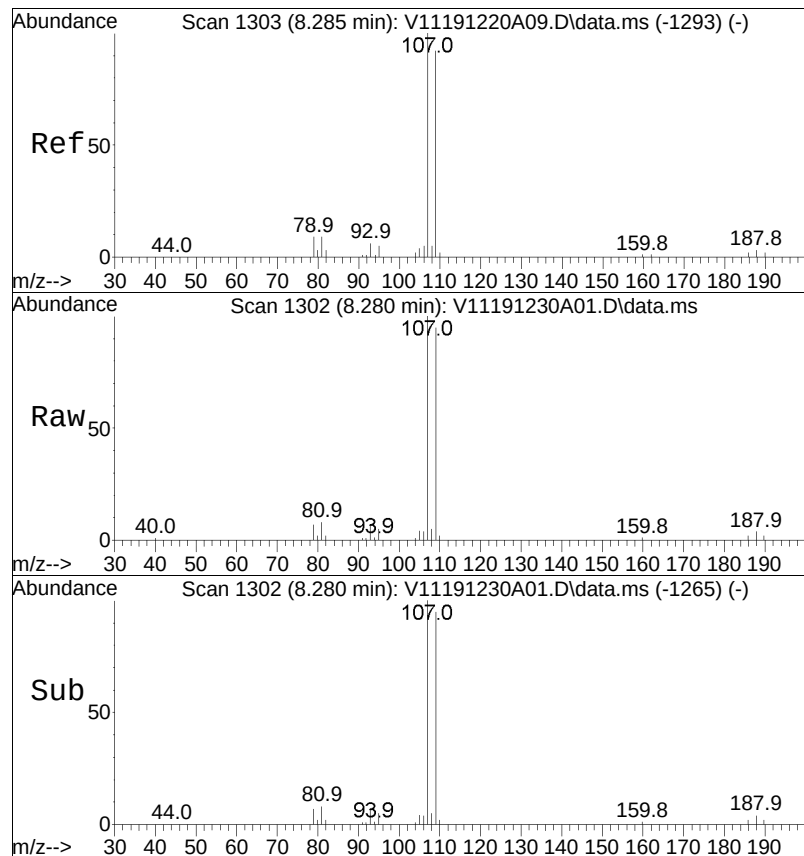




#69  
 Chlorodibromomethane  
 Concen: 34.67 ug/L  
 RT: 8.023 min Scan# 1253  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

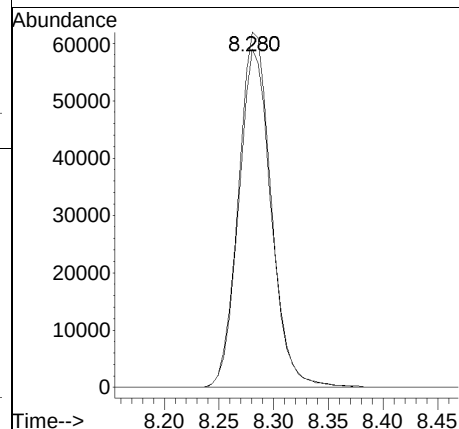
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 129     | 100   | 156793 |       |       |
| 81      | 15.2  |        | 0.0   | 36.0  |
| 127     | 78.2  |        | 56.0  | 96.0  |

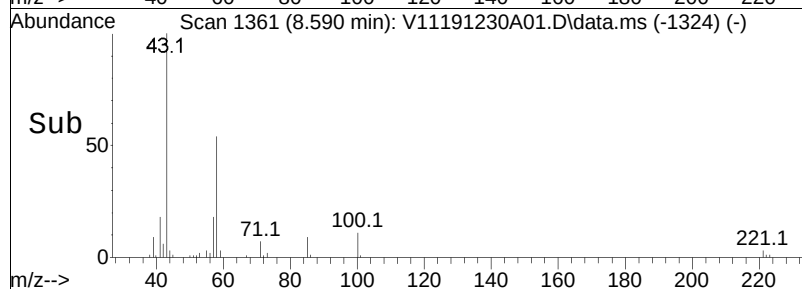
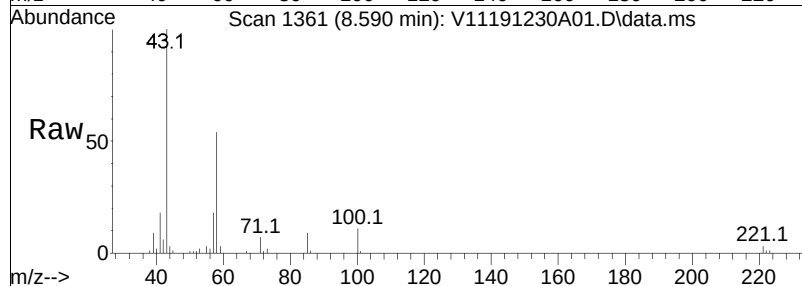
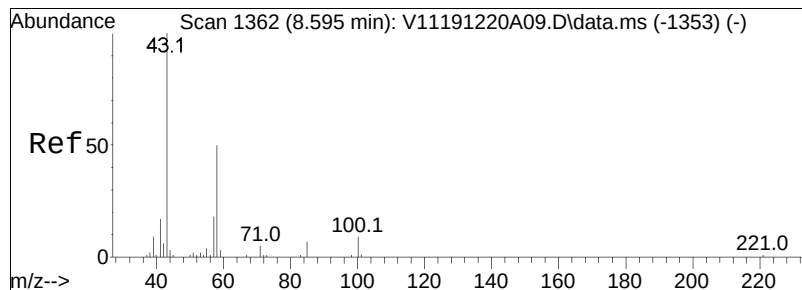




#71  
 1,2-Dibromoethane  
 Concen: 35.11 ug/L  
 RT: 8.280 min Scan# 1302  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.0  | 76.2  | 114.4 |





#72

2-Hexanone

Concen: 34.43 ug/L

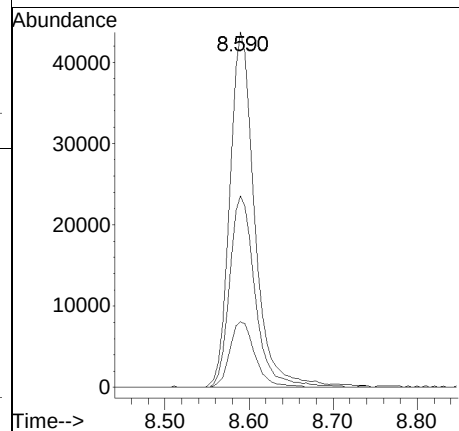
RT: 8.590 min Scan# 1361

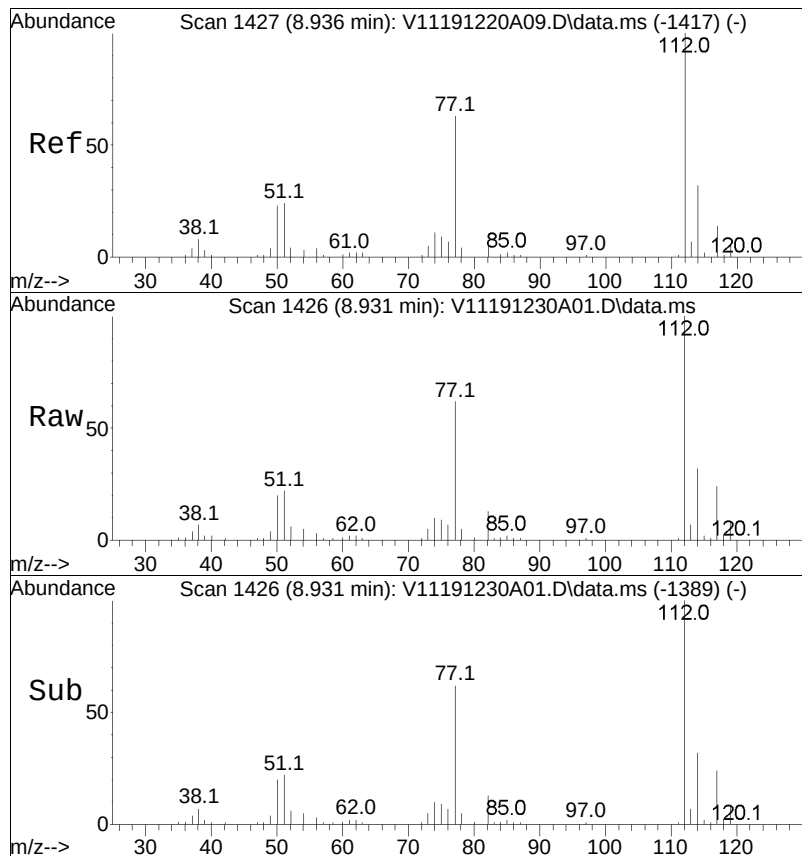
Delta R.T. -0.005 min

Lab File: V11191230A01.D

Acq: 30 Dec 2019 05:40 am

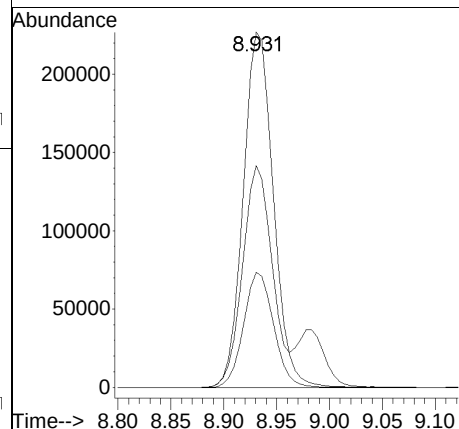
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 90611 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 55.2  | 37.9  | 56.9  |
| 57        | 18.7  | 12.6  | 19.0  |

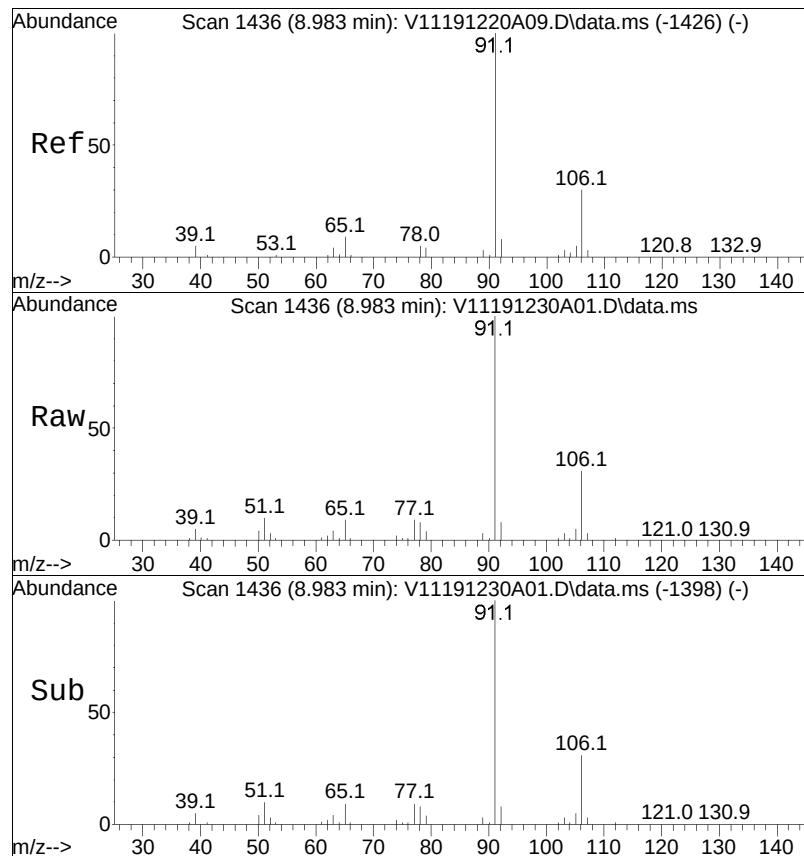




#73  
 Chlorobenzene  
 Concen: 35.44 ug/L  
 RT: 8.931 min Scan# 1426  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

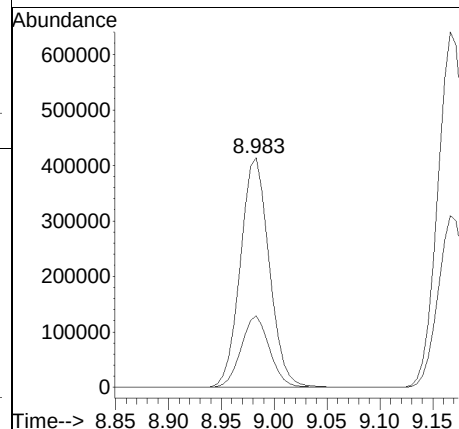
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 112 | 100  |       | 449640 |       |       |
| 77  | 61.9 | 47.0  |        | 70.4  |       |
| 114 | 32.3 | 25.9  |        | 38.9  |       |



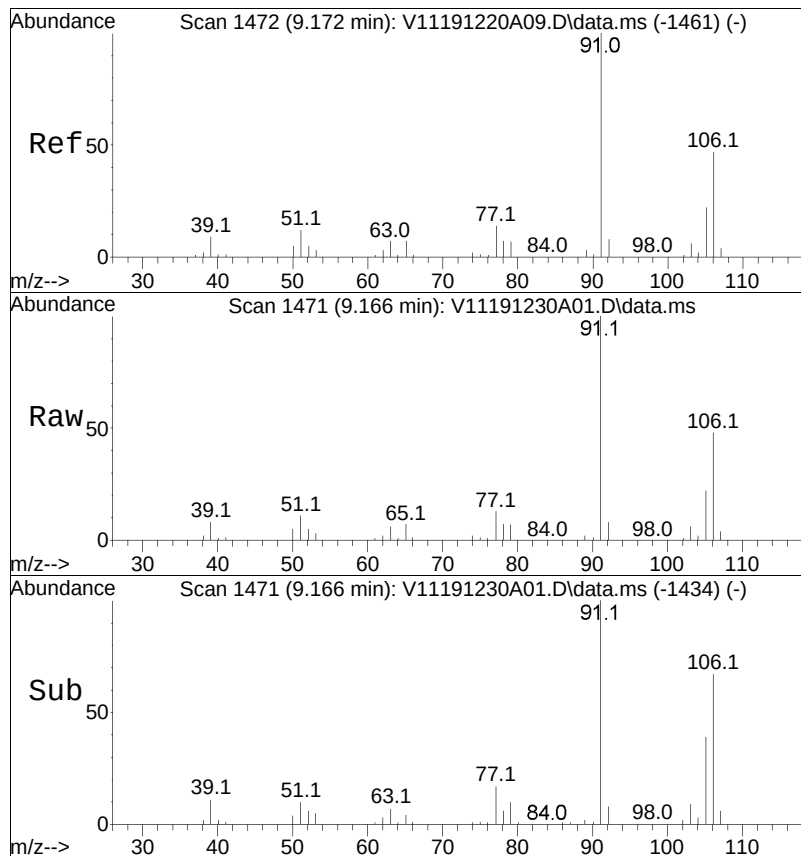


#74  
 Ethylbenzene  
 Concen: 37.33 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

Tgt Ion: 91 Resp: 785162  
 Ion Ratio Lower Upper  
 91 100  
 106 30.8 25.0 37.4

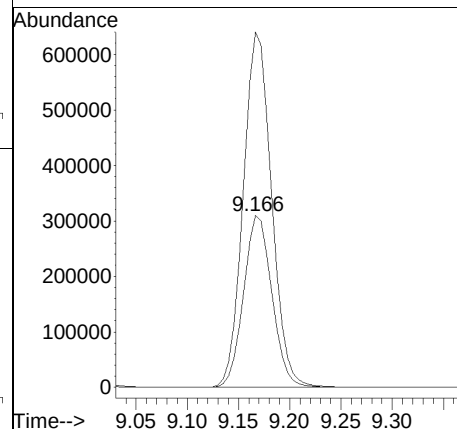


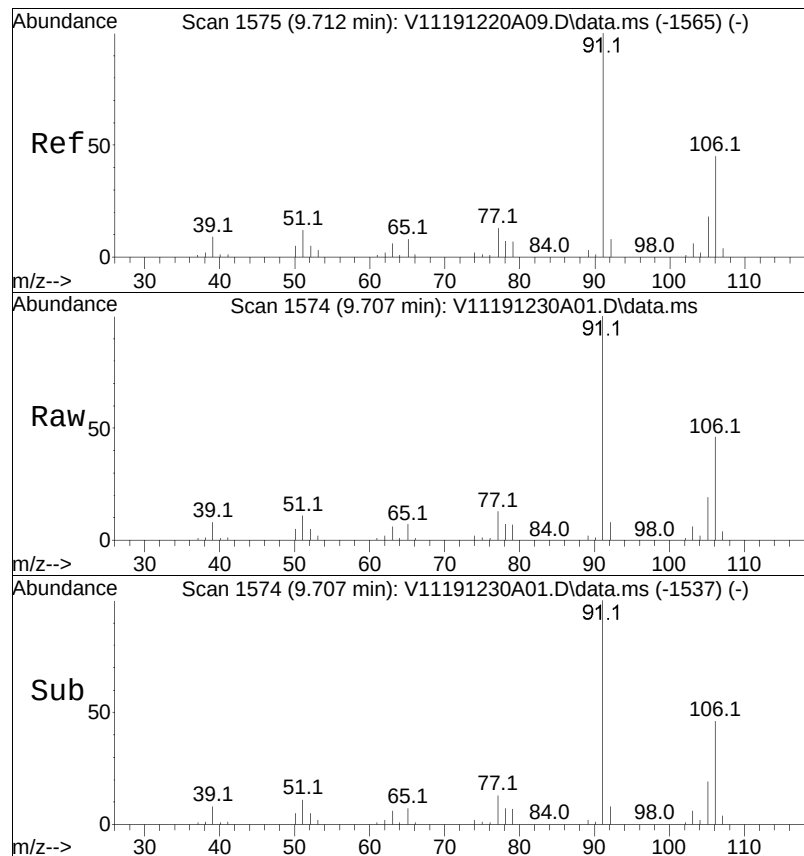




#76  
 p/m Xylene  
 Concen: 79.17 ug/L  
 RT: 9.166 min Scan# 1471  
 Delta R.T. -0.006 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

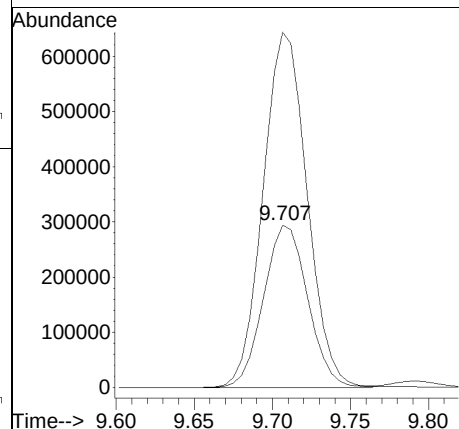
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 206.1 | 159.3 | 238.9 |       |

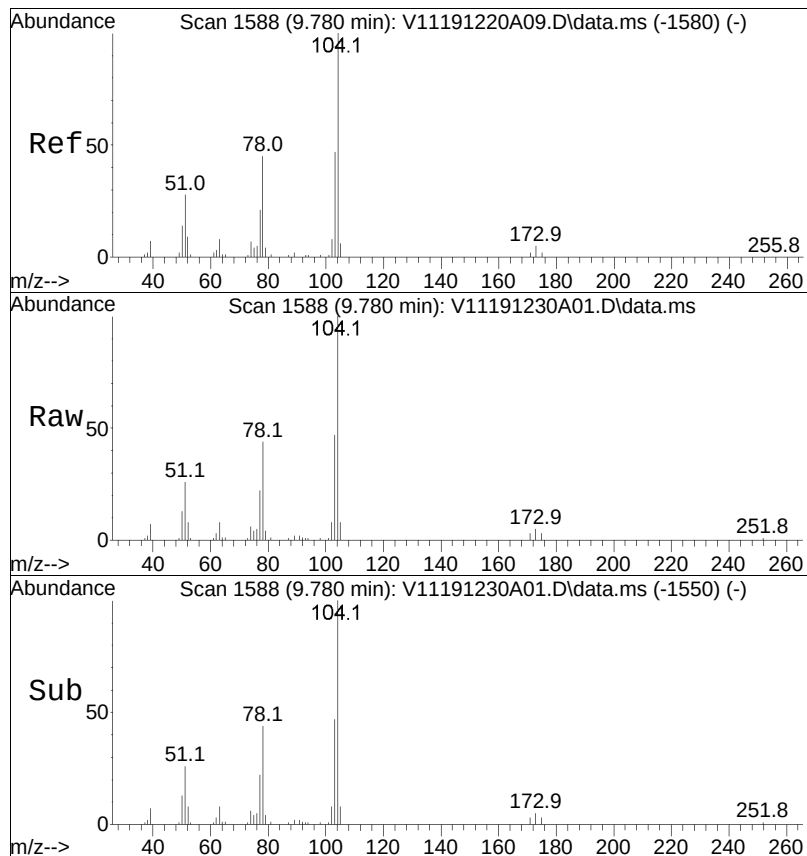




#77  
o Xylene  
Concen: 79.20 ug/L  
RT: 9.707 min Scan# 1574  
Delta R.T. -0.005 min  
Lab File: V11191230A01.D  
Acq: 30 Dec 2019 05:40 am

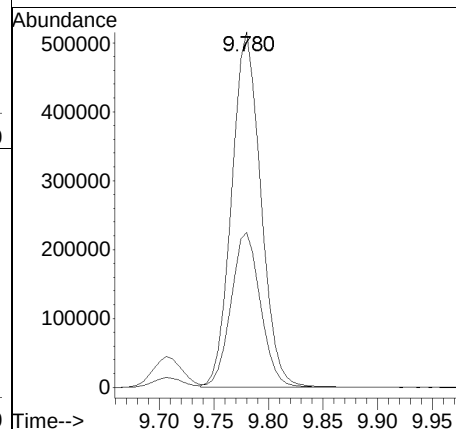
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 218.2 | 170.2 | 255.2 |       |

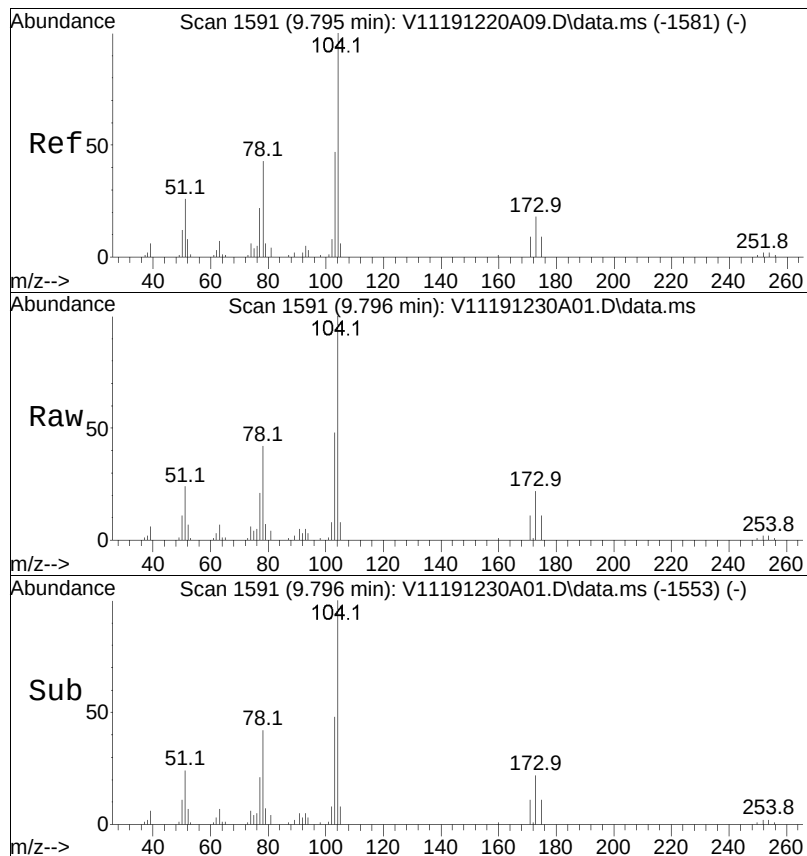




#78  
 Styrene  
 Concen: 78.53 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

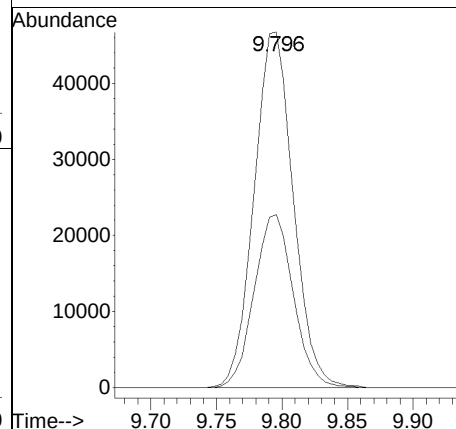
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 44.1  | 34.4  | 51.6  |

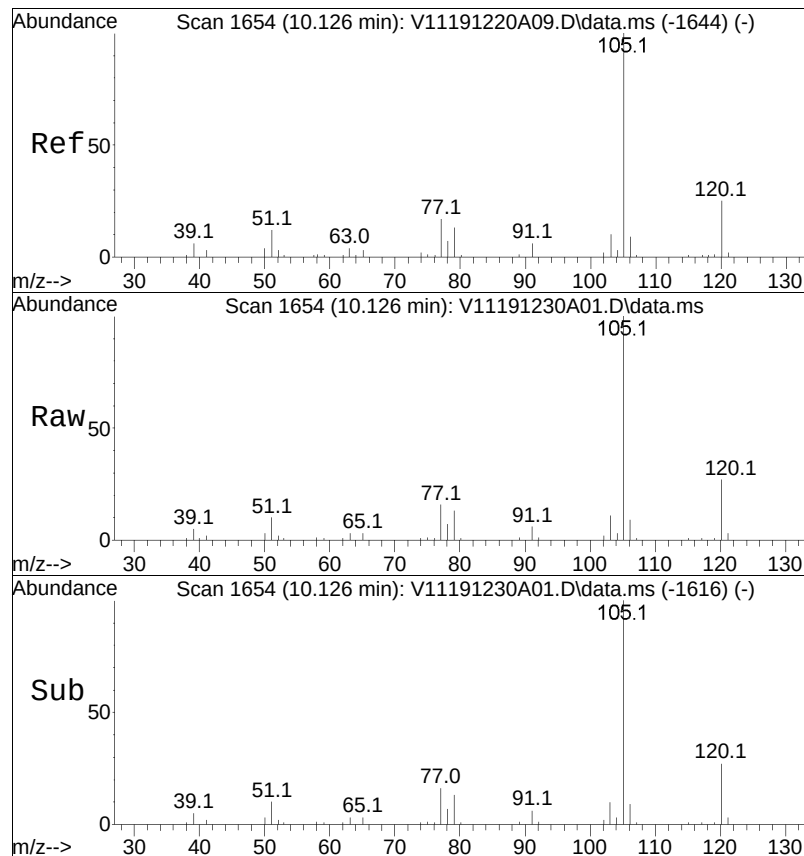




#80  
 Bromoform  
 Concen: 34.52 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

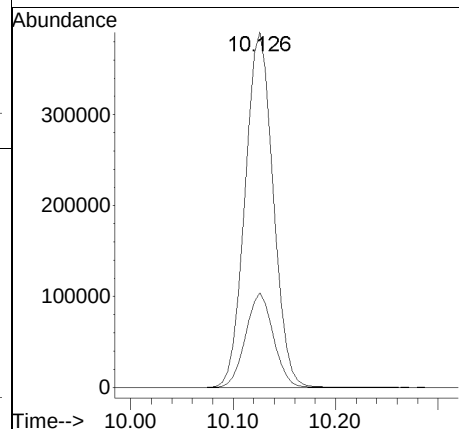
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.6  | 28.1  | 68.1  |

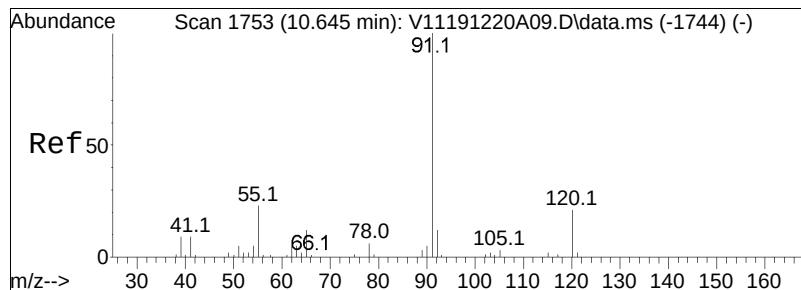




#82  
 Isopropylbenzene  
 Concen: 38.46 ug/L  
 RT: 10.126 min Scan# 1654  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

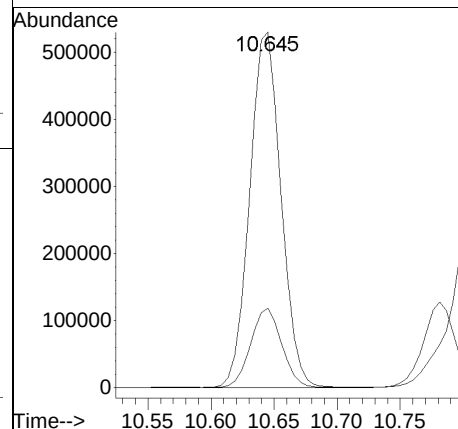
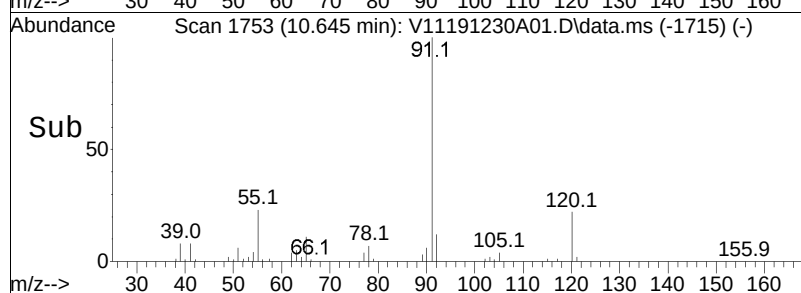
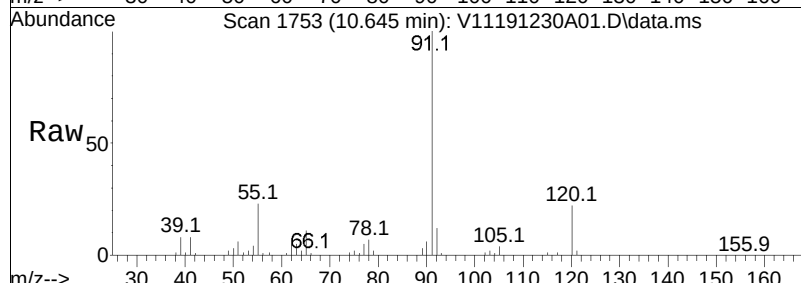
| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 105 | 105 | 100   |       |       |
| 120 | 120 | 26.2  | 6.9   | 46.9  |

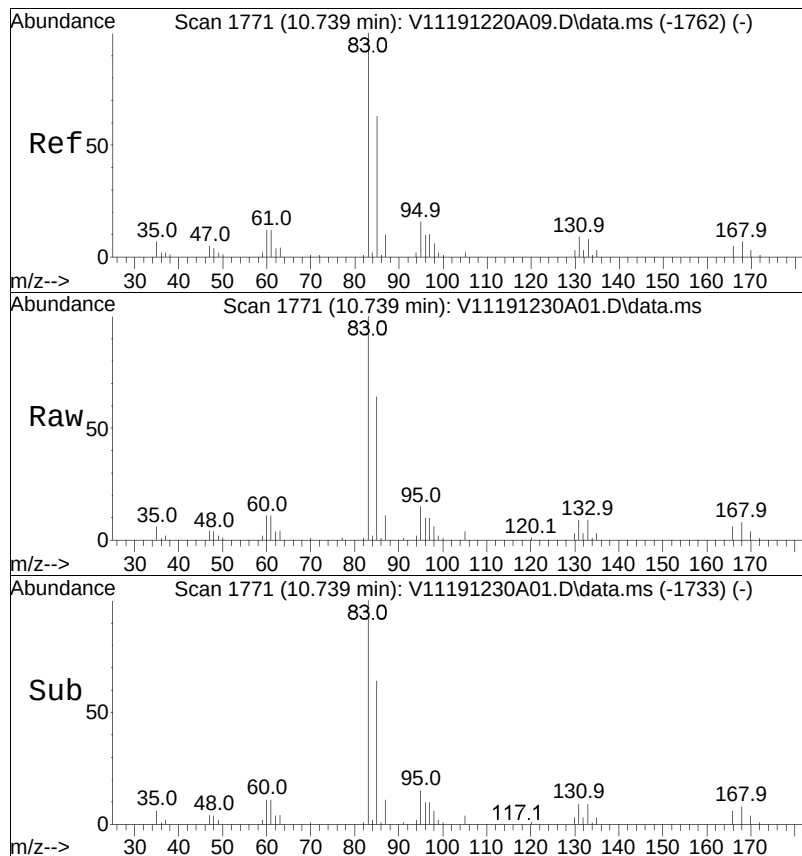




#85  
 n-Propylbenzene  
 Concen: 36.48 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

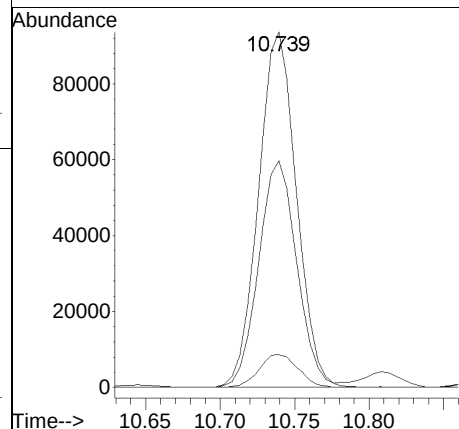
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 22.0  | 18.6  | 27.8  |

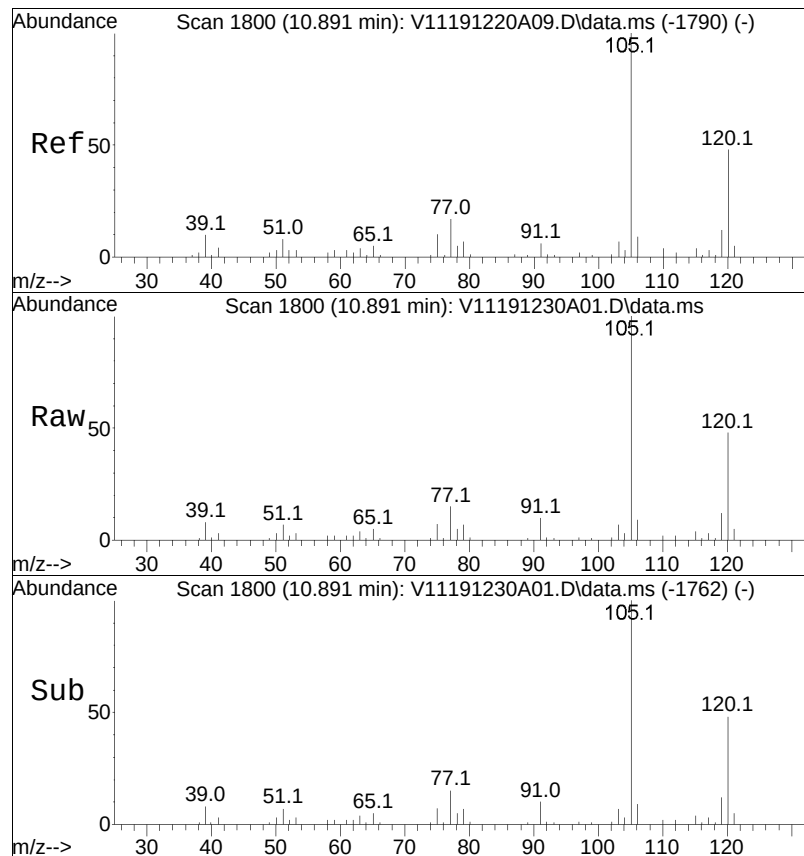




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 30.87 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

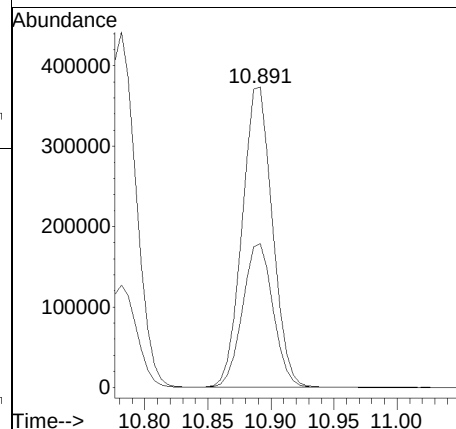
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.5   | 0.0   | 30.1  |
| 85      | 64.6  | 45.8  | 85.8  |



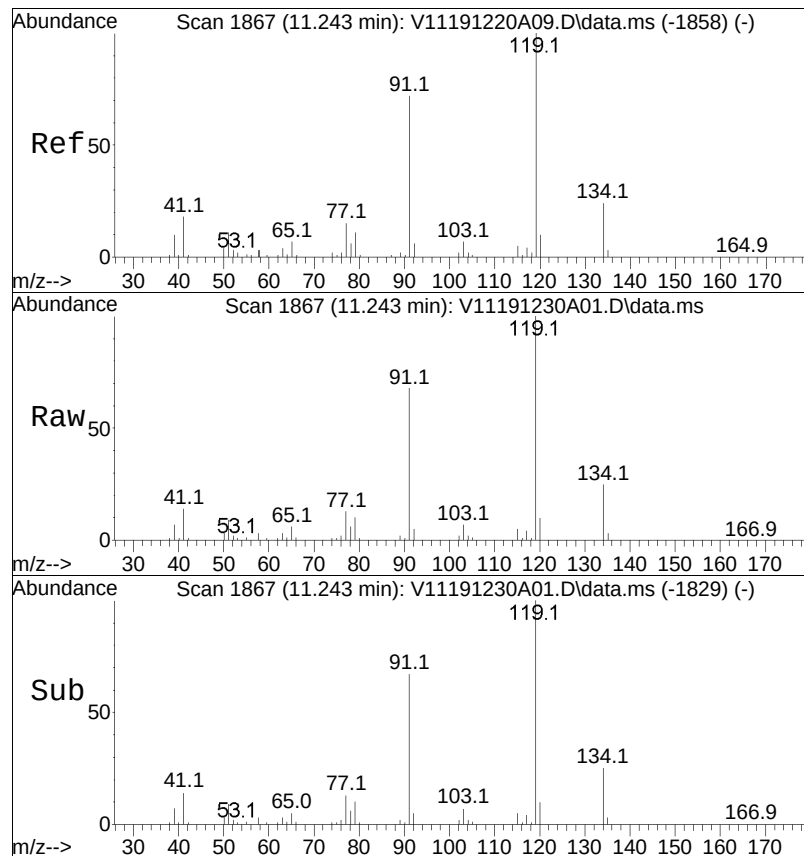


#90  
 1,3,5-Trimethylbenzene  
 Concen: 37.27 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 48.4 | 39.8  | 59.8  |       |

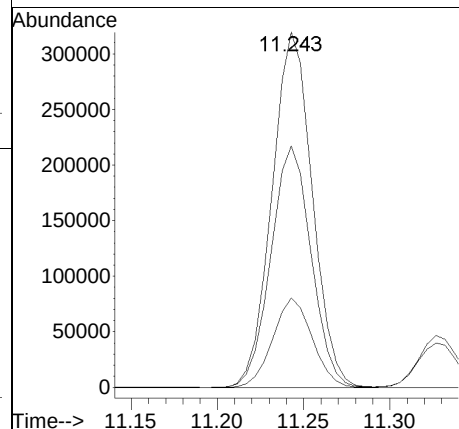


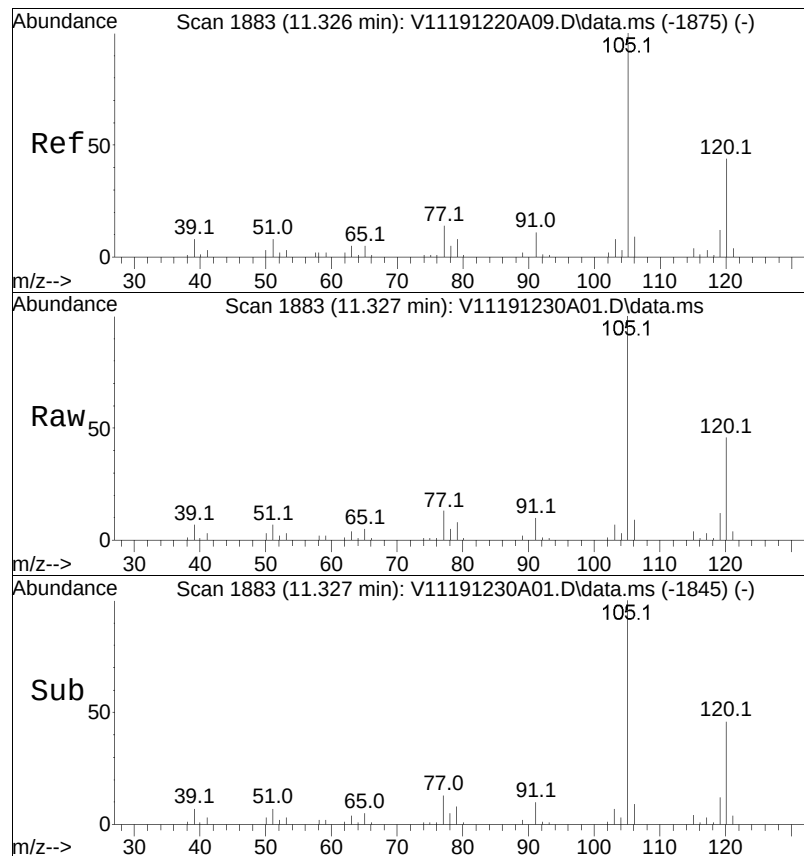




#94  
 tert-Butylbenzene  
 Concen: 38.61 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

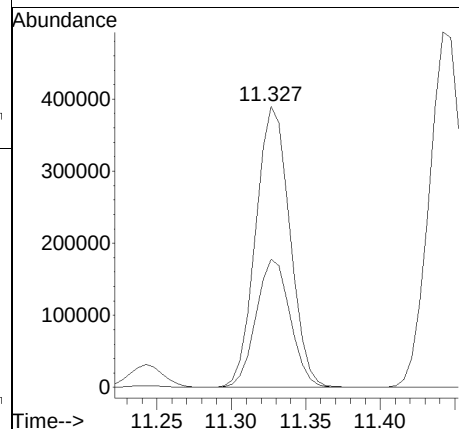
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:119 | Resp: | 519236 |
| Ion | Ratio   | Lower | Upper  |
| 119 | 100     |       |        |
| 91  | 67.9    | 53.0  | 79.4   |
| 134 | 24.6    | 19.8  | 29.6   |

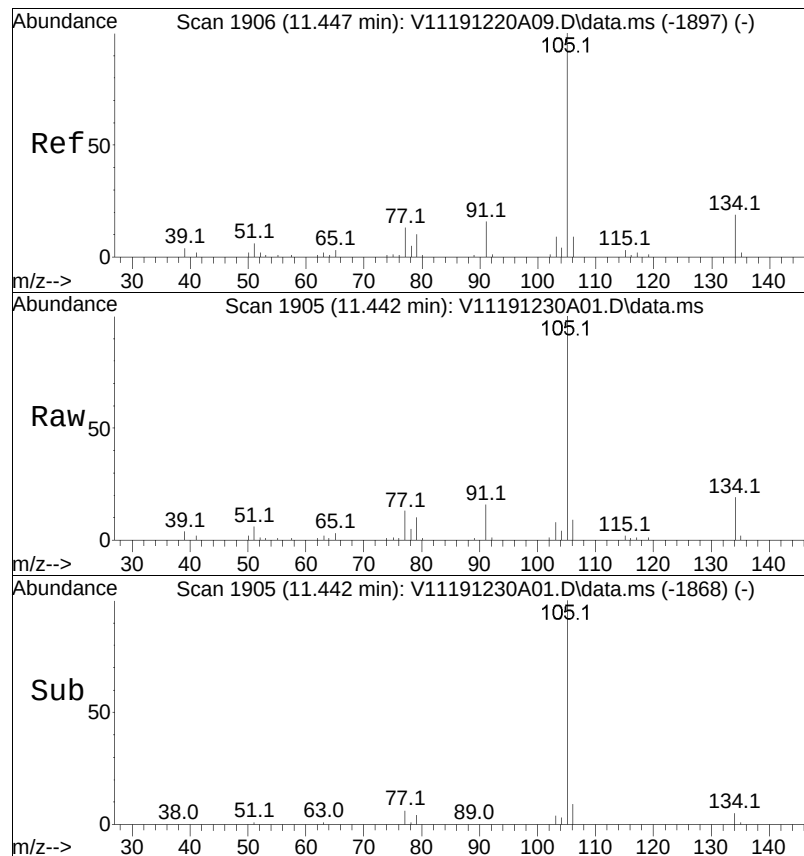




#97  
 1,2,4-Trimethylbenzene  
 Concen: 37.87 ug/L  
 RT: 11.327 min Scan# 1883  
 Delta R.T. 0.001 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

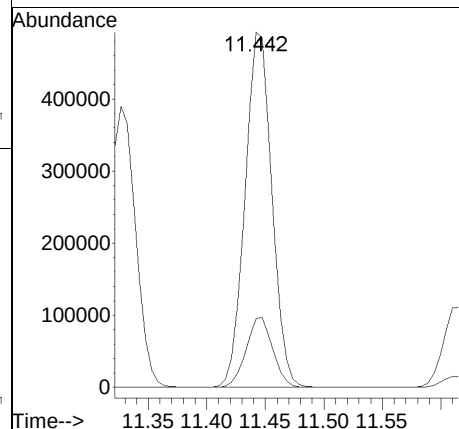
| Tgt Ion | 105    | 120  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 622192 |      |       |       |       |
| Ratio   | 100    | 45.6 |       | 37.4  | 56.0  |

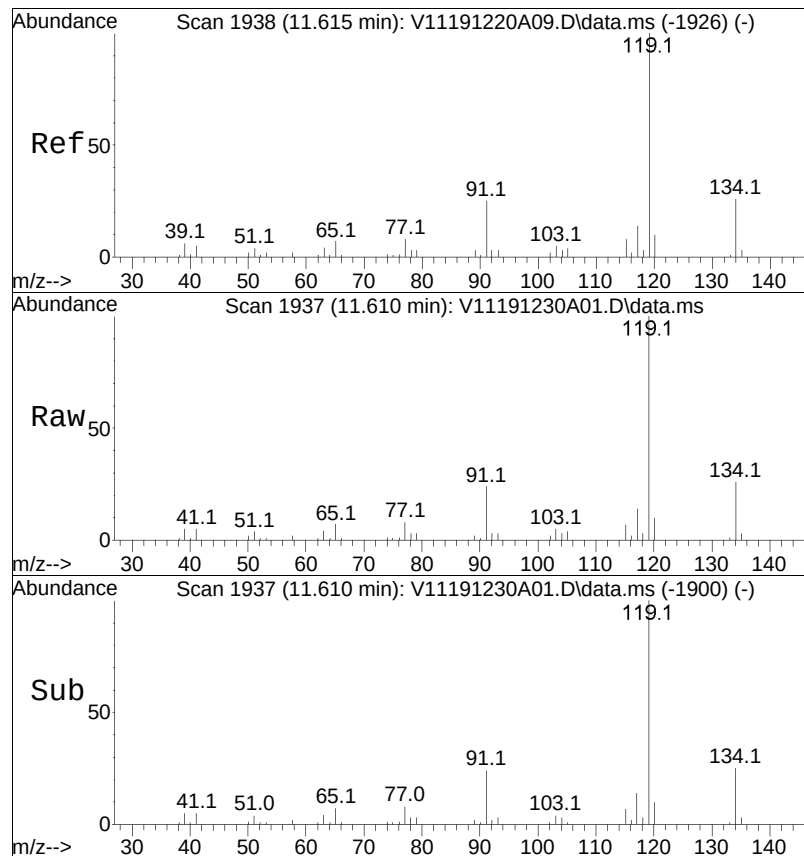




#98  
 sec-Butylbenzene  
 Concen: 37.46 ug/L  
 RT: 11.442 min Scan# 1905  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

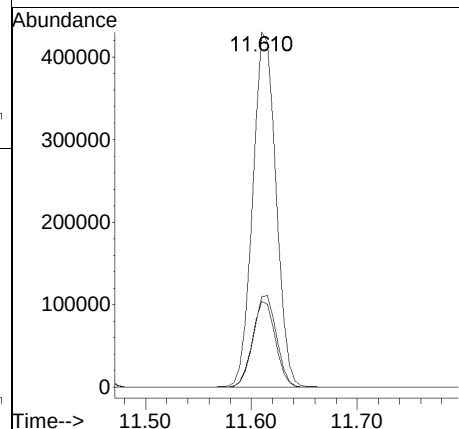
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 19.5  | 13.2  | 27.4  |

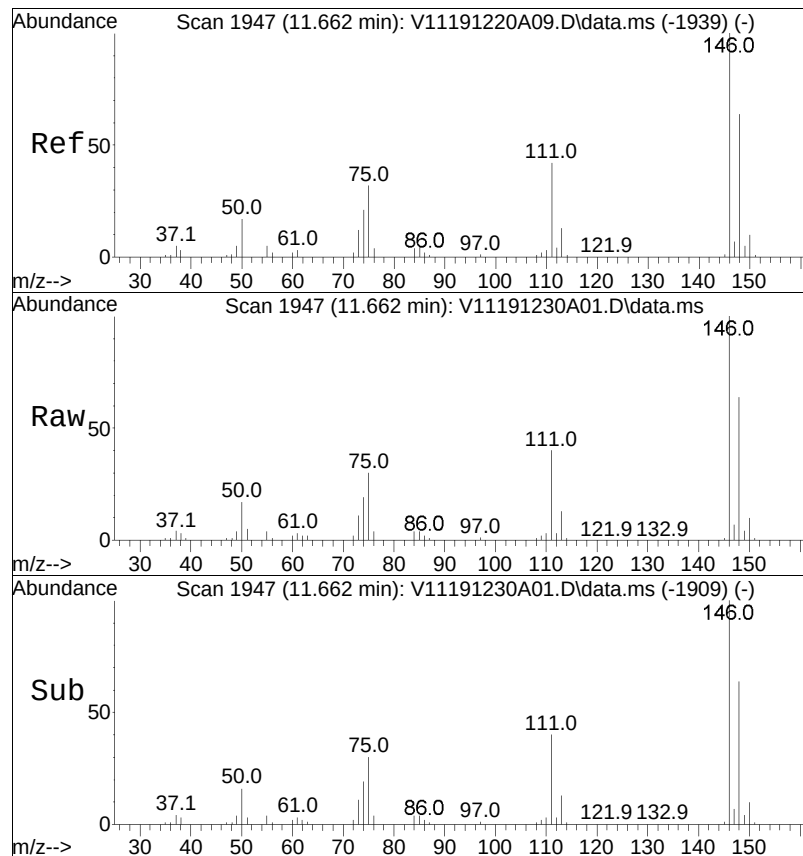




#99  
 p-Isopropyltoluene  
 Concen: 39.25 ug/L  
 RT: 11.610 min Scan# 1937  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

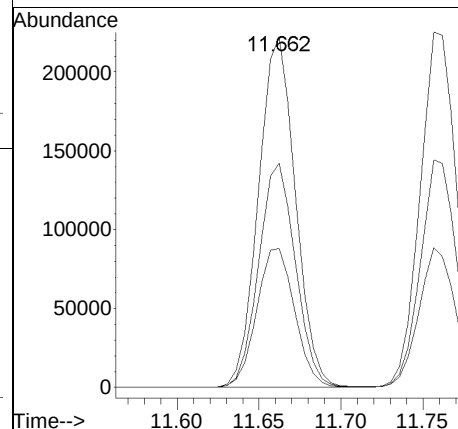
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 658984 |       |       |
| 134     | 25.9  |        | 17.1  | 35.5  |
| 91      | 24.2  |        | 15.3  | 31.9  |

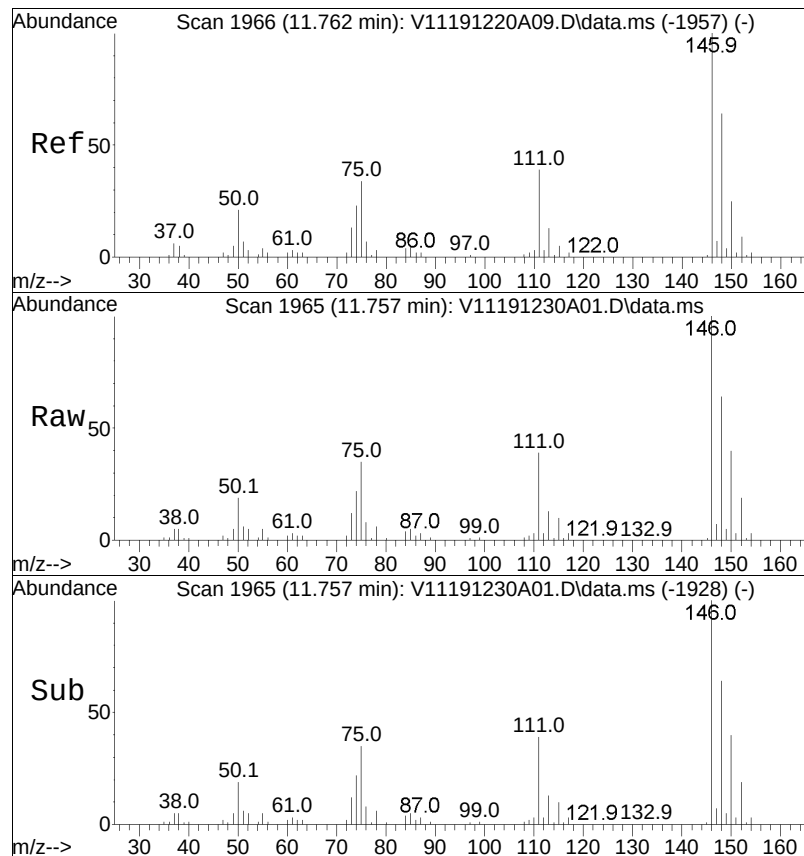




#100  
 1,3-Dichlorobenzene  
 Concen: 34.34 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

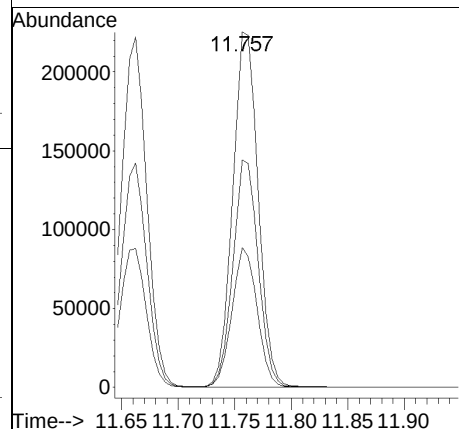
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.7  | 25.6  | 53.2  |
| 148     | 63.7  | 41.3  | 85.9  |

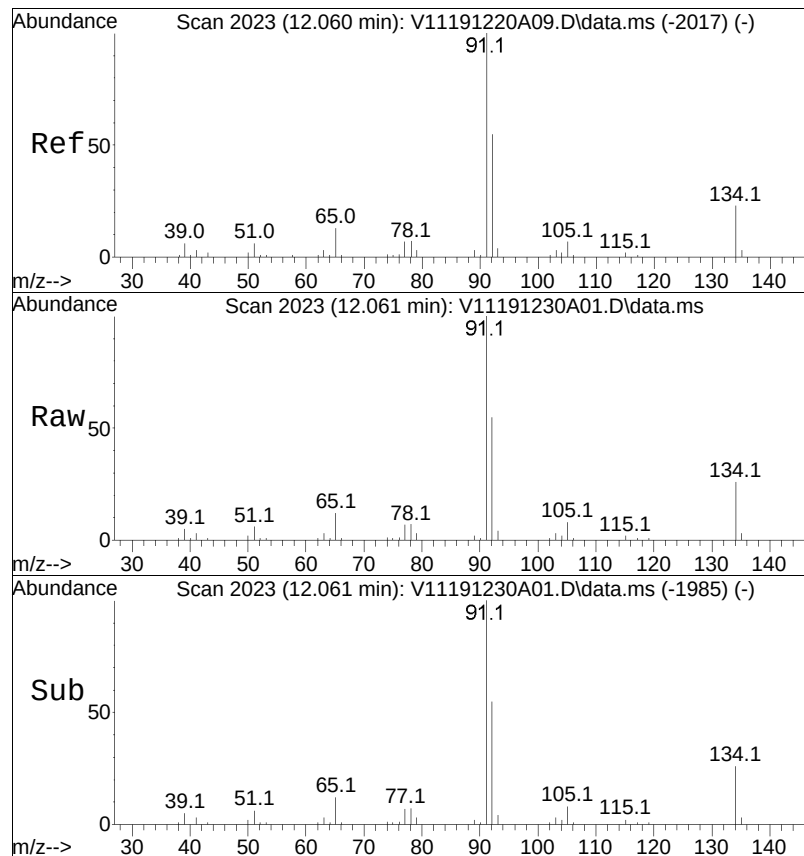




#101  
 1,4-Dichlorobenzene  
 Concen: 34.15 ug/L  
 RT: 11.757 min Scan# 1965  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

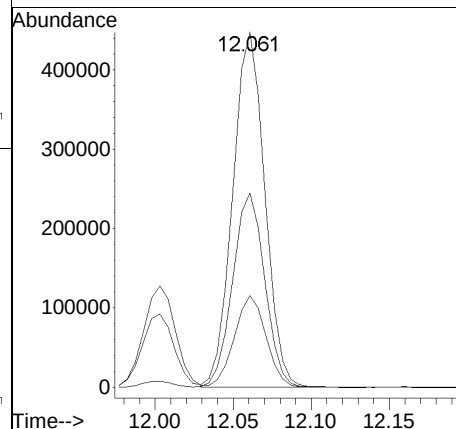
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.0  | 31.4  | 47.0  |
| 148     | 63.5  | 50.7  | 76.1  |

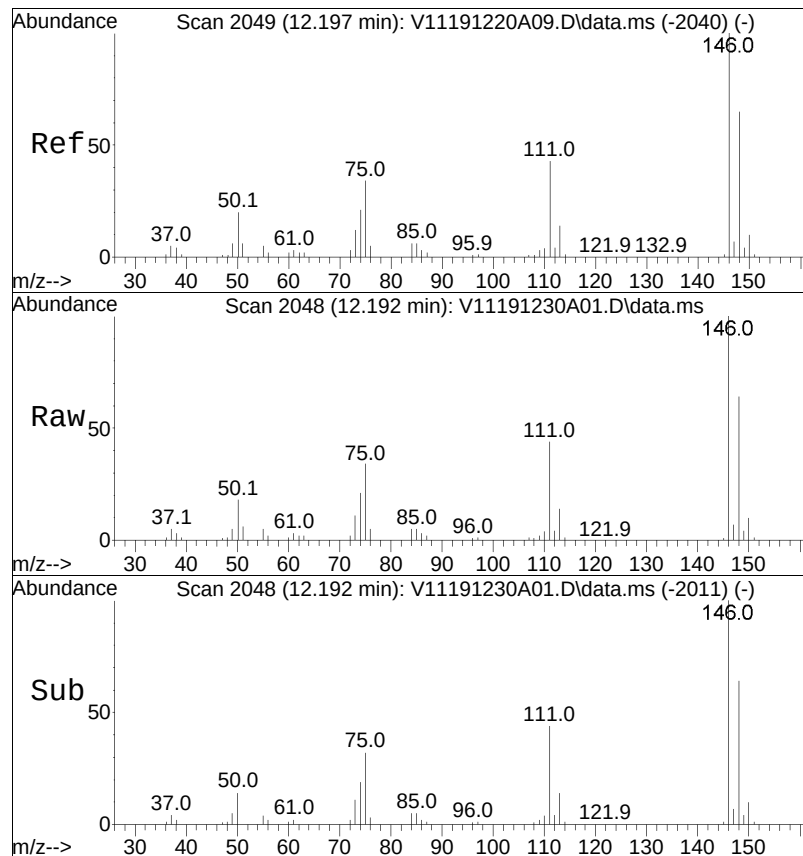




#103  
 n-Butylbenzene  
 Concen: 36.29 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

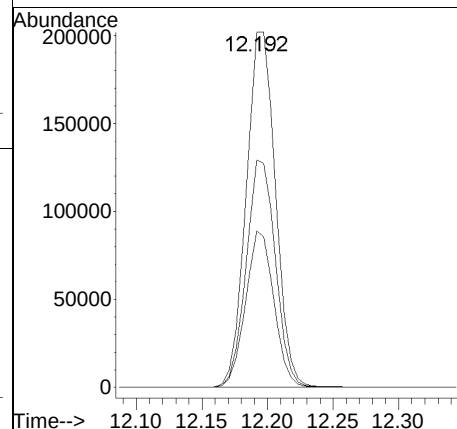
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 637985 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 55.0  | 43.3  | 64.9   |
| 134       | 25.6  | 21.4  | 32.0   |



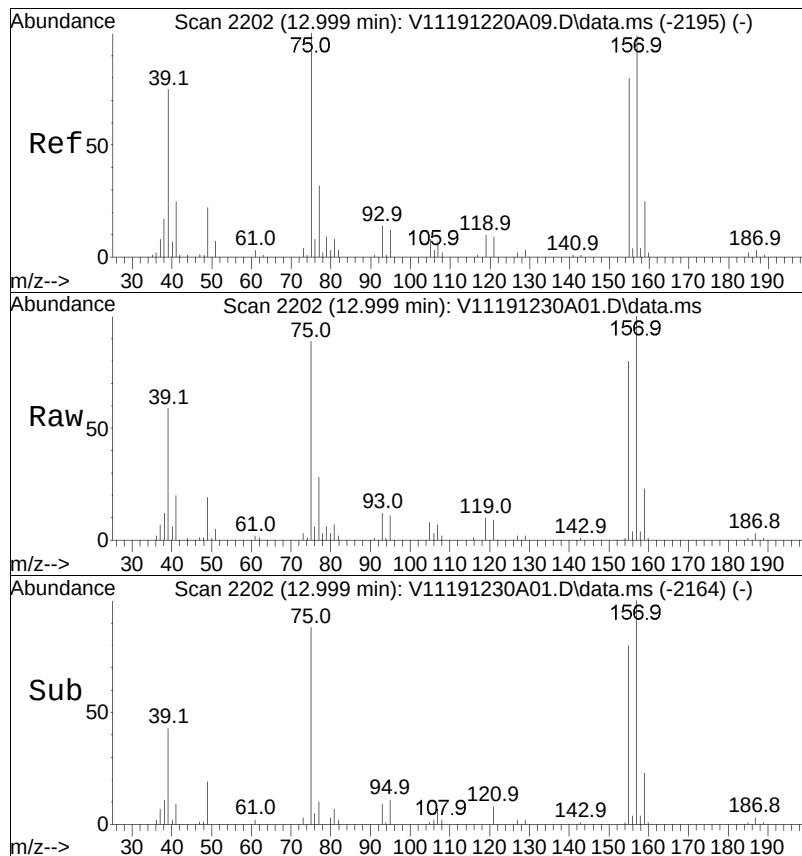


#104  
 1,2-Dichlorobenzene  
 Concen: 33.79 ug/L  
 RT: 12.192 min Scan# 2048  
 Delta R.T. -0.005 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.6  | 26.9  | 55.9  |
| 148     | 63.7  | 41.2  | 85.6  |

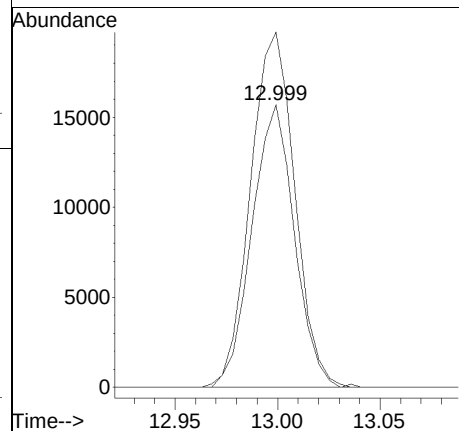


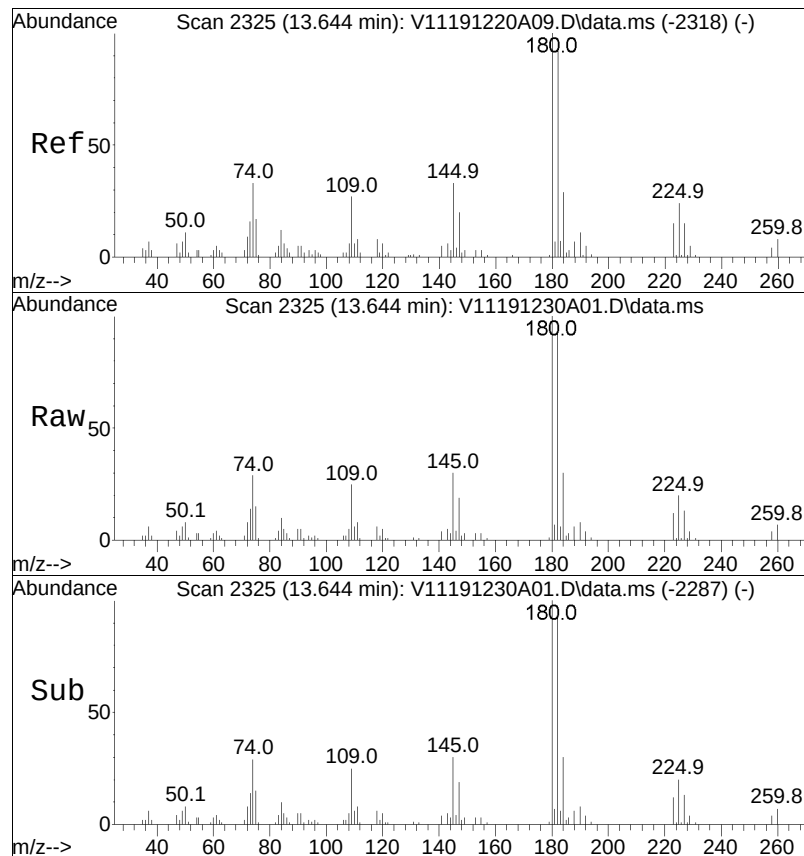




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 33.93 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

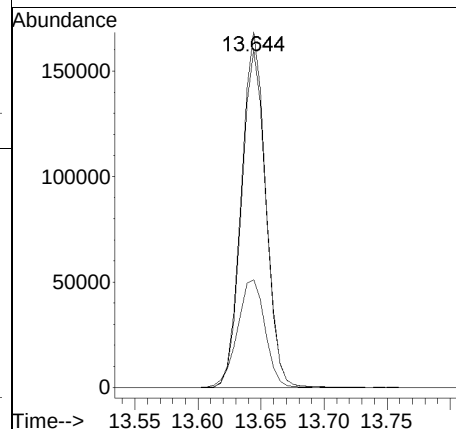
| Tgt Ion   | 155   | Resp  | 22656 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 155       | 100   |       |       |
| 157       | 130.7 | 100.0 | 150.0 |

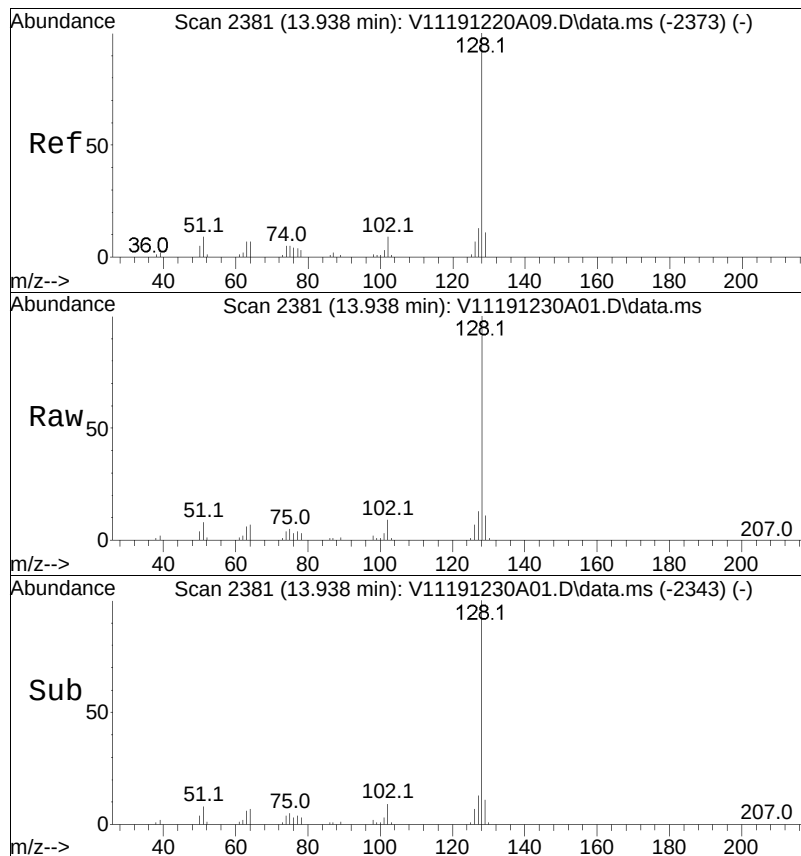




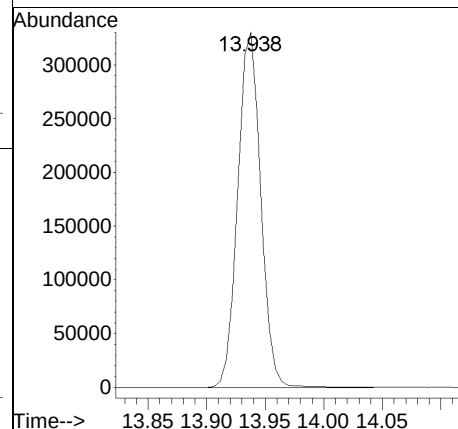
#109  
 1,2,4-Trichlorobenzene  
 Concen: 38.16 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. 0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 75.8  | 113.6 |
| 145     | 34.2  | 29.6  | 44.4  |





#110  
 Naphthalene  
 Concen: 38.61 ug/L  
 RT: 13.938 min Scan# 2381  
 Delta R.T. -0.000 min  
 Lab File: V11191230A01.D  
 Acq: 30 Dec 2019 05:40 am  
 Tgt Ion:128 Resp: 451251



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191230A01.D Operator : VOA111:MV  
Date Inj'd : 12/30/2019 5:40 am Instrument : VOA111  
Sample : WG1325794-3,31h,15,15,0.1 Quant Date : 12/30/2019 6:52 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A02.D  
 Acq On : 27 Dec 2019 05:44 am  
 Operator : VOA111:MV  
 Sample : WG1325768-4,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 279369   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 102.37% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 233521   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 105.42% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 111290   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 92.47%  |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 73985    | 19.895 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.48%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 75400    | 18.975 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 94.88%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 311652   | 19.138 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 95.69%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 126970   | 22.119 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 110.60% |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 121114   | 37.334 | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 158463   | 35.233 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 164173   | 39.942 | ug/L    | 97       |
| 5) Bromomethane              | 1.962          | 94   | 102401   | 45.414 | ug/L    | 100      |
| 6) Chloroethane              | 2.062          | 64   | 103830   | 43.086 | ug/L    | 98       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 186586   | 38.244 | ug/L    | 100      |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 112106   | 39.399 | ug/L    | 92       |
| 11) Carbon disulfide         | 2.634          | 76   | 396963   | 33.962 | ug/L    | 100      |
| 12) Freon-113                | 2.644          | 101  | 121965   | 40.874 | ug/L    | 95       |
| 15) Methylene chloride       | 3.100          | 84   | 144282   | 36.119 | ug/L    | 75       |
| 17) Acetone                  | 3.137          | 43   | 30706    | 33.881 | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.242          | 96   | 136181   | 41.279 | ug/L    | 92       |
| 19) Methyl acetate           | 3.247          | 43   | 89042    | 36.804 | ug/L    | # 88     |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 371440   | 40.690 | ug/L    | 88       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 277889   | 39.909 | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.259          | 96   | 152707   | 42.021 | ug/L    | 90       |
| 31) Cyclohexane              | 4.442          | 56   | 255266   | 45.021 | ug/L    | 80       |
| 32) Chloroform               | 4.511          | 83   | 258905   | 40.135 | ug/L    | 96       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 187998   | 42.706 | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.699          | 97   | 215873   | 41.521 | ug/L    | 99       |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A02.D  
 Acq On : 27 Dec 2019 05:44 am  
 Operator : VOA111:MV  
 Sample : WG1325768-4,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|--------|-------|----------|-----|
| 39)  | 2-Butanone                | 4.789  | 43   | 54762    | 39.331 | ug/L  | #        | 75  |
| 41)  | Benzene                   | 5.051  | 78   | 577381   | 40.355 | ug/L  |          | 91  |
| 44)  | 1,2-Dichloroethane        | 5.245  | 62   | 189894   | 38.727 | ug/L  |          | 98  |
| 47)  | Methyl cyclohexane        | 5.617  | 83   | 243825   | 45.750 | ug/L  | #        | 78  |
| 48)  | Trichloroethene           | 5.627  | 95   | 147961   | 42.719 | ug/L  |          | 94  |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 166436   | 42.178 | ug/L  |          | 98  |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 209559   | 41.430 | ug/L  |          | 99  |
| 58)  | cis-1,3-Dichloropropene   | 6.901  | 75   | 258482   | 45.086 | ug/L  | #        | 88  |
| 61)  | Toluene                   | 7.158  | 92   | 368429   | 38.970 | ug/L  |          | 98  |
| 62)  | 4-Methyl-2-pentanone      | 7.594  | 58   | 46350    | 38.500 | ug/L  | #        | 84  |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 145691   | 41.201 | ug/L  |          | 99  |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 223250   | 39.524 | ug/L  | #        | 82  |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 104514   | 36.948 | ug/L  |          | 98  |
| 69)  | Chlorodibromomethane      | 8.024  | 129  | 140587   | 38.458 | ug/L  |          | 98  |
| 71)  | 1,2-Dibromoethane         | 8.286  | 107  | 113581   | 38.083 | ug/L  |          | 98  |
| 72)  | 2-Hexanone                | 8.595  | 43   | 81150    | 38.142 | ug/L  |          | 93  |
| 73)  | Chlorobenzene             | 8.936  | 112  | 397883   | 38.797 | ug/L  |          | 95  |
| 74)  | Ethylbenzene              | 8.983  | 91   | 702654   | 41.326 | ug/L  |          | 98  |
| 76)  | p/m Xylene                | 9.172  | 106  | 528225   | 86.691 | ug/L  |          | 94  |
| 77)  | o Xylene                  | 9.712  | 106  | 510942   | 86.820 | ug/L  |          | 95  |
| 78)  | Styrene                   | 9.780  | 104  | 861457   | 87.445 | ug/L  |          | 97  |
| 80)  | Bromoform                 | 9.796  | 173  | 85186    | 41.212 | ug/L  |          | 99  |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 658176   | 46.294 | ug/L  |          | 98  |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 783859   | 42.569 | ug/L  |          | 97  |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 145976   | 36.961 | ug/L  |          | 98  |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 547195   | 44.433 | ug/L  |          | 97  |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 447255   | 45.221 | ug/L  |          | 96  |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 549484   | 45.471 | ug/L  |          | 98  |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 696793   | 45.198 | ug/L  |          | 98  |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 557768   | 45.170 | ug/L  |          | 99  |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 308575   | 41.250 | ug/L  |          | 99  |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 292931   | 38.419 | ug/L  |          | 99  |
| 103) | n-Butylbenzene            | 12.061 | 91   | 584951   | 45.239 | ug/L  |          | 98  |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 279891   | 40.883 | ug/L  |          | 99  |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 19957    | 40.643 | ug/L  |          | 98  |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 202566   | 46.268 | ug/L  |          | 99  |
| 110) | Naphthalene               | 13.938 | 128  | 403998   | 46.998 | ug/L  |          | 100 |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A02.D  
 Acq On : 27 Dec 2019 05:44 am  
 Operator : VOA111:MV  
 Sample : WG1325768-4,31,5,5  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

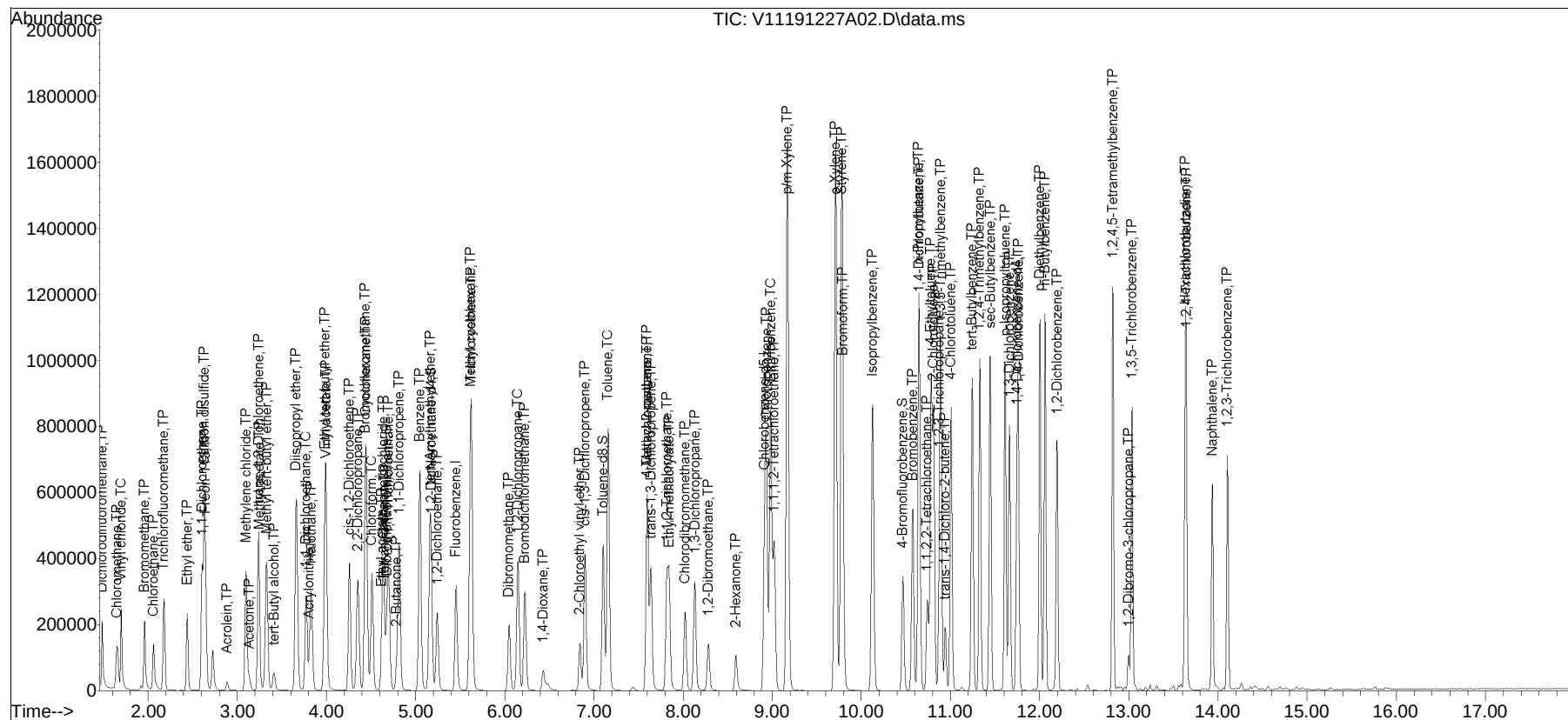
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

Quantitation Report (QT Reviewed)

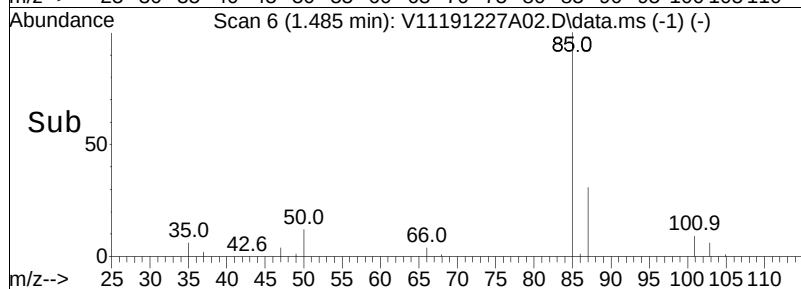
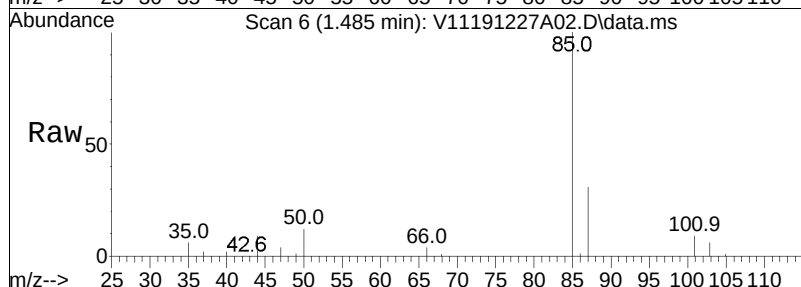
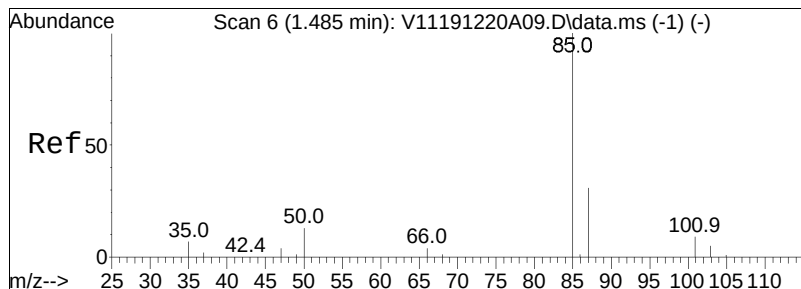
Data Path : I:\VOLATILES\VOA111\2019\191227A\  
Data File : V11191227A02.D  
Acq On : 27 Dec 2019 05:44 am  
Operator : VOA111:MV  
Sample : WG1325768-4, 31, 5, 5  
Misc : WG1325768, ICAL16383  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:19:02 2019  
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

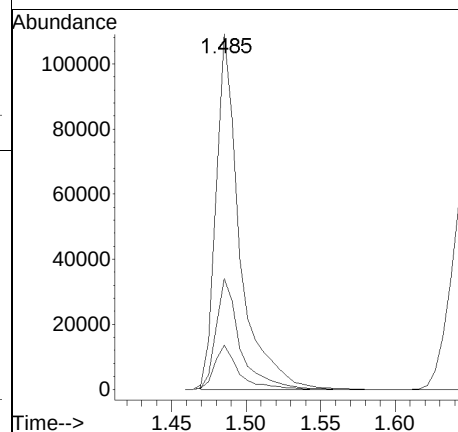


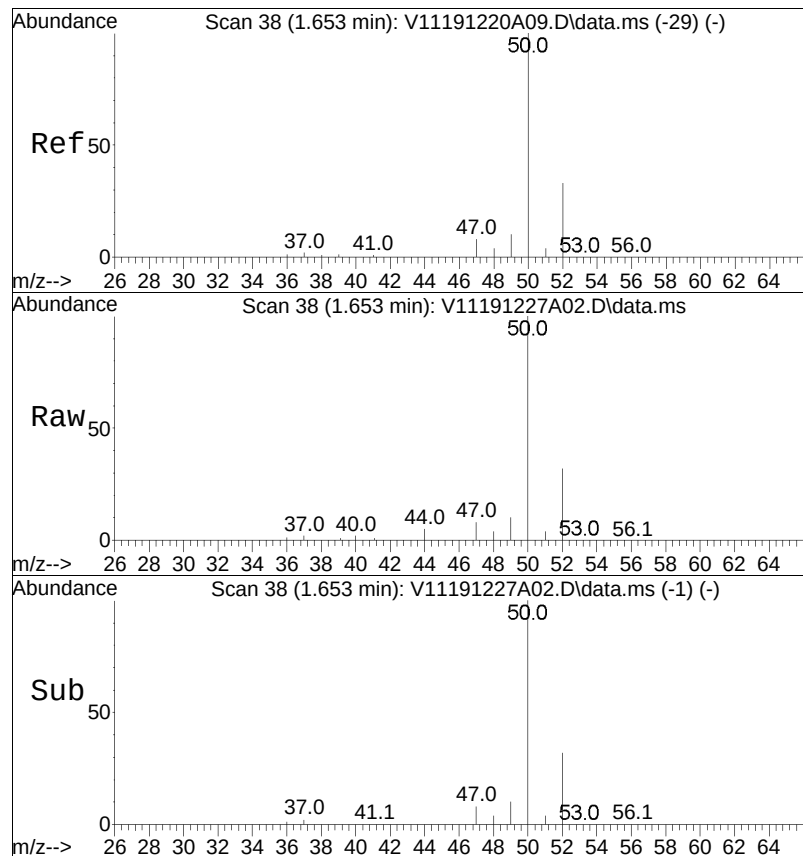




#2  
 Dichlorodifluoromethane  
 Concen: 37.33 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

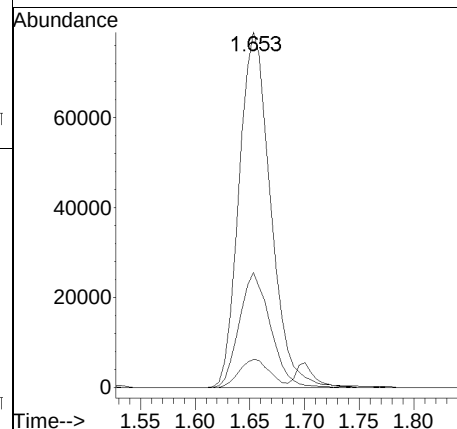
| Tgt Ion | 85  | 87   | 50   | Ratio | 100 | 31.7 | 12.6 | Resp: | 121114 | Lower | Upper |
|---------|-----|------|------|-------|-----|------|------|-------|--------|-------|-------|
| 85      | 100 |      |      |       |     |      |      |       |        |       |       |
| 87      |     | 31.7 |      |       |     | 20.7 |      |       |        |       | 43.1  |
| 50      |     |      | 12.6 |       |     | 9.8  |      |       |        |       | 20.3  |

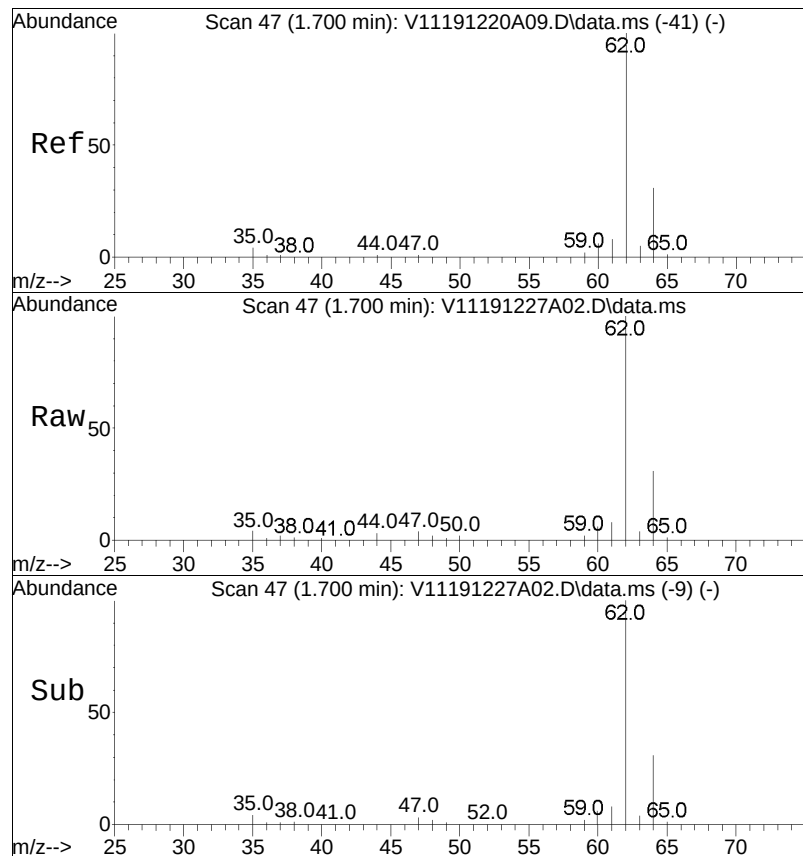




#3  
 Chloromethane  
 Concen: 35.23 ug/L  
 RT: 1.653 min Scan# 38  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

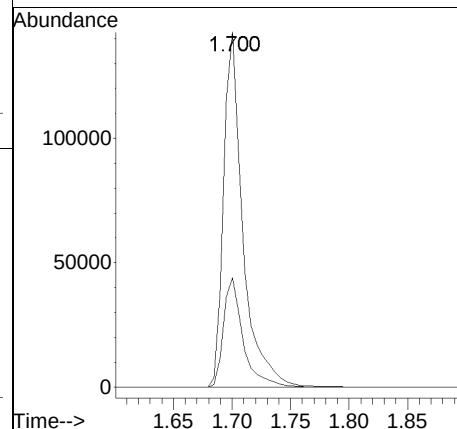
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 50 | Resp: | 158463 |
| Ion | Ratio   | Lower | Upper  |
| 50  | 100     |       |        |
| 52  | 31.9    | 10.9  | 50.9   |
| 47  | 7.7     | 0.0   | 27.2   |

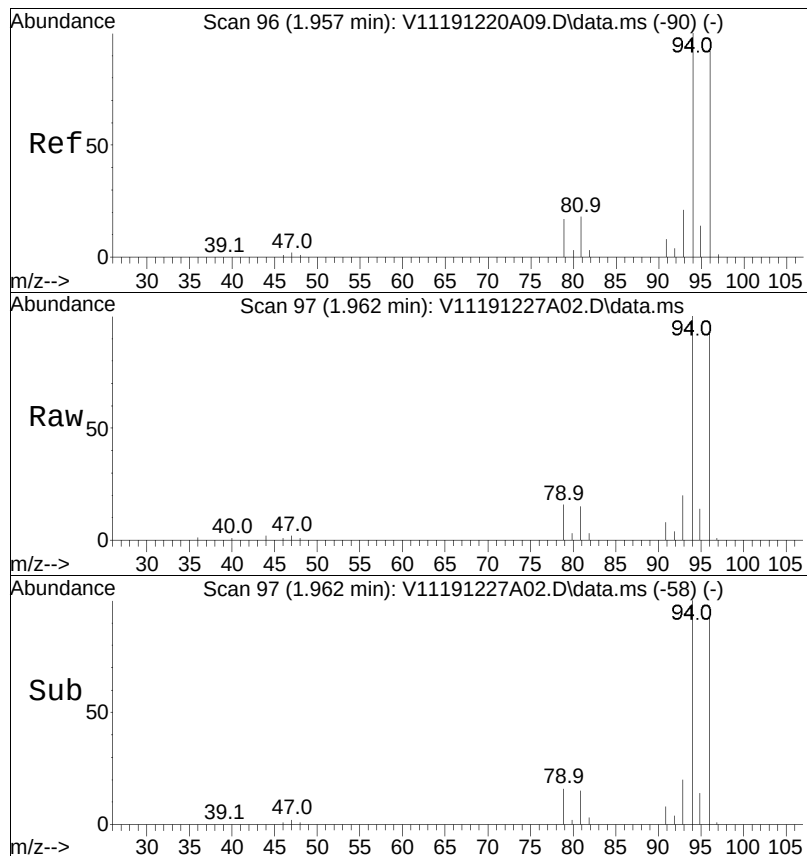




#4  
 Vinyl chloride  
 Concen: 39.94 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

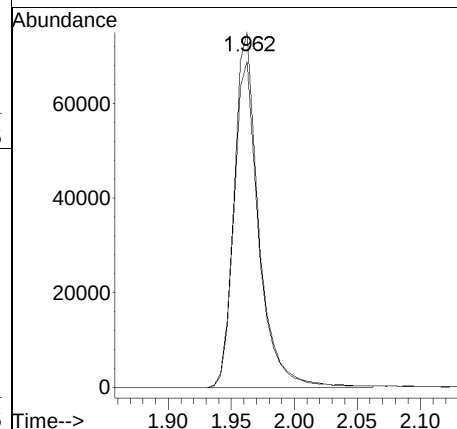
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.4  | 9.9   | 49.9  |

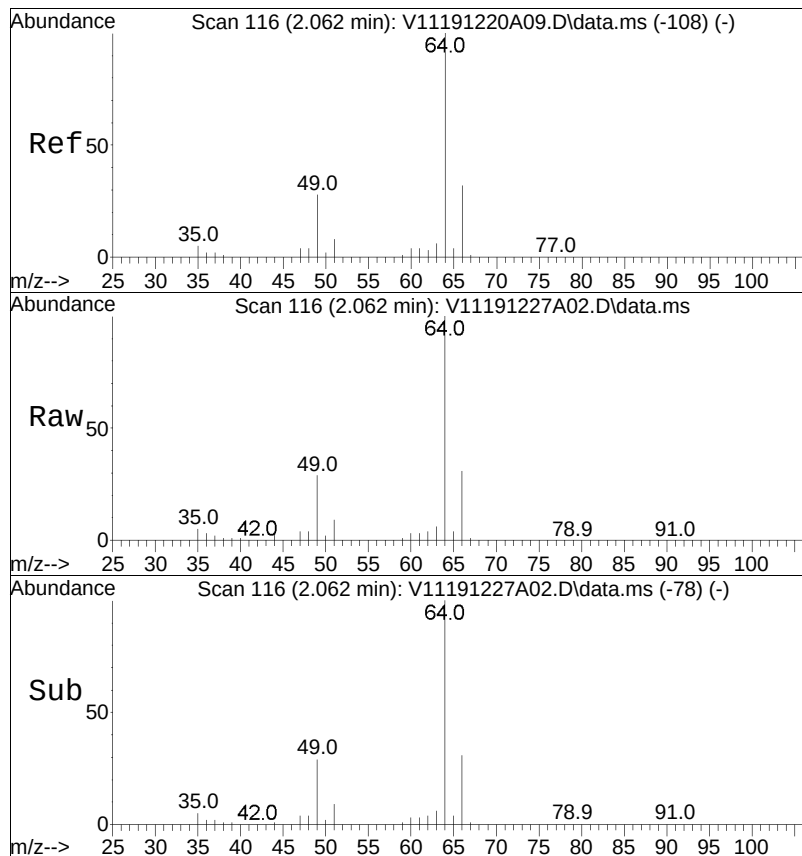




#5  
 Bromomethane  
 Concen: 45.41 ug/L  
 RT: 1.962 min Scan# 97  
 Delta R.T. 0.005 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

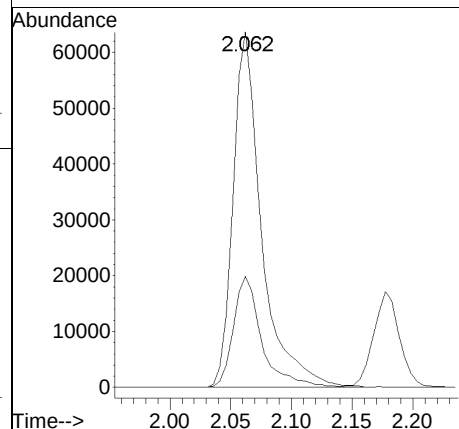
| Tgt Ion | Ion  | Resp | Lower | Upper |
|---------|------|------|-------|-------|
| 94      | 100  |      |       |       |
| 96      | 92.5 | 72.6 | 112.6 |       |

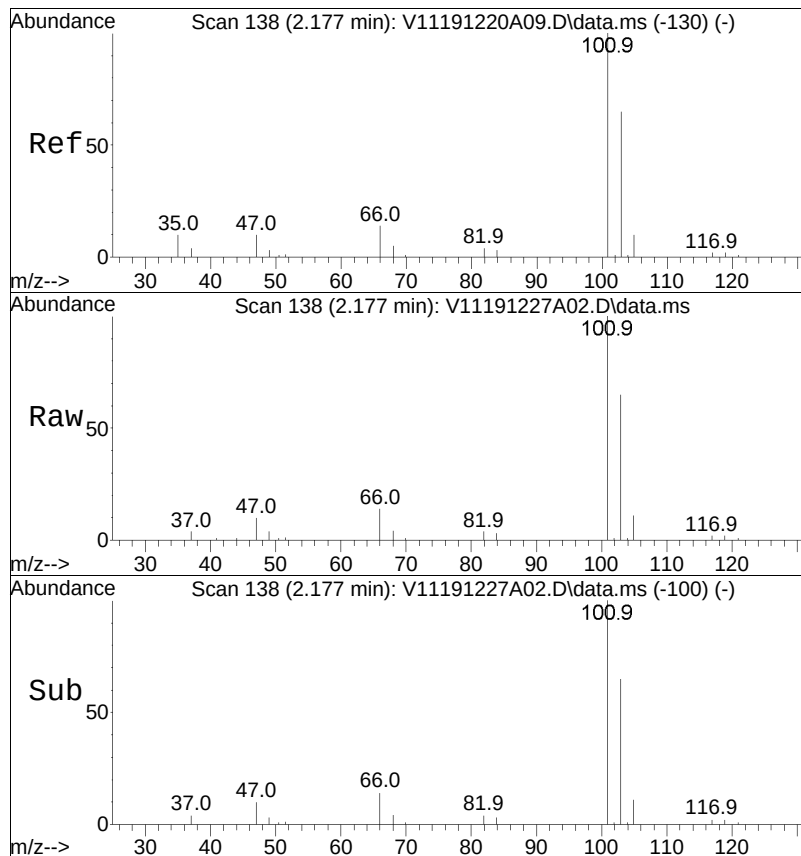




#6  
 Chloroethane  
 Concen: 43.09 ug/L  
 RT: 2.062 min Scan# 116  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

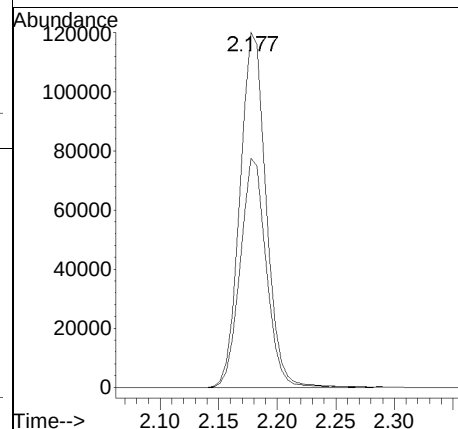
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 31.1  | 10.2  | 50.2  |

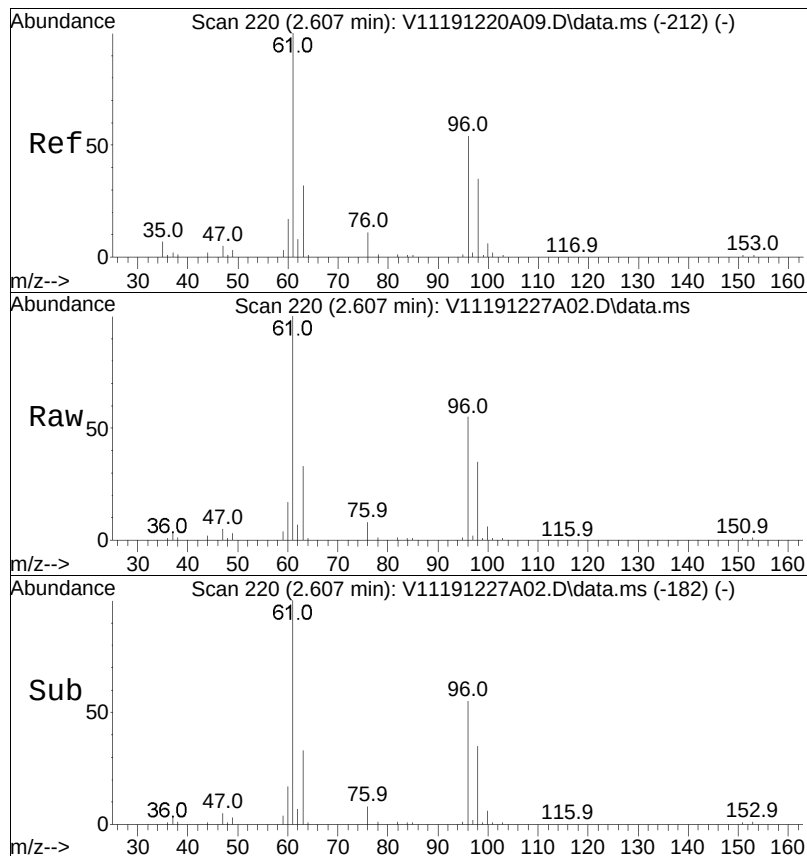




#7  
 Trichlorofluoromethane  
 Concen: 38.24 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

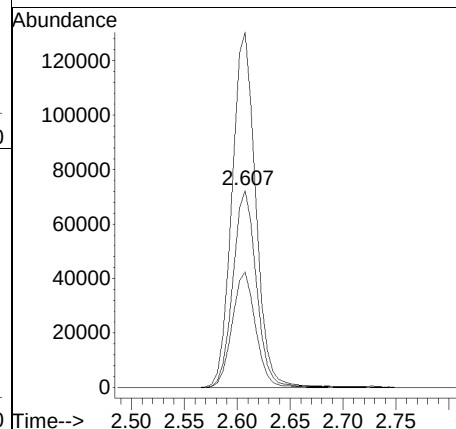
| Tgt Ion | 101  | 103 | Ratio | Lower | Upper |
|---------|------|-----|-------|-------|-------|
| 101     | 100  |     |       |       |       |
| 103     | 64.4 |     |       | 51.8  | 77.6  |

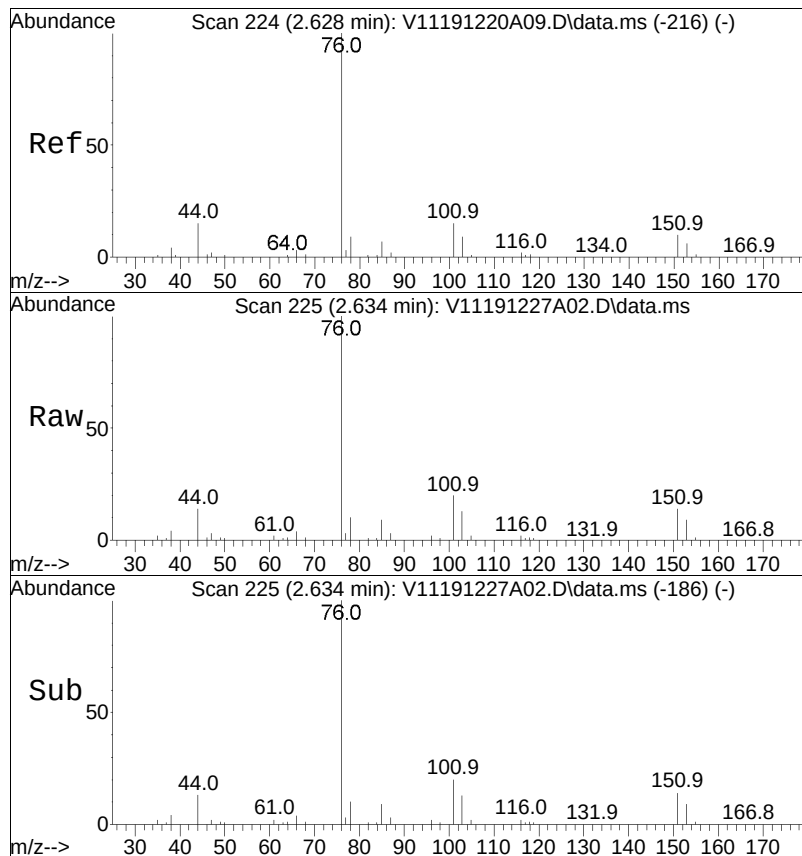




#10  
 1,1-Dichloroethene  
 Concen: 39.40 ug/L  
 RT: 2.607 min Scan# 220  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

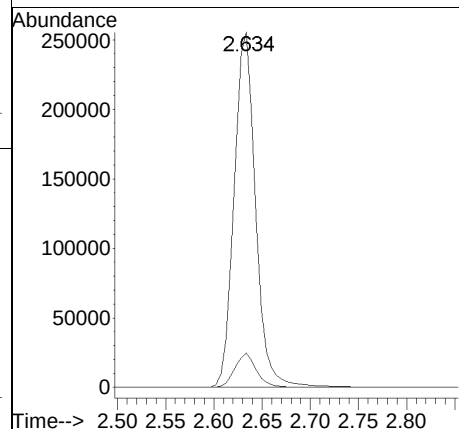
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 181.6 | 157.7 | 236.5 |
| 63      | 58.4  | 47.9  | 71.9  |



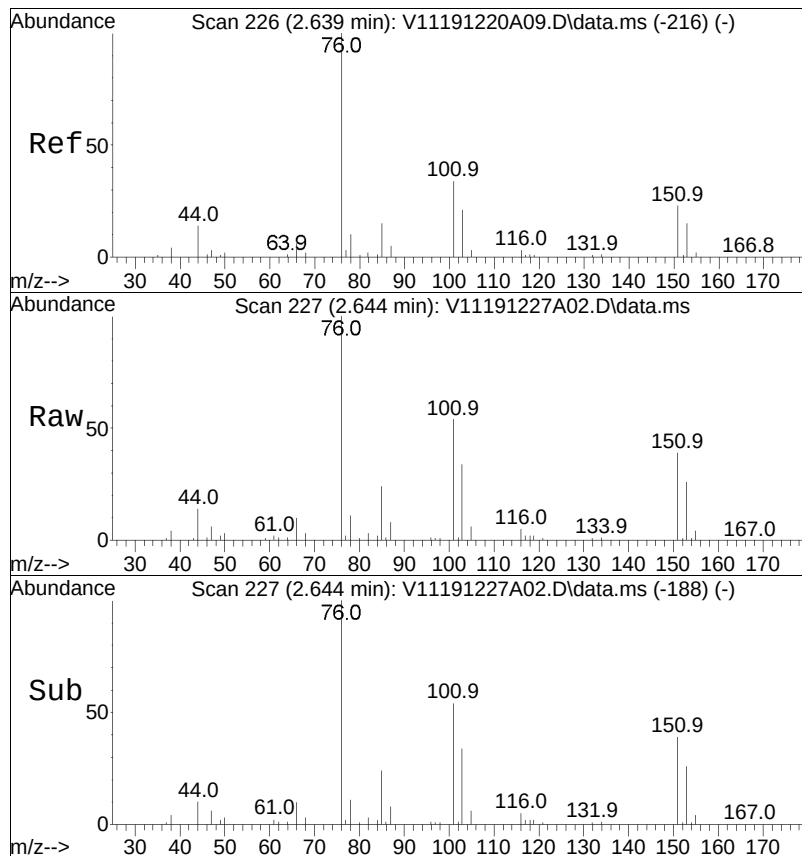


#11  
 Carbon disulfide  
 Concen: 33.96 ug/L  
 RT: 2.634 min Scan# 225  
 Delta R.T. 0.006 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.7   | 6.4   | 13.4  |

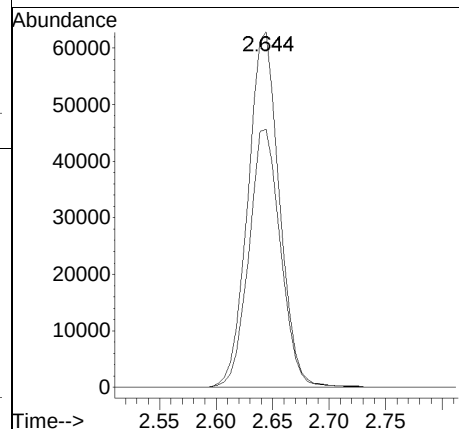


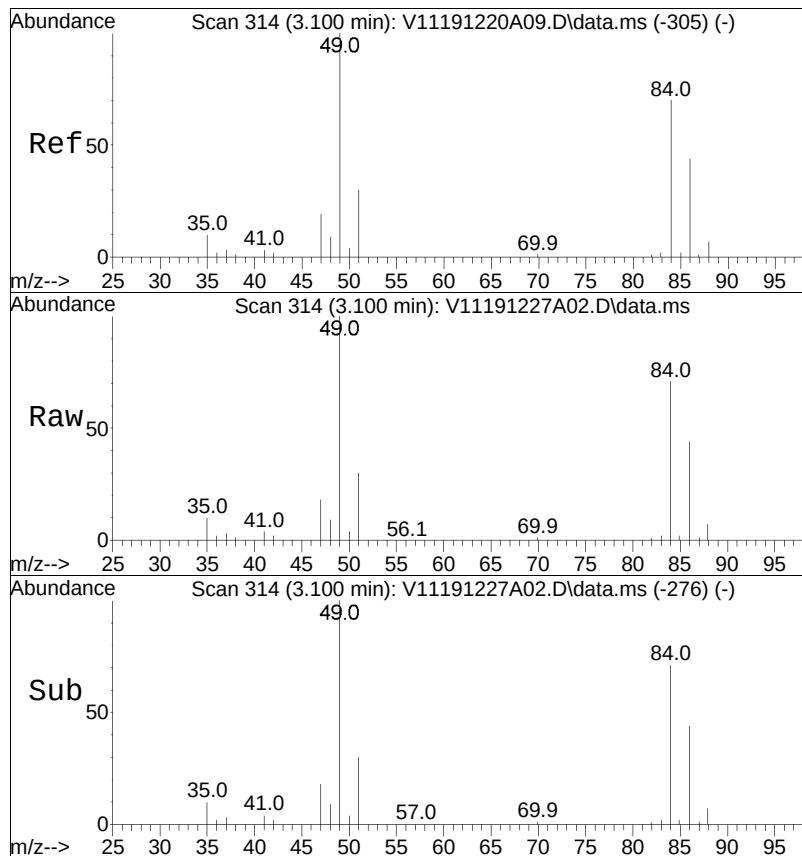




#12  
 Freon-113  
 Concen: 40.87 ug/L  
 RT: 2.644 min Scan# 227  
 Delta R.T. 0.005 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

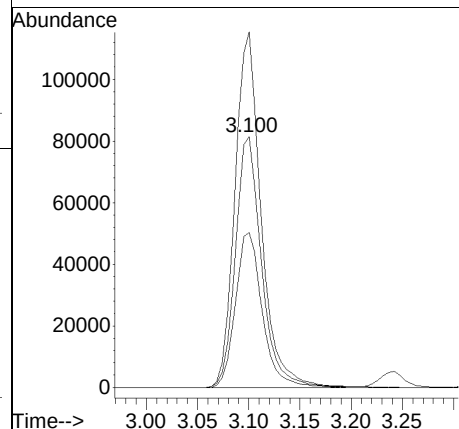
| Tgt Ion | 101    | 151 | Ratio | Lower | Upper |
|---------|--------|-----|-------|-------|-------|
| Resp    | 121965 |     |       |       |       |
| Ion     | 100    |     |       |       |       |
| Ratio   | 73.2   |     |       |       |       |
| Lower   | 62.2   |     |       |       |       |
| Upper   | 93.4   |     |       |       |       |

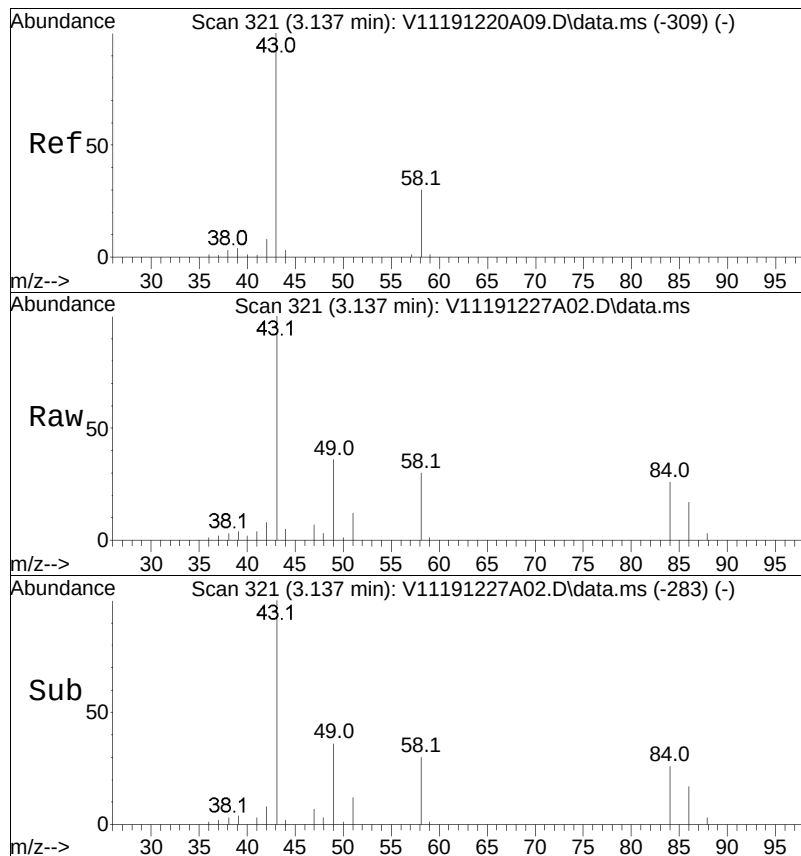




#15  
Methylene chloride  
Concen: 36.12 ug/L  
RT: 3.100 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

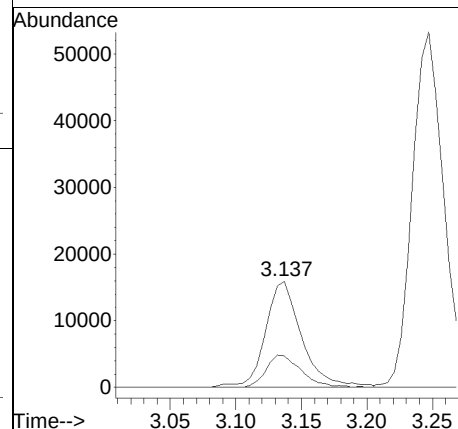
| Tgt Ion:  | 84    | Resp: | 144282 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 63.2  | 41.1  | 85.3   |
| 49        | 141.9 | 124.2 | 258.0  |

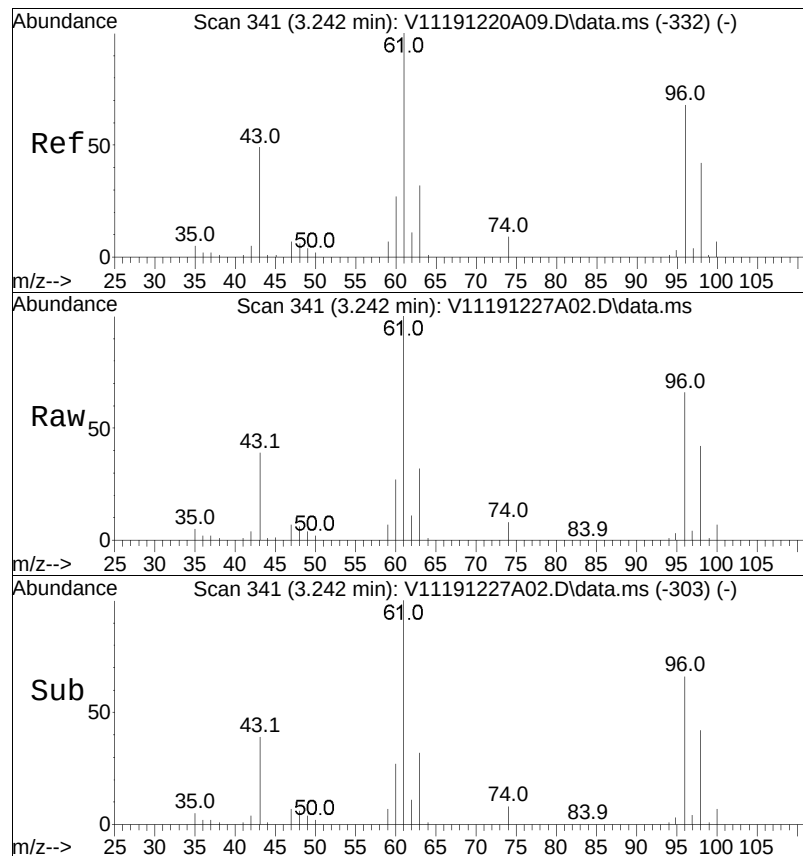




#17  
 Acetone  
 Concen: 33.88 ug/L  
 RT: 3.137 min Scan# 321  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

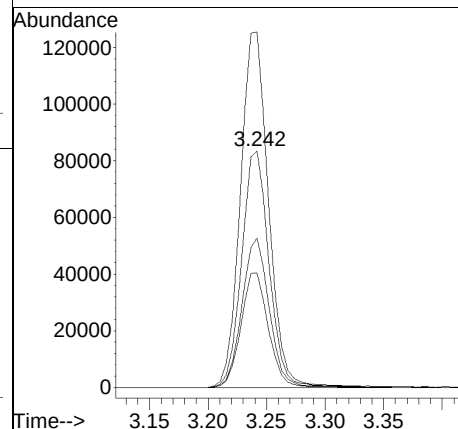
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 29.7  | 20.8  | 31.2  |

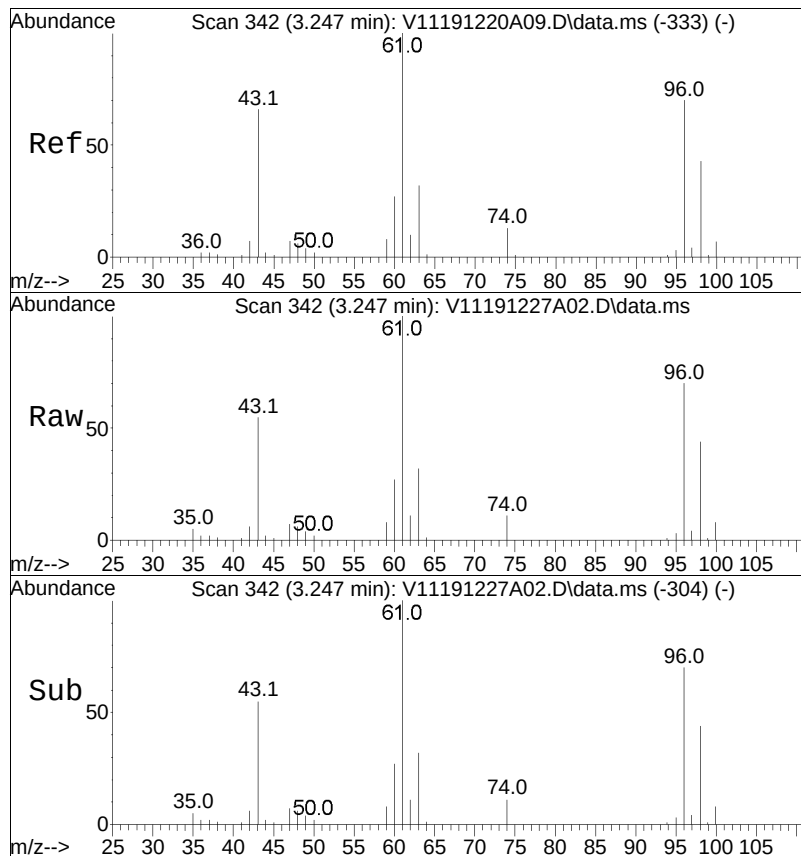




#18  
 trans-1,2-Dichloroethene  
 Concen: 41.28 ug/L  
 RT: 3.242 min Scan# 341  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

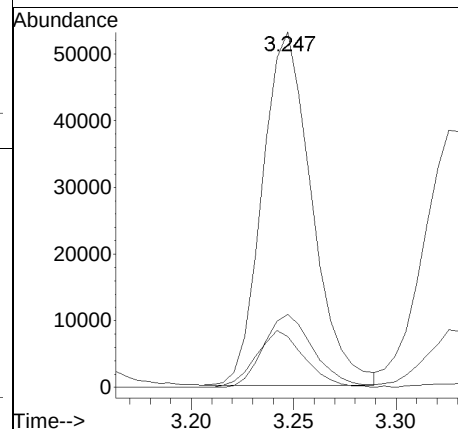
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 136181 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 154.1 | 111.1 | 230.8  |
| 98        | 62.8  | 41.8  | 86.8   |
| 63        | 48.5  | 33.3  | 69.1   |

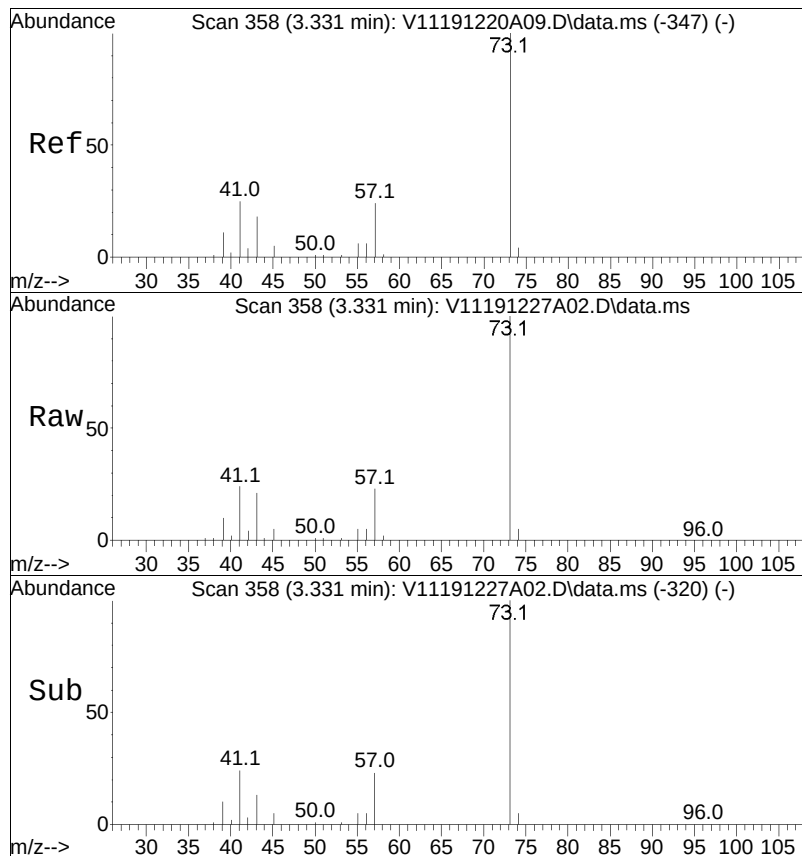




#19  
Methyl acetate  
Concen: 36.80 ug/L  
RT: 3.247 min Scan# 342  
Delta R.T. 0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 20.9  | 11.3  | 16.9# |
| 59      | 15.8  | 10.4  | 15.6# |





#20

Methyl tert-butyl ether

Concen: 40.69 ug/L

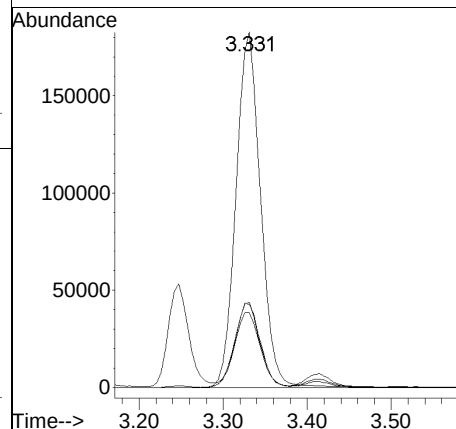
RT: 3.331 min Scan# 358

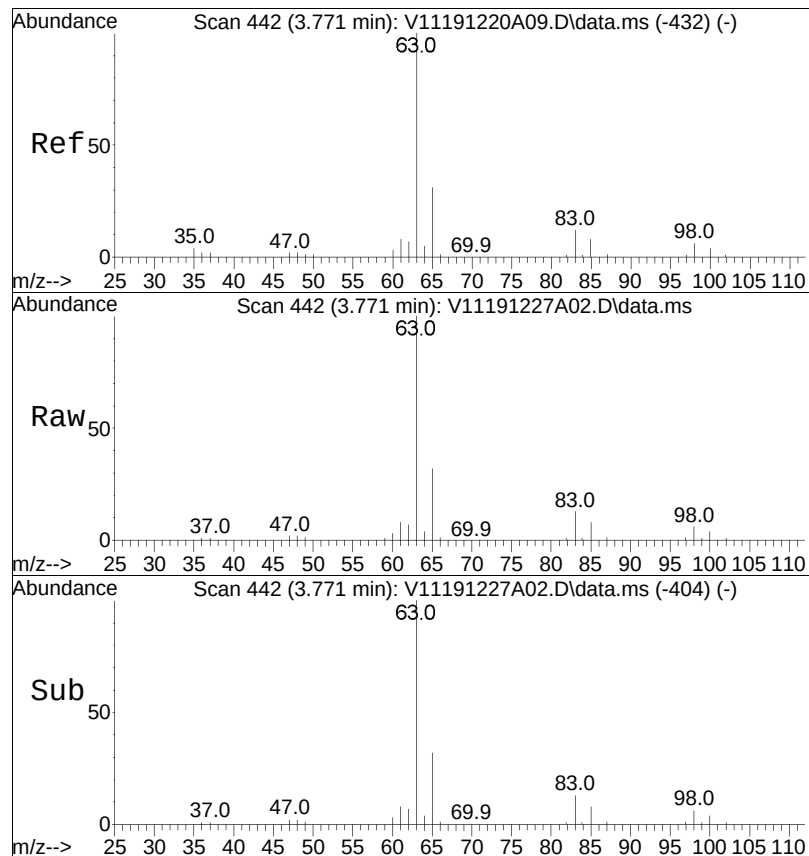
Delta R.T. -0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

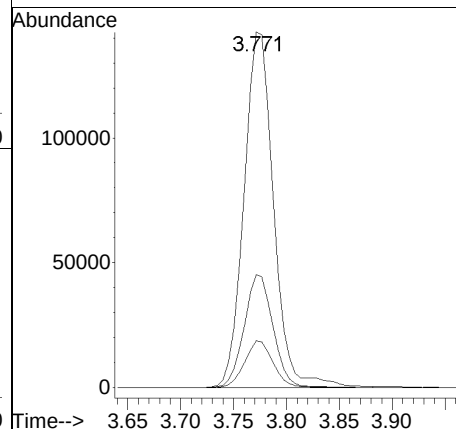
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 73    | Resp: | 371440 |
| Ion      | Ratio | Lower | Upper  |
| 73       | 100   |       |        |
| 57       | 24.4  | 19.6  | 40.6   |
| 43       | 21.8  | 18.5  | 38.3   |
| 41       | 24.4  | 20.3  | 42.1   |

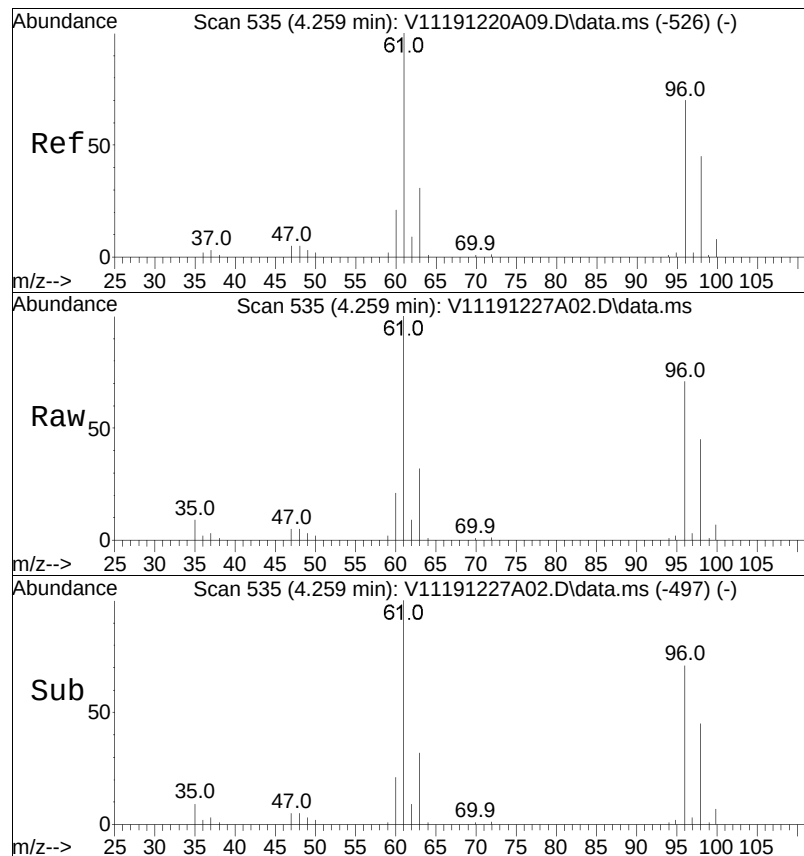




#23  
 1,1-Dichloroethane  
 Concen: 39.91 ug/L  
 RT: 3.771 min Scan# 442  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

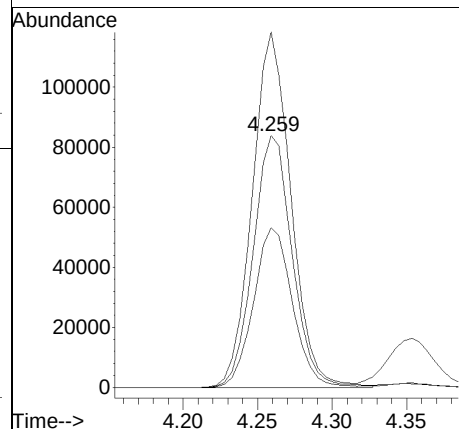
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 277889 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 65  | 30.8    | 9.0   | 49.0   |
| 83  | 12.5    | 0.0   | 31.4   |



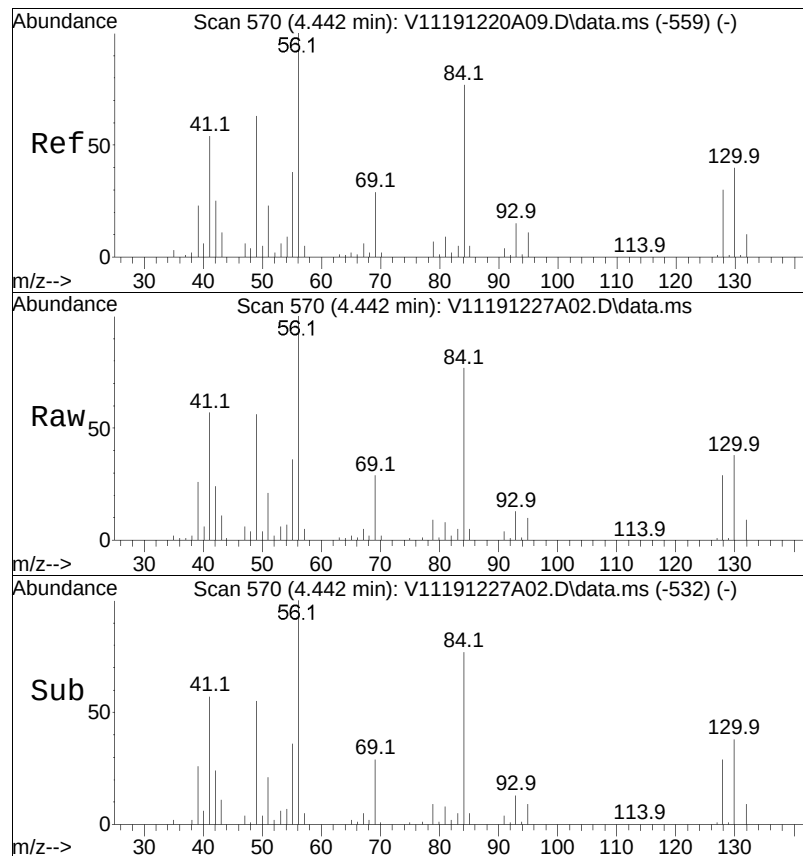


#28  
 cis-1,2-Dichloroethene  
 Concen: 42.02 ug/L  
 RT: 4.259 min Scan# 535  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion:  | 96    | Resp: | 152707 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 139.6 | 126.3 | 189.5  |
| 98        | 63.1  | 51.0  | 76.6   |

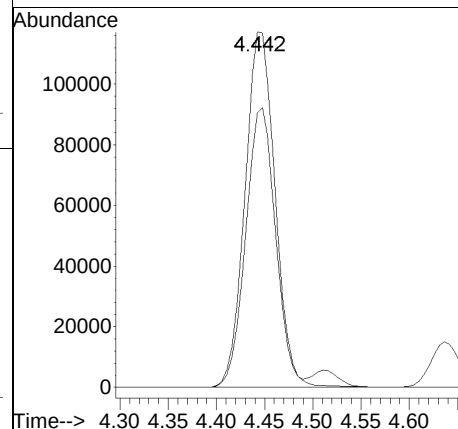


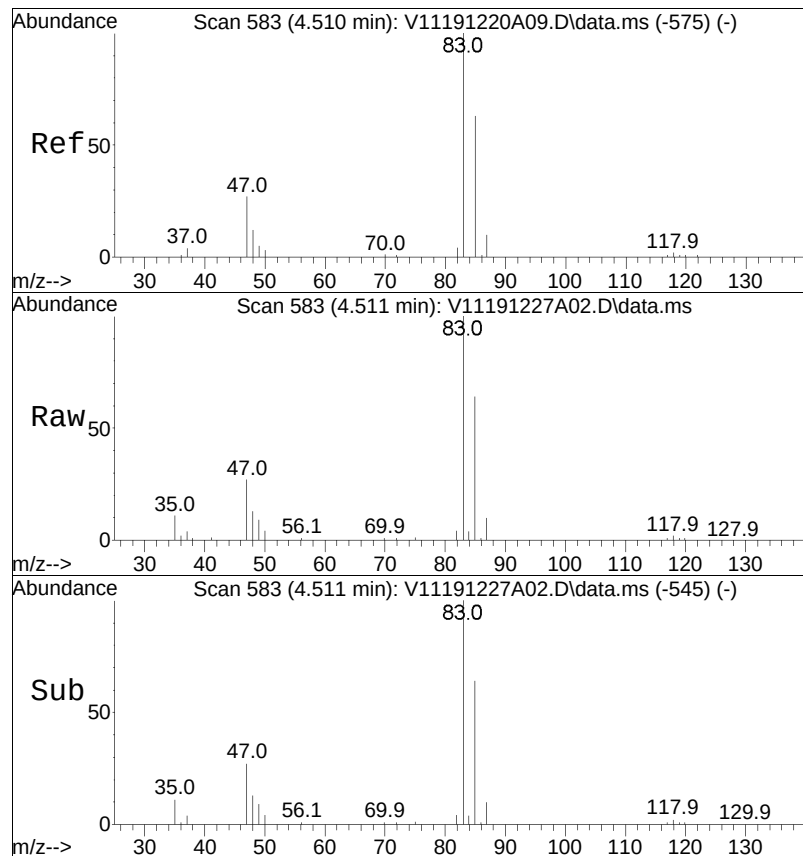




#31  
Cyclohexane  
Concen: 45.02 ug/L  
RT: 4.442 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

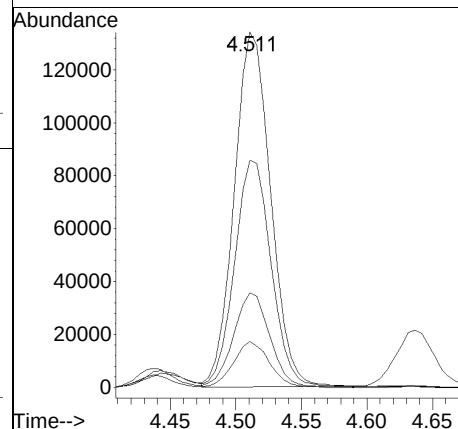
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 56  | 100  |       |       |       |
| 84  | 78.1 | 40.5  | 84.1  |       |

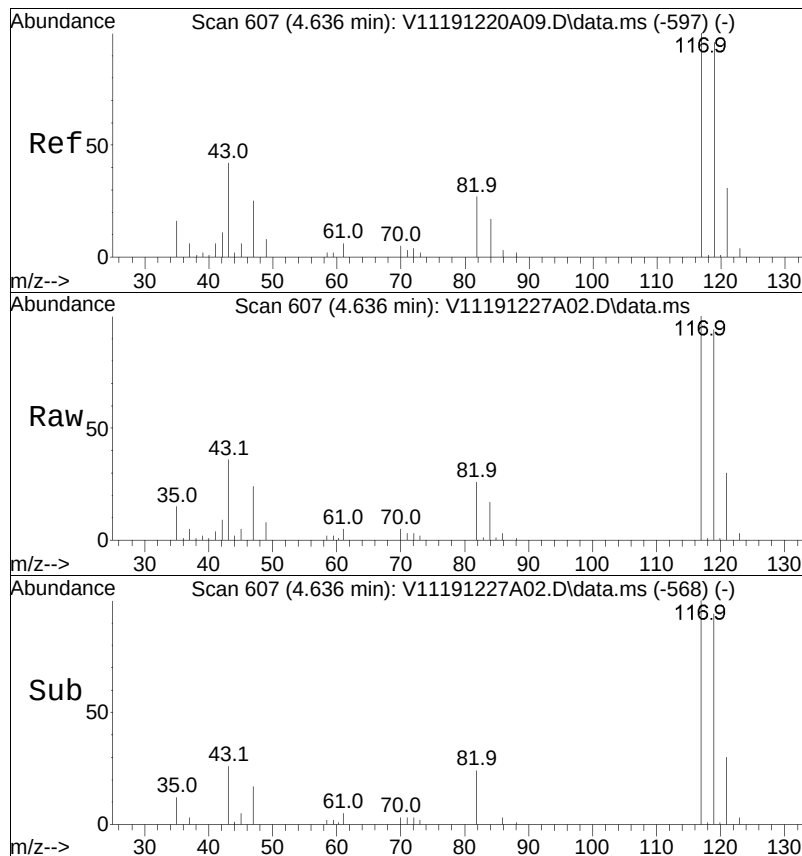




#32  
 Chloroform  
 Concen: 40.14 ug/L  
 RT: 4.511 min Scan# 583  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 258905 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.5  | 41.9  | 87.1   |
| 47        | 26.0  | 20.9  | 43.3   |
| 48        | 12.8  | 9.9   | 20.5   |





#34

Carbon tetrachloride

Concen: 42.71 ug/L

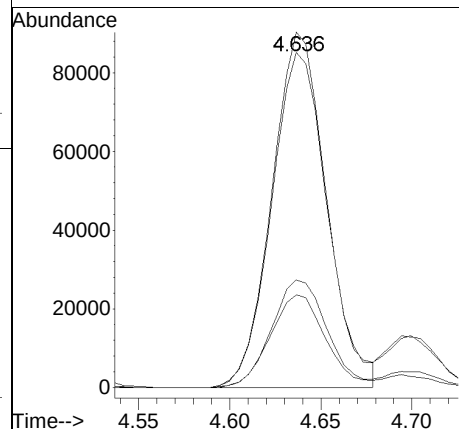
RT: 4.636 min Scan# 607

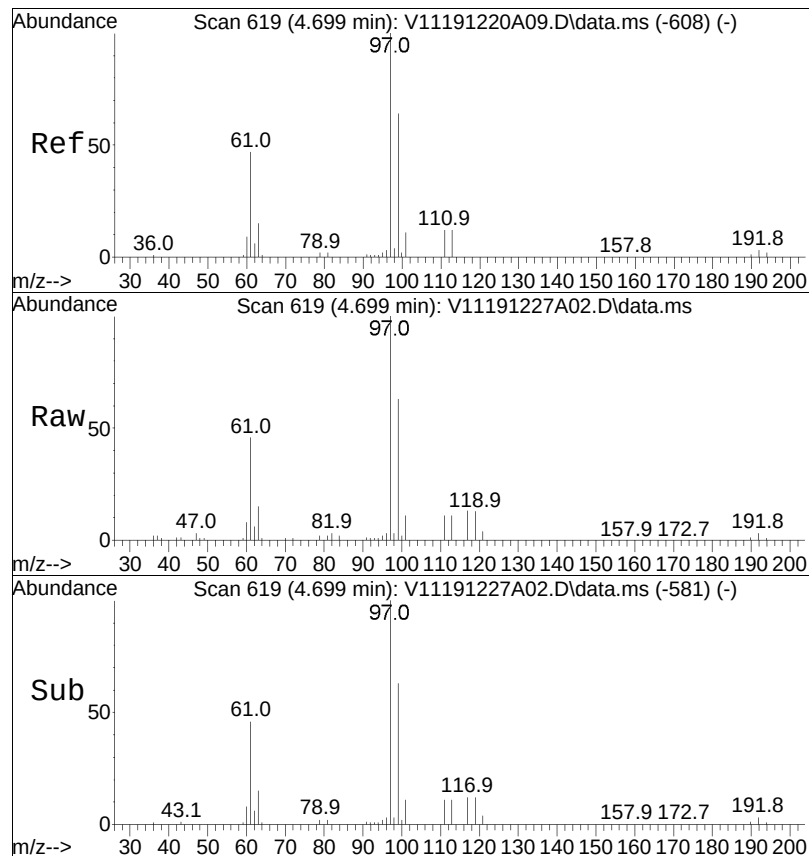
Delta R.T. 0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

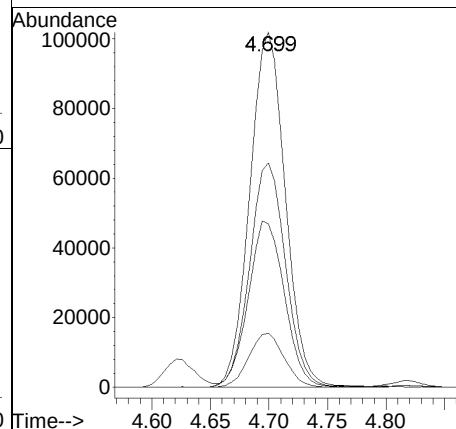
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:117 | Resp: | 187998 |
| Ion | Ratio   | Lower | Upper  |
| 117 | 100     |       |        |
| 119 | 96.2    | 64.0  | 132.8  |
| 121 | 30.9    | 20.7  | 42.9   |
| 82  | 26.6    | 16.3  | 33.8   |

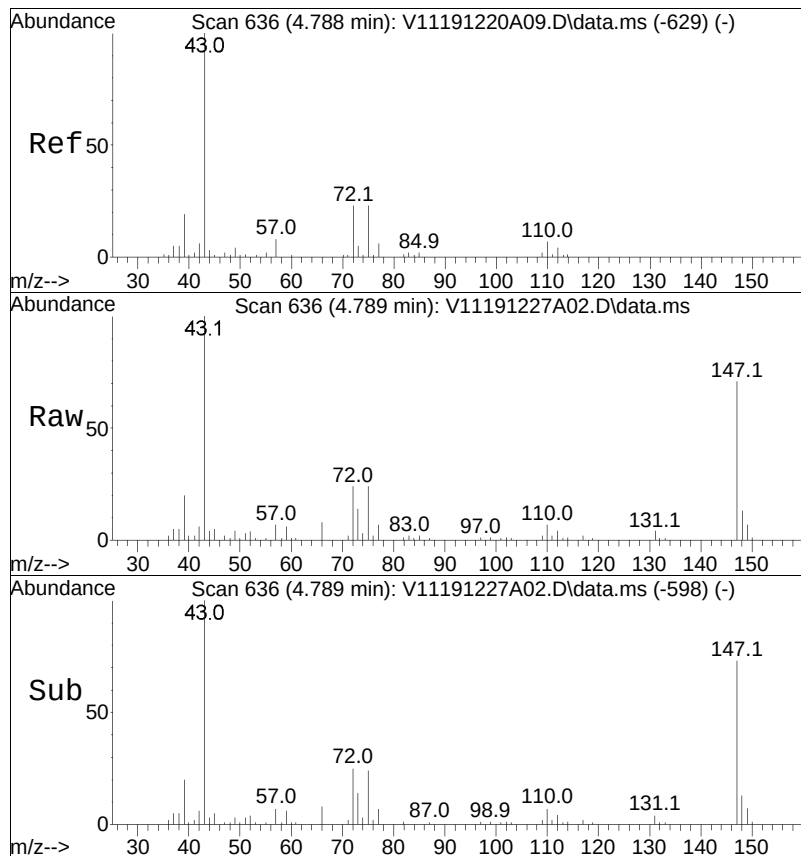




#37  
 1,1,1-Trichloroethane  
 Concen: 41.52 ug/L  
 RT: 4.699 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

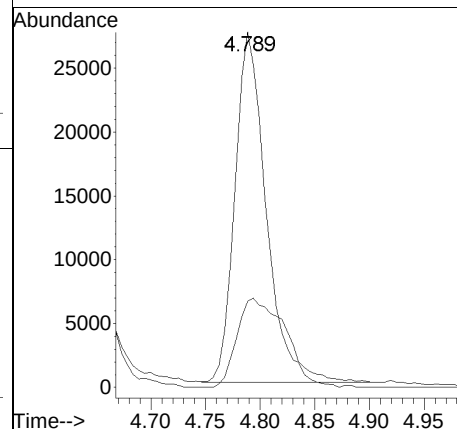
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 215873 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.0  | 41.5  | 86.1   |
| 61        | 48.0  | 32.2  | 67.0   |
| 63        | 15.2  | 10.1  | 20.9   |

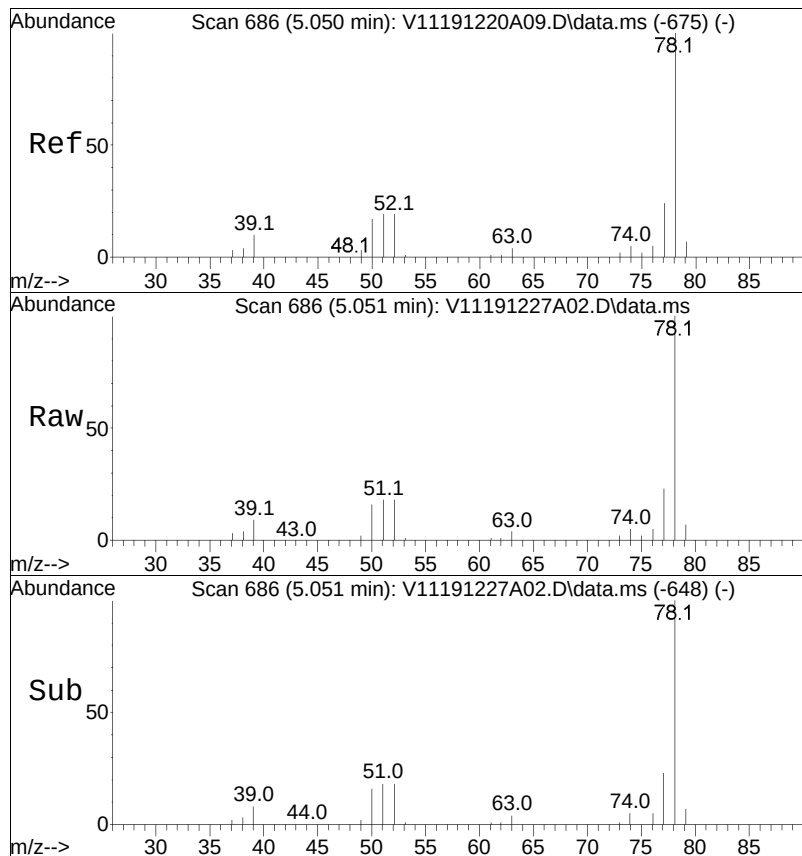




#39  
 2-Butanone  
 Concen: 39.33 ug/L  
 RT: 4.789 min Scan# 636  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

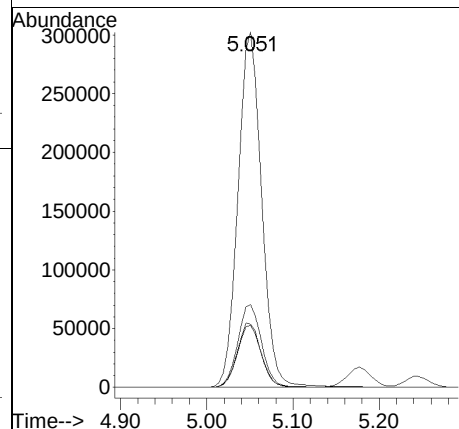
Tgt Ion: 43 Resp: 54762  
 Ion Ratio Lower Upper  
 43 100  
 72 39.1 21.0 31.6#

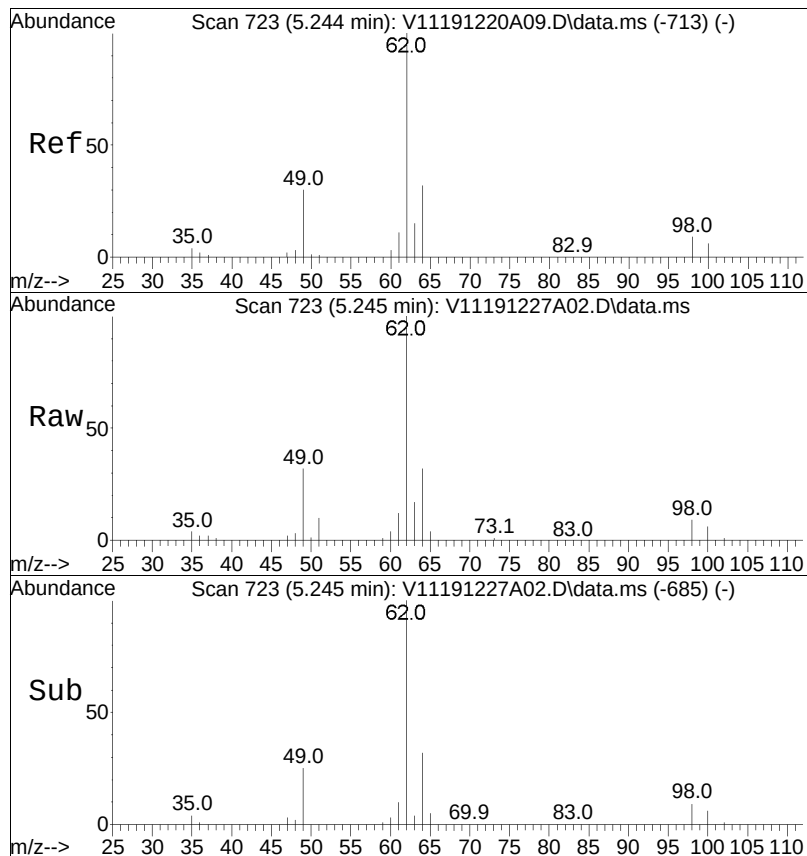




#41  
Benzene  
Concen: 40.36 ug/L  
RT: 5.051 min Scan# 686  
Delta R.T. 0.001 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

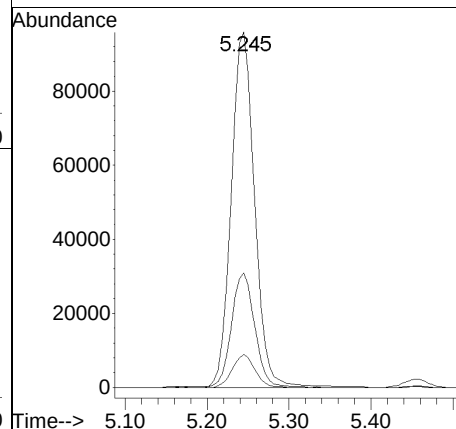
|             |              |
|-------------|--------------|
| Tgt Ion: 78 | Resp: 577381 |
| Ion Ratio   | Lower Upper  |
| 78 100      |              |
| 77 23.6     | 15.1 31.3    |
| 51 18.4     | 15.8 32.8    |
| 52 17.7     | 15.6 32.4    |

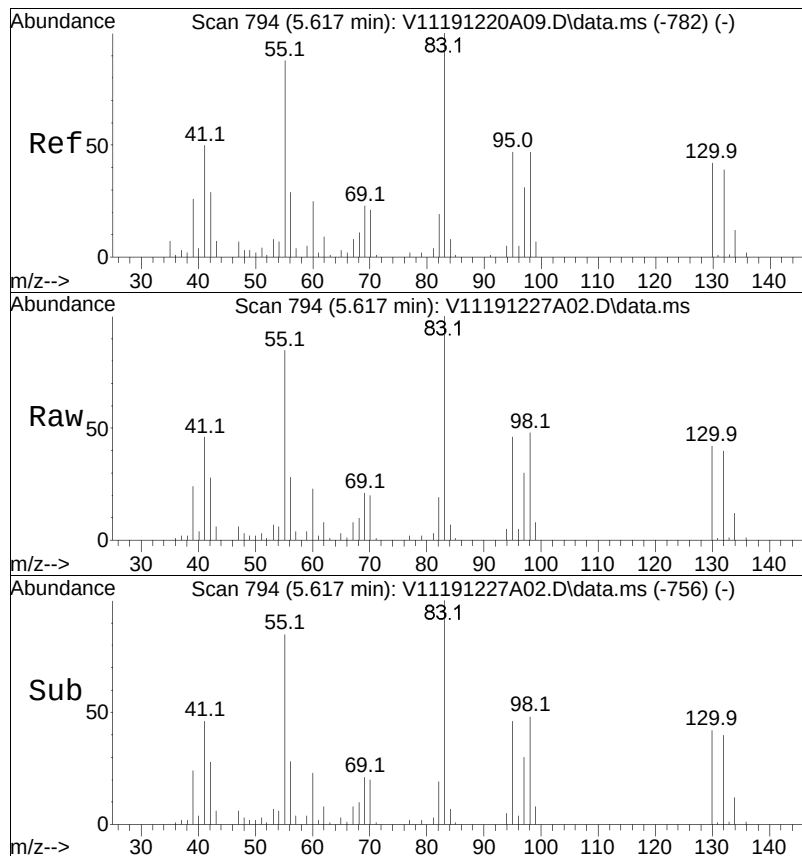




#44  
 1,2-Dichloroethane  
 Concen: 38.73 ug/L  
 RT: 5.245 min Scan# 723  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 62    | Resp: | 189894 |
| Ion Ratio | Lower | Upper |        |
| 62        | 100   |       |        |
| 64        | 32.0  | 11.1  | 51.1   |
| 98        | 8.9   | 0.0   | 28.0   |





#47

Methyl cyclohexane

Concen: 45.75 ug/L

RT: 5.617 min Scan# 794

Delta R.T. -0.000 min

Lab File: V11191227A02.D

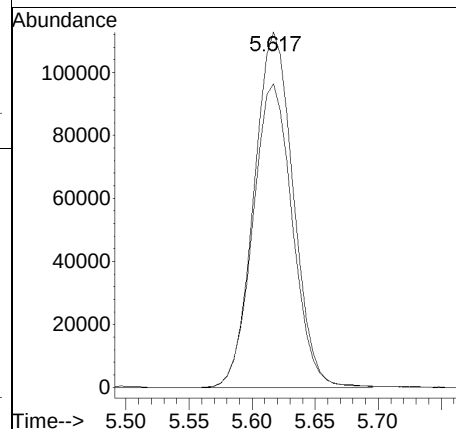
Acq: 27 Dec 2019 05:44 am

Tgt Ion: 83 Resp: 243825

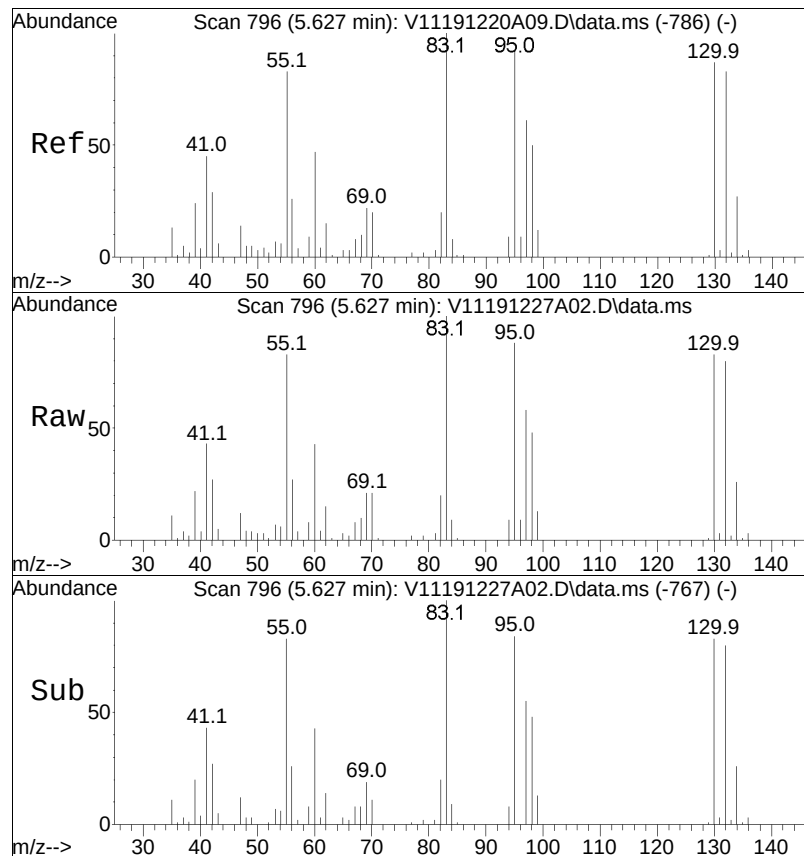
Ion Ratio Lower Upper

83 100

55 86.5 88.1 132.1#

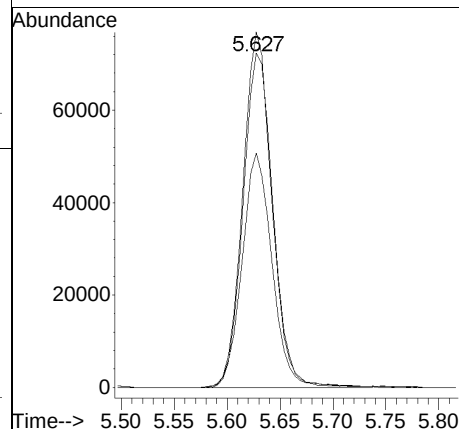


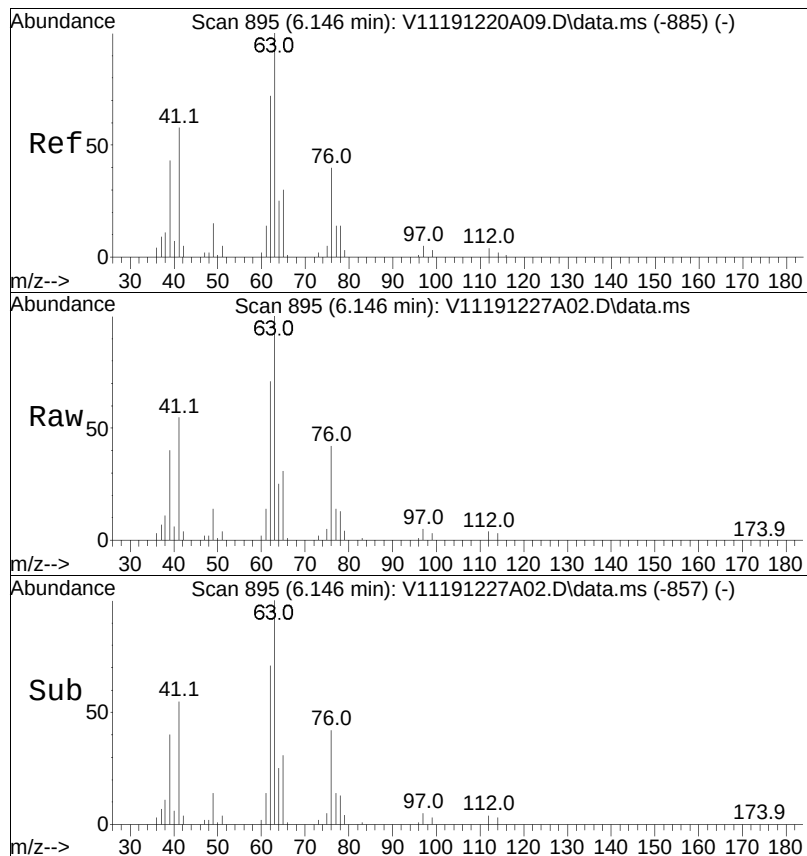




#48  
 Trichloroethene  
 Concen: 42.72 ug/L  
 RT: 5.627 min Scan# 796  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

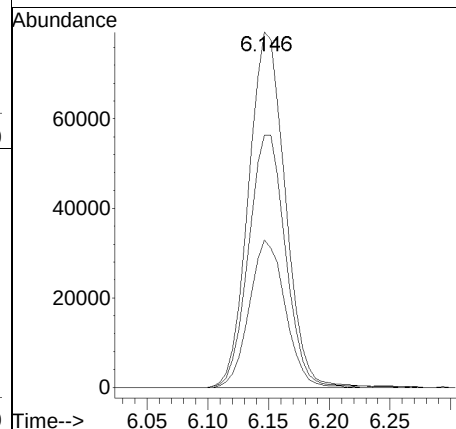
| Tgt Ion   | 95   | Resp  | 147961 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 95        | 100  |       |        |
| 97        | 67.6 | 54.3  | 81.5   |
| 130       | 96.5 | 84.6  | 126.8  |

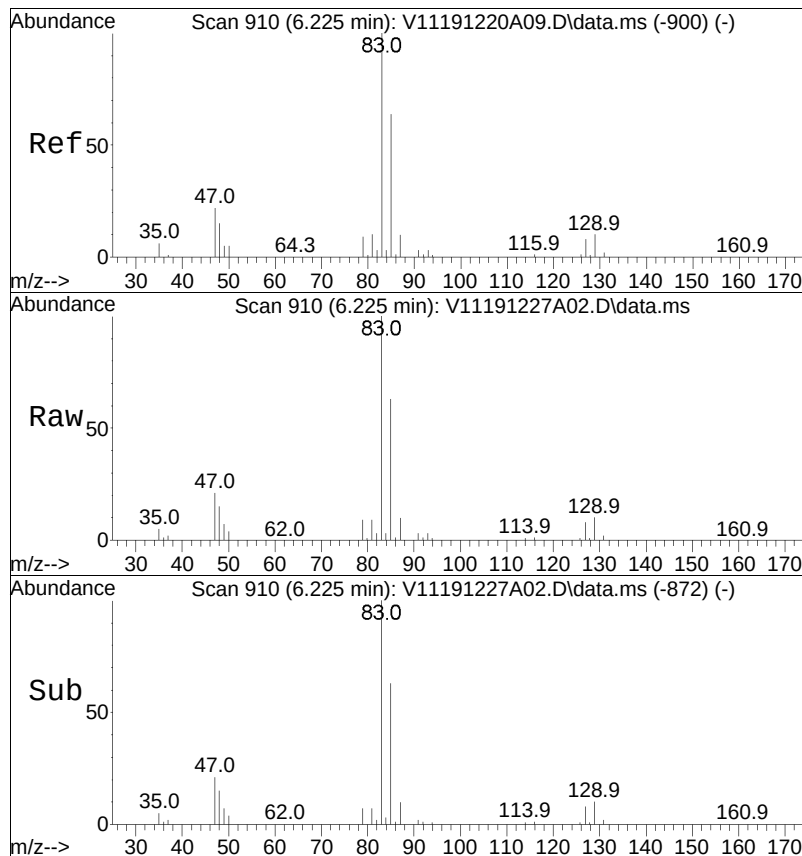




#51  
 1,2-Dichloropropane  
 Concen: 42.18 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 166436 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 62  | 71.8    | 57.9  | 86.9   |
| 76  | 40.8    | 30.1  | 45.1   |





#54

Bromodichloromethane

Concen: 41.43 ug/L

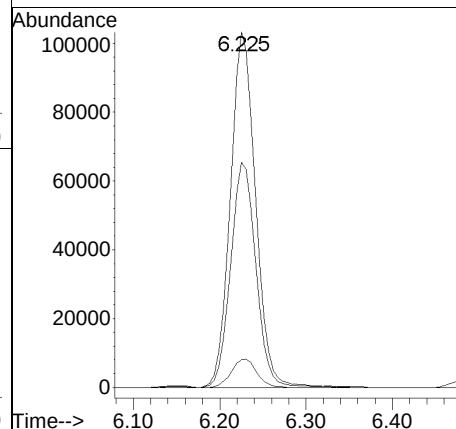
RT: 6.225 min Scan# 910

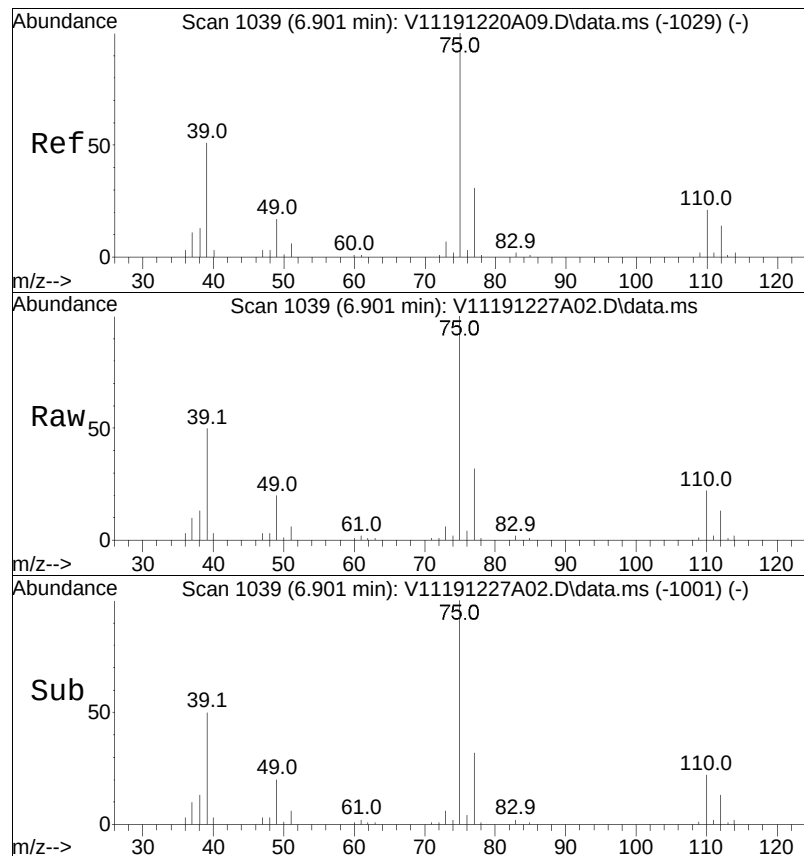
Delta R.T. 0.000 min

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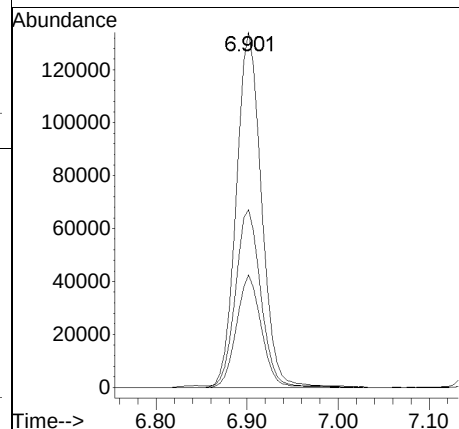
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 209559 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 63.5    | 51.6  | 77.4   |
| 127 | 8.0     | 7.1   | 10.7   |

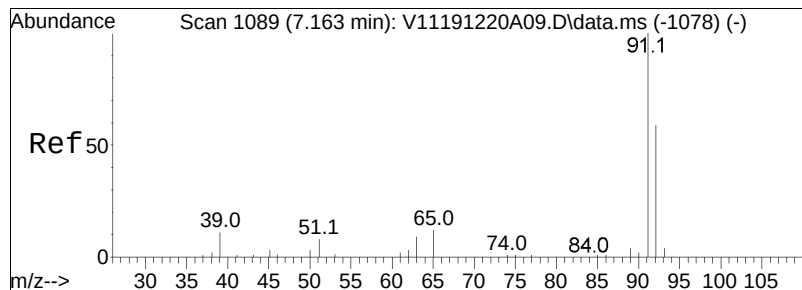




#58  
 cis-1,3-Dichloropropene  
 Concen: 45.09 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
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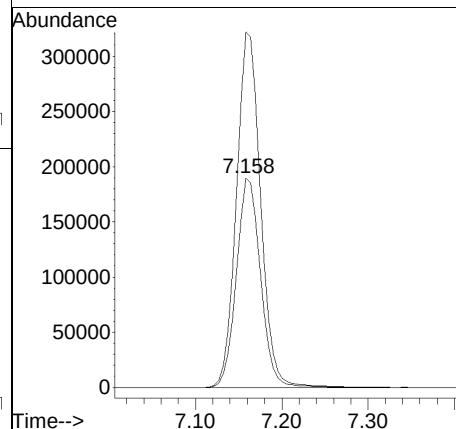
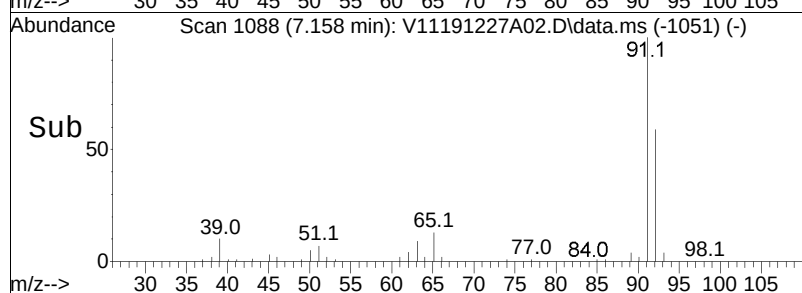
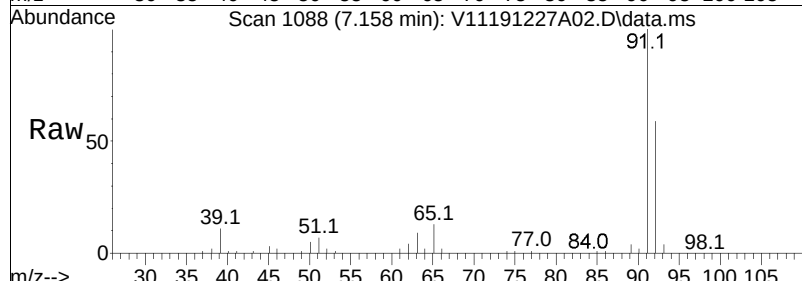
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.3  | 24.9  | 37.3  |
| 39      | 50.5  | 51.8  | 77.8# |

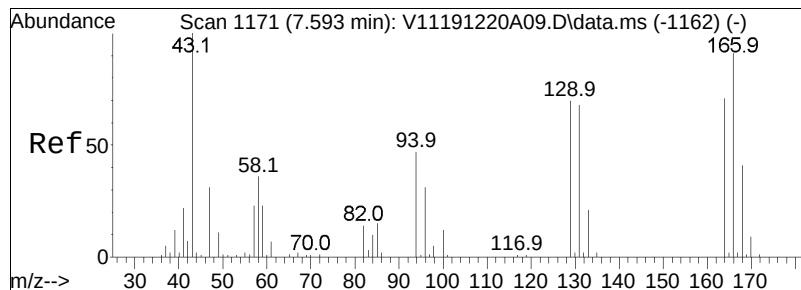




#61  
Toluene  
Concen: 38.97 ug/L  
RT: 7.158 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

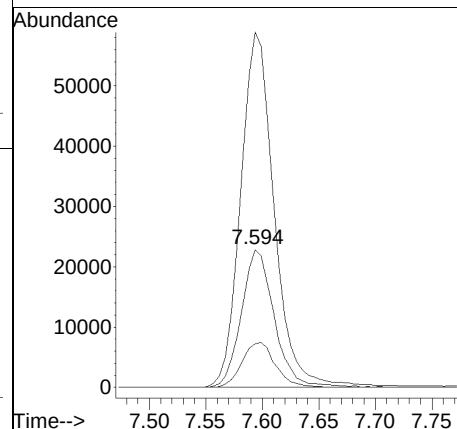
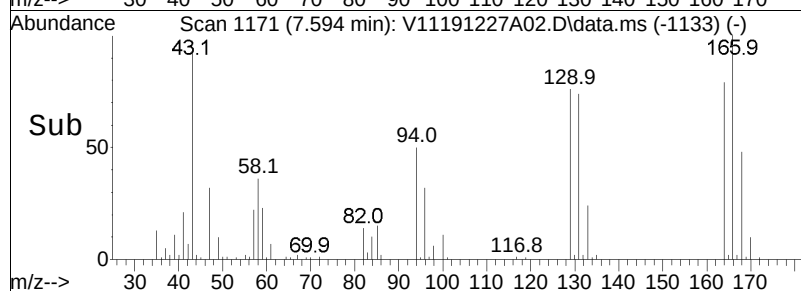
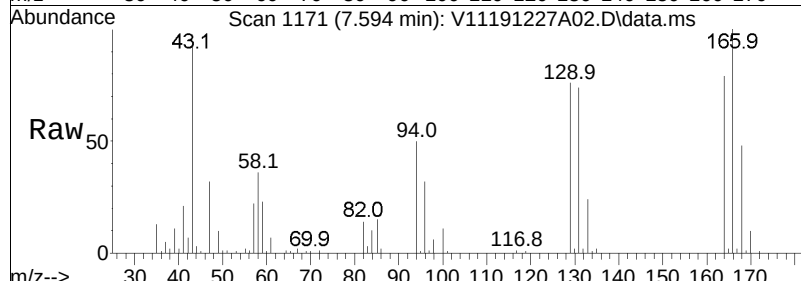
| Tgt | Ion   | Resp   | Lower | Upper |
|-----|-------|--------|-------|-------|
| 92  | 100   |        |       |       |
| 91  | 169.7 | 368429 | 133.7 | 200.5 |

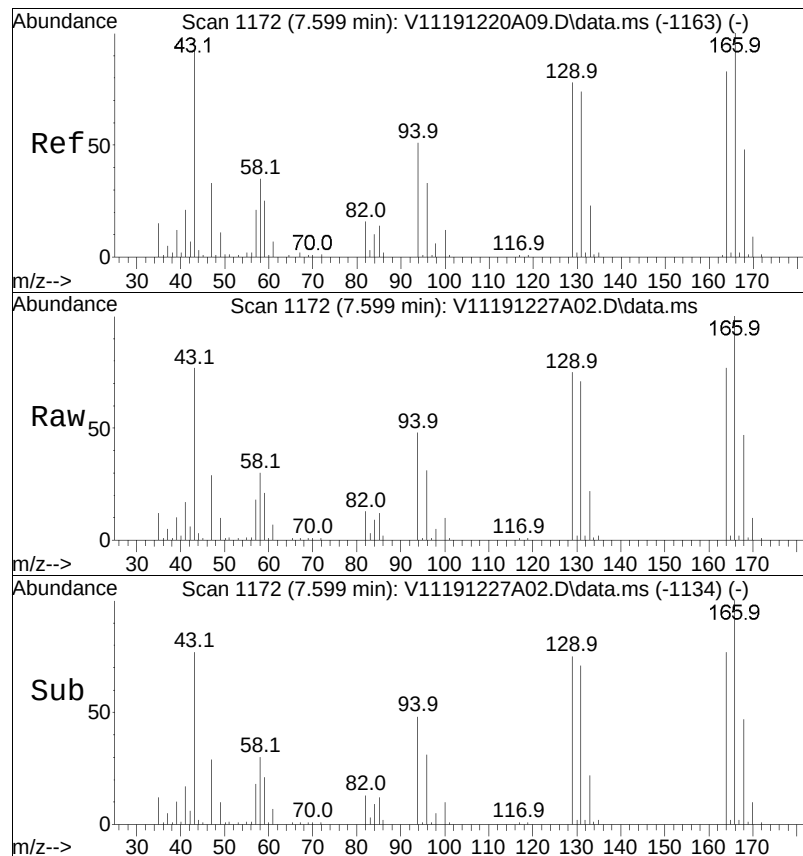




#62  
 4-Methyl-2-pentanone  
 Concen: 38.50 ug/L  
 RT: 7.594 min Scan# 1171  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

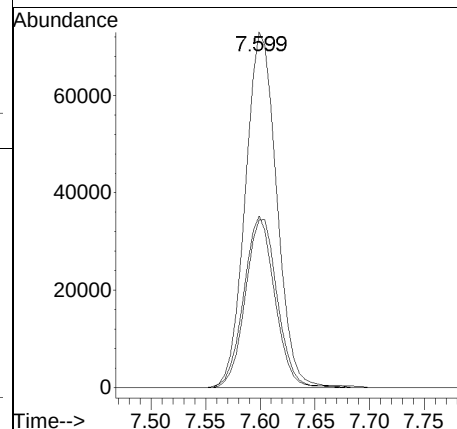
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 100     | 33.1  | 22.0  | 33.0# |
| 43      | 263.2 | 236.9 | 355.3 |

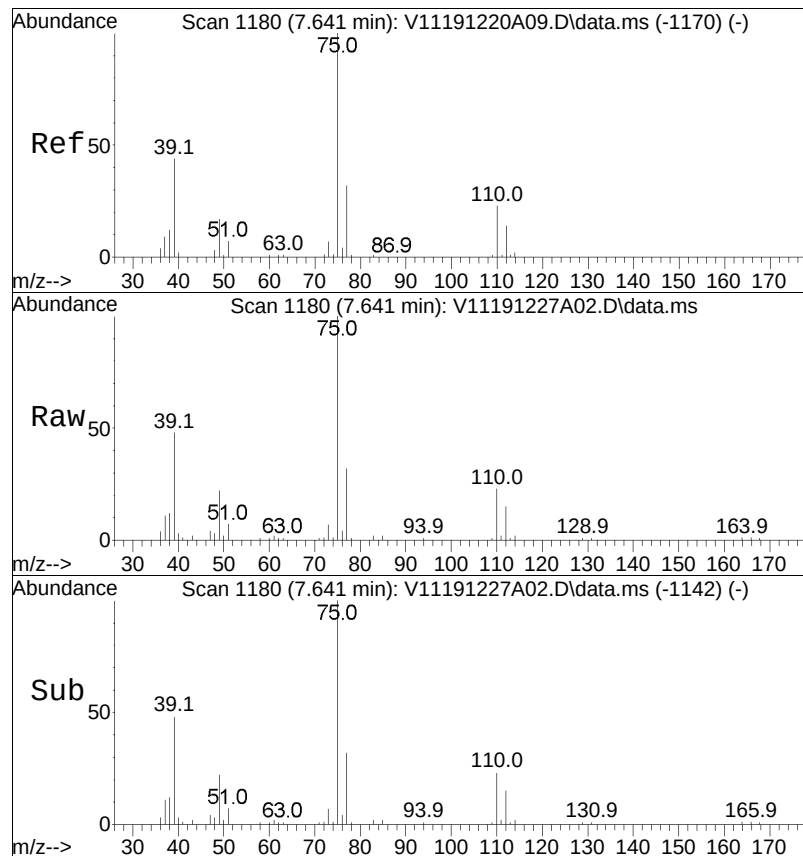




#63  
 Tetrachloroethene  
 Concen: 41.20 ug/L  
 RT: 7.599 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

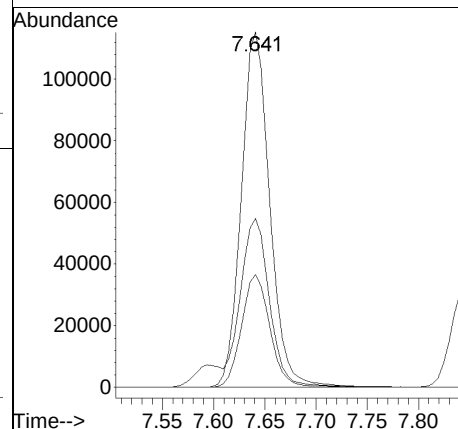
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 145691 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 168 | 48.0    | 28.2  | 68.2   |
| 94  | 47.5    | 26.3  | 66.3   |



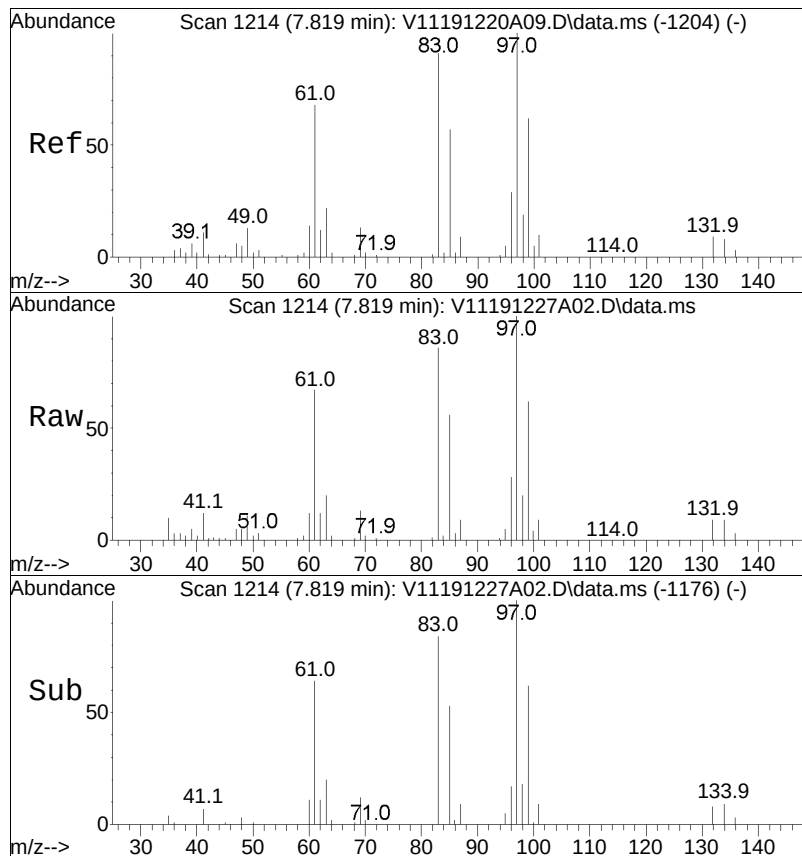


#65  
 trans-1,3-Dichloropropene  
 Concen: 39.52 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.8  | 11.4  | 51.4  |
| 39      | 48.6  | 50.3  | 90.3# |

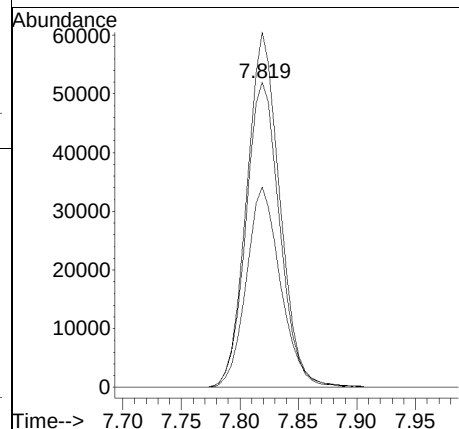


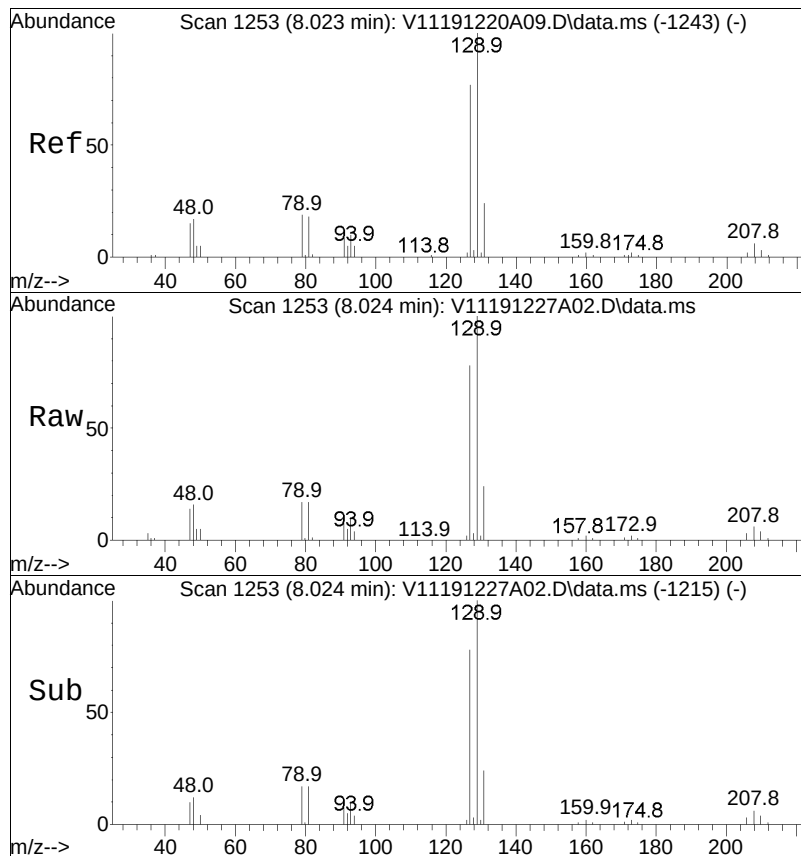




#68  
 1,1,2-Trichloroethane  
 Concen: 36.95 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

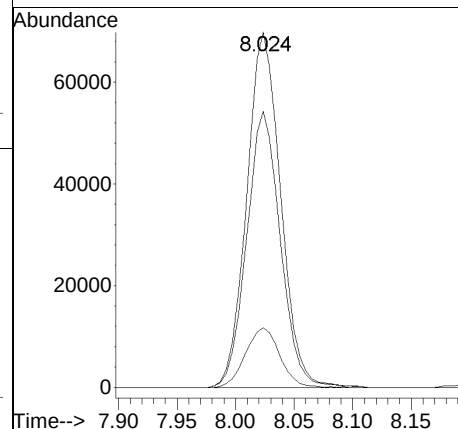
| Tgt Ion:  | 83    | Resp: | 104514 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 113.8 | 97.6  | 137.6  |
| 85        | 66.7  | 46.8  | 86.8   |

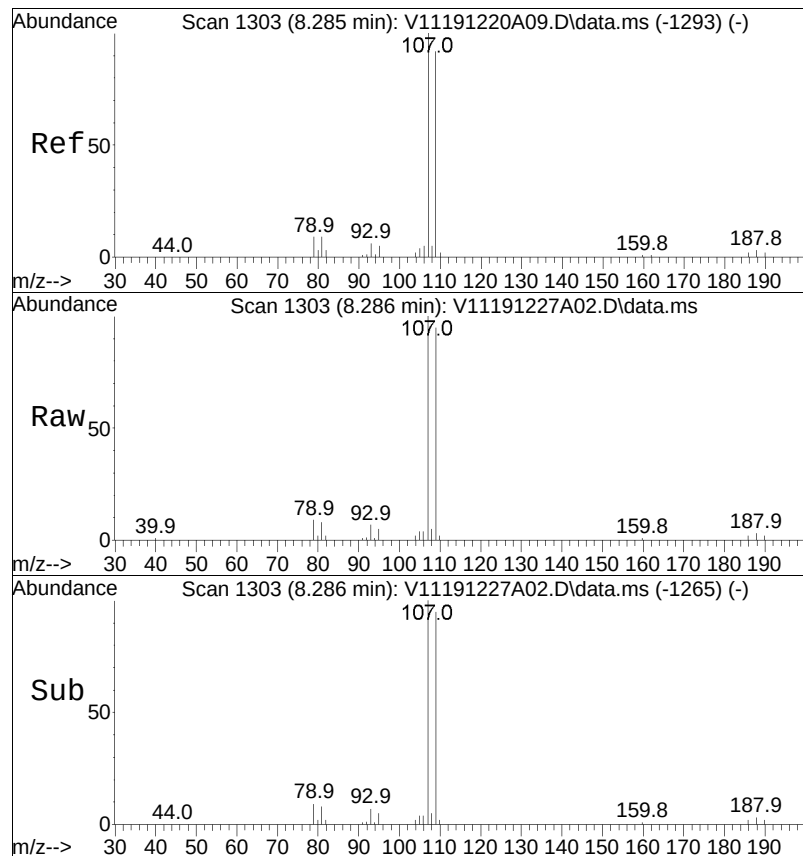




#69  
 Chlorodibromomethane  
 Concen: 38.46 ug/L  
 RT: 8.024 min Scan# 1253  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

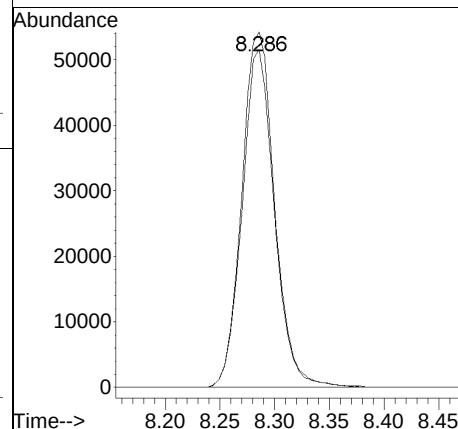
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 129     | 100   | 140587 |       |       |
| 81      | 16.9  |        | 0.0   | 36.0  |
| 127     | 77.2  |        | 56.0  | 96.0  |

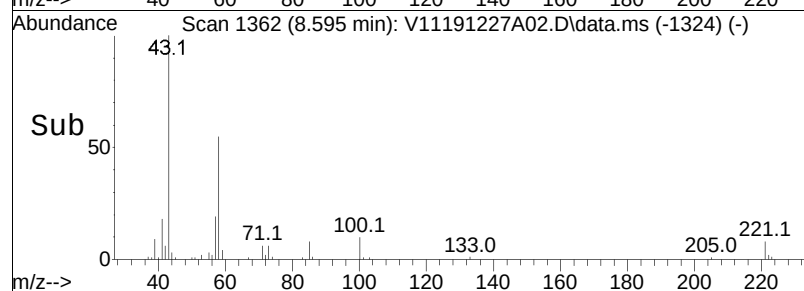
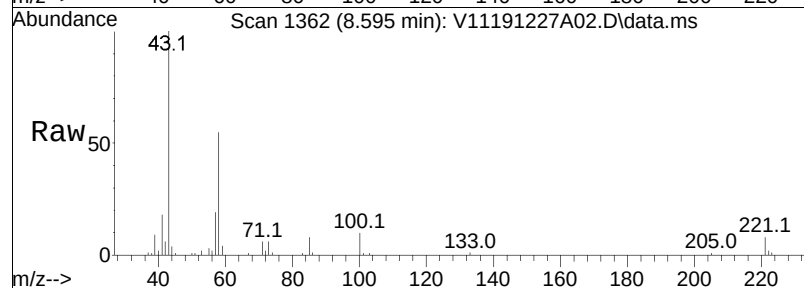
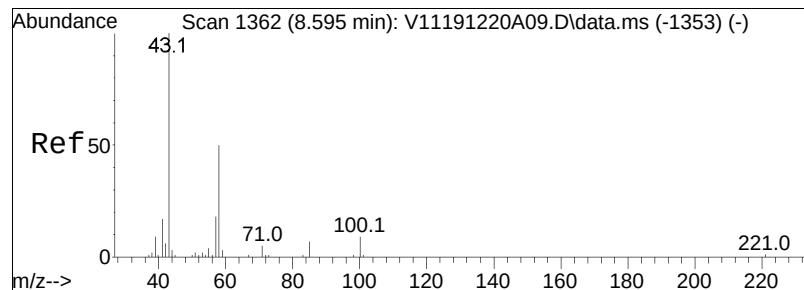




#71  
 1,2-Dibromoethane  
 Concen: 38.08 ug/L  
 RT: 8.286 min Scan# 1303  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.2  | 76.2  | 114.4 |





#72

2-Hexanone

Concen: 38.14 ug/L

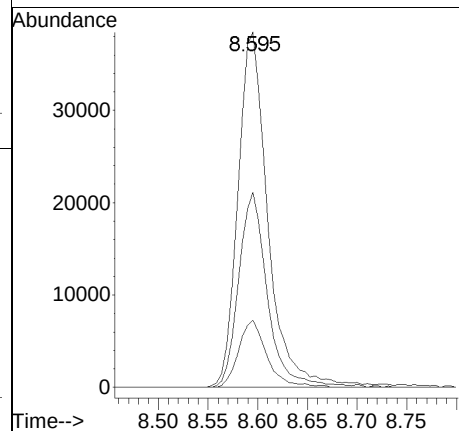
RT: 8.595 min Scan# 1362

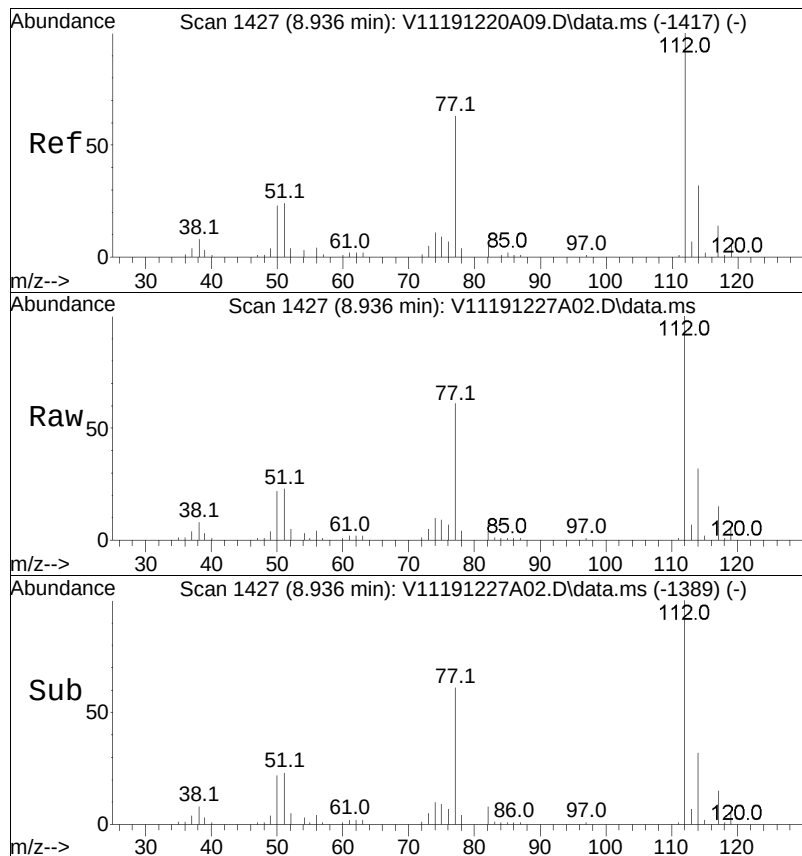
Delta R.T. 0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

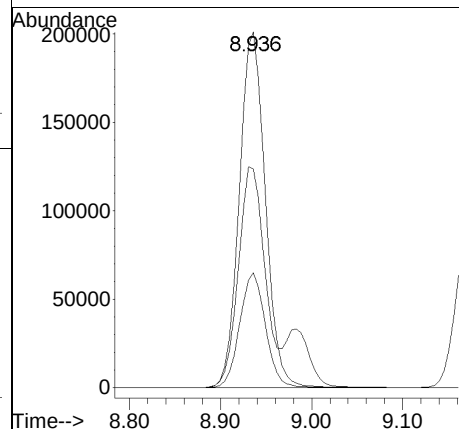
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 81150 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 52.7  | 37.9  | 56.9  |
| 57        | 17.9  | 12.6  | 19.0  |

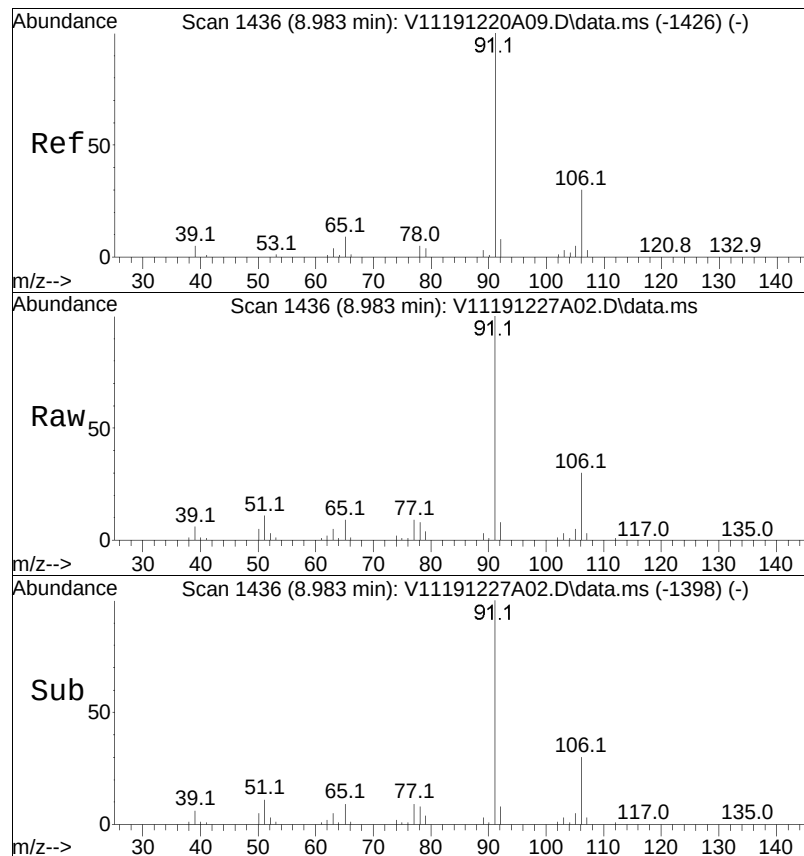




#73  
 Chlorobenzene  
 Concen: 38.80 ug/L  
 RT: 8.936 min Scan# 1427  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

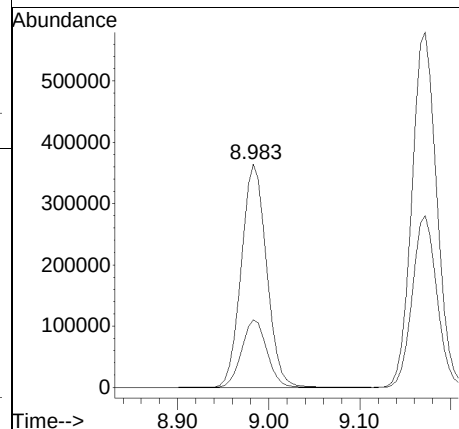
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:112 | Resp: | 397883 |
| Ion | Ratio   | Lower | Upper  |
| 112 | 100     |       |        |
| 77  | 64.3    | 47.0  | 70.4   |
| 114 | 31.9    | 25.9  | 38.9   |

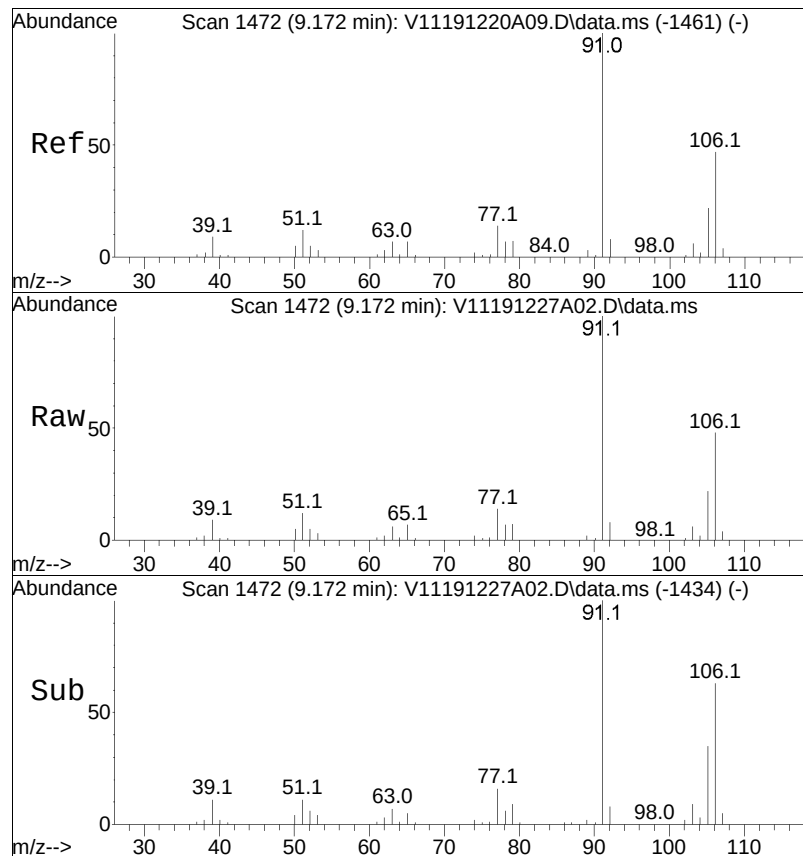




#74  
 Ethylbenzene  
 Concen: 41.33 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

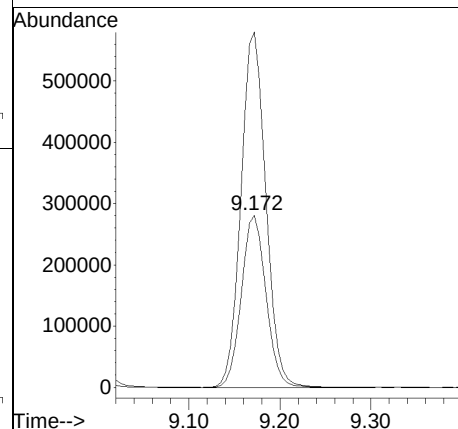
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 702654 |       |       |
| 106 | 30.2 | 25.0   | 37.4  |       |

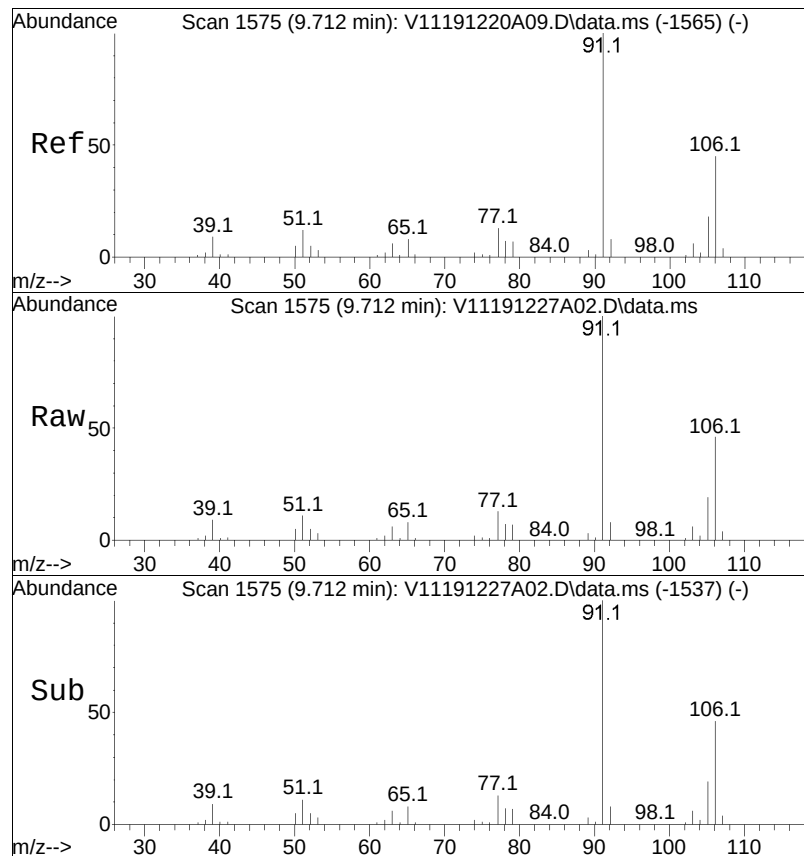




#76  
 p/m Xylene  
 Concen: 86.69 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

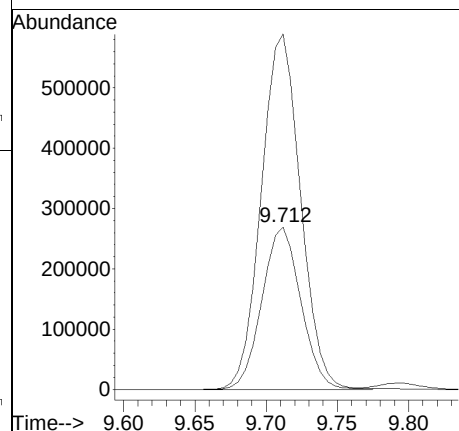
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 207.9 | 159.3 | 238.9 |       |



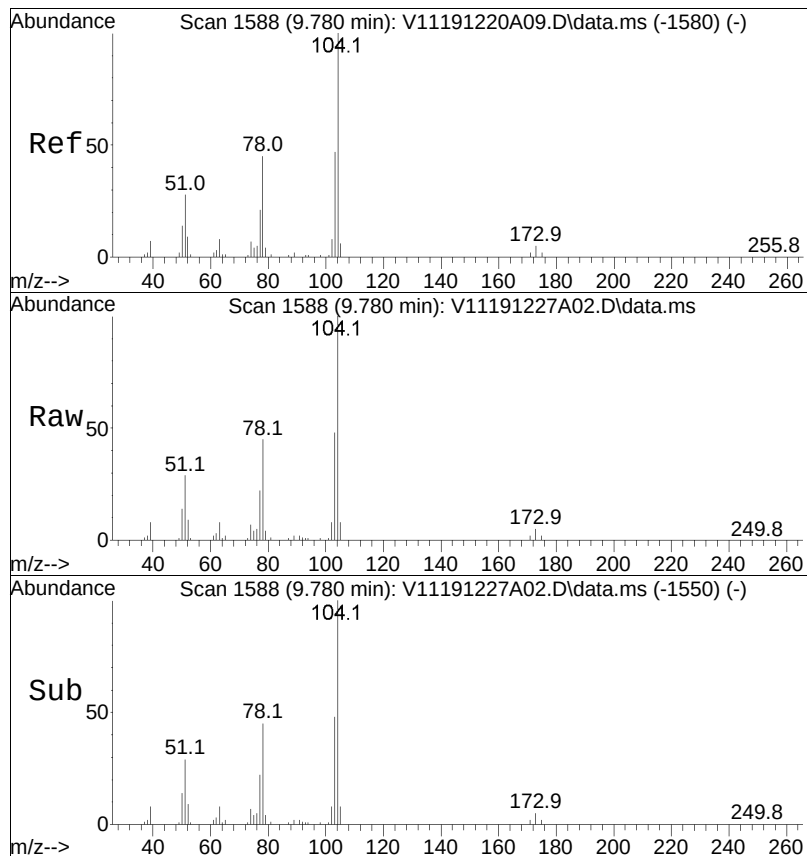


#77  
 o Xylene  
 Concen: 86.82 ug/L  
 RT: 9.712 min Scan# 1575  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 220.5 | 170.2 | 255.2 |       |

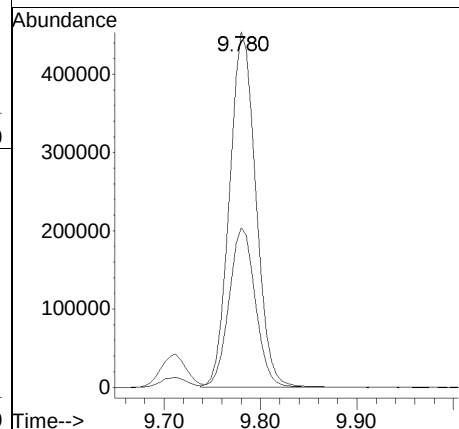


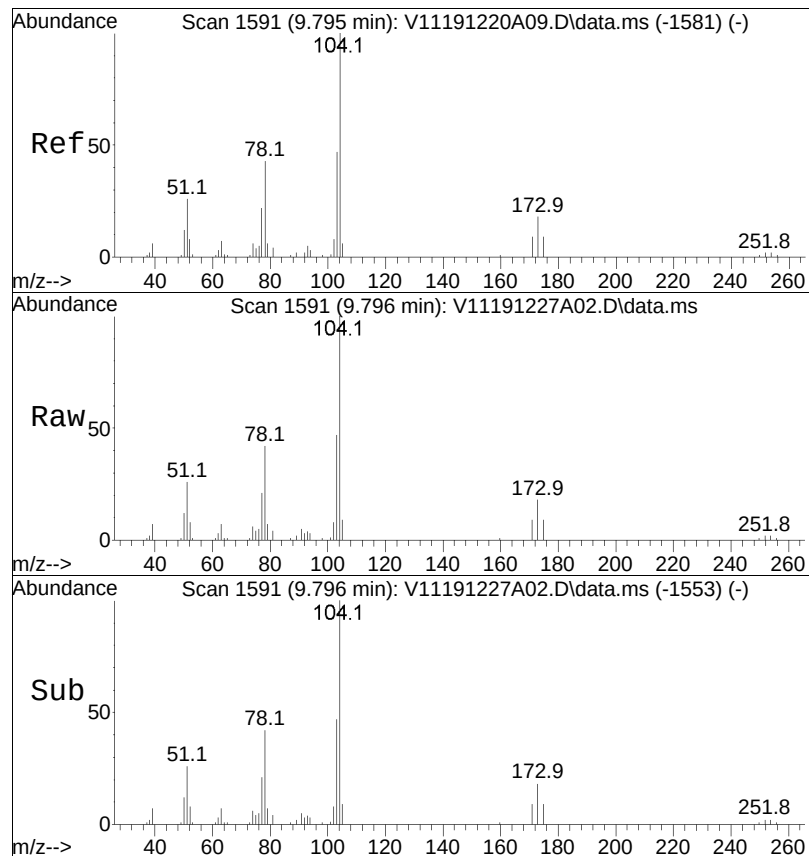




#78  
 Styrene  
 Concen: 87.45 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

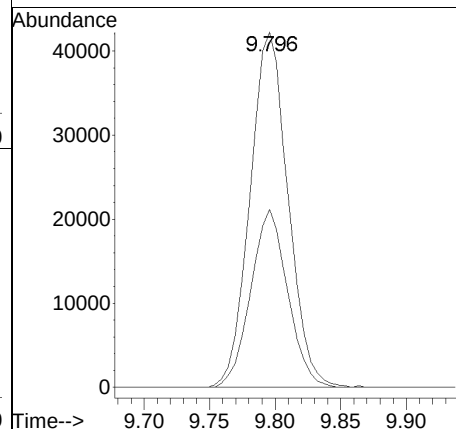
| Tgt Ion | 104    | 78   | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 861457 |      |       |       |       |
| Ratio   | 100    | 45.1 |       | 34.4  | 51.6  |

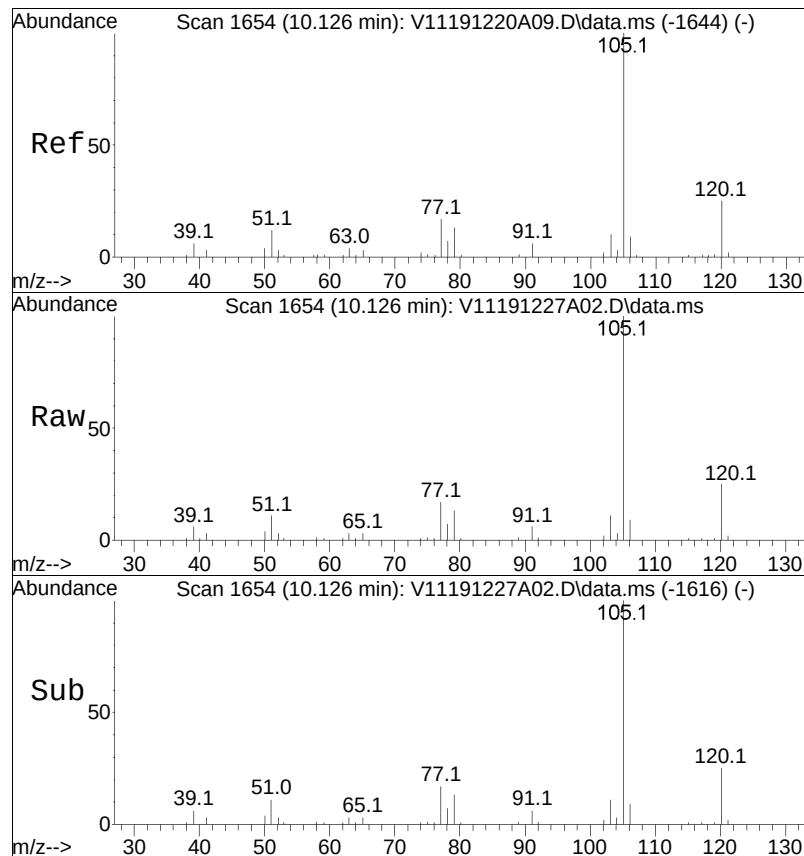




#80  
 Bromoform  
 Concen: 41.21 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

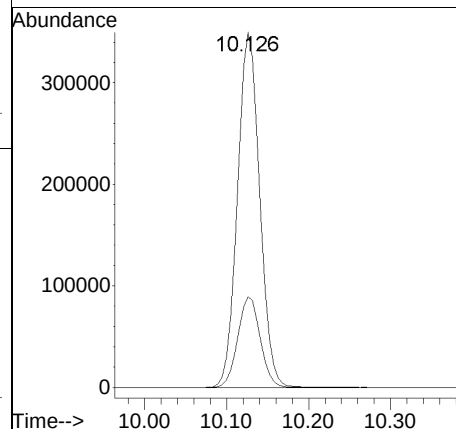
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.7  | 28.1  | 68.1  |

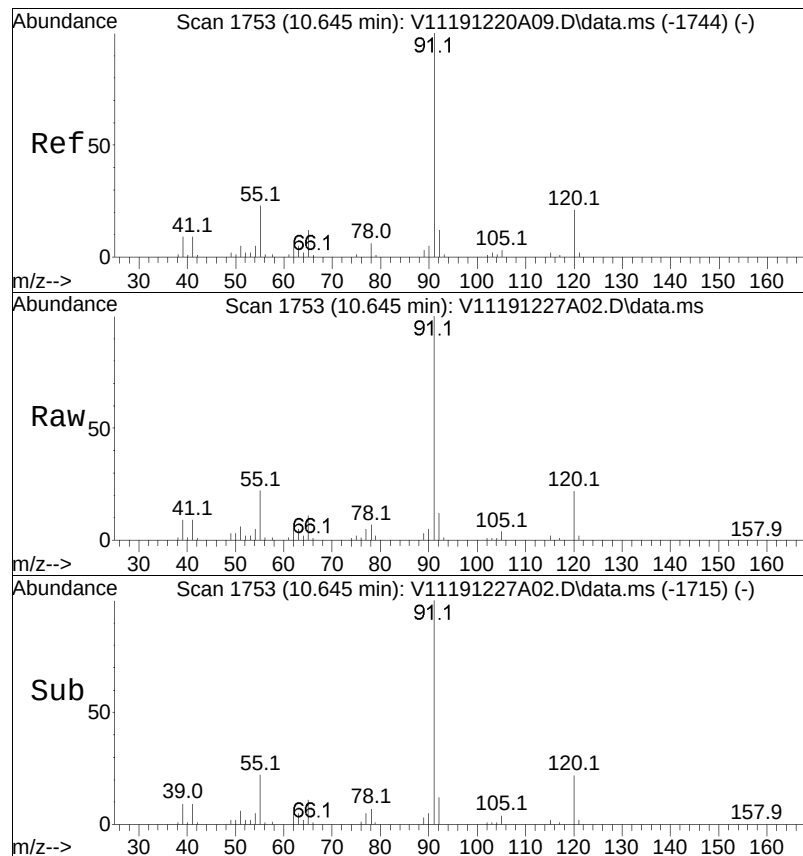




#82  
 Isopropylbenzene  
 Concen: 46.29 ug/L  
 RT: 10.126 min Scan# 1654  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

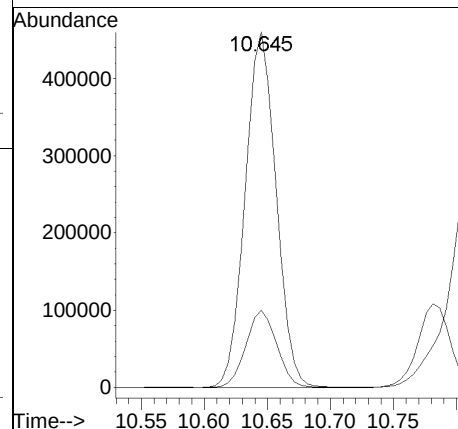
| Tgt Ion | 105  | 120 | Ratio | Lower | Upper |
|---------|------|-----|-------|-------|-------|
| 105     | 100  |     |       |       |       |
| 120     | 25.8 |     | 6.9   |       | 46.9  |

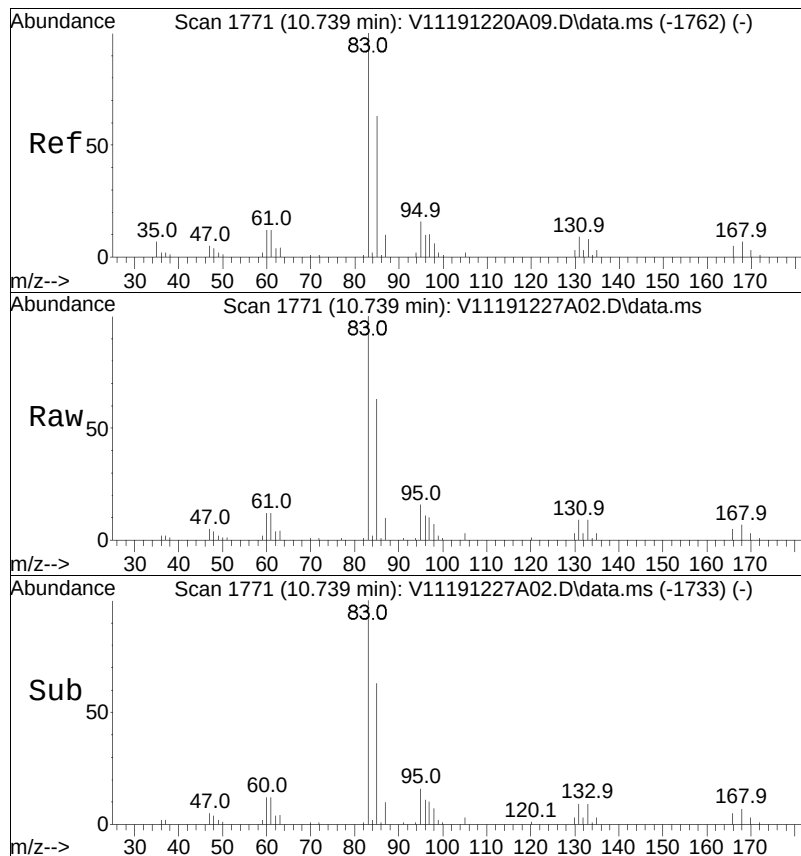




#85  
 n-Propylbenzene  
 Concen: 42.57 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

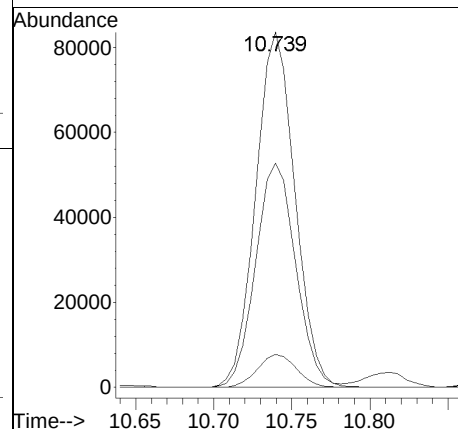
| Tgt Ion:  | 91    | Resp: | 783859 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 21.6  | 18.6  | 27.8   |

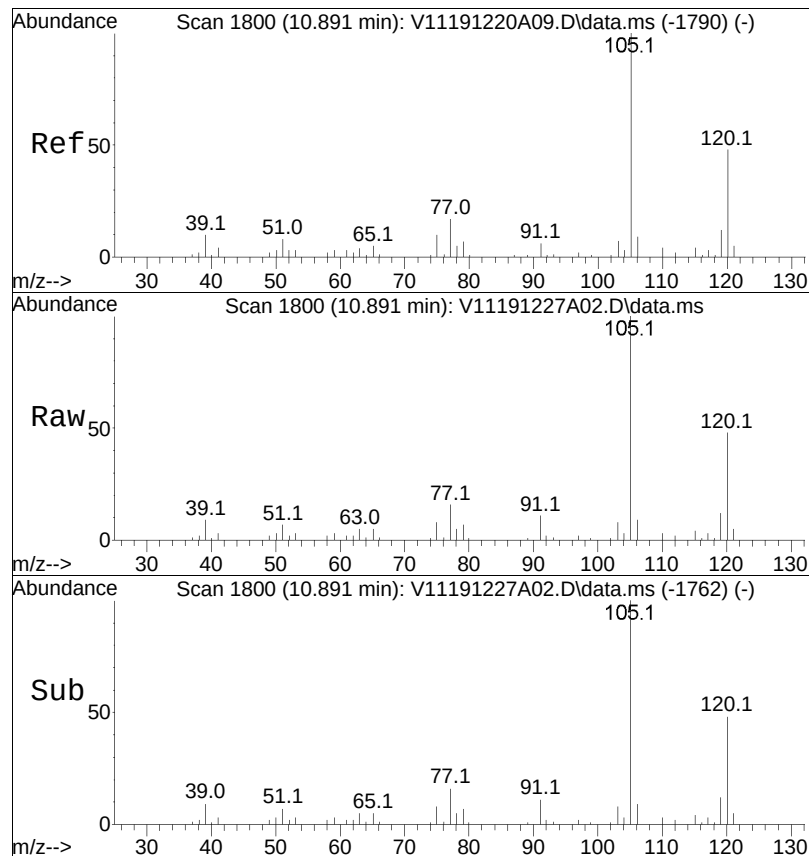




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 36.96 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

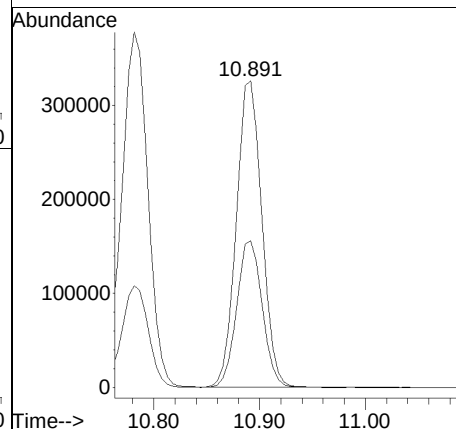
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.3   | 0.0   | 30.1  |
| 85      | 64.7  | 45.8  | 85.8  |

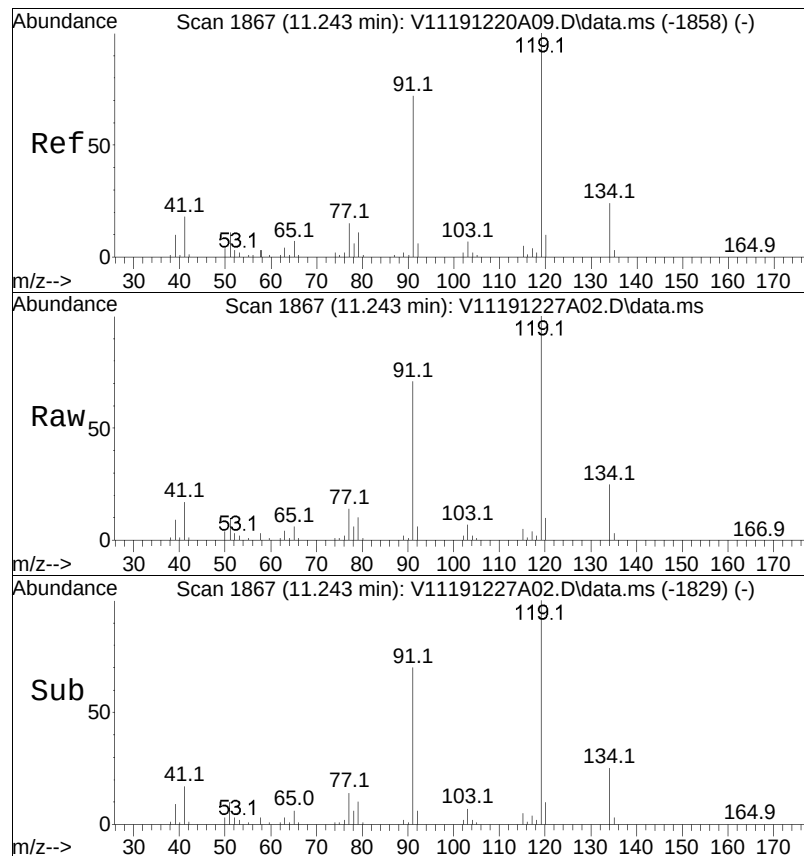




#90  
 1,3,5-Trimethylbenzene  
 Concen: 44.43 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

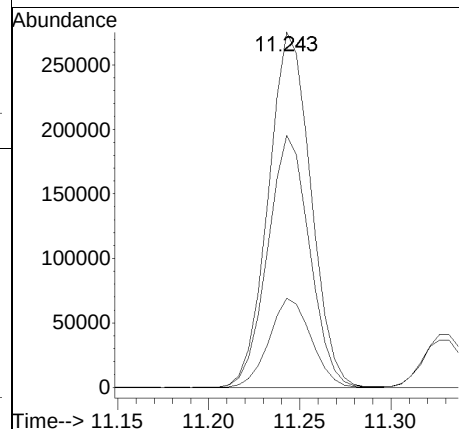
| Tgt Ion | 105    | 120  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp:   | 547195 |      |       |       |       |
| 105     | 100    |      |       |       |       |
| 120     | 47.9   | 39.8 | 59.8  |       |       |

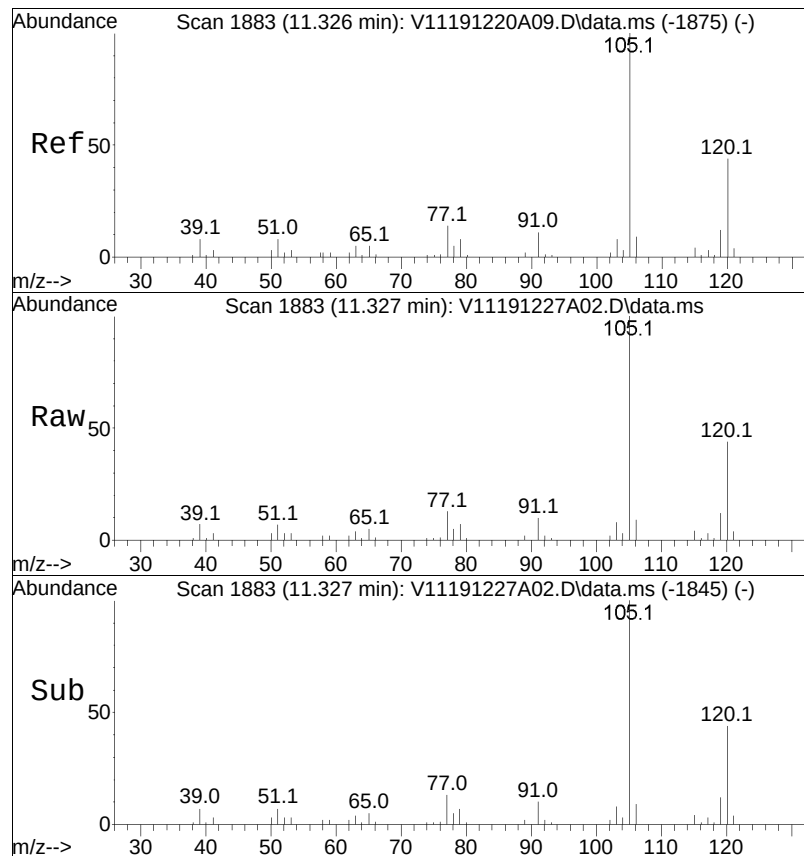




#94  
 tert-Butylbenzene  
 Concen: 45.22 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

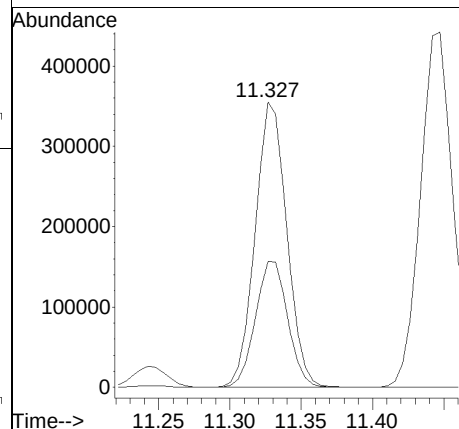
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 447255 |       |       |
| 91      | 70.1  |        | 53.0  | 79.4  |
| 134     | 24.8  |        | 19.8  | 29.6  |



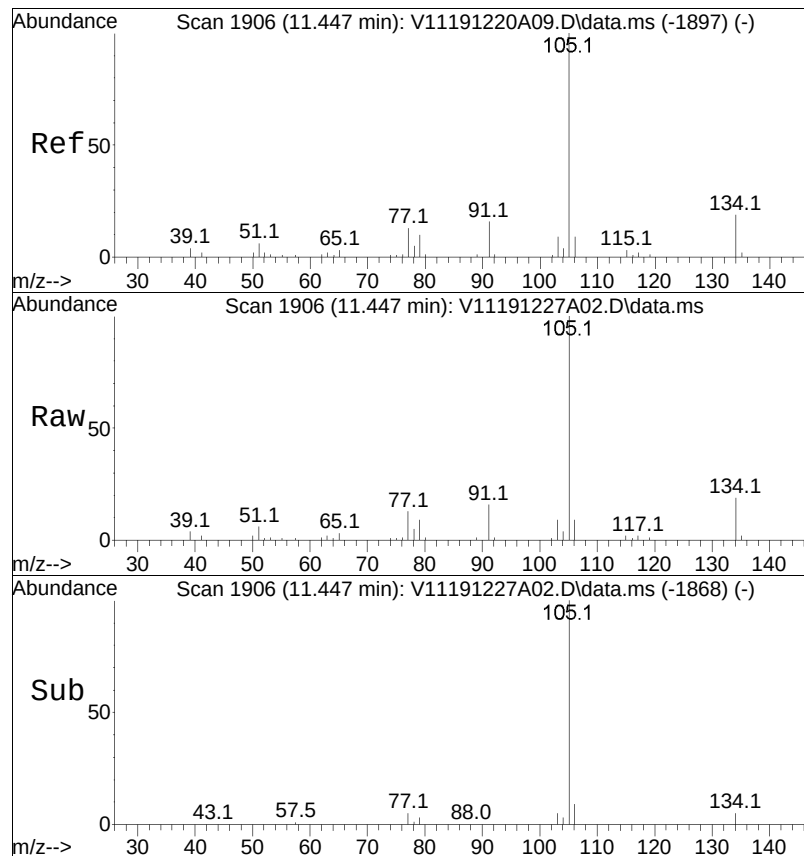


#97  
 1,2,4-Trimethylbenzene  
 Concen: 45.47 ug/L  
 RT: 11.327 min Scan# 1883  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | 105  | 120 | Ratio | Lower | Upper |
|---------|------|-----|-------|-------|-------|
| 105     | 100  |     |       |       |       |
| 120     | 45.0 |     | 37.4  | 56.0  |       |

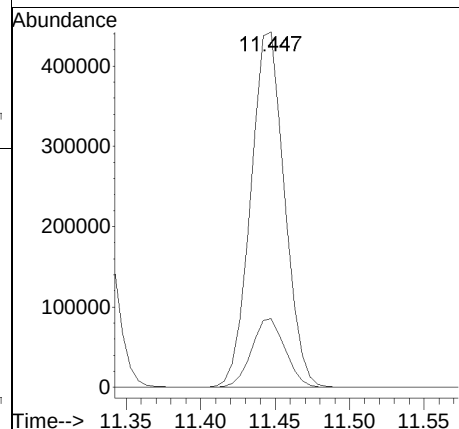


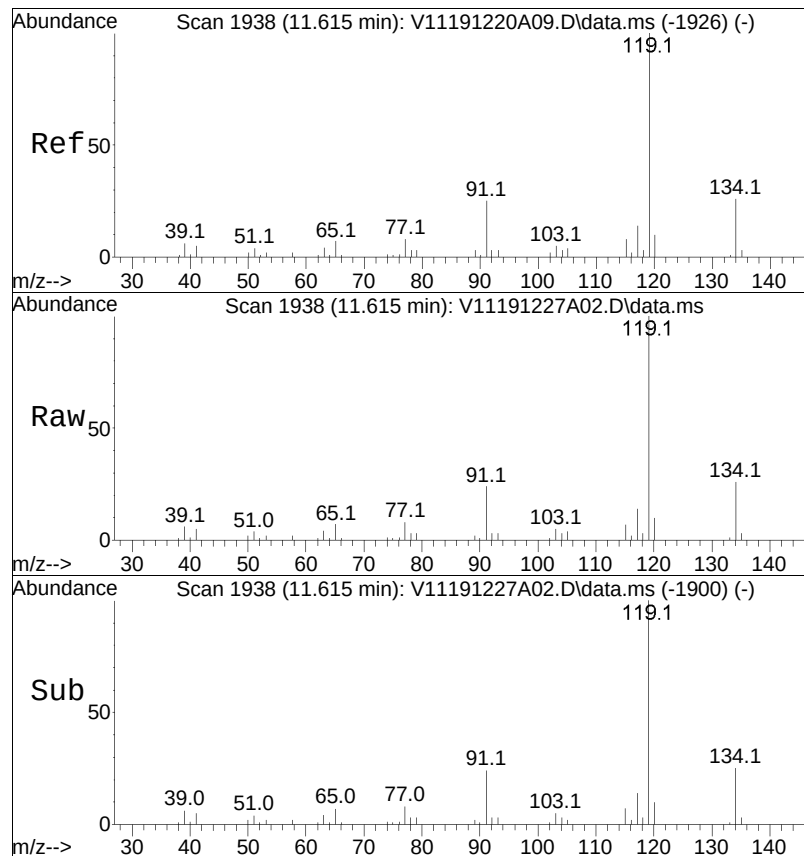




#98  
 sec-Butylbenzene  
 Concen: 45.20 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

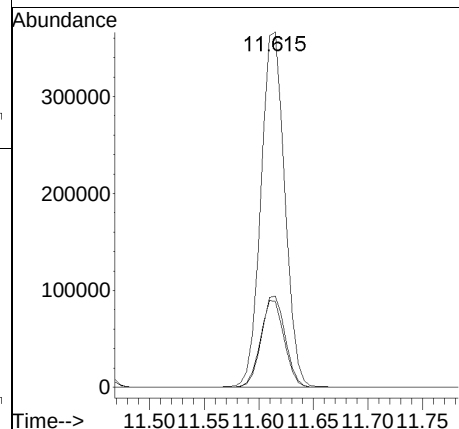
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 134 | 19.3 | 13.2  | 27.4  |       |

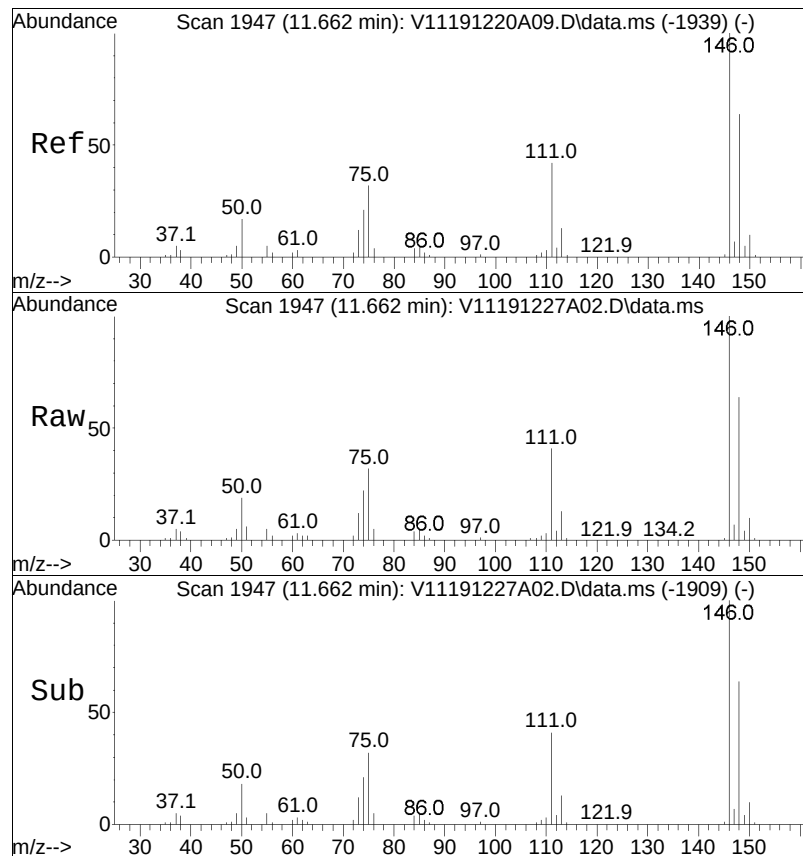




#99  
 p-Isopropyltoluene  
 Concen: 45.17 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

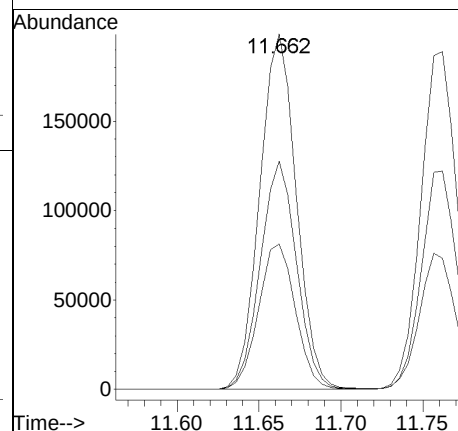
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:119 | Resp: | 557768 |
| Ion | Ratio   | Lower | Upper  |
| 119 | 100     |       |        |
| 134 | 25.7    | 17.1  | 35.5   |
| 91  | 24.5    | 15.3  | 31.9   |

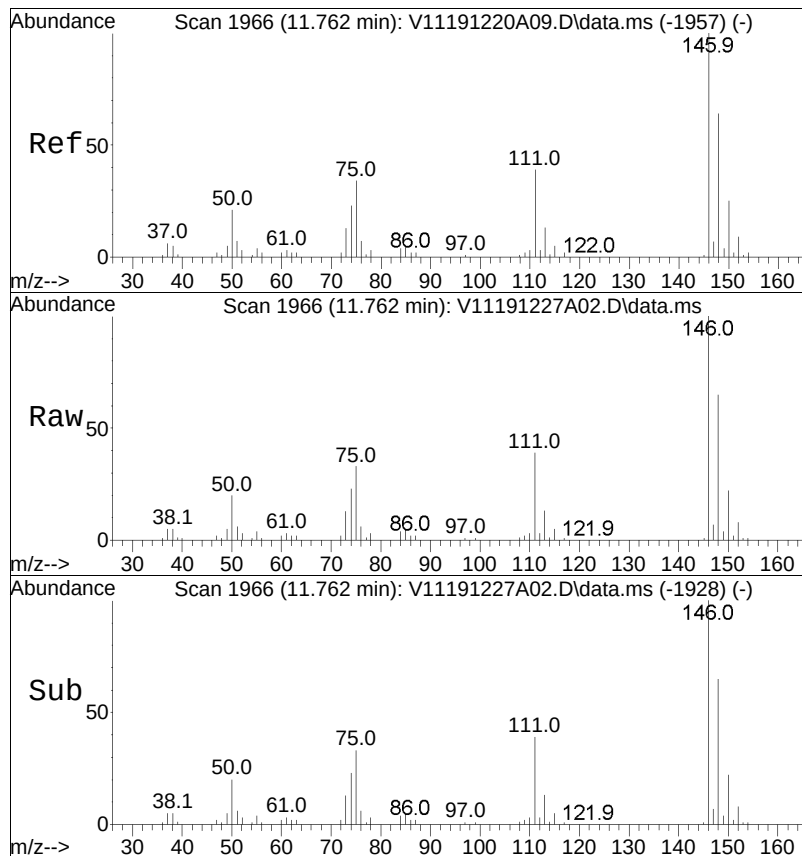




#100  
 1,3-Dichlorobenzene  
 Concen: 41.25 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

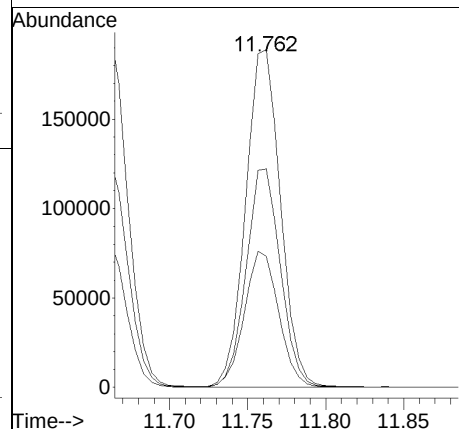
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 146 | 100  |       | 308575 |       |       |
| 111 | 41.3 | 25.6  | 53.2   |       |       |
| 148 | 63.7 | 41.3  | 85.9   |       |       |

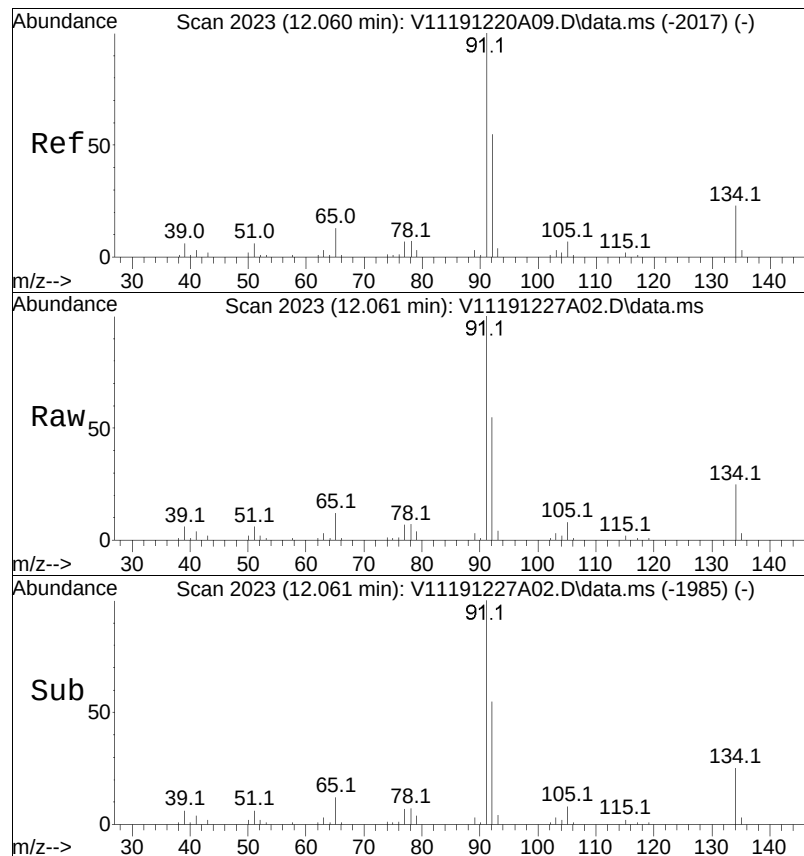




#101  
 1,4-Dichlorobenzene  
 Concen: 38.42 ug/L  
 RT: 11.762 min Scan# 1966  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

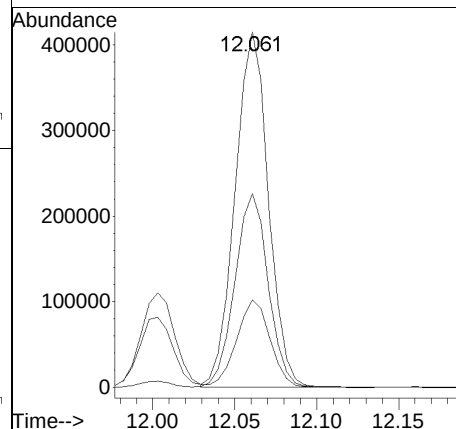
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.2  | 31.4  | 47.0  |
| 148     | 64.2  | 50.7  | 76.1  |

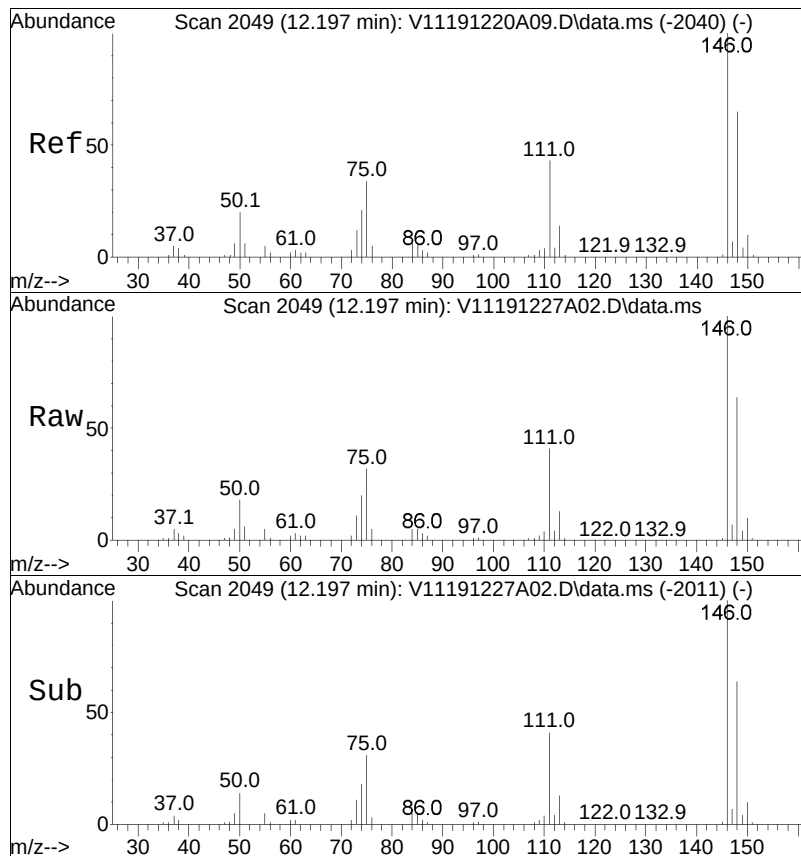




#103  
 n-Butylbenzene  
 Concen: 45.24 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

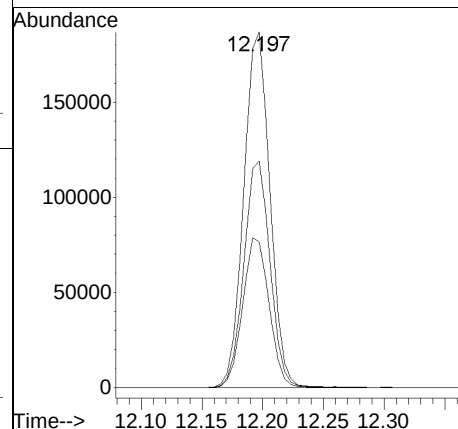
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 584951 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.5  | 43.3  | 64.9   |
| 134       | 24.8  | 21.4  | 32.0   |

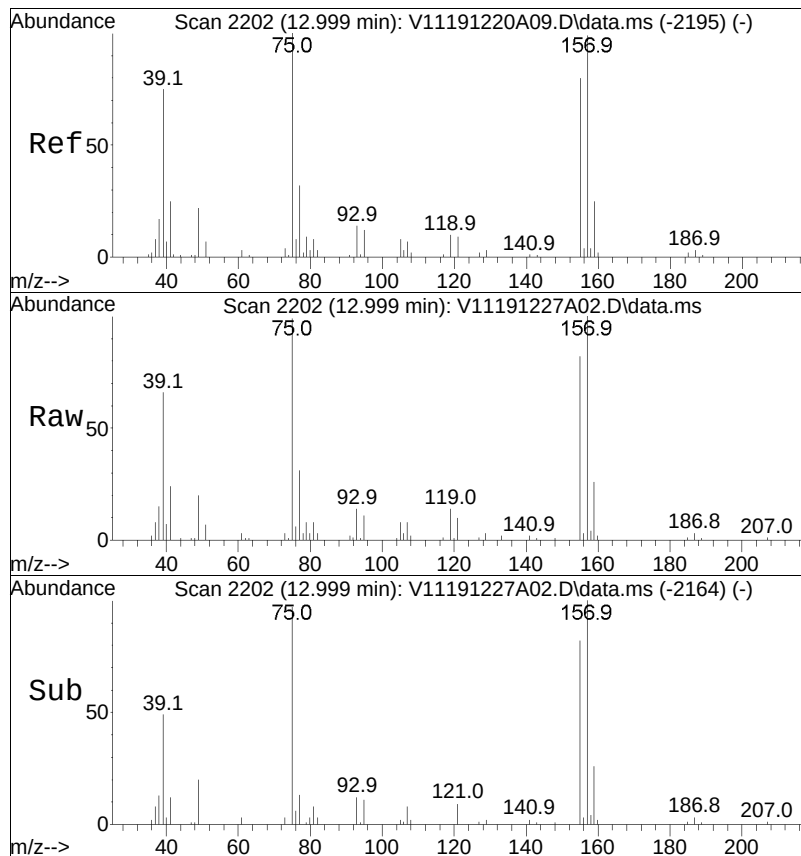




#104  
 1,2-Dichlorobenzene  
 Concen: 40.88 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

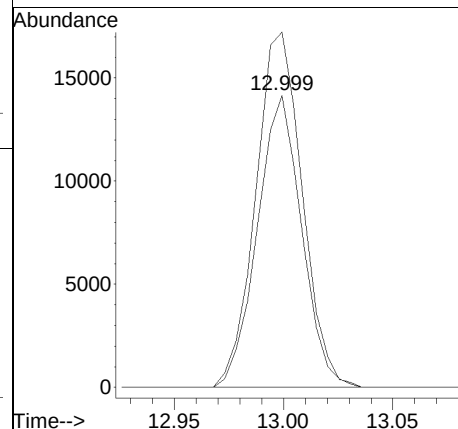
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.5  | 26.9  | 55.9  |
| 148     | 63.7  | 41.2  | 85.6  |

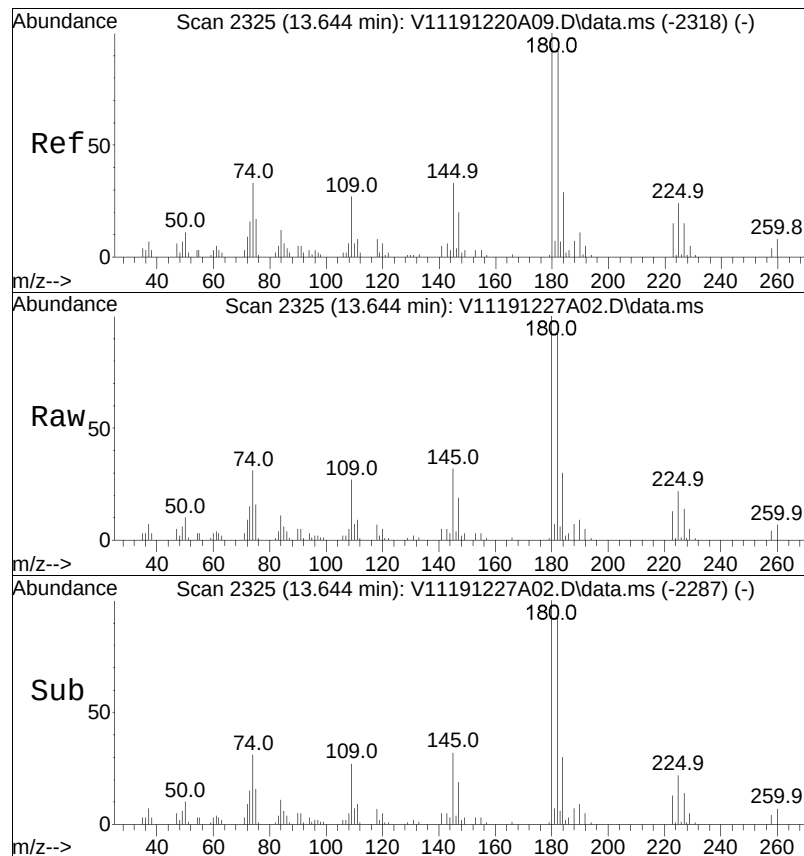




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 40.64 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

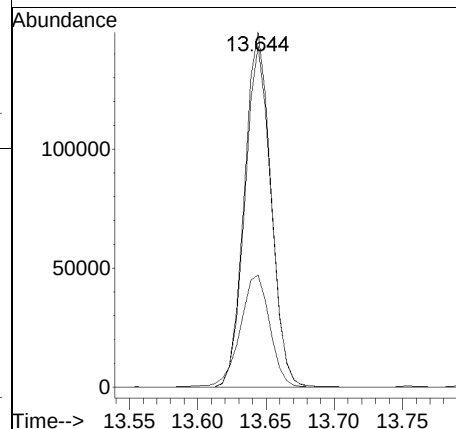
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 155 | 100   |       |       |       |
| 157 | 127.8 | 100.0 | 150.0 |       |



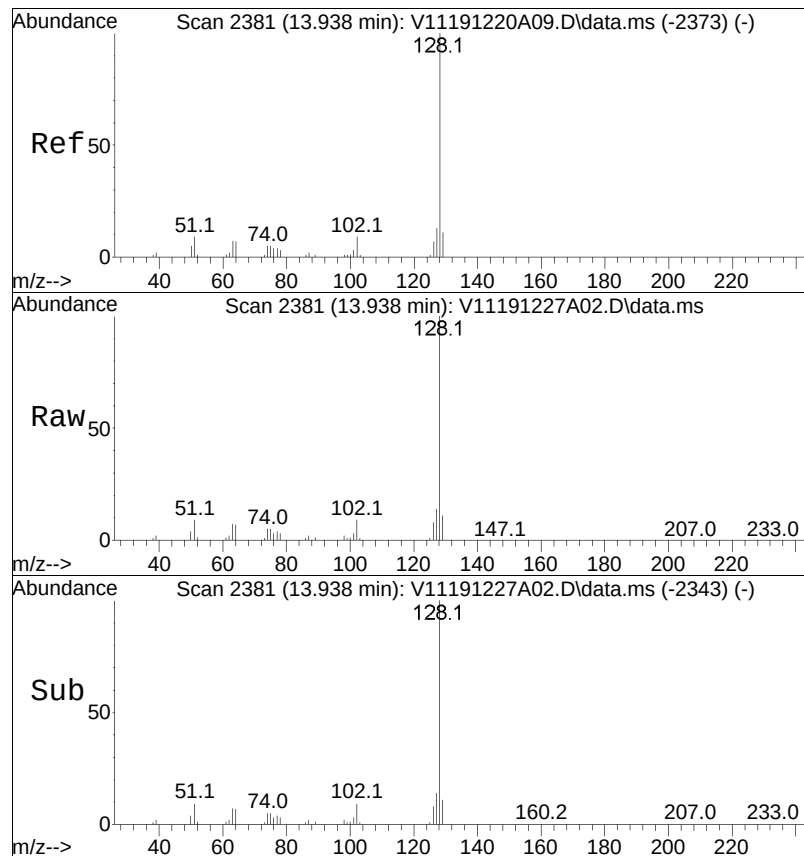


#109  
 1,2,4-Trichlorobenzene  
 Concen: 46.27 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

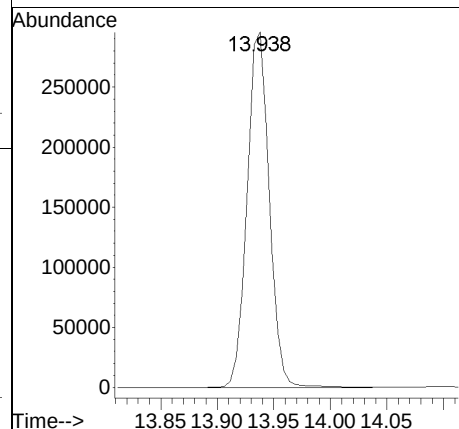
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 75.8  | 113.6 |
| 145     | 35.5  | 29.6  | 44.4  |







#110  
Naphthalene  
Concen: 47.00 ug/L  
RT: 13.938 min Scan# 2381  
Delta R.T. -0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am  
Tgt Ion:128 Resp: 403998



# Manual Integration Report

|            |                               |            |                       |
|------------|-------------------------------|------------|-----------------------|
| Data Path  | : I:\VOLATILES\VOA111\2019\10 | Method     | : V111_191220A_8260.m |
| Data File  | : V11191227A02.D              | Operator   | : VOA111:MV           |
| Date Inj'd | : 12/27/2019 5:44 am          | Instrument | : VOA111              |
| Sample     | : WG1325768-4,31,5,5          | Quant Date | : 12/27/2019 8:31 am  |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A02.D  
 Acq On : 27 Dec 2019 05:44 am  
 Operator : VOA111:MV  
 Sample : WG1325770-4,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 279369   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =      | 102.37% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 233521   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =      | 105.42% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 111290   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =      | 92.47%  |          |
|                              |                |      |          |        |         |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 73985    | 19.895 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 99.48%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 75400    | 18.975 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 94.88%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 311652   | 19.138 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 95.69%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 126970   | 22.119 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 110.60% |          |
|                              |                |      |          |        |         |          |
| Target Compounds             |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 121114   | 37.334 | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 158463   | 35.233 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 164173   | 39.942 | ug/L    | 97       |
| 5) Bromomethane              | 1.962          | 94   | 102401   | 45.414 | ug/L    | 100      |
| 6) Chloroethane              | 2.062          | 64   | 103830   | 43.086 | ug/L    | 98       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 186586   | 38.244 | ug/L    | 100      |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 112106   | 39.399 | ug/L    | 92       |
| 11) Carbon disulfide         | 2.634          | 76   | 396963   | 33.962 | ug/L    | 100      |
| 12) Freon-113                | 2.644          | 101  | 121965   | 40.874 | ug/L    | 95       |
| 15) Methylene chloride       | 3.100          | 84   | 144282   | 36.119 | ug/L    | 75       |
| 17) Acetone                  | 3.137          | 43   | 30706    | 33.881 | ug/L    | 93       |
| 18) trans-1,2-Dichloroethene | 3.242          | 96   | 136181   | 41.279 | ug/L    | 92       |
| 19) Methyl acetate           | 3.247          | 43   | 89042    | 36.804 | ug/L #  | 88       |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 371440   | 40.690 | ug/L    | 88       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 277889   | 39.909 | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.259          | 96   | 152707   | 42.021 | ug/L    | 90       |
| 31) Cyclohexane              | 4.442          | 56   | 255266   | 45.021 | ug/L    | 80       |
| 32) Chloroform               | 4.511          | 83   | 258905   | 40.135 | ug/L    | 96       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 187998   | 42.706 | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.699          | 97   | 215873   | 41.521 | ug/L    | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A02.D  
 Acq On : 27 Dec 2019 05:44 am  
 Operator : VOA111:MV  
 Sample : WG1325770-4,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|--------|-------|----------|-----|
| 39)  | 2-Butanone                | 4.789  | 43   | 54762    | 39.331 | ug/L  | #        | 75  |
| 41)  | Benzene                   | 5.051  | 78   | 577381   | 40.355 | ug/L  |          | 91  |
| 44)  | 1,2-Dichloroethane        | 5.245  | 62   | 189894   | 38.727 | ug/L  |          | 98  |
| 47)  | Methyl cyclohexane        | 5.617  | 83   | 243825   | 45.750 | ug/L  | #        | 78  |
| 48)  | Trichloroethene           | 5.627  | 95   | 147961   | 42.719 | ug/L  |          | 94  |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 166436   | 42.178 | ug/L  |          | 98  |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 209559   | 41.430 | ug/L  |          | 99  |
| 58)  | cis-1,3-Dichloropropene   | 6.901  | 75   | 258482   | 45.086 | ug/L  | #        | 88  |
| 61)  | Toluene                   | 7.158  | 92   | 368429   | 38.970 | ug/L  |          | 98  |
| 62)  | 4-Methyl-2-pentanone      | 7.594  | 58   | 46350    | 38.500 | ug/L  | #        | 84  |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 145691   | 41.201 | ug/L  |          | 99  |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 223250   | 39.524 | ug/L  | #        | 82  |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 104514   | 36.948 | ug/L  |          | 98  |
| 69)  | Chlorodibromomethane      | 8.024  | 129  | 140587   | 38.458 | ug/L  |          | 98  |
| 71)  | 1,2-Dibromoethane         | 8.286  | 107  | 113581   | 38.083 | ug/L  |          | 98  |
| 72)  | 2-Hexanone                | 8.595  | 43   | 81150    | 38.142 | ug/L  |          | 93  |
| 73)  | Chlorobenzene             | 8.936  | 112  | 397883   | 38.797 | ug/L  |          | 95  |
| 74)  | Ethylbenzene              | 8.983  | 91   | 702654   | 41.326 | ug/L  |          | 98  |
| 76)  | p/m Xylene                | 9.172  | 106  | 528225   | 86.691 | ug/L  |          | 94  |
| 77)  | o Xylene                  | 9.712  | 106  | 510942   | 86.820 | ug/L  |          | 95  |
| 78)  | Styrene                   | 9.780  | 104  | 861457   | 87.445 | ug/L  |          | 97  |
| 80)  | Bromoform                 | 9.796  | 173  | 85186    | 41.212 | ug/L  |          | 99  |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 658176   | 46.294 | ug/L  |          | 98  |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 783859   | 42.569 | ug/L  |          | 97  |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 145976   | 36.961 | ug/L  |          | 98  |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 547195   | 44.433 | ug/L  |          | 97  |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 447255   | 45.221 | ug/L  |          | 96  |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 549484   | 45.471 | ug/L  |          | 98  |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 696793   | 45.198 | ug/L  |          | 98  |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 557768   | 45.170 | ug/L  |          | 99  |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 308575   | 41.250 | ug/L  |          | 99  |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 292931   | 38.419 | ug/L  |          | 99  |
| 103) | n-Butylbenzene            | 12.061 | 91   | 584951   | 45.239 | ug/L  |          | 98  |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 279891   | 40.883 | ug/L  |          | 99  |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 19957    | 40.643 | ug/L  |          | 98  |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 202566   | 46.268 | ug/L  |          | 99  |
| 110) | Naphthalene               | 13.938 | 128  | 403998   | 46.998 | ug/L  |          | 100 |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A02.D  
 Acq On : 27 Dec 2019 05:44 am  
 Operator : VOA111:MV  
 Sample : WG1325770-4,31h,15,15,0.1  
 Misc : WG1325770,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 08:31:23 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

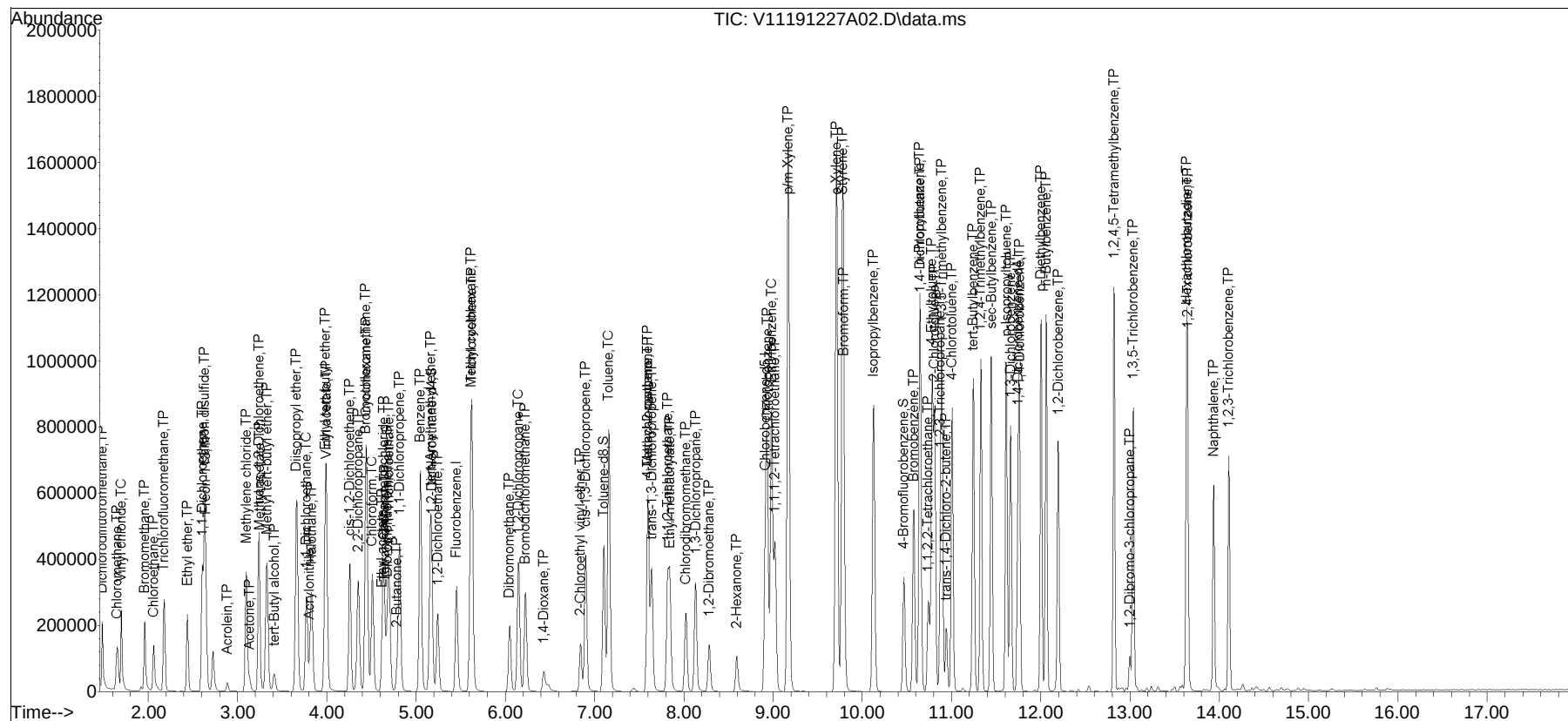
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

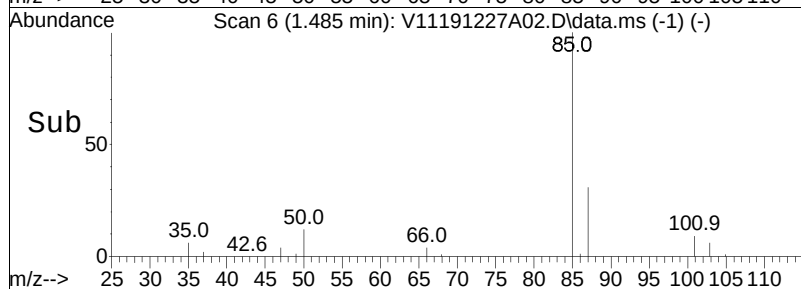
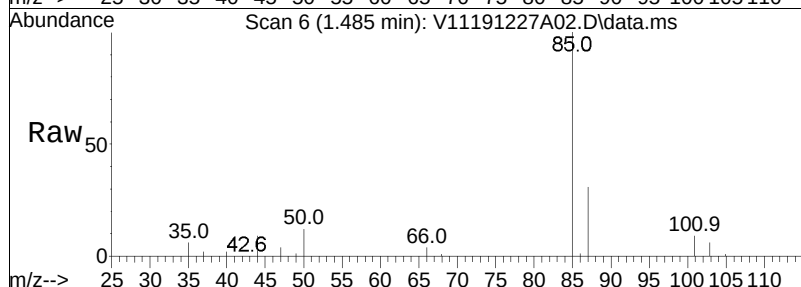
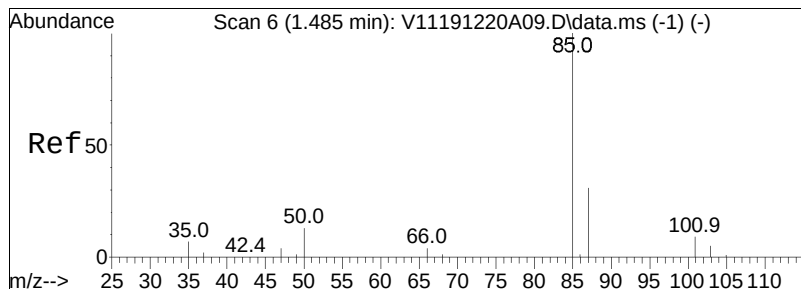
Quantitation Report (QT Reviewed)

```
Data Path : I:\VOLATILES\VOA111\2019\191227A\
Data File : V1191227A02.D
Acq On    : 27 Dec 2019  05:44 am
Operator  : VOA111:MV
Sample    : WG1325770-4, 31h, 15, 15, 0.1
Misc      : WG1325770, ICAL16383
ALS Vial  : 2      Sample Multiplier: 1
```

Quant Time: Dec 27 08:31:23 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:19:02 2019  
Response via : Initial Calibration

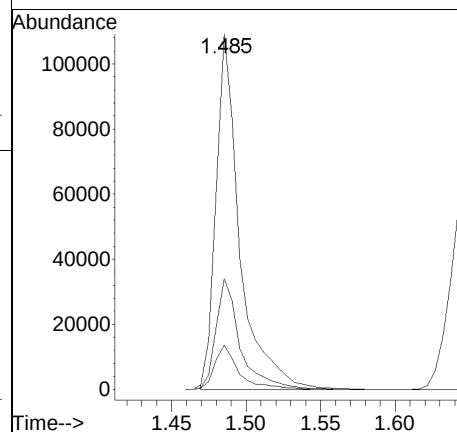
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

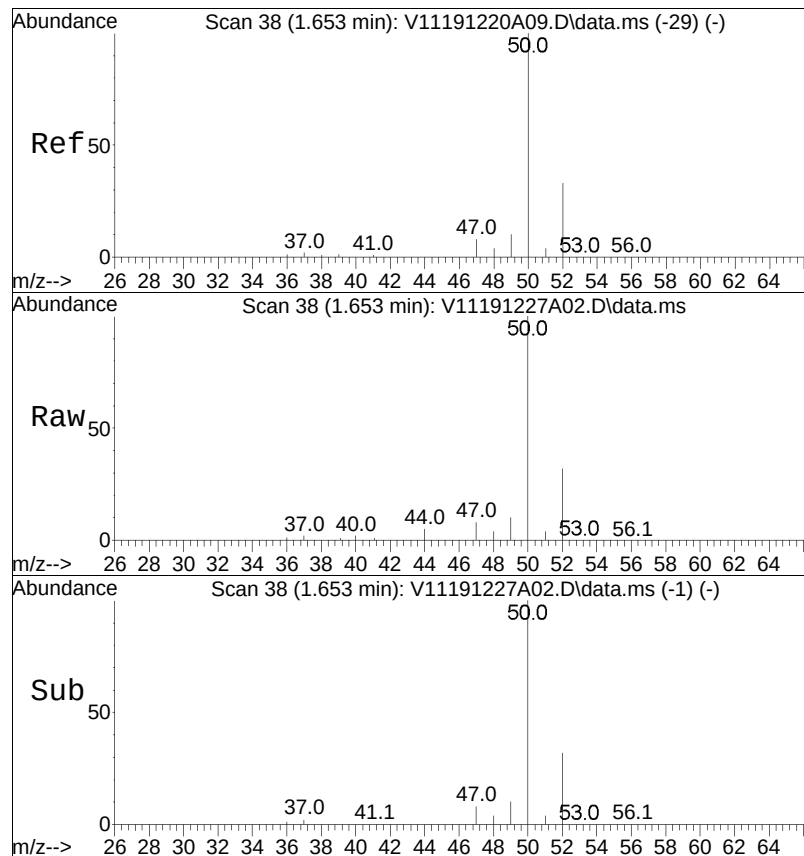




#2  
 Dichlorodifluoromethane  
 Concen: 37.33 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

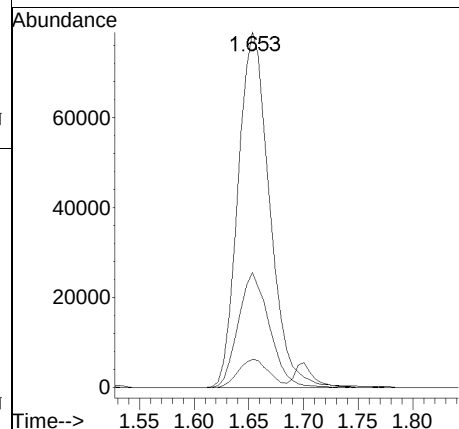
| Tgt Ion | 85  | 87   | 50   | Ratio | 100 | 31.7 | 12.6 | Resp: | 121114 | Lower | Upper |
|---------|-----|------|------|-------|-----|------|------|-------|--------|-------|-------|
| 85      | 100 |      |      |       |     |      |      |       |        |       |       |
| 87      |     | 31.7 |      |       |     | 20.7 |      |       |        |       | 43.1  |
| 50      |     |      | 12.6 |       |     | 9.8  |      |       |        |       | 20.3  |



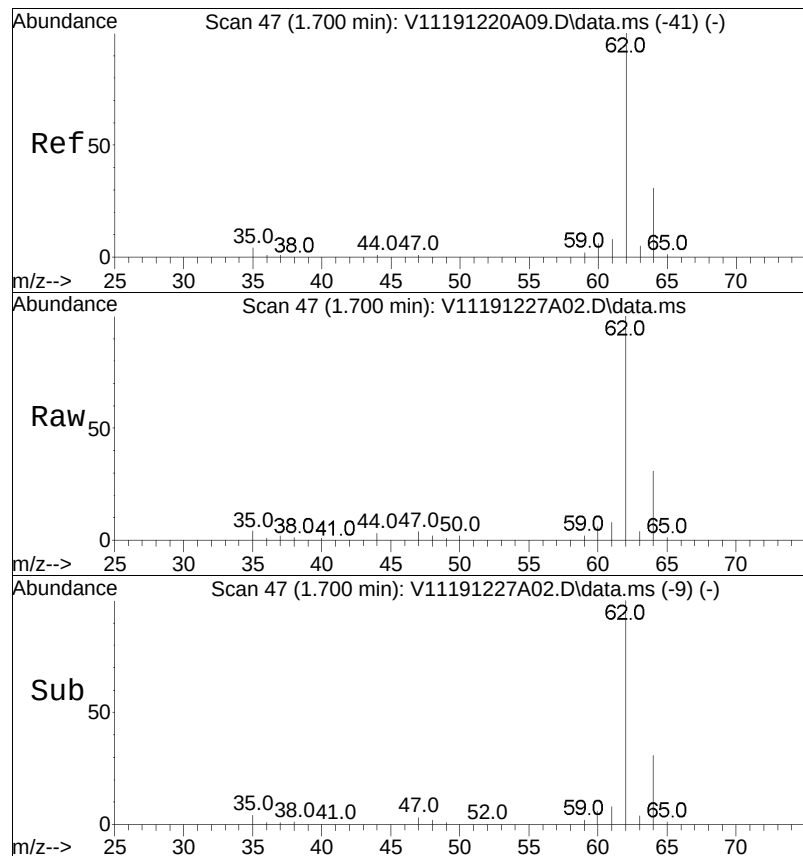


#3  
 Chloromethane  
 Concen: 35.23 ug/L  
 RT: 1.653 min Scan# 38  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 50 | Resp: | 158463 |
| Ion | Ratio   | Lower | Upper  |
| 50  | 100     |       |        |
| 52  | 31.9    | 10.9  | 50.9   |
| 47  | 7.7     | 0.0   | 27.2   |

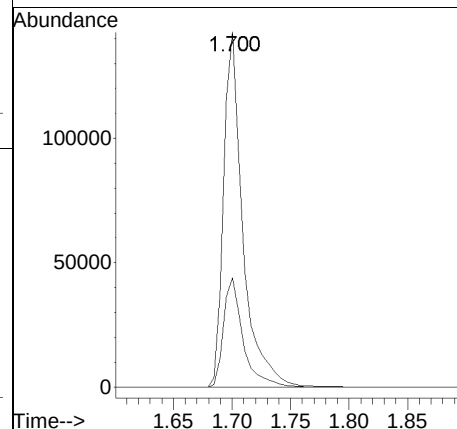


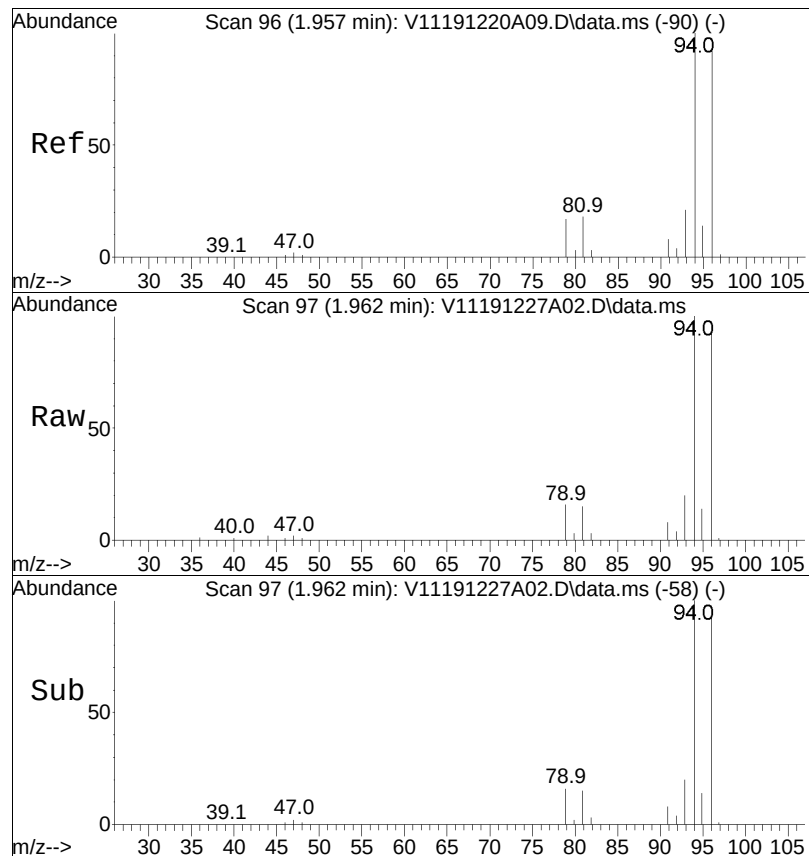




#4  
 Vinyl chloride  
 Concen: 39.94 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

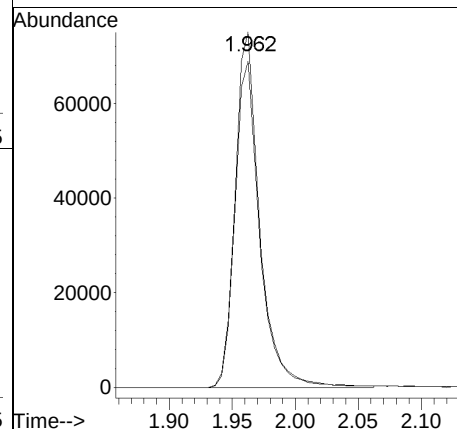
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.4  | 9.9   | 49.9  |

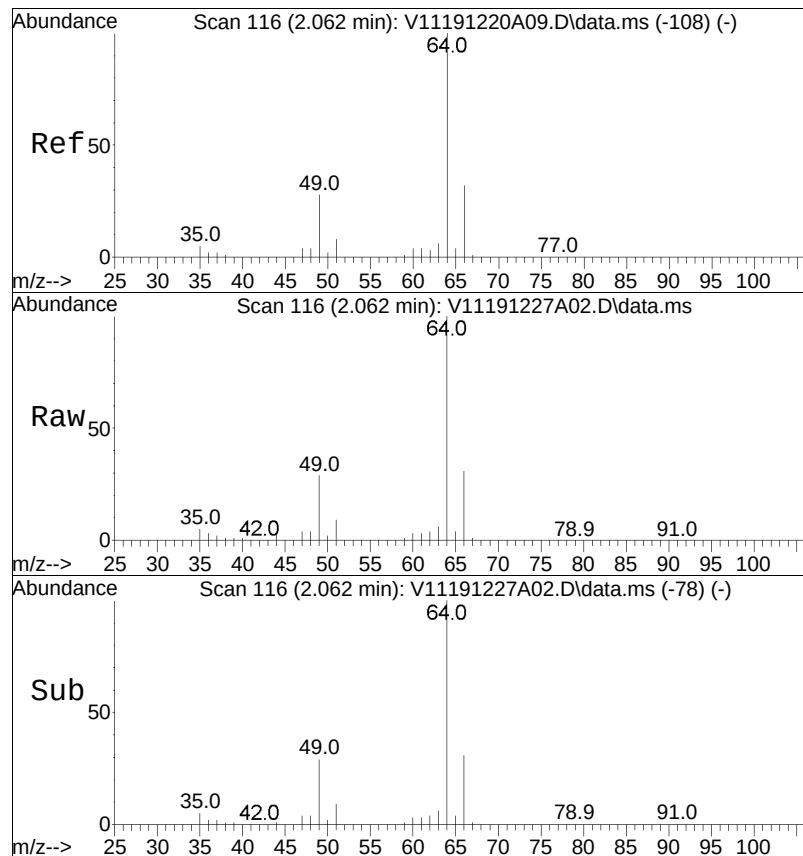




#5  
 Bromomethane  
 Concen: 45.41 ug/L  
 RT: 1.962 min Scan# 97  
 Delta R.T. 0.005 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

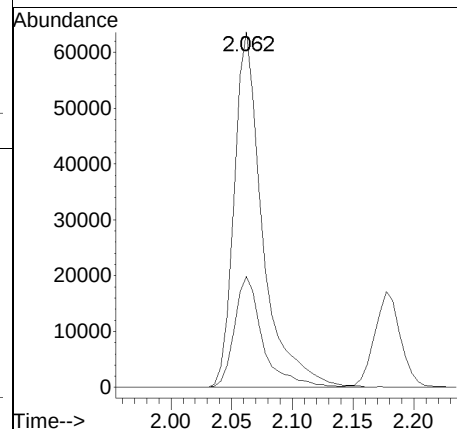
| Tgt Ion   | 94     | 96   | Ratio | 100 | Lower | Upper |
|-----------|--------|------|-------|-----|-------|-------|
| Resp:     | 102401 |      |       |     |       |       |
| Ion Ratio | 100    | 92.5 |       |     | 72.6  | 112.6 |

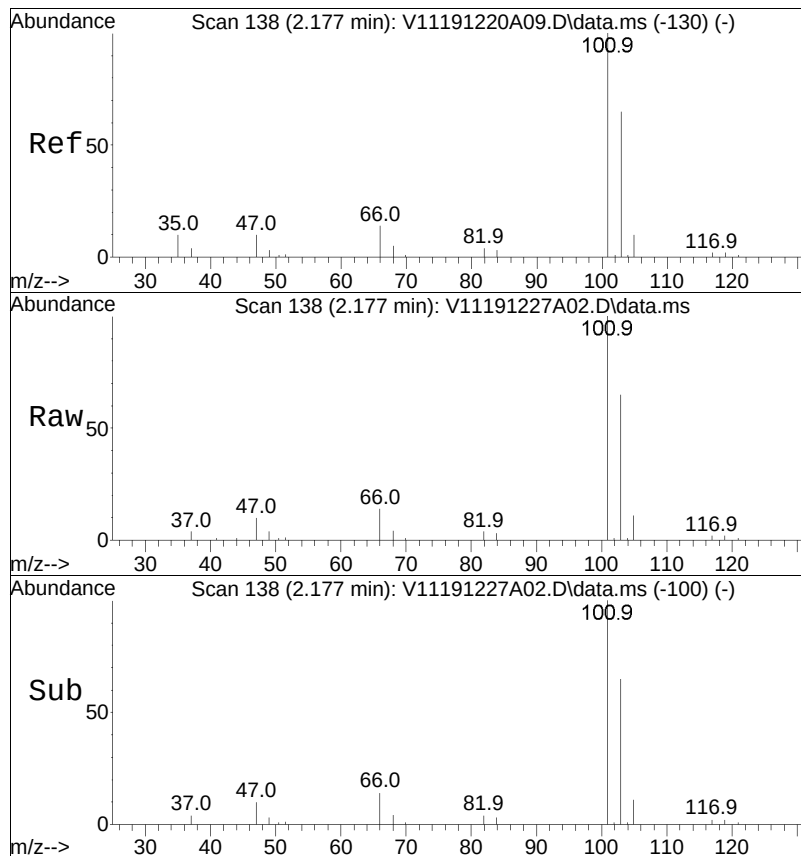




#6  
 Chloroethane  
 Concen: 43.09 ug/L  
 RT: 2.062 min Scan# 116  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

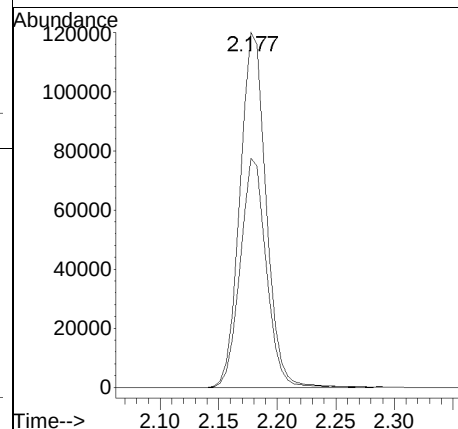
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 31.1  | 10.2  | 50.2  |

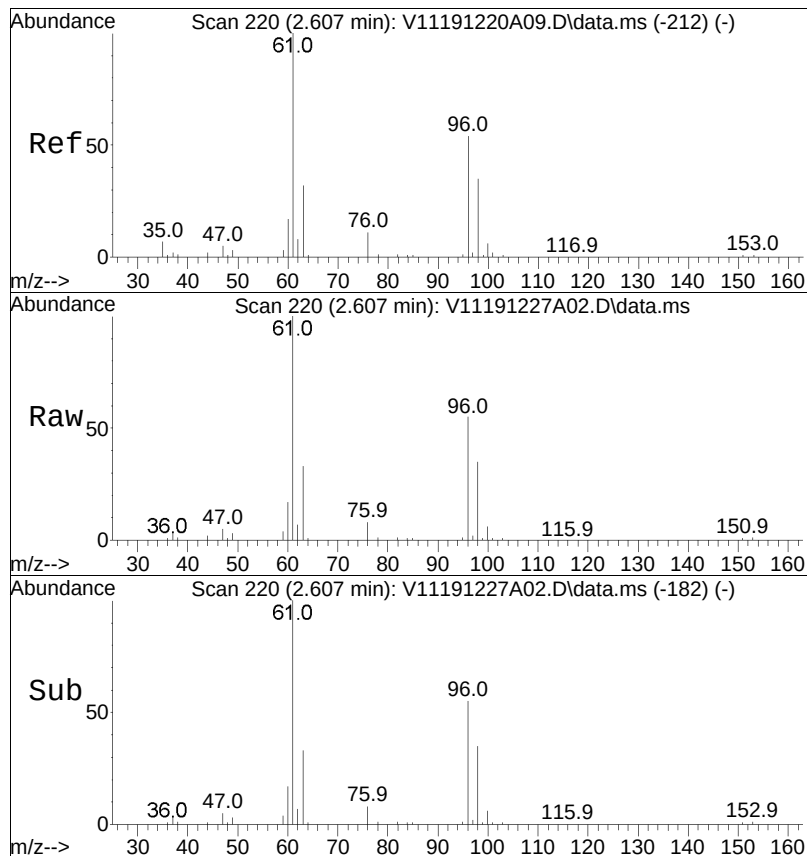




#7  
 Trichlorofluoromethane  
 Concen: 38.24 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

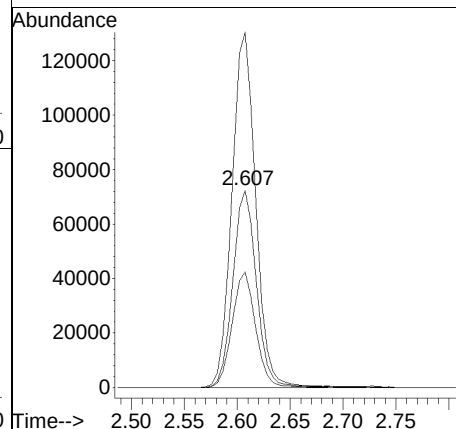
| Tgt Ion | 101  | 103 | Ratio | Lower | Upper |
|---------|------|-----|-------|-------|-------|
| 101     | 100  |     |       |       |       |
| 103     | 64.4 |     | 51.8  | 77.6  |       |

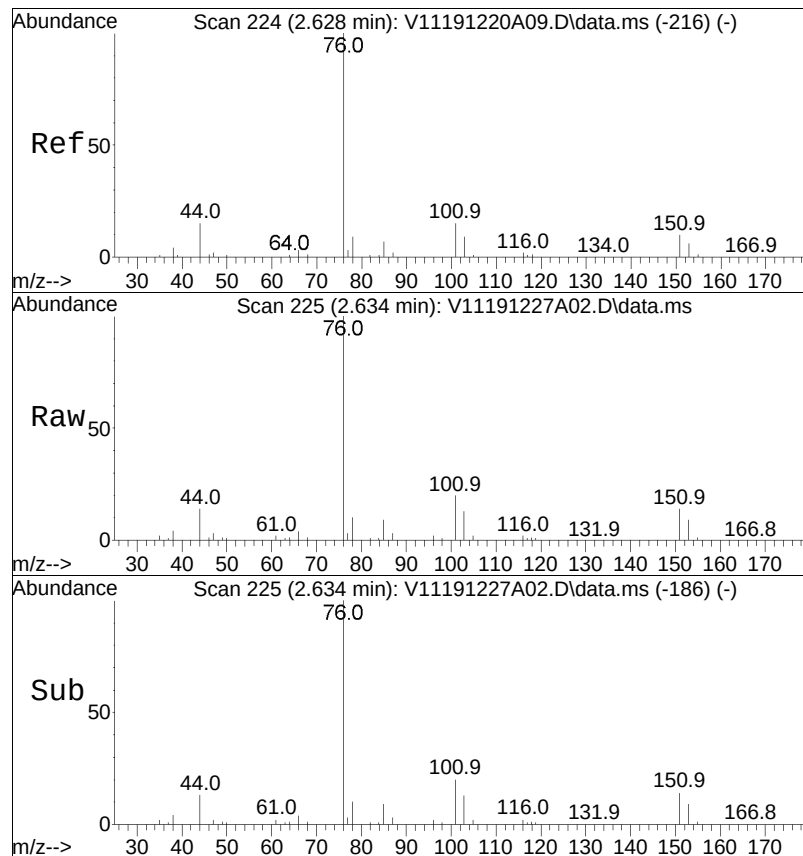




#10  
 1,1-Dichloroethene  
 Concen: 39.40 ug/L  
 RT: 2.607 min Scan# 220  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

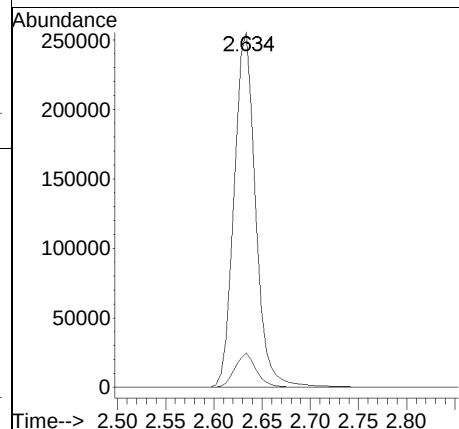
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 181.6 | 157.7 | 236.5 |
| 63      | 58.4  | 47.9  | 71.9  |

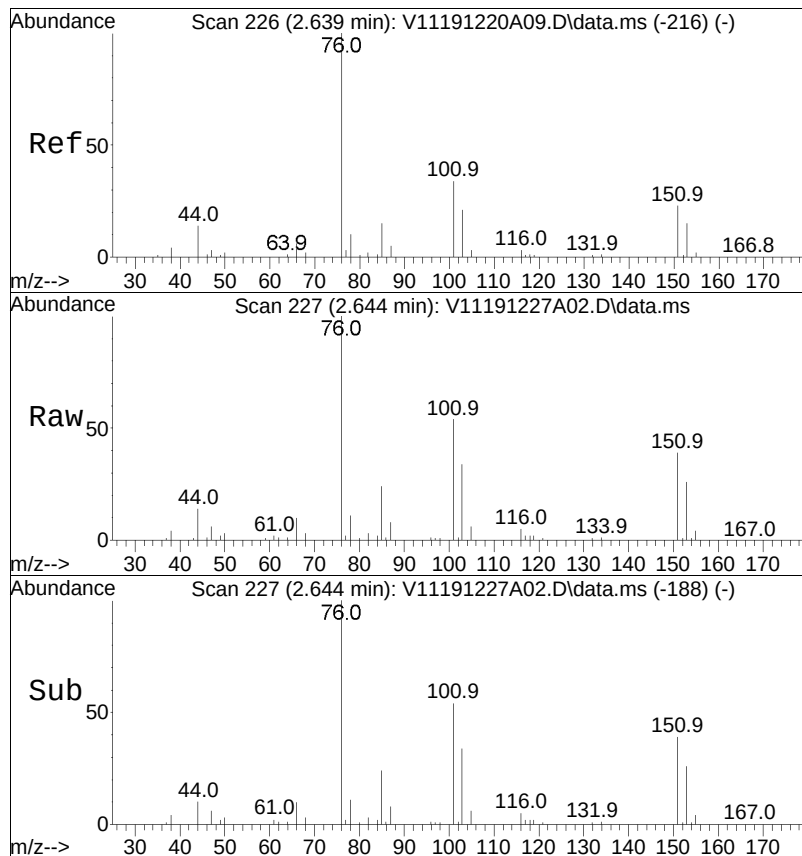




#11  
 Carbon disulfide  
 Concen: 33.96 ug/L  
 RT: 2.634 min Scan# 225  
 Delta R.T. 0.006 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

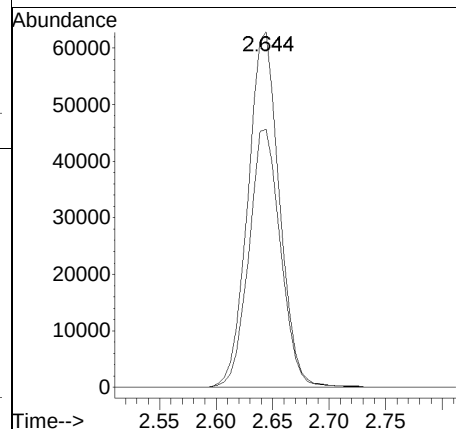
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.7   | 6.4   | 13.4  |

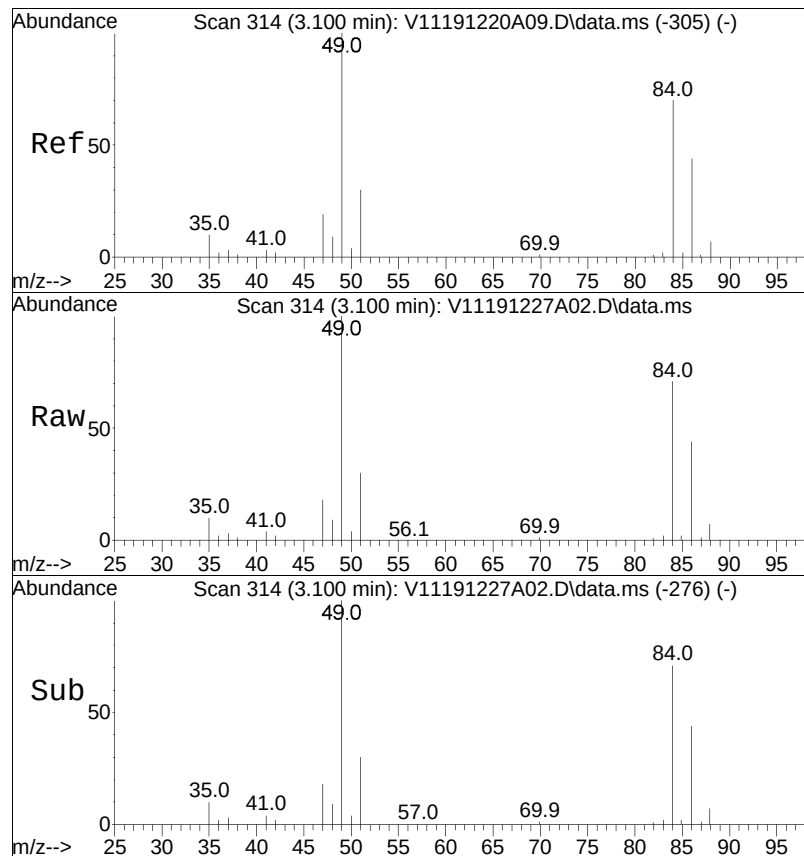




#12  
 Freon-113  
 Concen: 40.87 ug/L  
 RT: 2.644 min Scan# 227  
 Delta R.T. 0.005 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

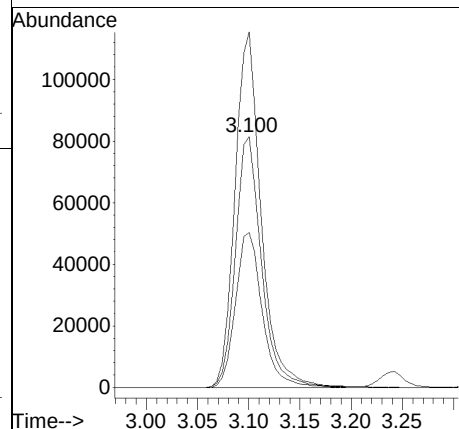
| Tgt Ion | 101    | 151  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 121965 |      |       |       |       |
| Ion     | 100    | 73.2 |       | 62.2  | 93.4  |



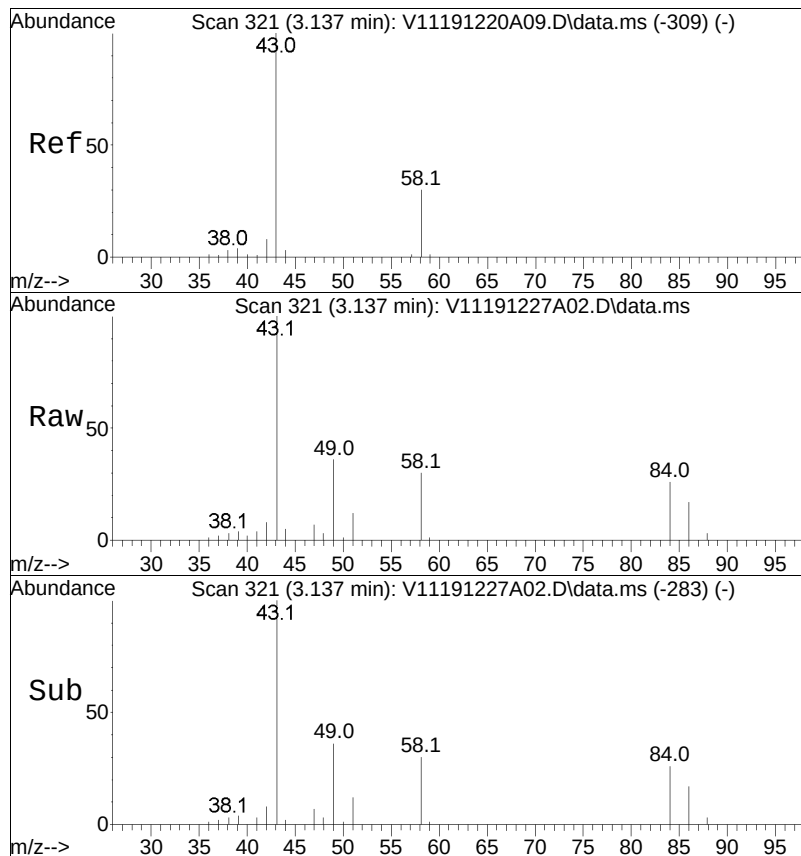


#15  
 Methylene chloride  
 Concen: 36.12 ug/L  
 RT: 3.100 min Scan# 314  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion:  | 84    | Resp: | 144282 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 63.2  | 41.1  | 85.3   |
| 49        | 141.9 | 124.2 | 258.0  |

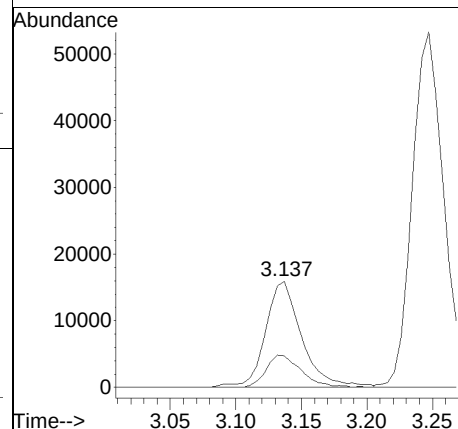


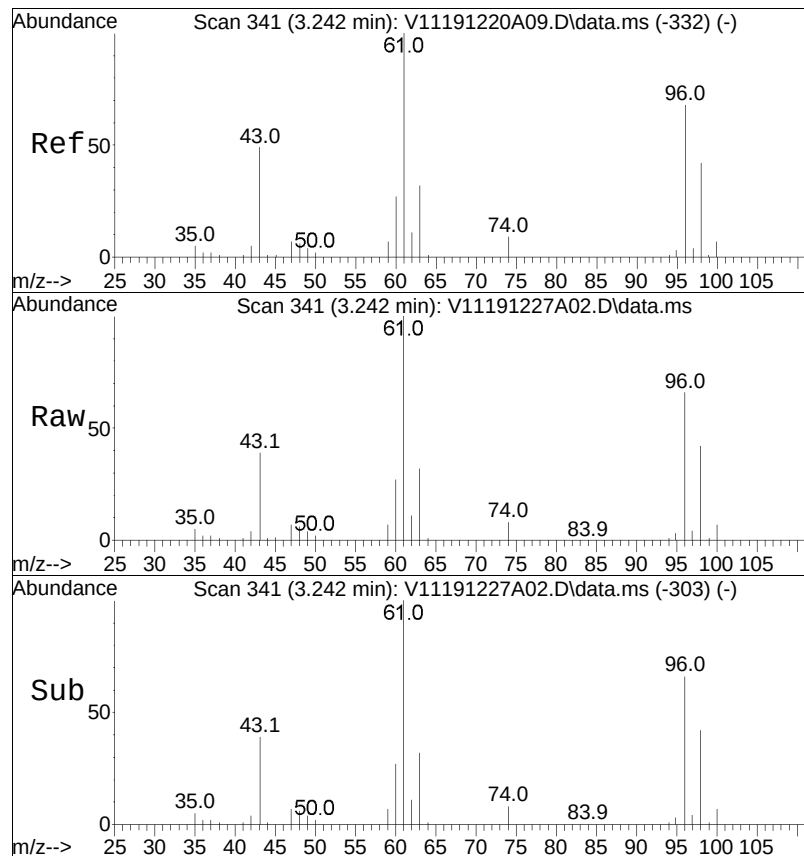




#17  
 Acetone  
 Concen: 33.88 ug/L  
 RT: 3.137 min Scan# 321  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

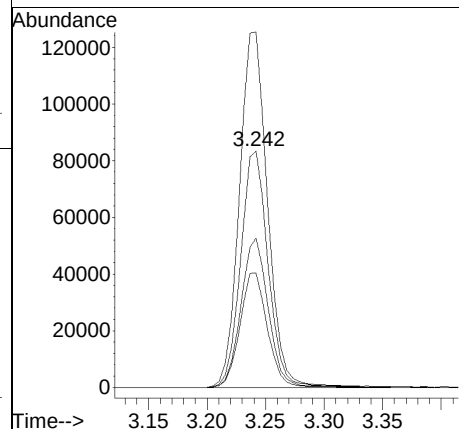
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 29.7  | 20.8  | 31.2  |

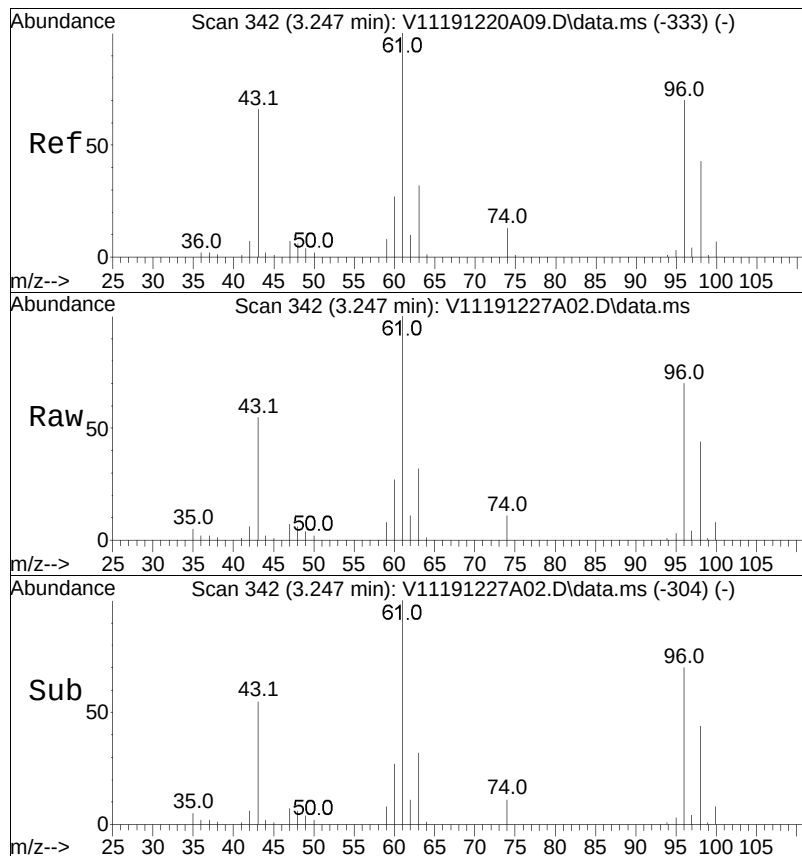




#18  
 trans-1,2-Dichloroethene  
 Concen: 41.28 ug/L  
 RT: 3.242 min Scan# 341  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

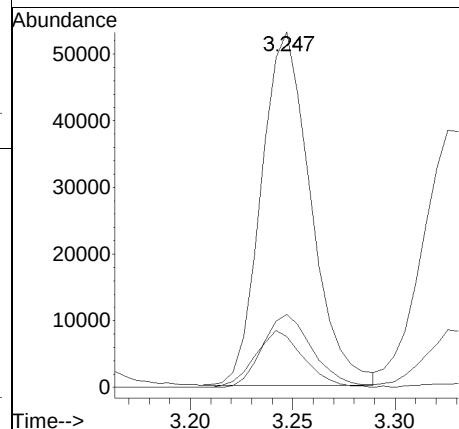
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 136181 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 154.1 | 111.1 | 230.8  |
| 98        | 62.8  | 41.8  | 86.8   |
| 63        | 48.5  | 33.3  | 69.1   |

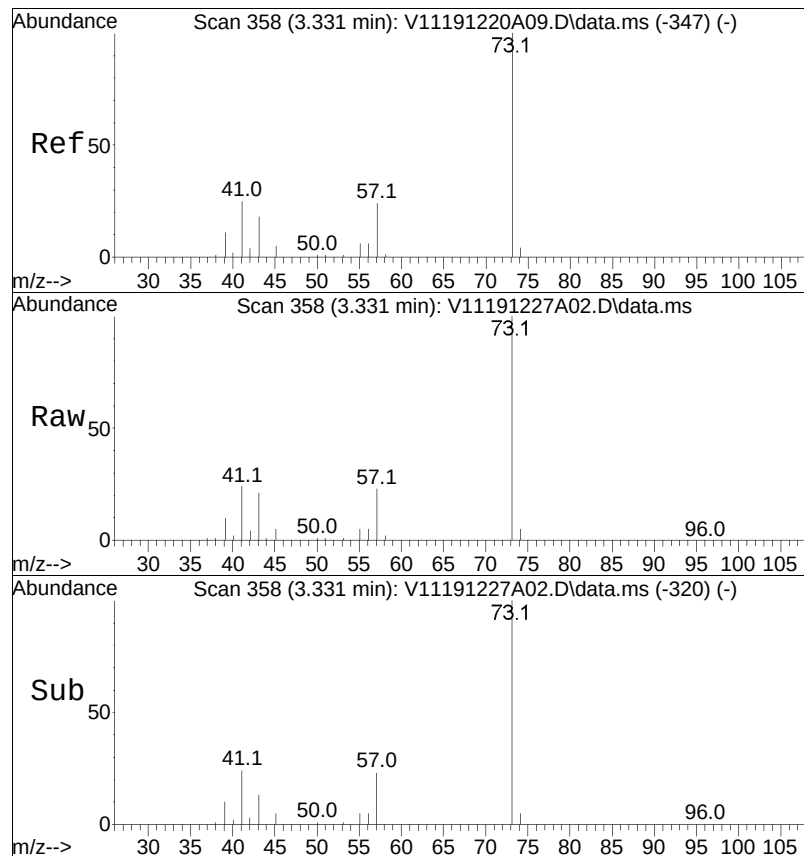




#19  
Methyl acetate  
Concen: 36.80 ug/L  
RT: 3.247 min Scan# 342  
Delta R.T. 0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

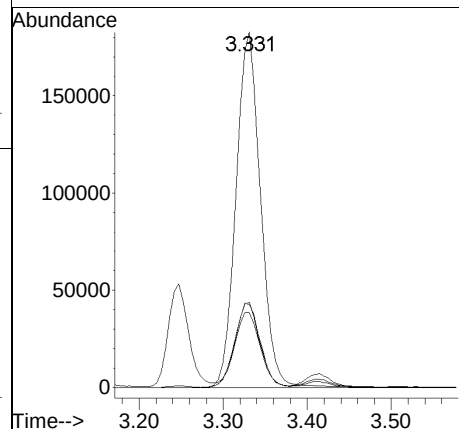
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 20.9  | 11.3  | 16.9# |
| 59      | 15.8  | 10.4  | 15.6# |

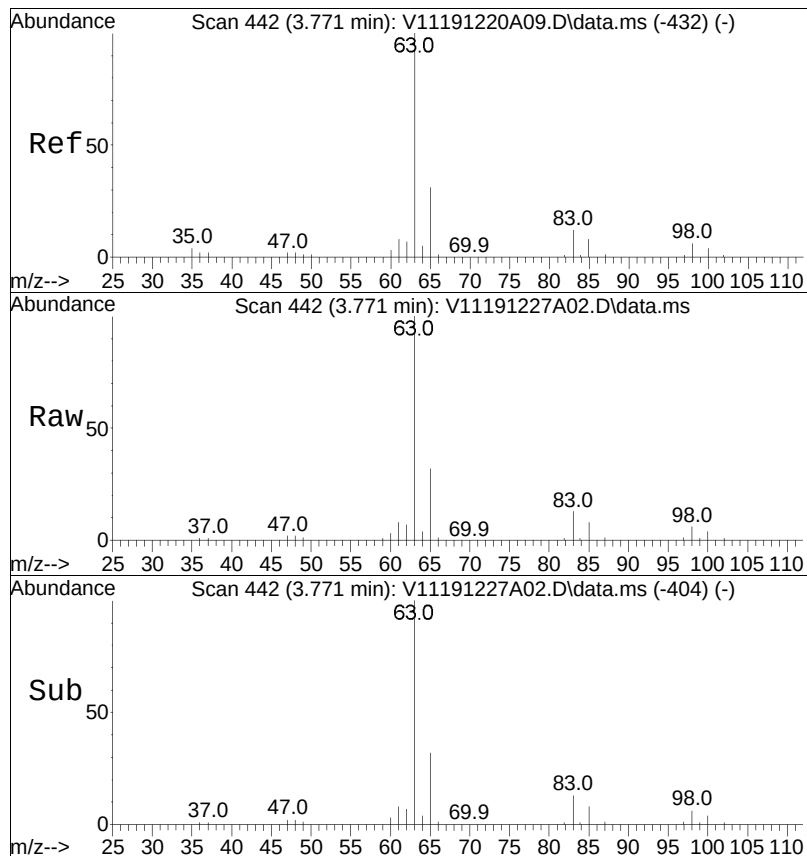




#20  
Methyl tert-butyl ether  
Concen: 40.69 ug/L  
RT: 3.331 min Scan# 358  
Delta R.T. -0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

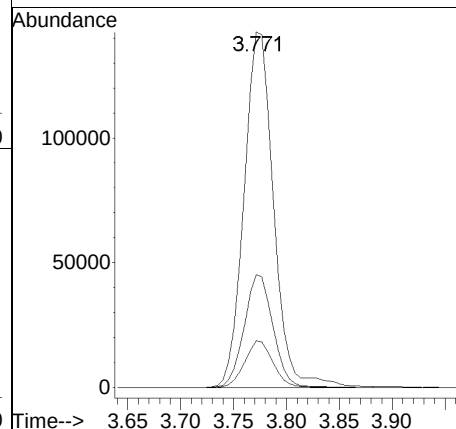
|             |              |
|-------------|--------------|
| Tgt Ion: 73 | Resp: 371440 |
| Ion Ratio   | Lower Upper  |
| 73 100      |              |
| 57 24.4     | 19.6 40.6    |
| 43 21.8     | 18.5 38.3    |
| 41 24.4     | 20.3 42.1    |

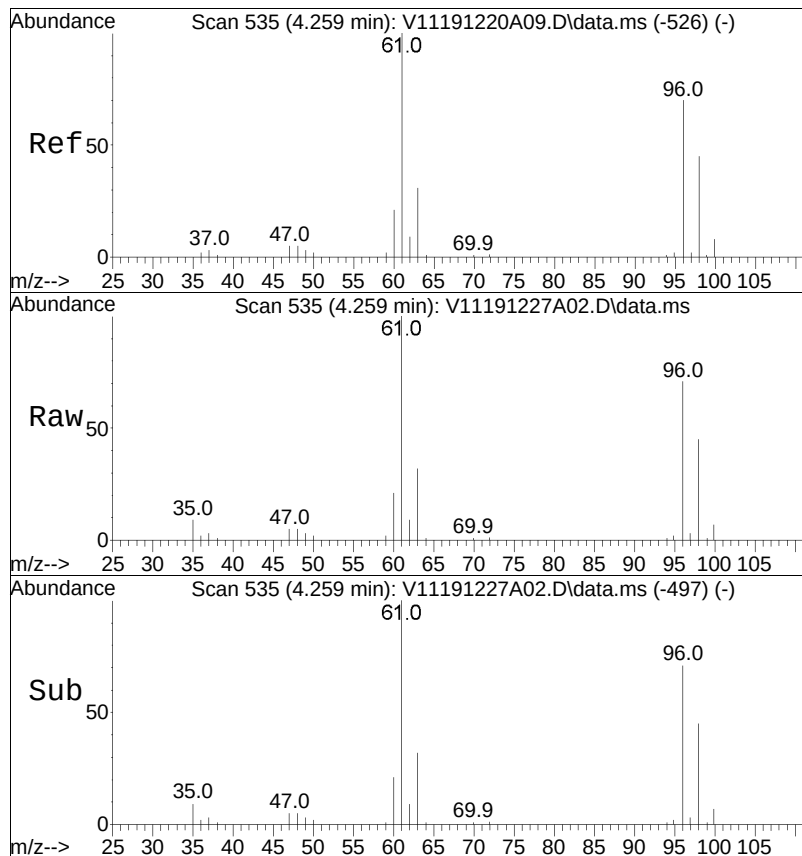




#23  
 1,1-Dichloroethane  
 Concen: 39.91 ug/L  
 RT: 3.771 min Scan# 442  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

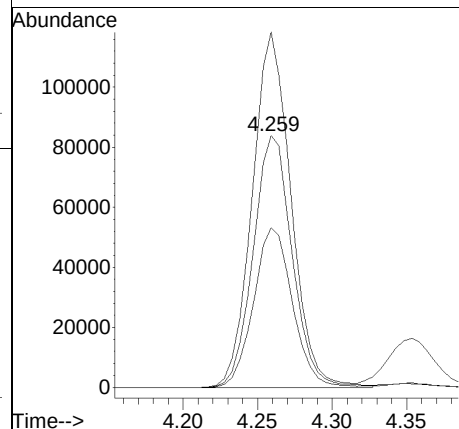
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 30.8  | 9.0   | 49.0  |
| 83      | 12.5  | 0.0   | 31.4  |

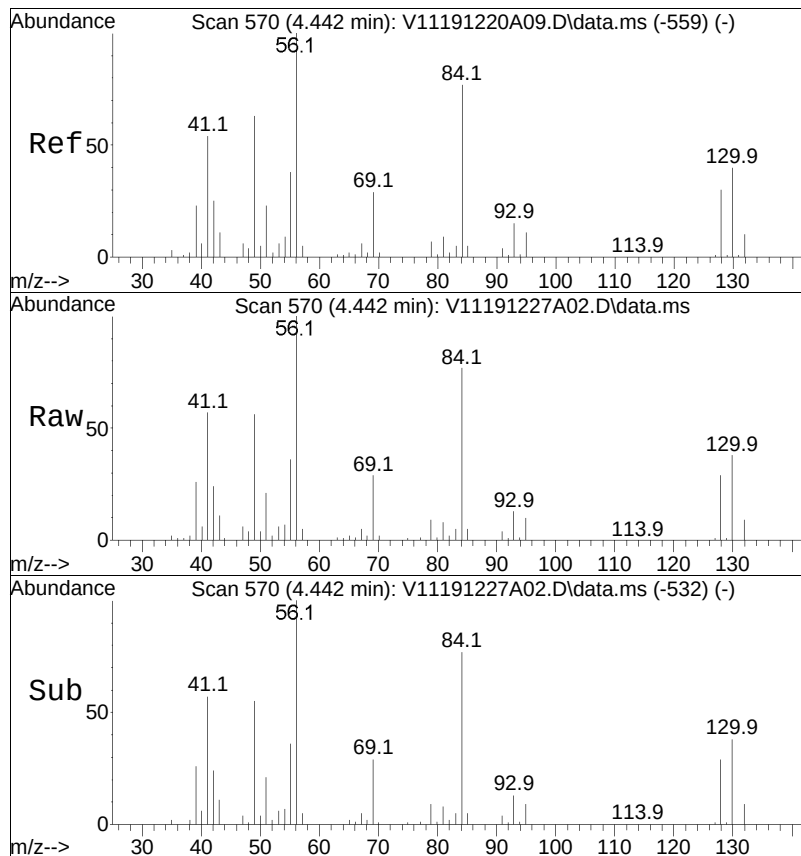




#28  
 cis-1,2-Dichloroethene  
 Concen: 42.02 ug/L  
 RT: 4.259 min Scan# 535  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

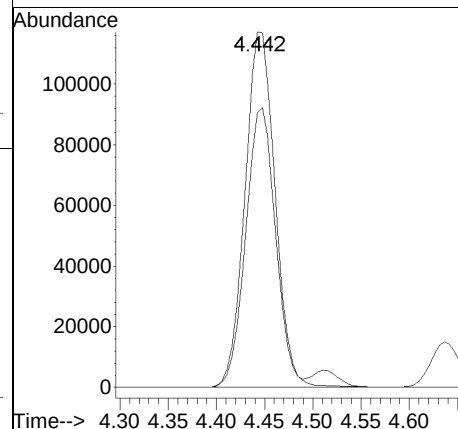
|             |              |
|-------------|--------------|
| Tgt Ion: 96 | Resp: 152707 |
| Ion Ratio   | Lower Upper  |
| 96 100      |              |
| 61 139.6    | 126.3 189.5  |
| 98 63.1     | 51.0 76.6    |

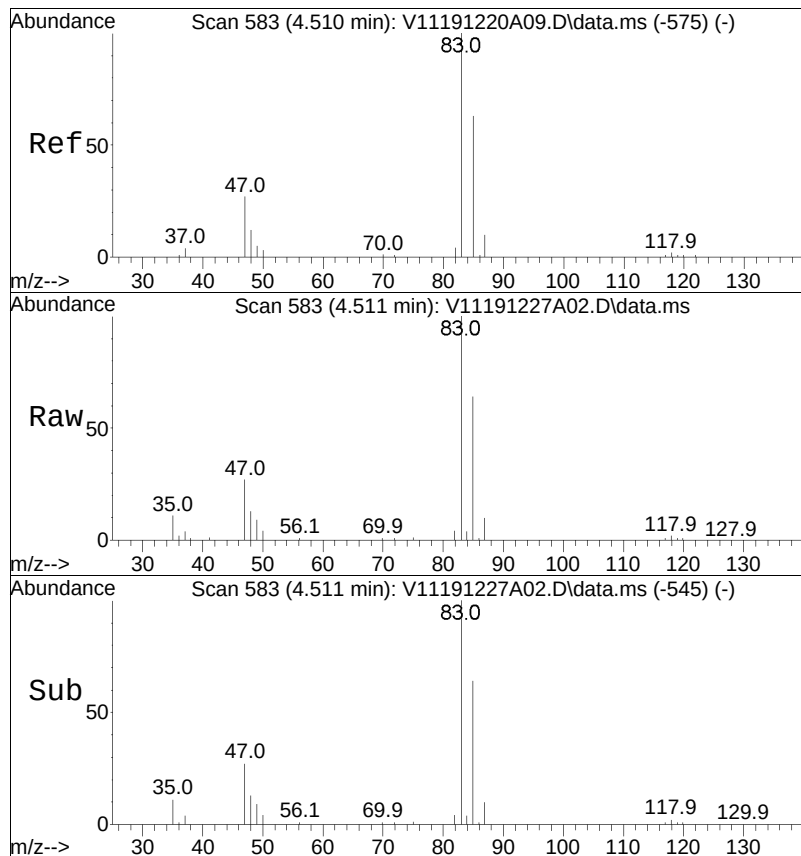




#31  
Cyclohexane  
Concen: 45.02 ug/L  
RT: 4.442 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

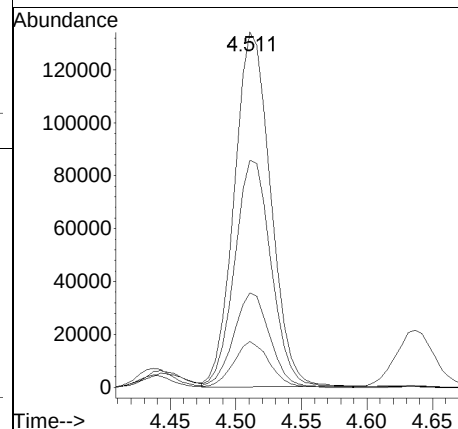
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 56  | 100  | 255266 |       |       |
| 84  | 78.1 | 40.5   | 84.1  |       |



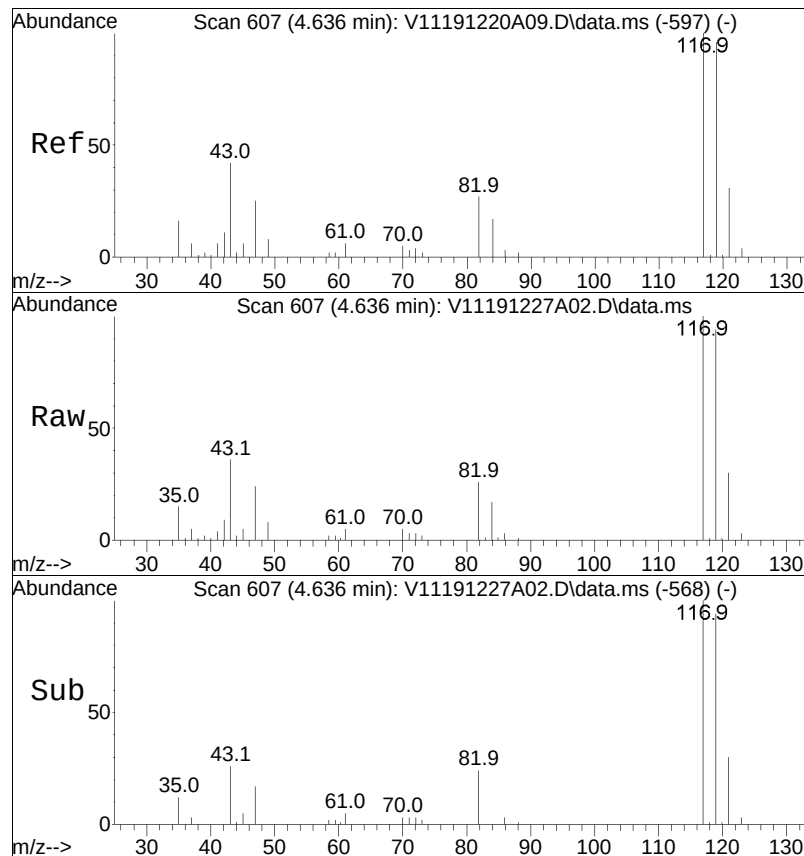


#32  
 Chloroform  
 Concen: 40.14 ug/L  
 RT: 4.511 min Scan# 583  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 258905 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.5  | 41.9  | 87.1   |
| 47        | 26.0  | 20.9  | 43.3   |
| 48        | 12.8  | 9.9   | 20.5   |







#34

Carbon tetrachloride

Concen: 42.71 ug/L

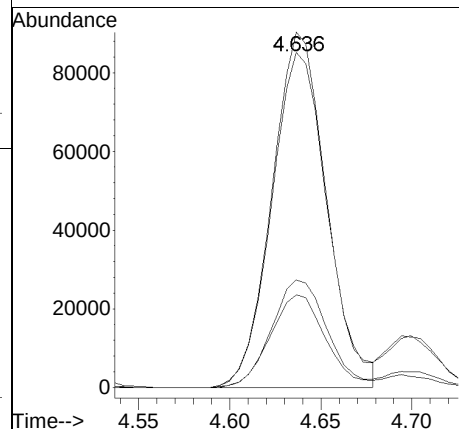
RT: 4.636 min Scan# 607

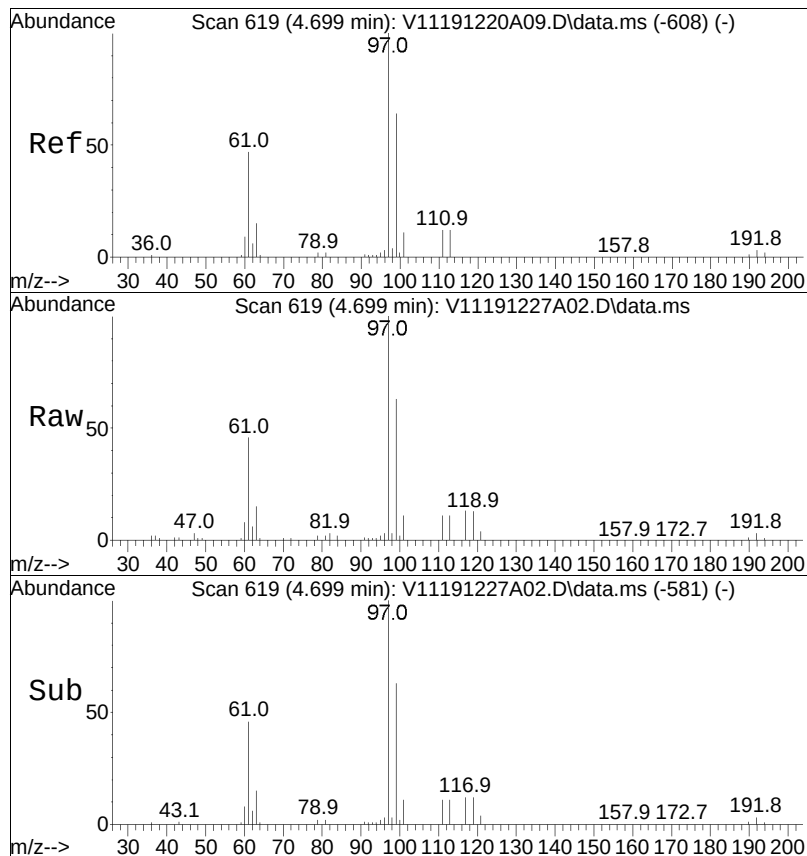
Delta R.T. 0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 187998 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 96.2  | 64.0  | 132.8  |
| 121       | 30.9  | 20.7  | 42.9   |
| 82        | 26.6  | 16.3  | 33.8   |





#37

1,1,1-Trichloroethane

Concen: 41.52 ug/L

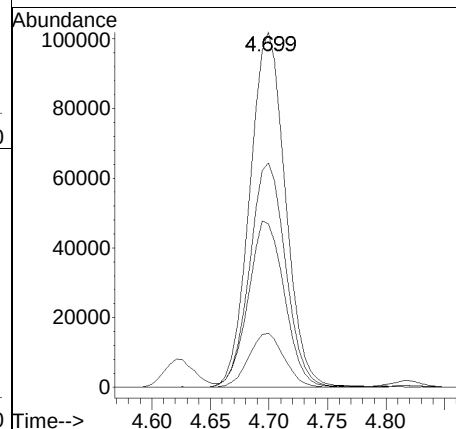
RT: 4.699 min Scan# 619

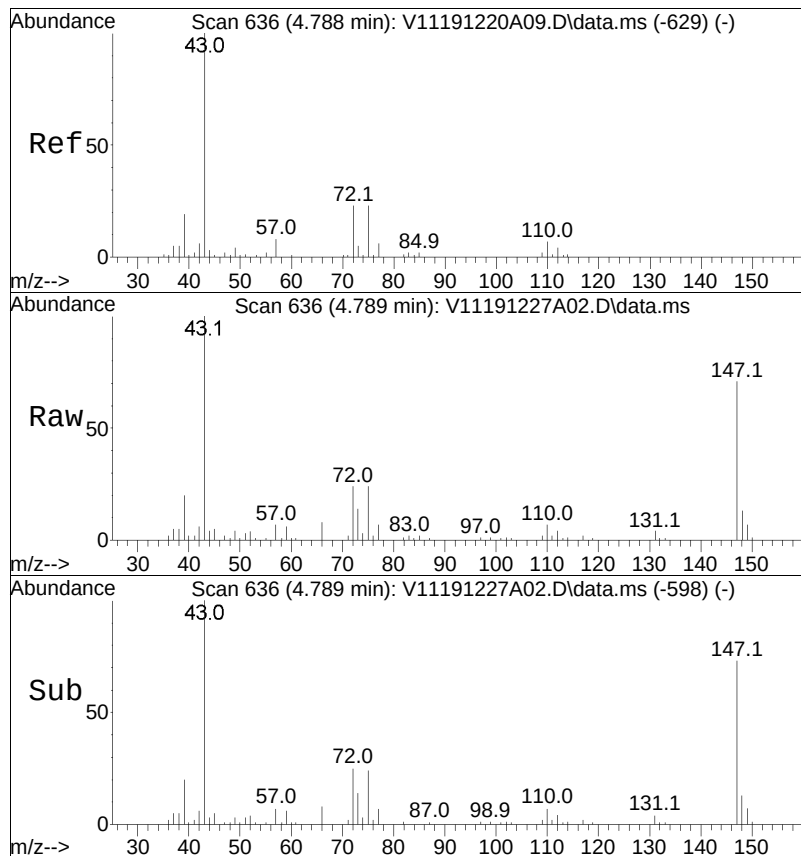
Delta R.T. 0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

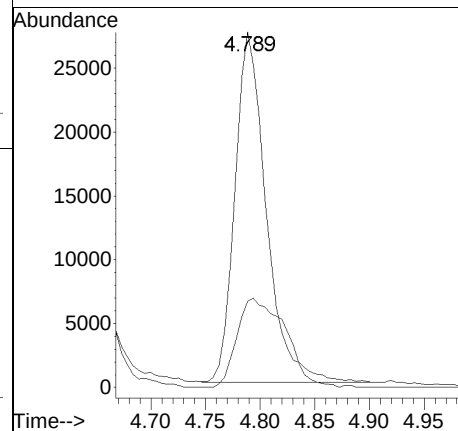
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 215873 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.0  | 41.5  | 86.1   |
| 61        | 48.0  | 32.2  | 67.0   |
| 63        | 15.2  | 10.1  | 20.9   |

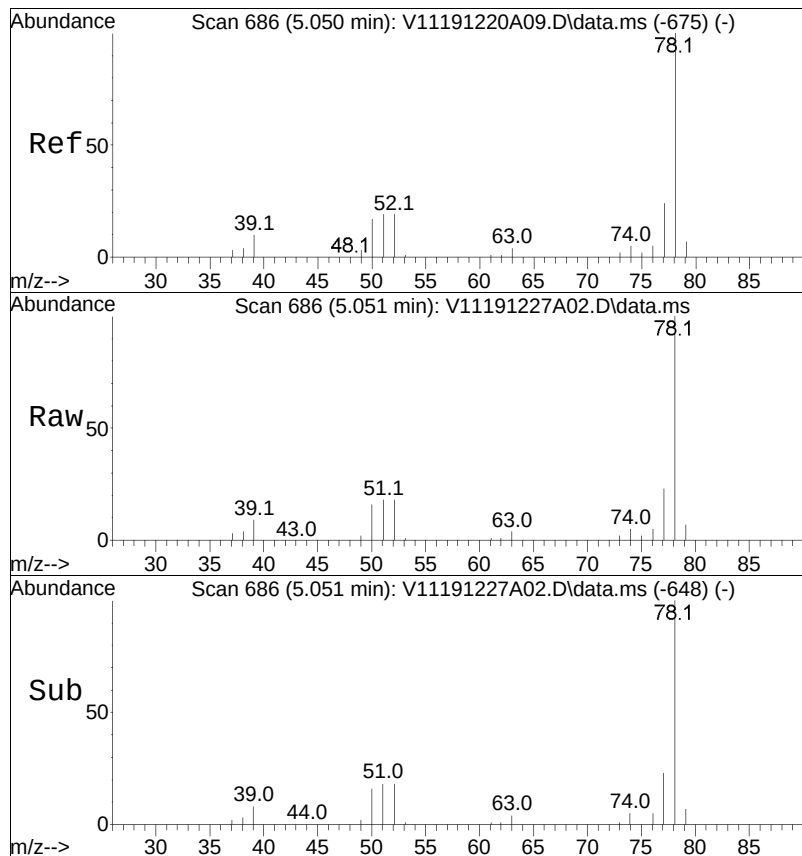




#39  
 2-Butanone  
 Concen: 39.33 ug/L  
 RT: 4.789 min Scan# 636  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

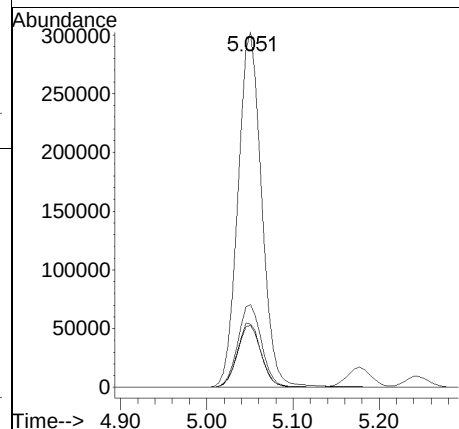
Tgt Ion: 43 Resp: 54762  
 Ion Ratio Lower Upper  
 43 100  
 72 39.1 21.0 31.6#

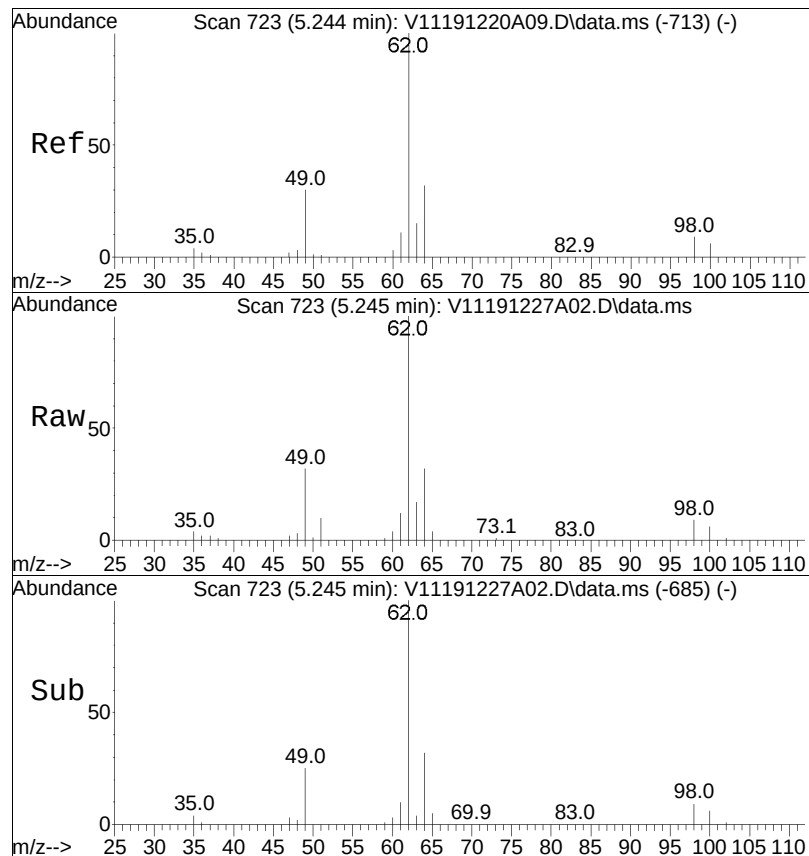




#41  
Benzene  
Concen: 40.36 ug/L  
RT: 5.051 min Scan# 686  
Delta R.T. 0.001 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

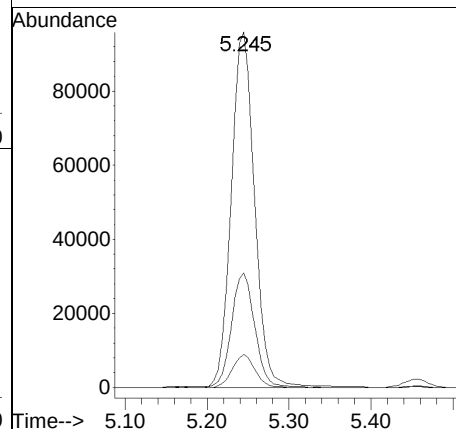
|             |              |
|-------------|--------------|
| Tgt Ion: 78 | Resp: 577381 |
| Ion Ratio   | Lower Upper  |
| 78 100      |              |
| 77 23.6     | 15.1 31.3    |
| 51 18.4     | 15.8 32.8    |
| 52 17.7     | 15.6 32.4    |

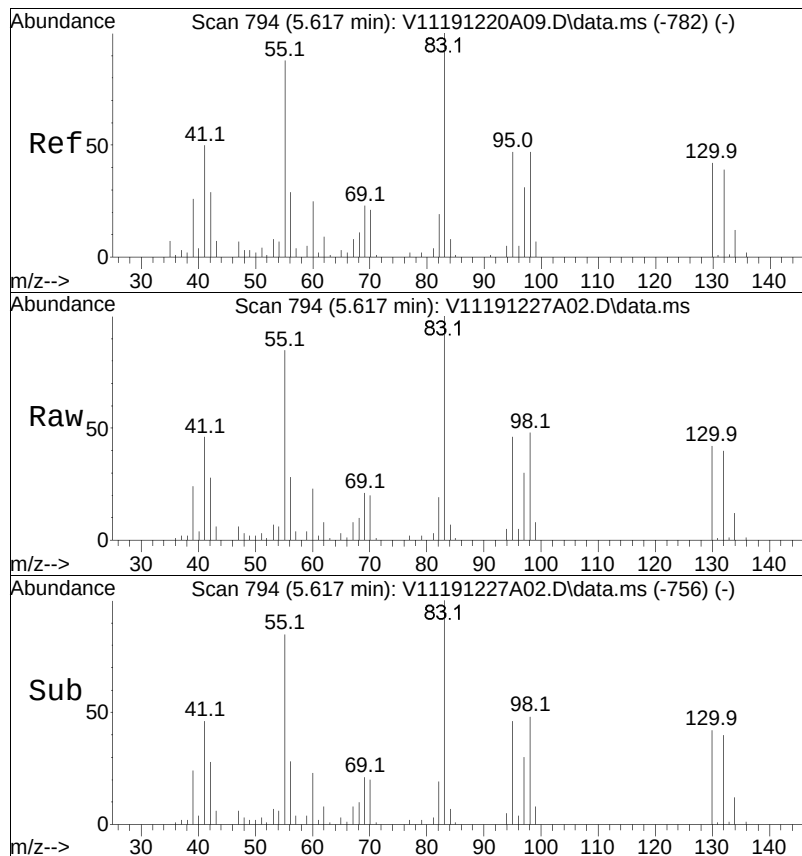




#44  
 1,2-Dichloroethane  
 Concen: 38.73 ug/L  
 RT: 5.245 min Scan# 723  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|             |              |
|-------------|--------------|
| Tgt Ion: 62 | Resp: 189894 |
| Ion Ratio   | Lower Upper  |
| 62 100      |              |
| 64 32.0     | 11.1 51.1    |
| 98 8.9      | 0.0 28.0     |





#47

Methyl cyclohexane

Concen: 45.75 ug/L

RT: 5.617 min Scan# 794

Delta R.T. -0.000 min

Lab File: V11191227A02.D

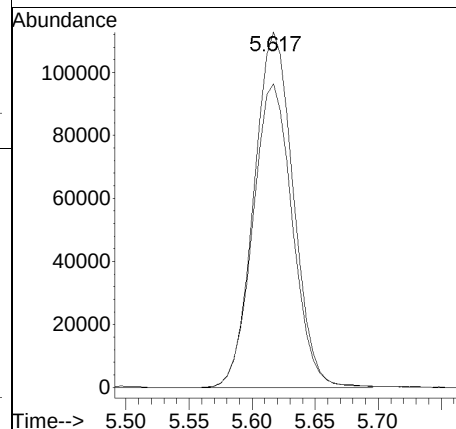
Acq: 27 Dec 2019 05:44 am

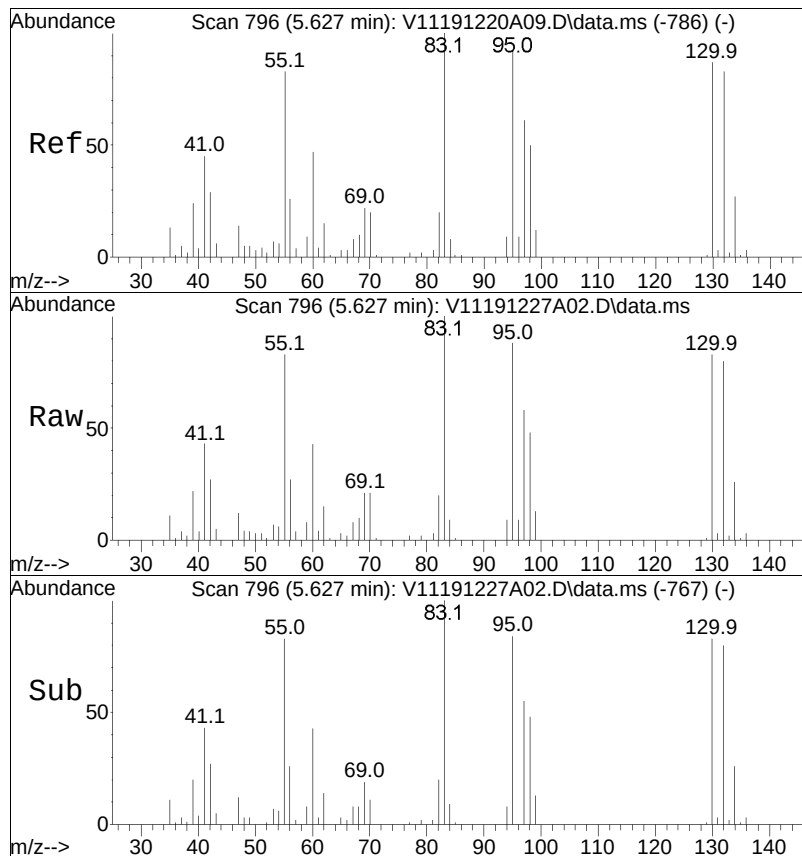
Tgt Ion: 83 Resp: 243825

Ion Ratio Lower Upper

83 100

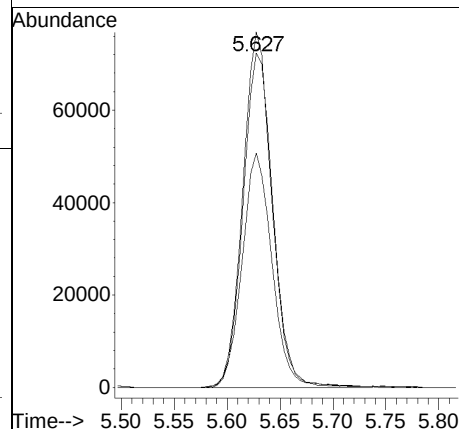
55 86.5 88.1 132.1#

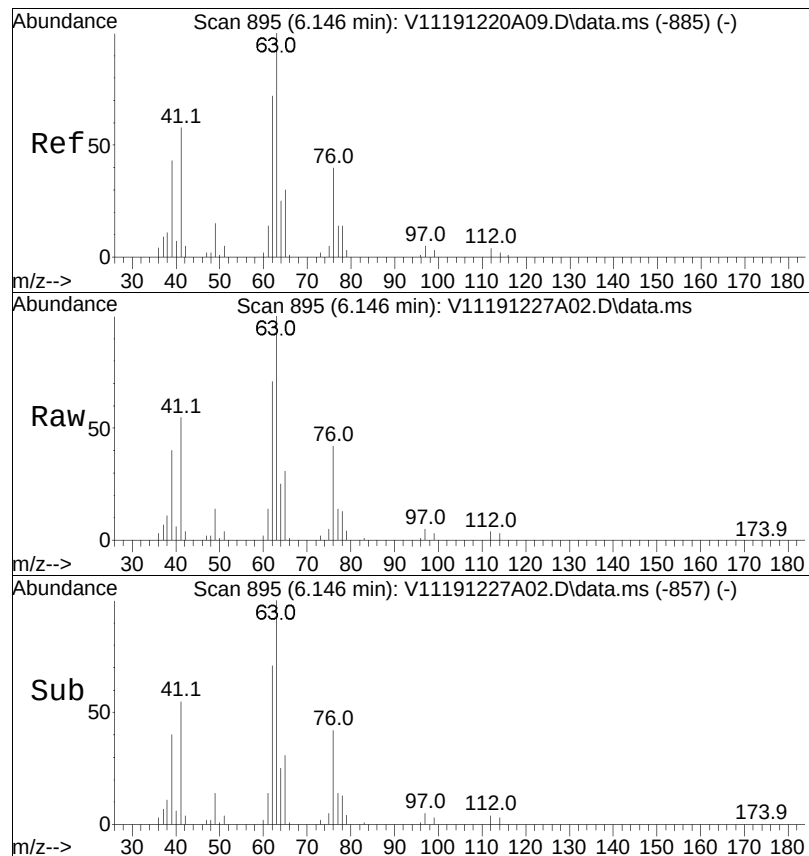




#48  
 Trichloroethene  
 Concen: 42.72 ug/L  
 RT: 5.627 min Scan# 796  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

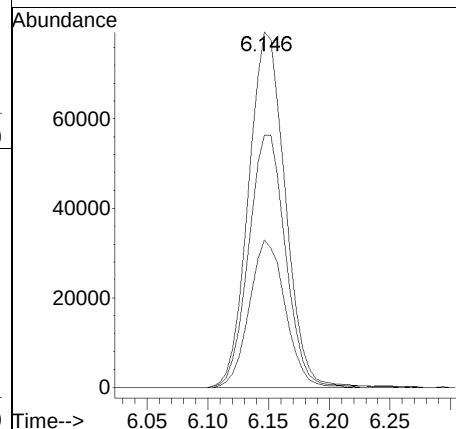
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 67.6  | 54.3  | 81.5  |
| 130     | 96.5  | 84.6  | 126.8 |



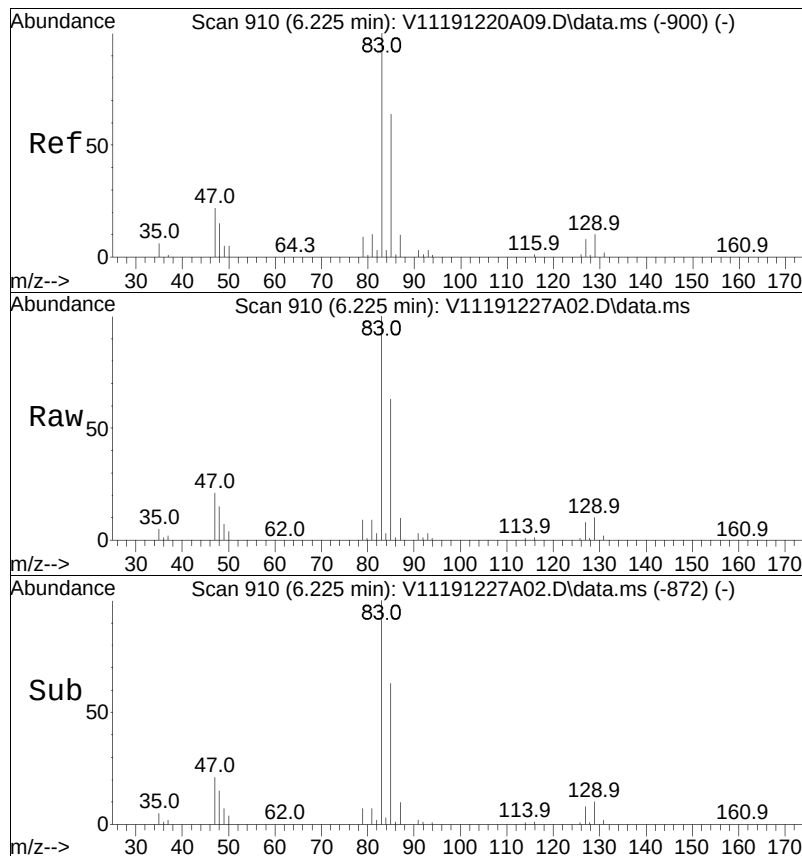


#51  
 1,2-Dichloropropane  
 Concen: 42.18 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 166436 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 62  | 71.8    | 57.9  | 86.9   |
| 76  | 40.8    | 30.1  | 45.1   |







#54

Bromodichloromethane

Concen: 41.43 ug/L

RT: 6.225 min Scan# 910

Delta R.T. 0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

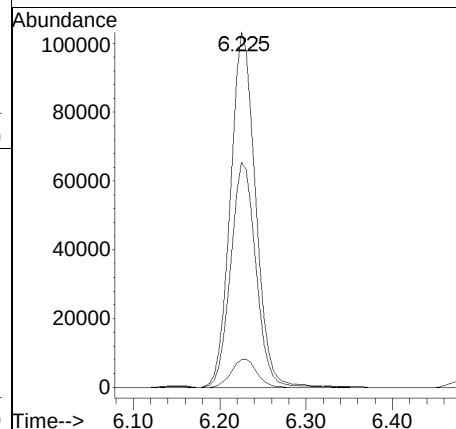
Tgt Ion: 83 Resp: 209559

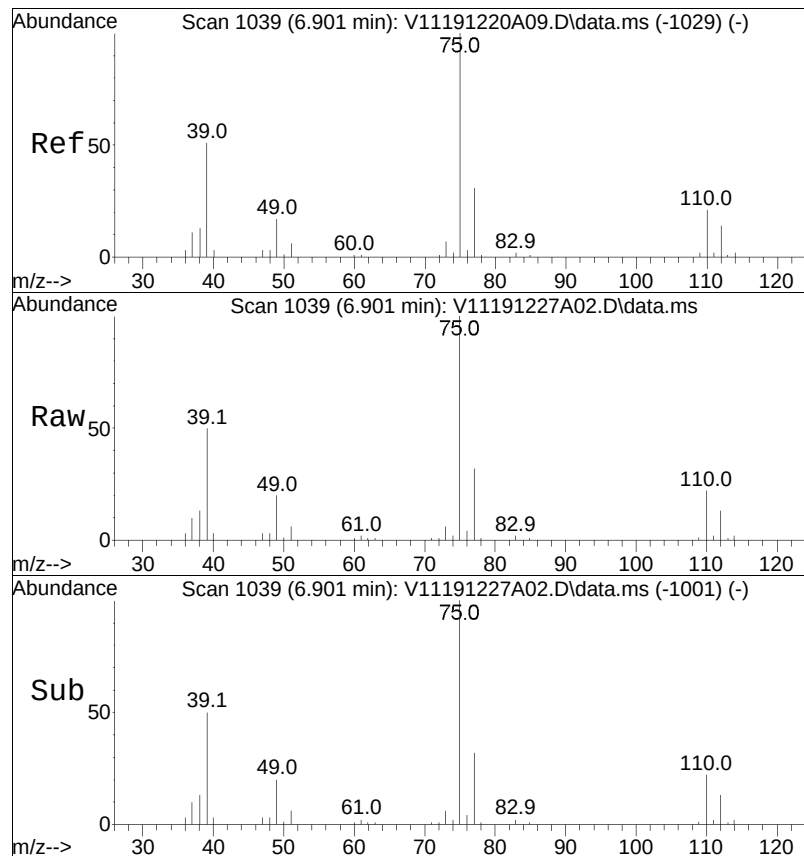
Ion Ratio Lower Upper

83 100

85 63.5 51.6 77.4

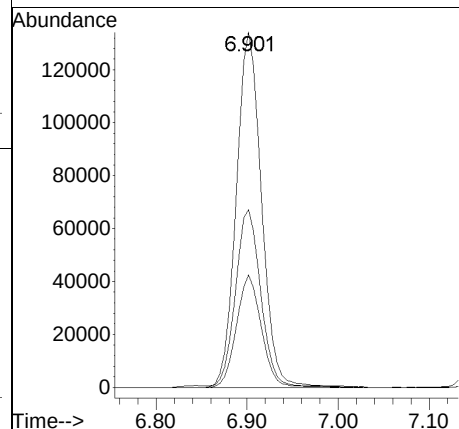
127 8.0 7.1 10.7

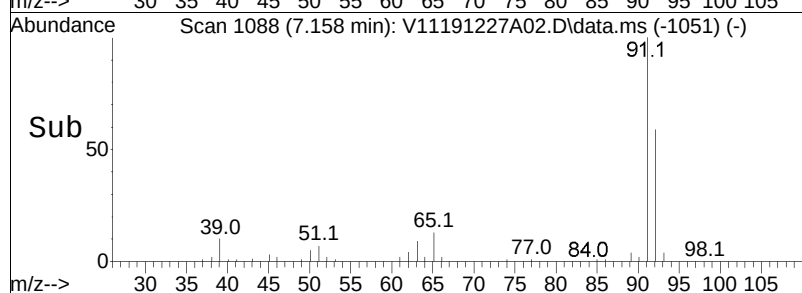
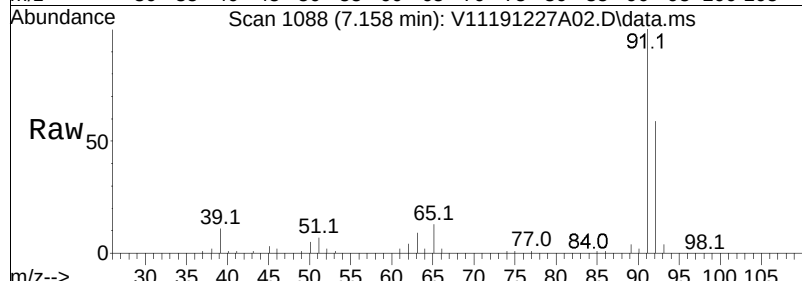
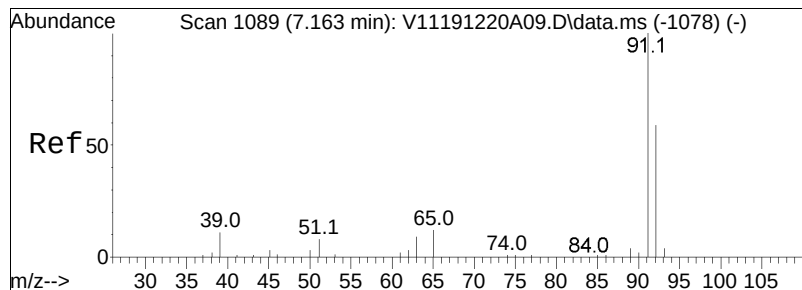




#58  
 cis-1,3-Dichloropropene  
 Concen: 45.09 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

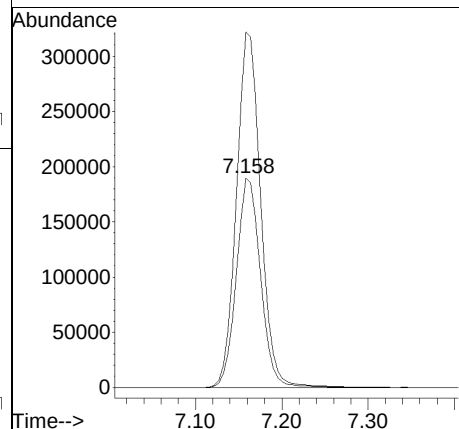
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.3  | 24.9  | 37.3  |
| 39      | 50.5  | 51.8  | 77.8# |

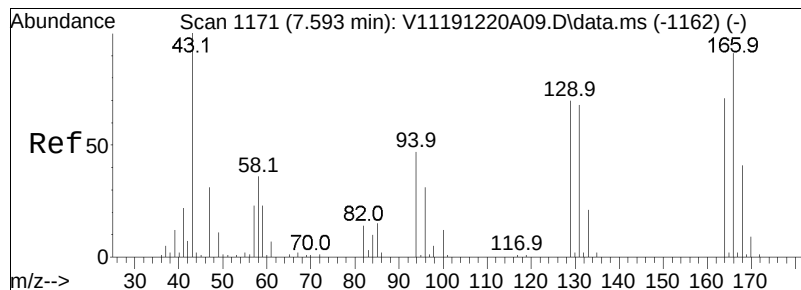




#61  
Toluene  
Concen: 38.97 ug/L  
RT: 7.158 min Scan# 1088  
Delta R.T. -0.005 min  
Lab File: V11191227A02.D  
Acq: 27 Dec 2019 05:44 am

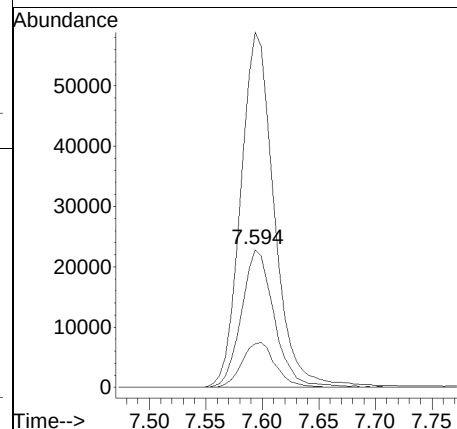
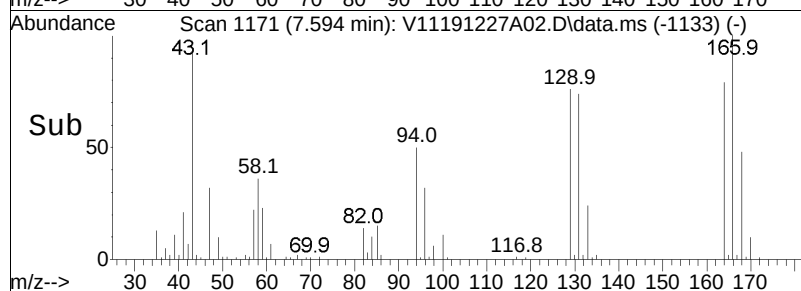
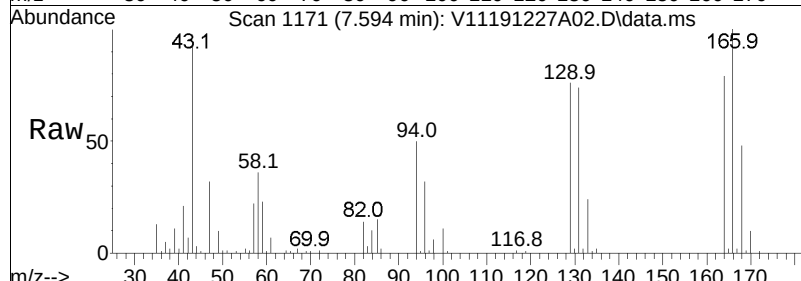
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 169.7 | 133.7 | 200.5 |

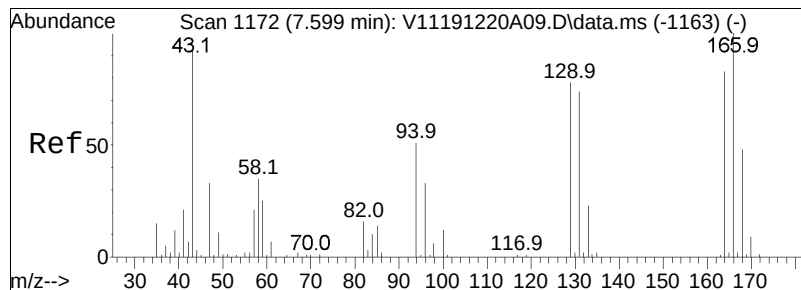




#62  
 4-Methyl-2-pentanone  
 Concen: 38.50 ug/L  
 RT: 7.594 min Scan# 1171  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 100     | 33.1  | 22.0  | 33.0# |
| 43      | 263.2 | 236.9 | 355.3 |





#63

Tetrachloroethene

Concen: 41.20 ug/L

RT: 7.599 min Scan# 1172

Delta R.T. -0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

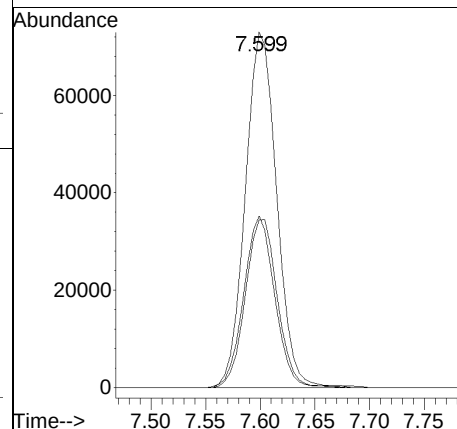
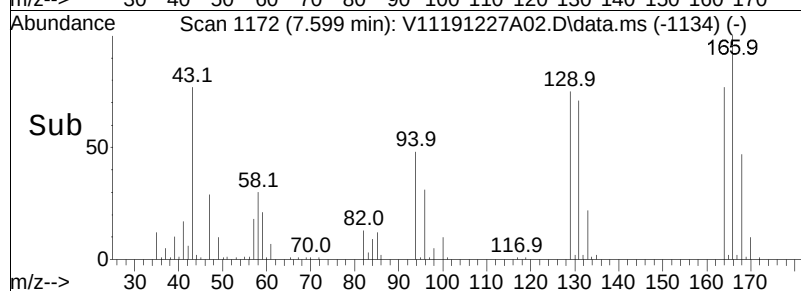
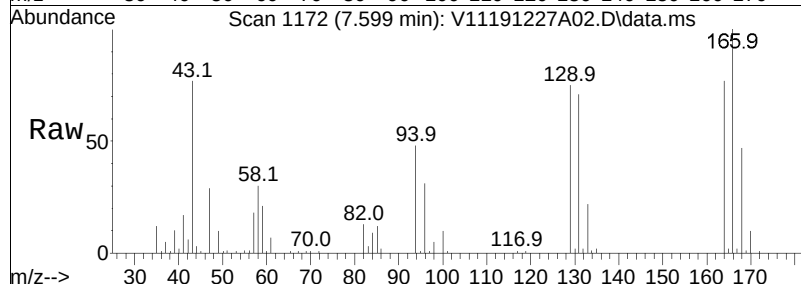
Tgt Ion:166 Resp: 145691

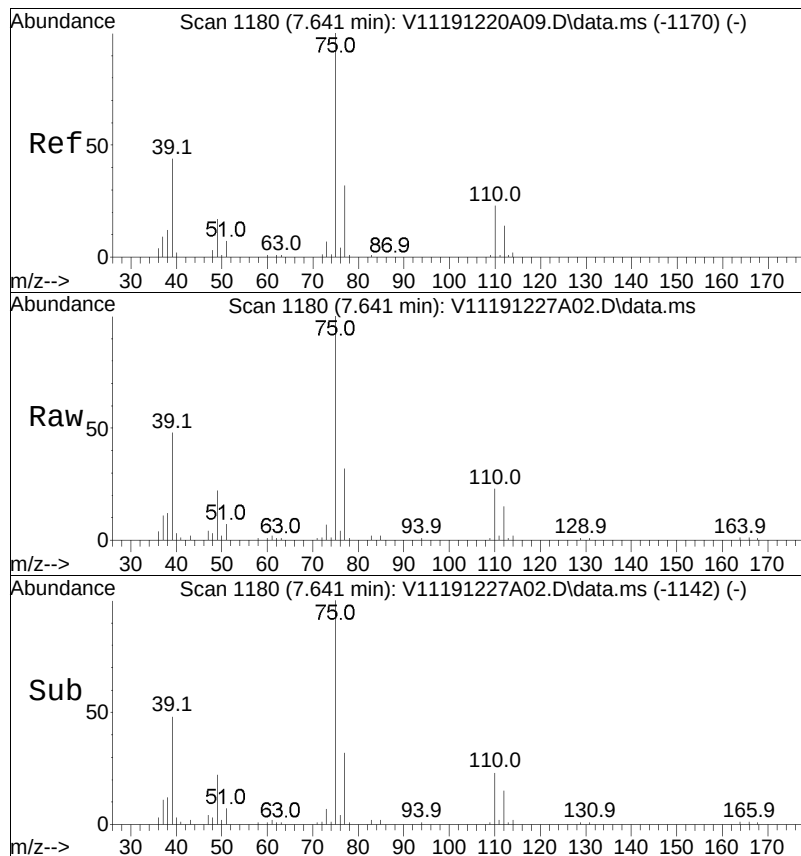
Ion Ratio Lower Upper

166 100

168 48.0 28.2 68.2

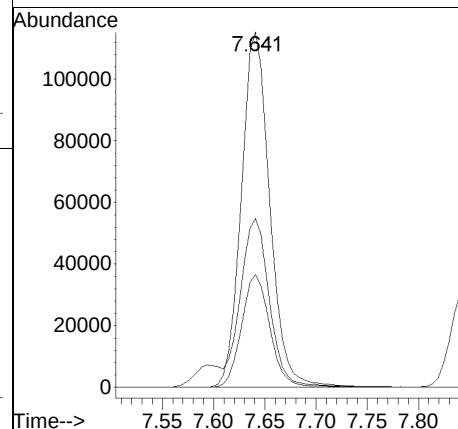
94 47.5 26.3 66.3

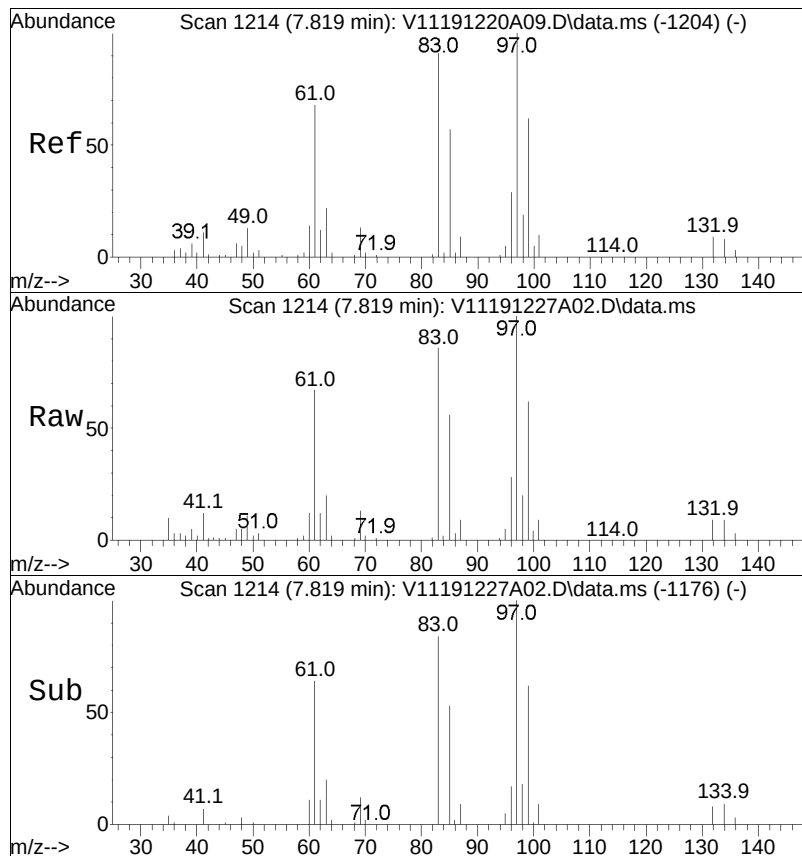




#65  
 trans-1,3-Dichloropropene  
 Concen: 39.52 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

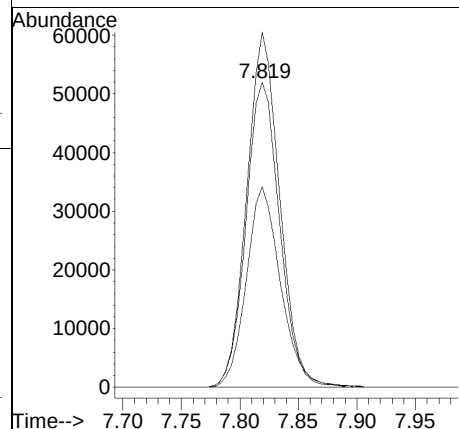
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.8  | 11.4  | 51.4  |
| 39      | 48.6  | 50.3  | 90.3# |

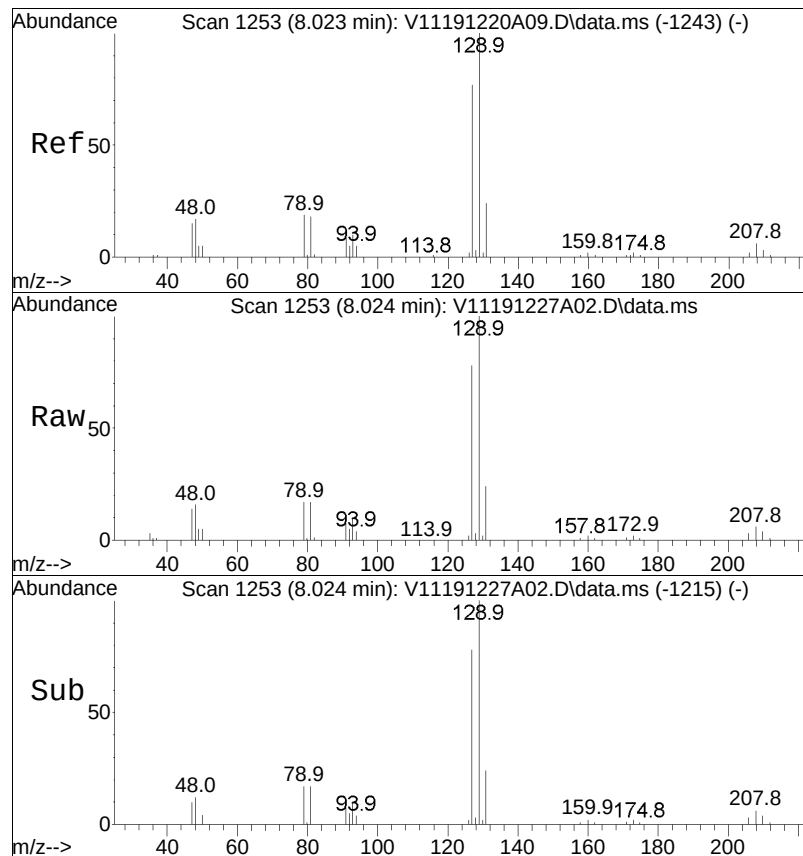




#68  
 1,1,2-Trichloroethane  
 Concen: 36.95 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

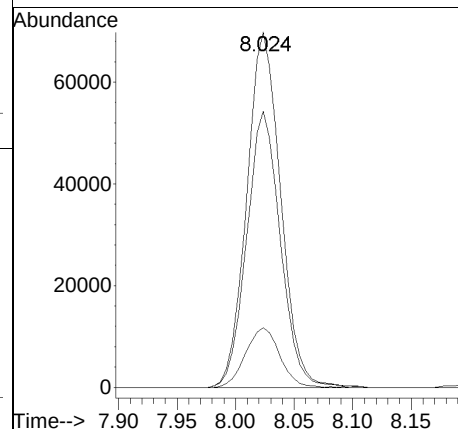
| Tgt Ion:  | 83    | Resp: | 104514 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 113.8 | 97.6  | 137.6  |
| 85        | 66.7  | 46.8  | 86.8   |



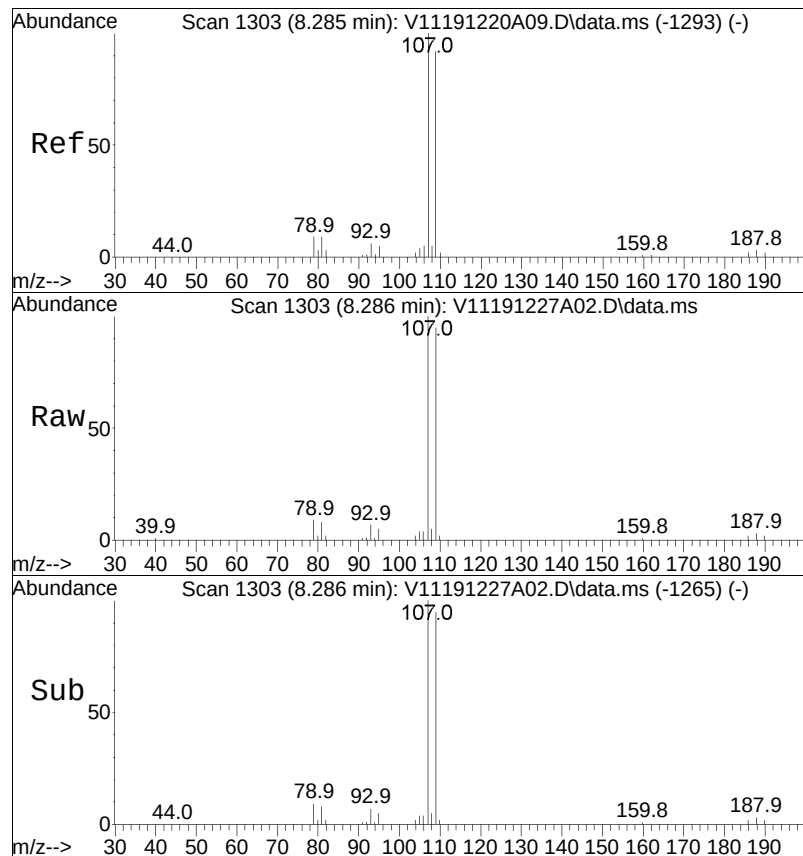


#69  
 Chlorodibromomethane  
 Concen: 38.46 ug/L  
 RT: 8.024 min Scan# 1253  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 81      | 16.9  | 0.0   | 36.0  |
| 127     | 77.2  | 56.0  | 96.0  |

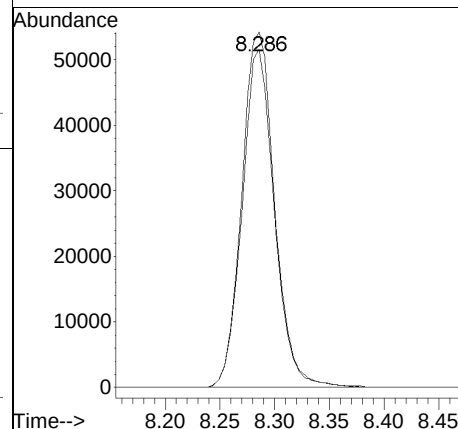


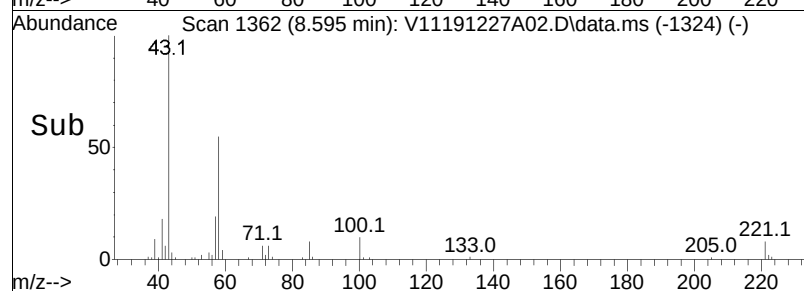
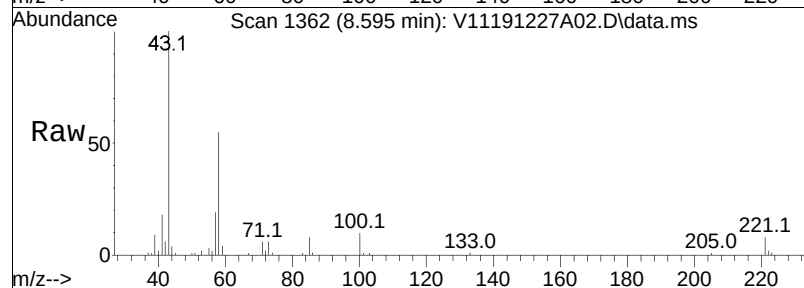
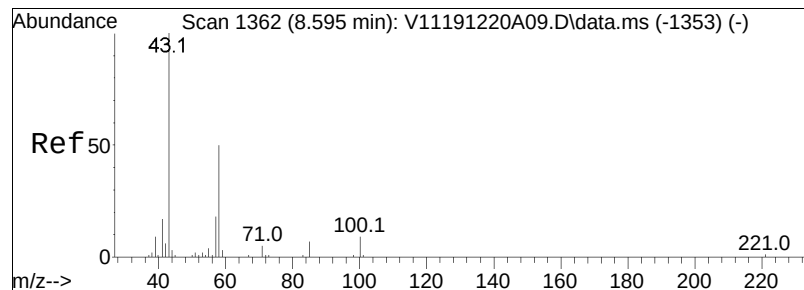




#71  
 1,2-Dibromoethane  
 Concen: 38.08 ug/L  
 RT: 8.286 min Scan# 1303  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.2  | 76.2  | 114.4 |





#72

2-Hexanone

Concen: 38.14 ug/L

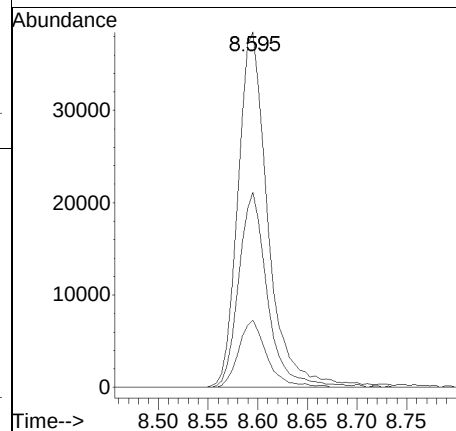
RT: 8.595 min Scan# 1362

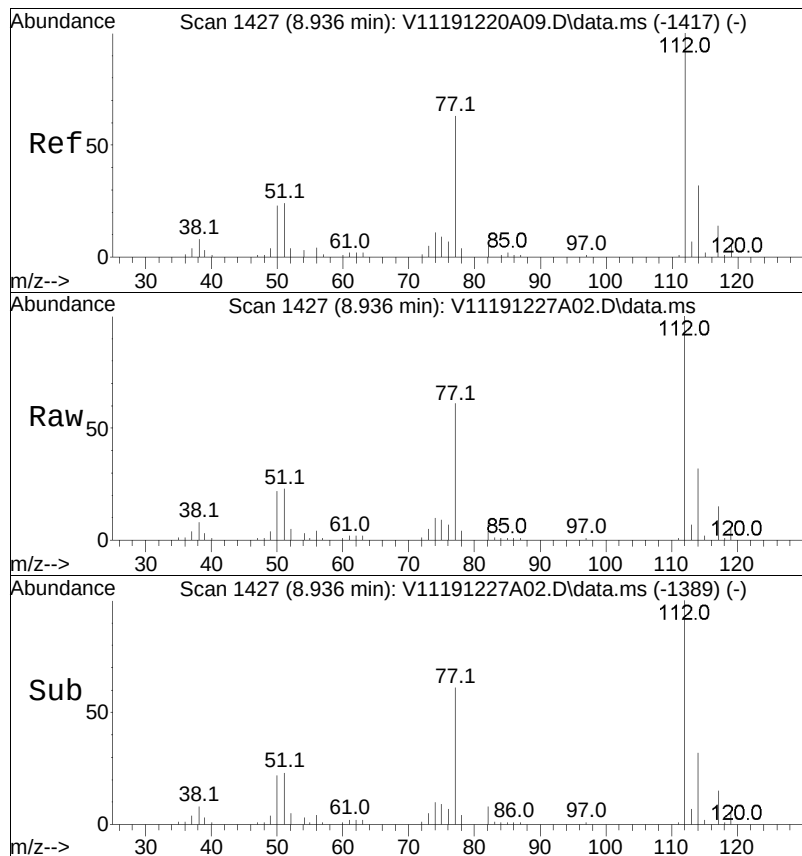
Delta R.T. 0.000 min

Lab File: V11191227A02.D

Acq: 27 Dec 2019 05:44 am

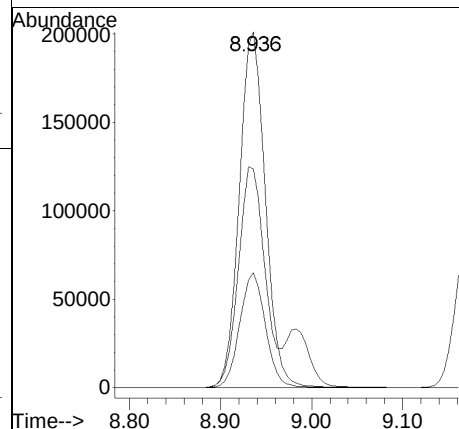
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 81150 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 52.7  | 37.9  | 56.9  |
| 57        | 17.9  | 12.6  | 19.0  |

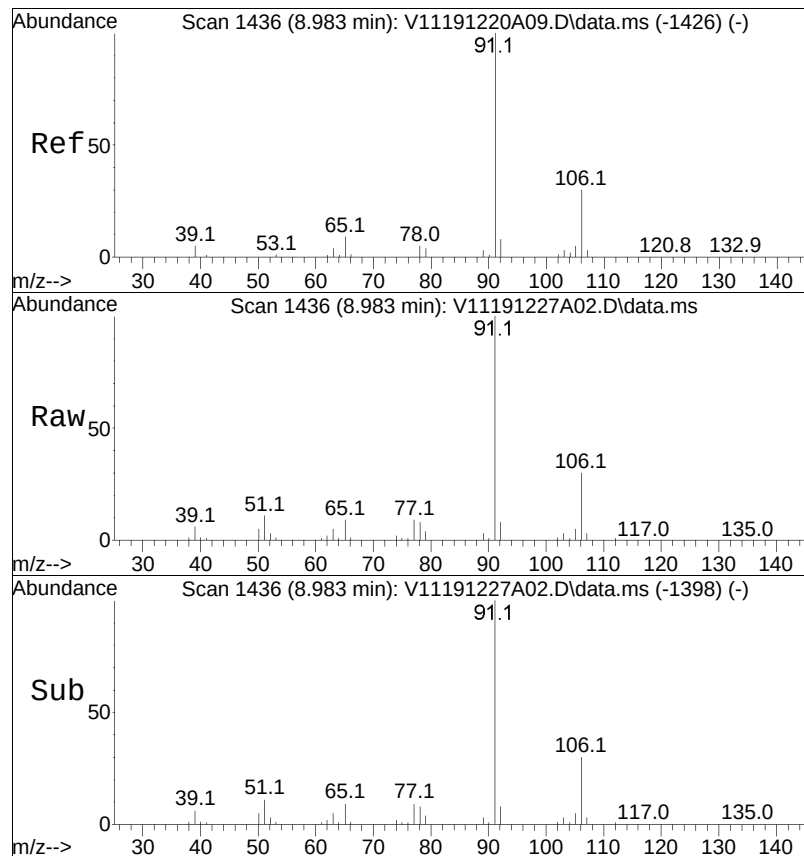




#73  
 Chlorobenzene  
 Concen: 38.80 ug/L  
 RT: 8.936 min Scan# 1427  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

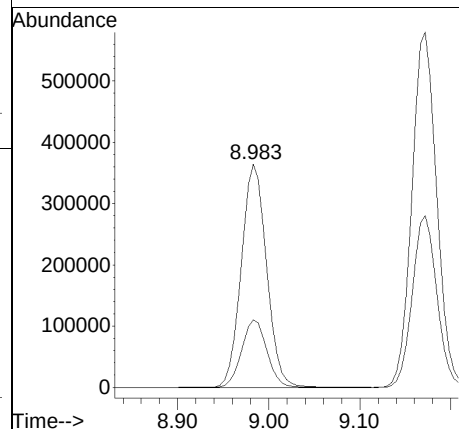
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:112 | Resp: | 397883 |
| Ion | Ratio   | Lower | Upper  |
| 112 | 100     |       |        |
| 77  | 64.3    | 47.0  | 70.4   |
| 114 | 31.9    | 25.9  | 38.9   |

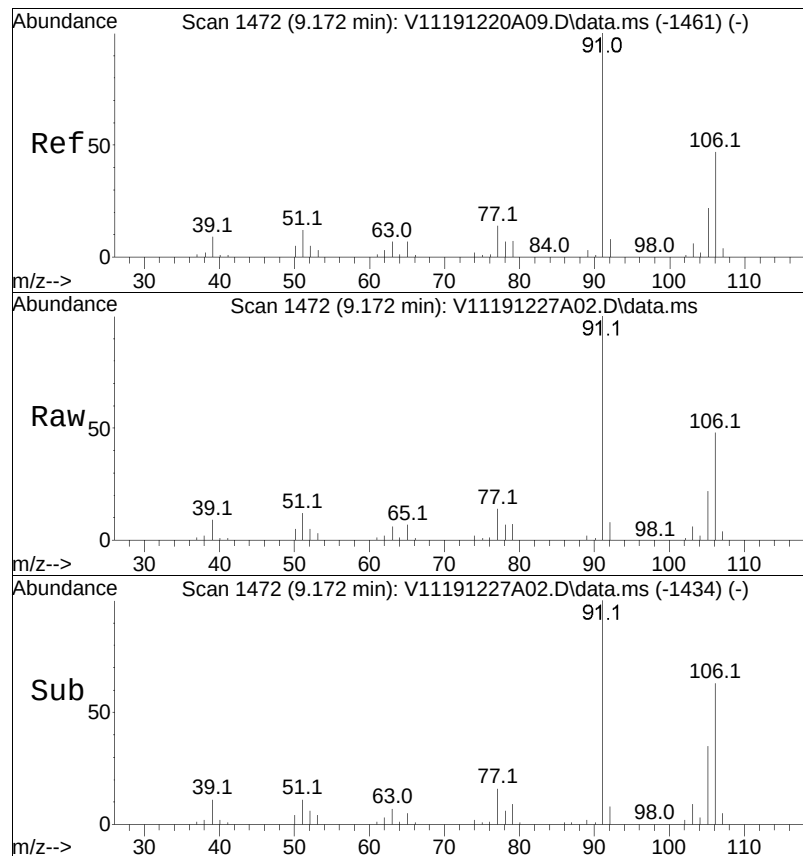




#74  
 Ethylbenzene  
 Concen: 41.33 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

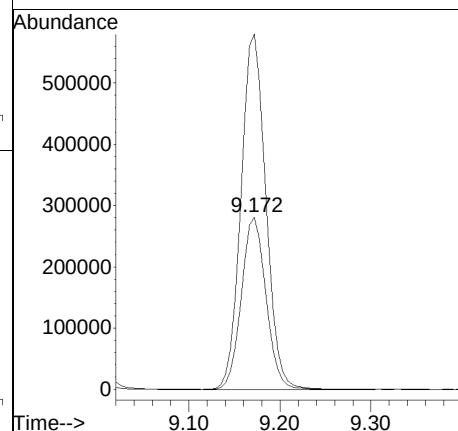
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 702654 |       |       |
| 106 | 30.2 | 25.0   | 37.4  |       |

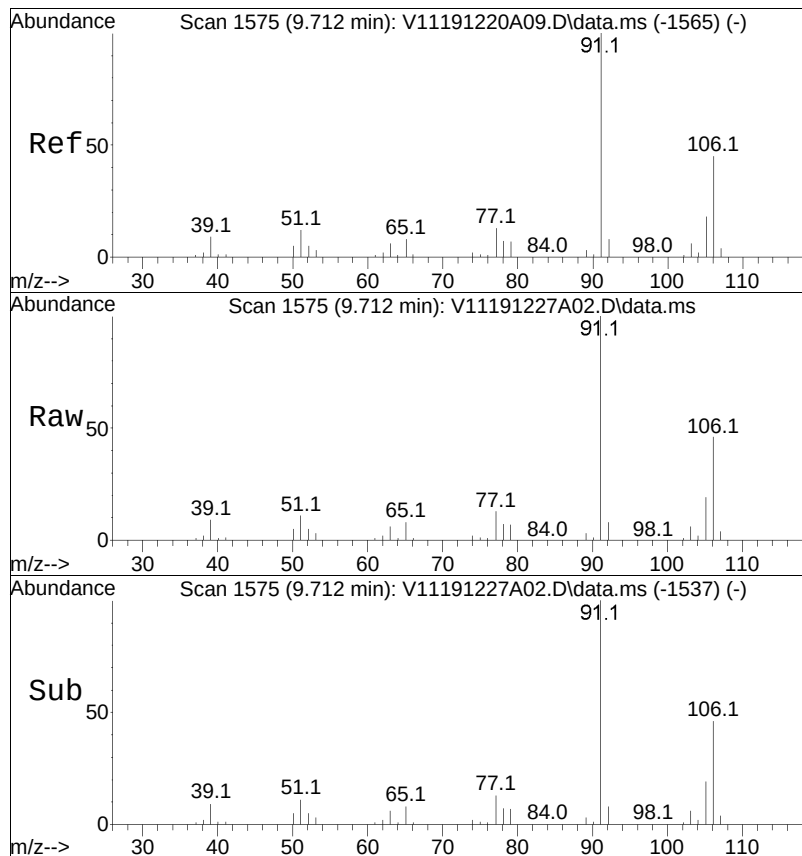




#76  
 p/m Xylene  
 Concen: 86.69 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

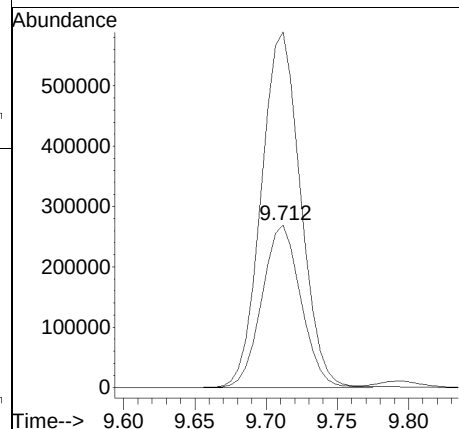
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 207.9 | 159.3 | 238.9 |       |

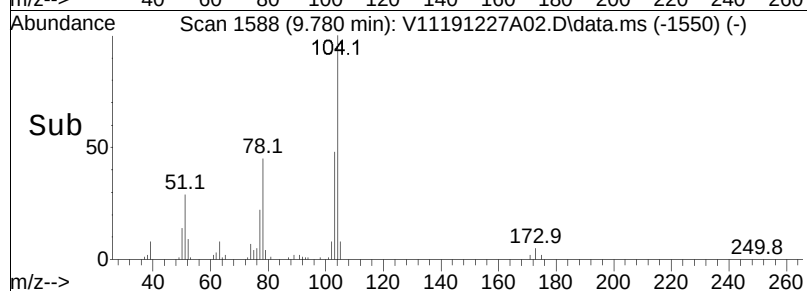
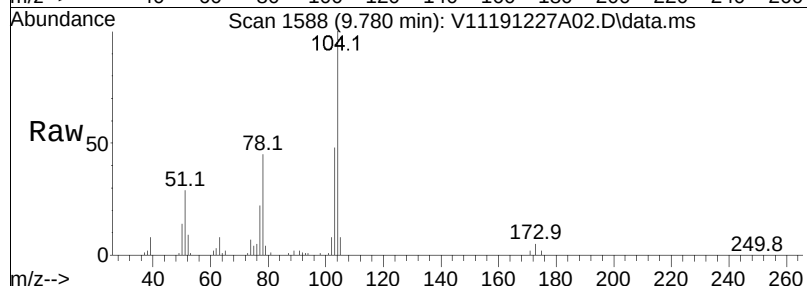
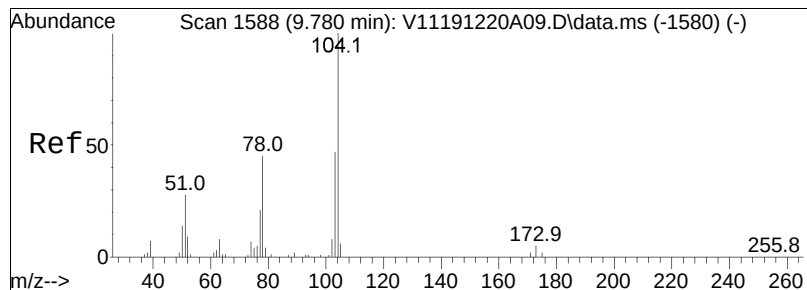




#77  
 o Xylene  
 Concen: 86.82 ug/L  
 RT: 9.712 min Scan# 1575  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 220.5 | 170.2 | 255.2 |       |





#78

Styrene

Concen: 87.45 ug/L

RT: 9.780 min Scan# 1588

Delta R.T. -0.000 min

Lab File: V11191227A02.D

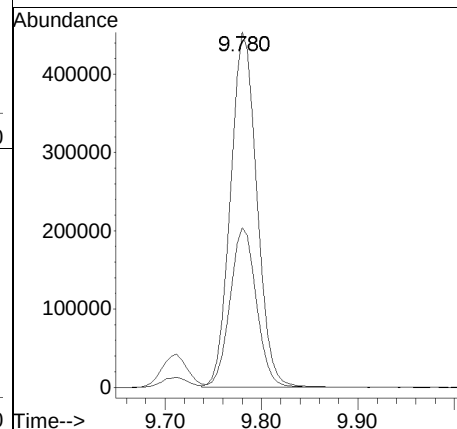
Acq: 27 Dec 2019 05:44 am

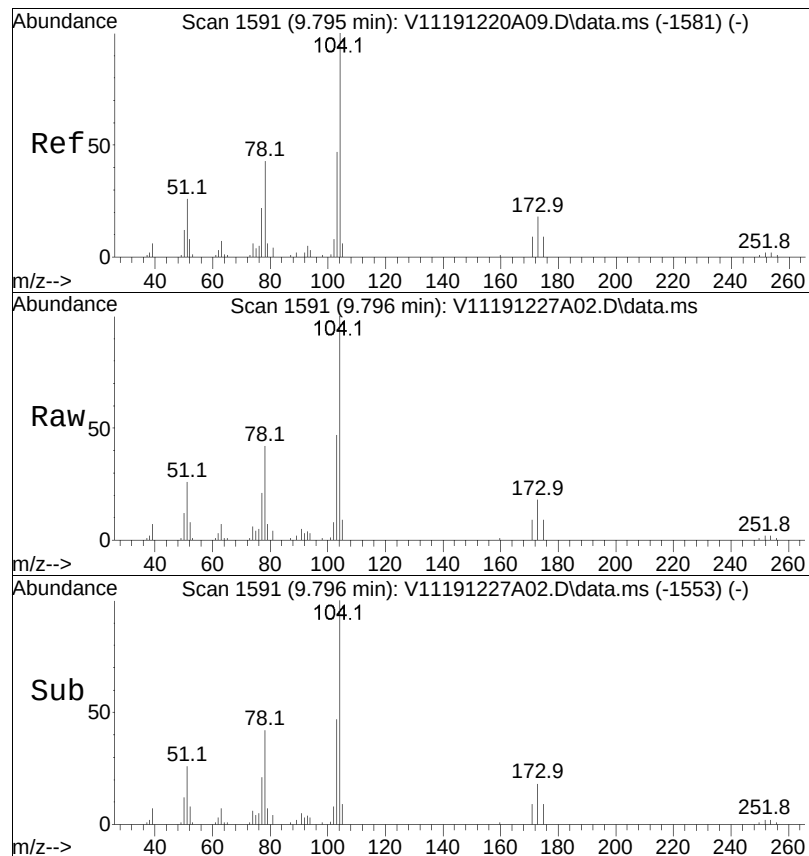
Tgt Ion:104 Resp: 861457

Ion Ratio Lower Upper

104 100

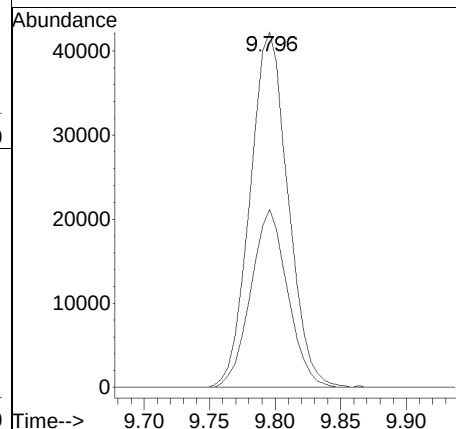
78 45.1 34.4 51.6



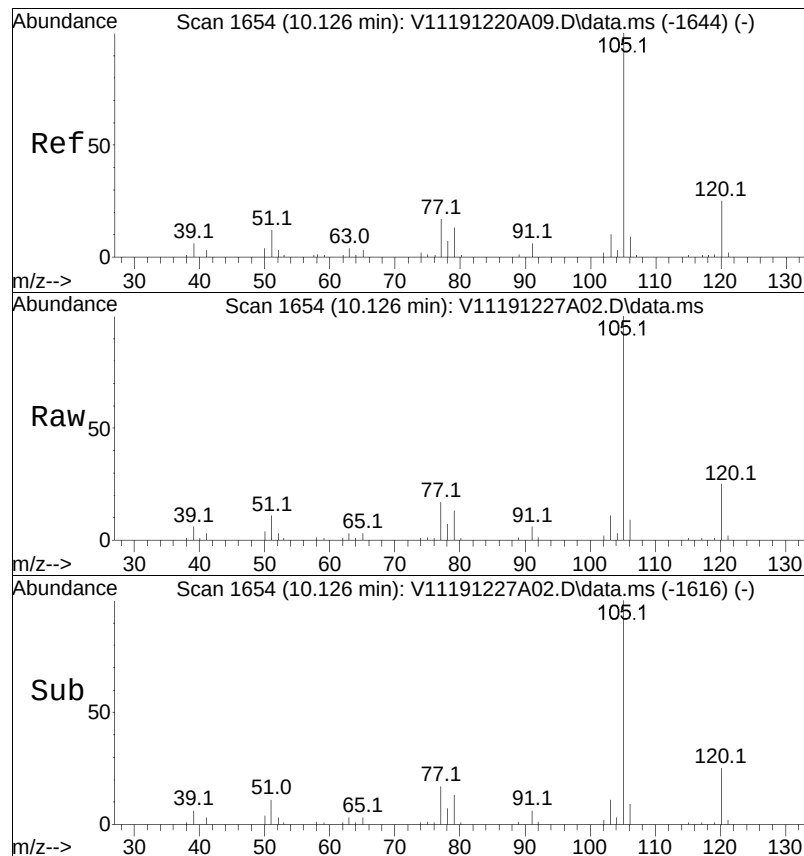


#80  
 Bromoform  
 Concen: 41.21 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 173 | 100  |       |       |       |
| 175 | 48.7 | 28.1  | 68.1  |       |

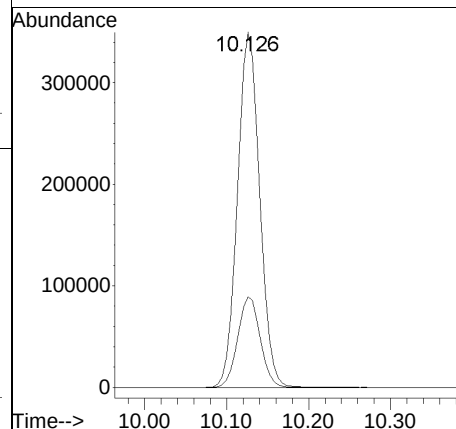


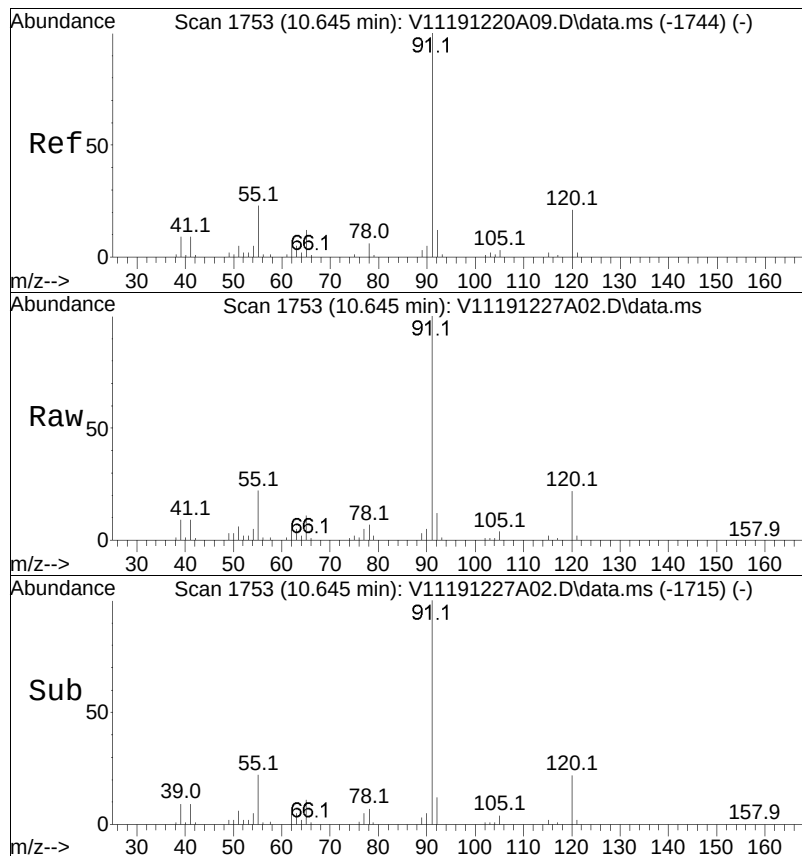




#82  
 Isopropylbenzene  
 Concen: 46.29 ug/L  
 RT: 10.126 min Scan# 1654  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

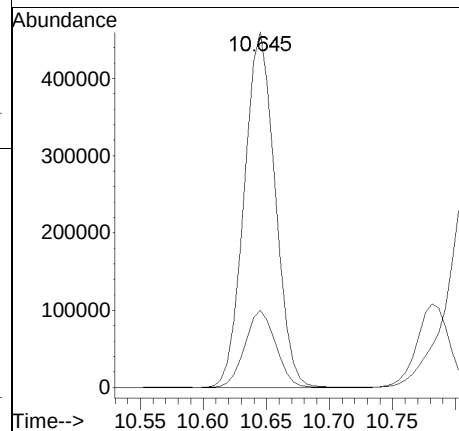
| Tgt Ion | 105    | 120  | Ratio | Lower | Upper |
|---------|--------|------|-------|-------|-------|
| Resp    | 658176 |      |       |       |       |
| Ratio   | 100    | 25.8 |       | 6.9   | 46.9  |

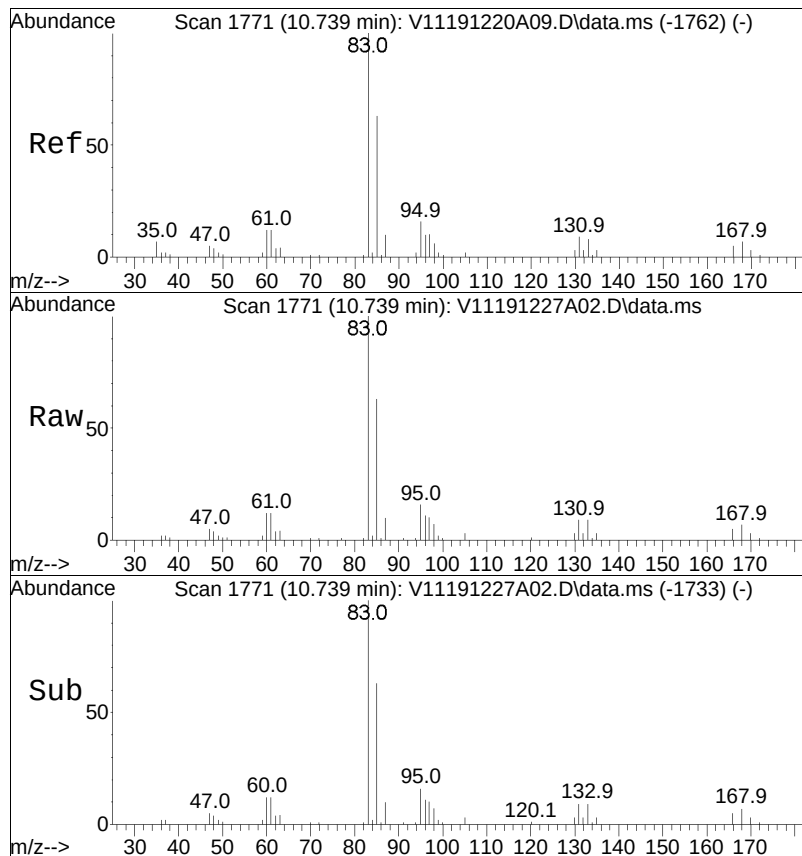




#85  
 n-Propylbenzene  
 Concen: 42.57 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

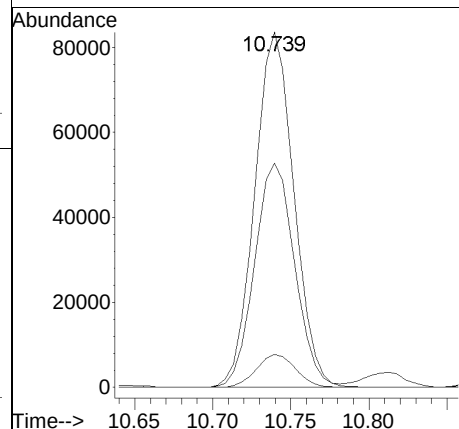
| Tgt Ion:  | 91    | Resp: | 783859 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 21.6  | 18.6  | 27.8   |

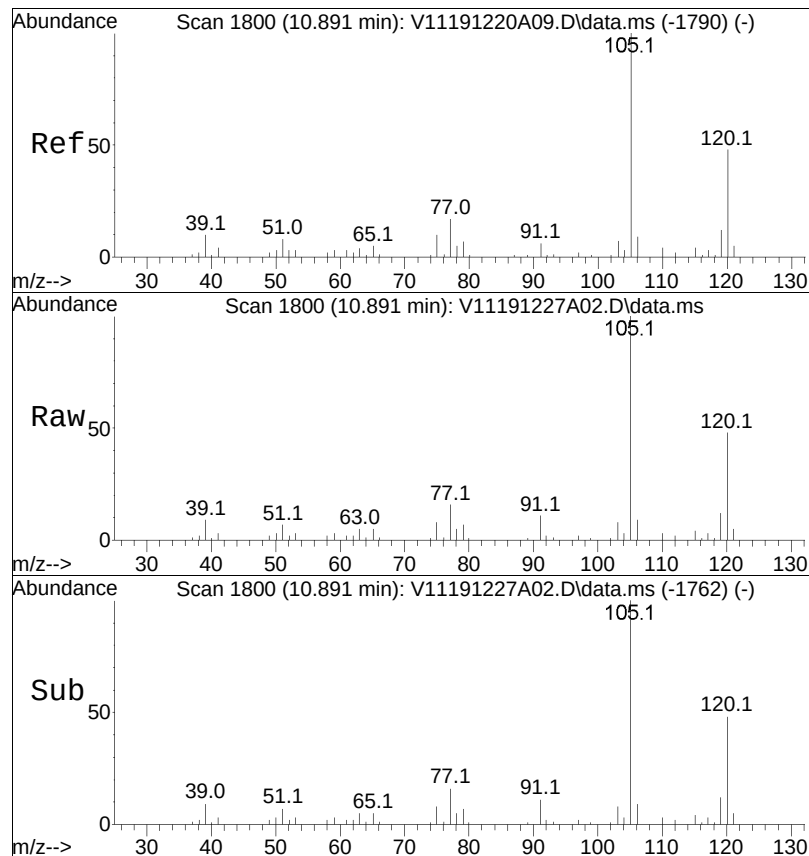




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 36.96 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

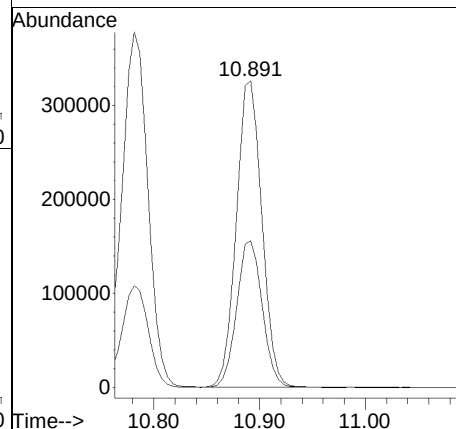
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.3   | 0.0   | 30.1  |
| 85      | 64.7  | 45.8  | 85.8  |

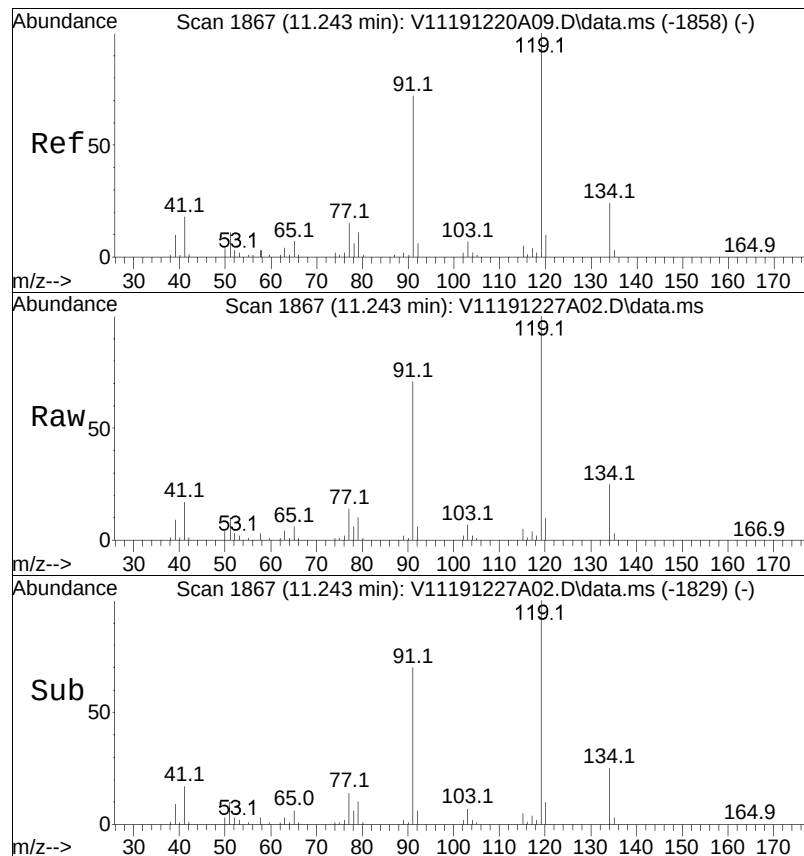




#90  
 1,3,5-Trimethylbenzene  
 Concen: 44.43 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

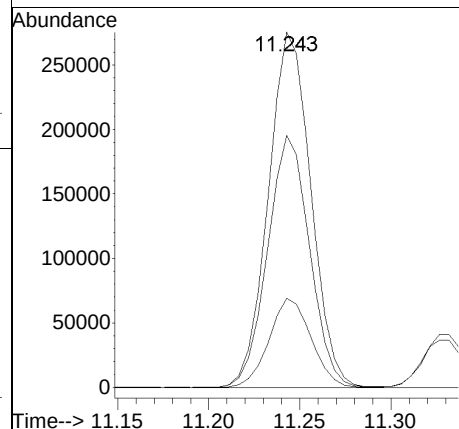
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.9  | 39.8  | 59.8  |

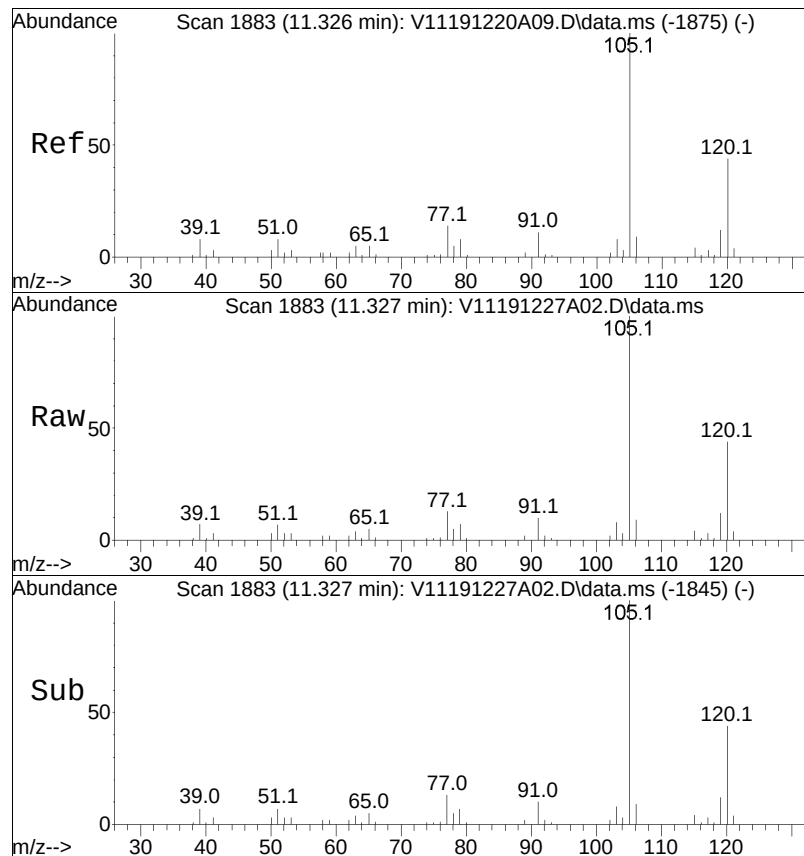




#94  
 tert-Butylbenzene  
 Concen: 45.22 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

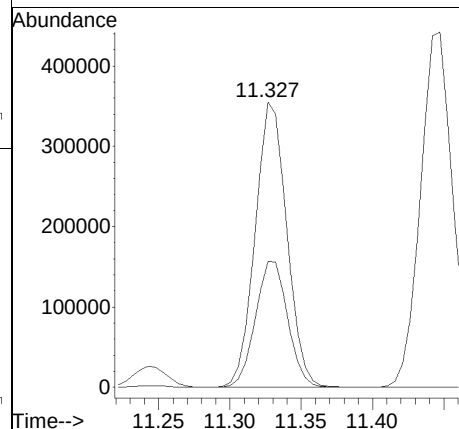
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 447255 |       |       |
| 91      | 70.1  |        | 53.0  | 79.4  |
| 134     | 24.8  |        | 19.8  | 29.6  |

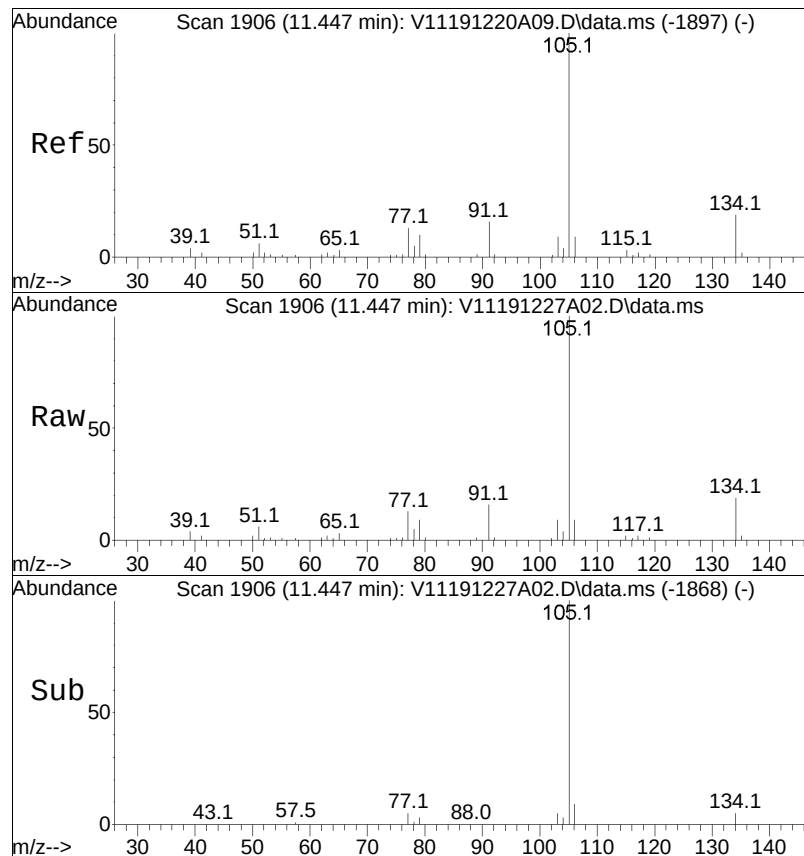




#97  
 1,2,4-Trimethylbenzene  
 Concen: 45.47 ug/L  
 RT: 11.327 min Scan# 1883  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

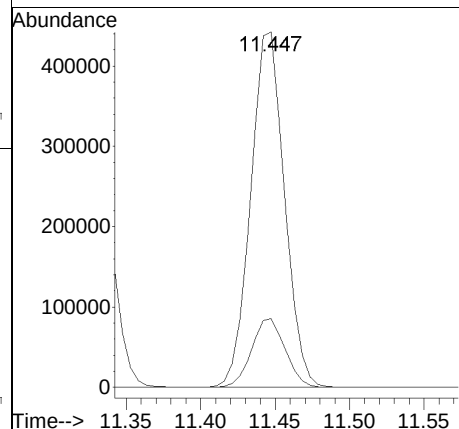
| Tgt Ion | 105  | 120 | Ratio | Lower | Upper |
|---------|------|-----|-------|-------|-------|
| 105     | 100  |     |       |       |       |
| 120     | 45.0 |     | 37.4  | 56.0  |       |

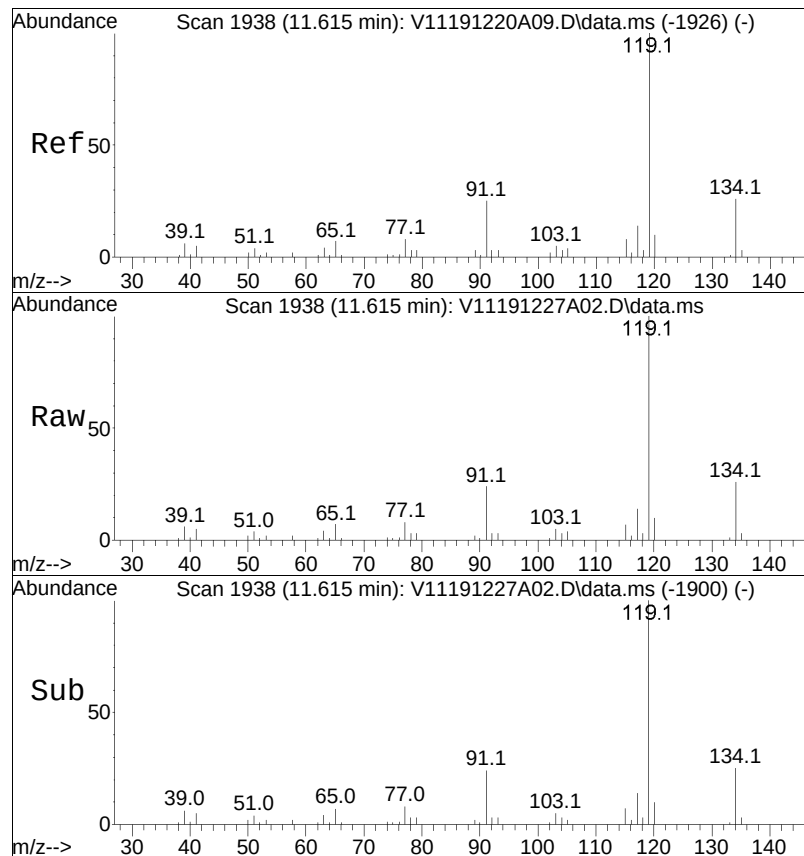




#98  
 sec-Butylbenzene  
 Concen: 45.20 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

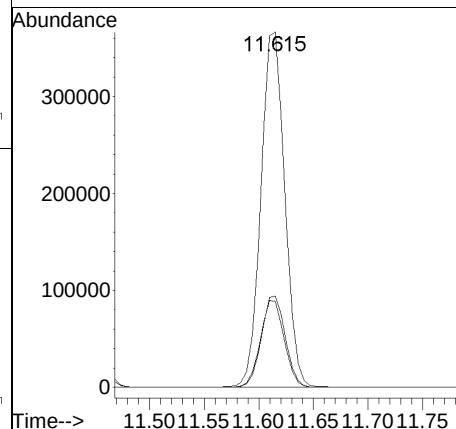
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 134 | 19.3 | 13.2  | 27.4  |       |



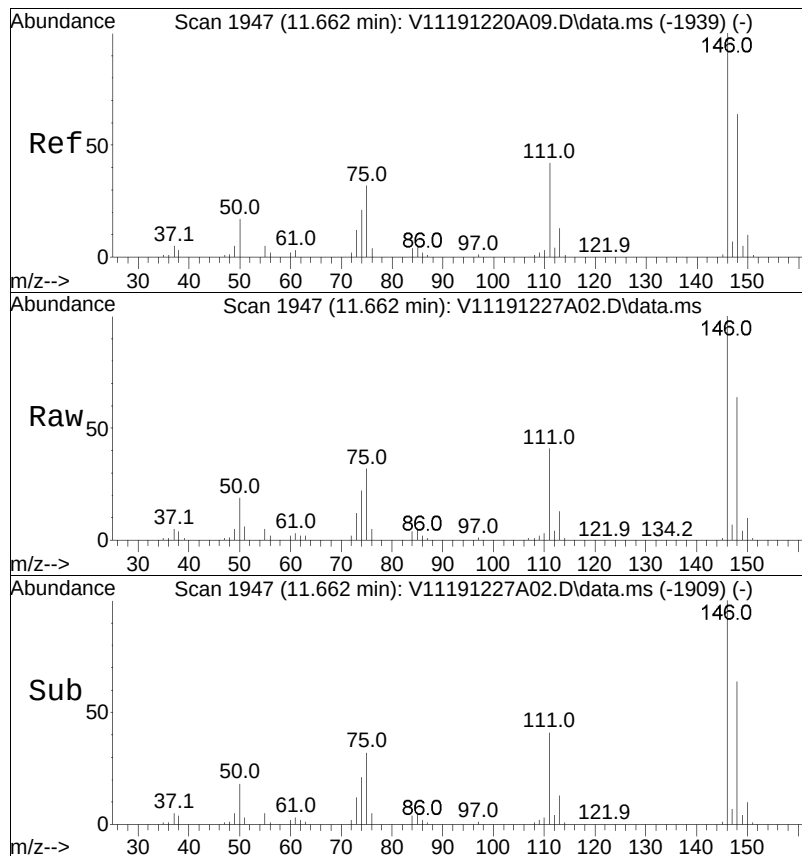


#99  
 p-Isopropyltoluene  
 Concen: 45.17 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 119 | 100  |       |       |       |
| 134 | 25.7 | 17.1  | 35.5  |       |
| 91  | 24.5 | 15.3  | 31.9  |       |

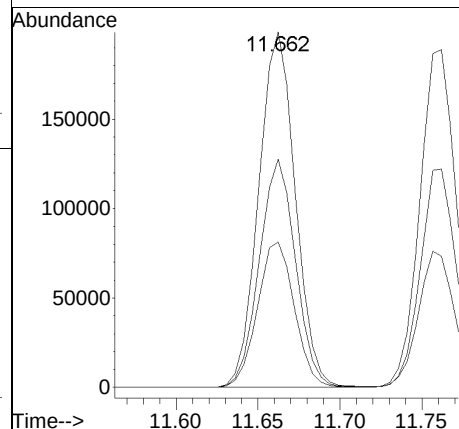


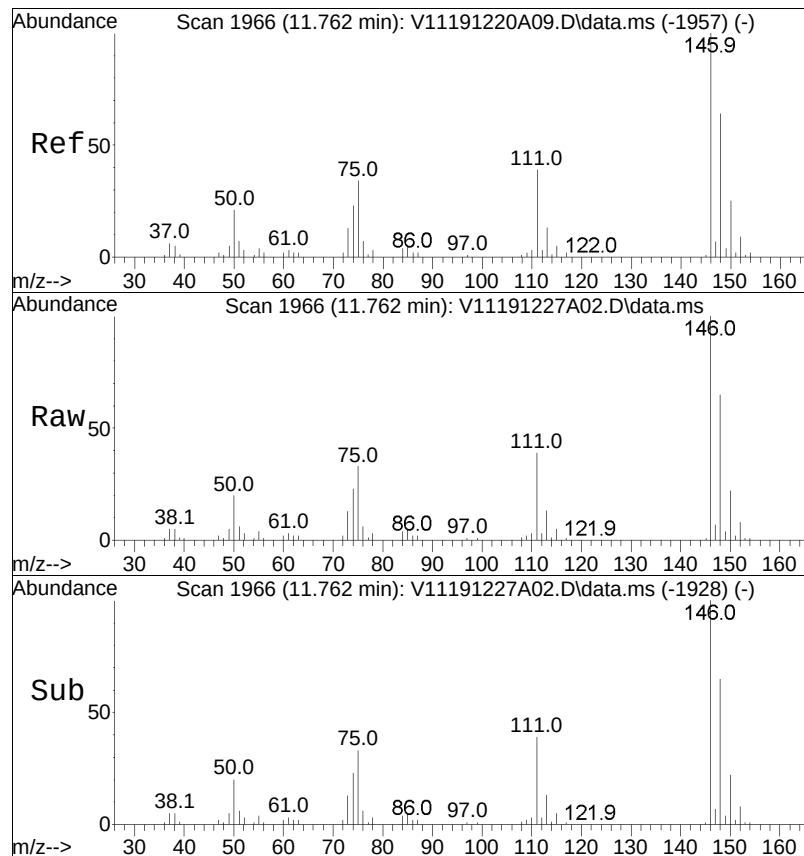




#100  
 1,3-Dichlorobenzene  
 Concen: 41.25 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

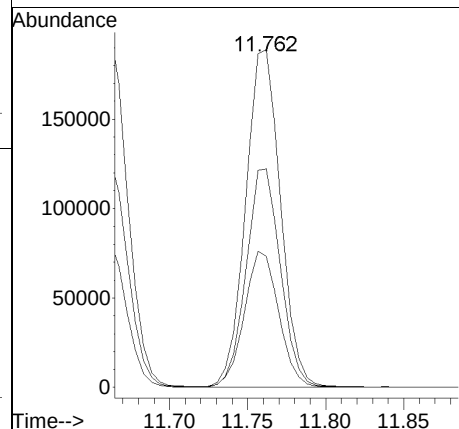
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 146 | 100  |       | 308575 |       |       |
| 111 | 41.3 | 25.6  | 53.2   |       |       |
| 148 | 63.7 | 41.3  | 85.9   |       |       |

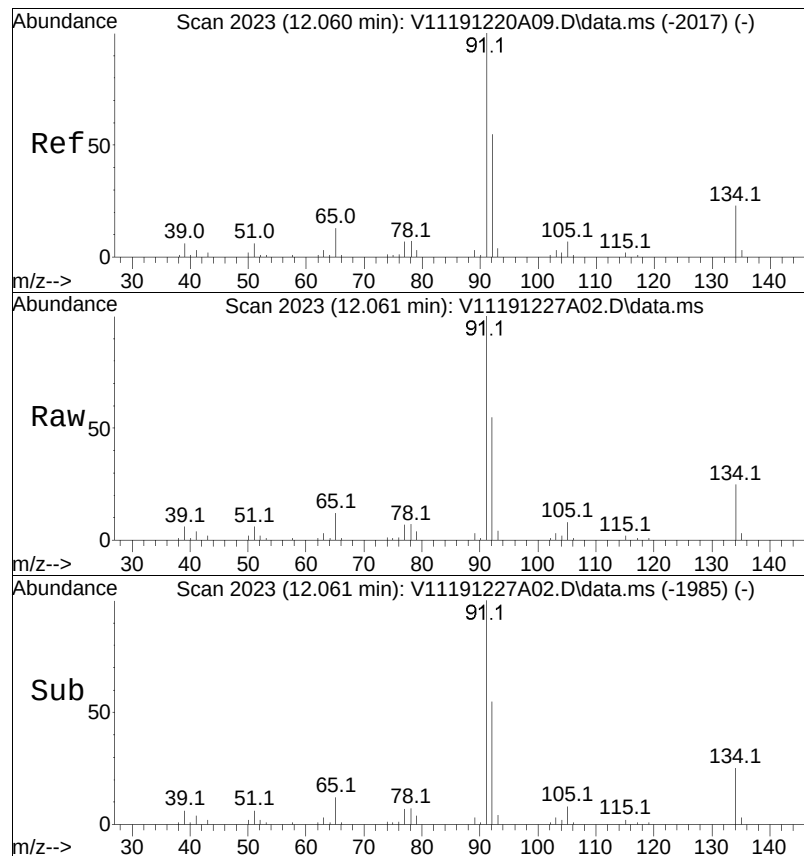




#101  
 1,4-Dichlorobenzene  
 Concen: 38.42 ug/L  
 RT: 11.762 min Scan# 1966  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

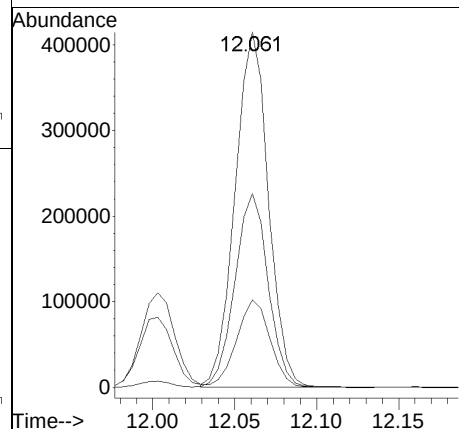
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.2  | 31.4  | 47.0  |
| 148     | 64.2  | 50.7  | 76.1  |

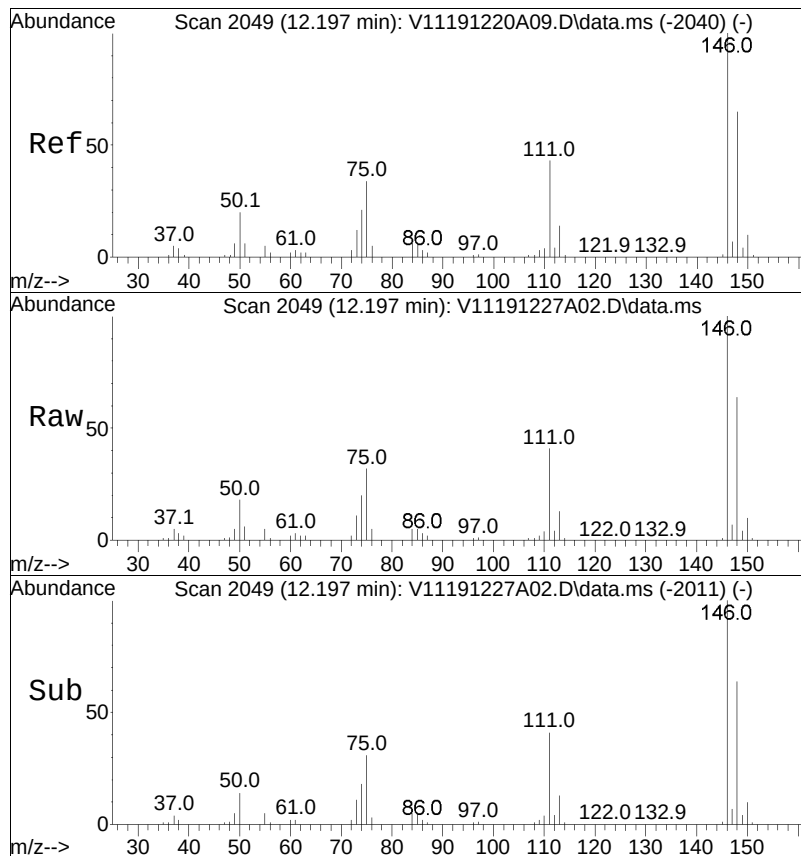




#103  
 n-Butylbenzene  
 Concen: 45.24 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

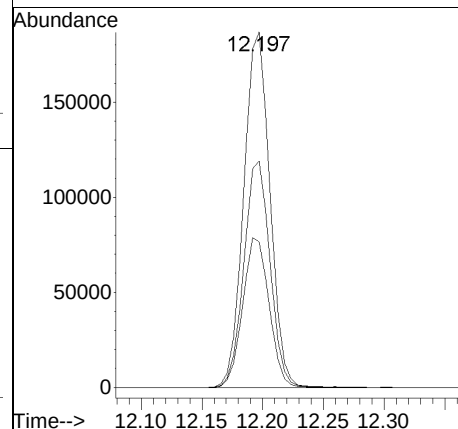
| Tgt Ion:  | 91    | Resp: | 584951 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.5  | 43.3  | 64.9   |
| 134       | 24.8  | 21.4  | 32.0   |

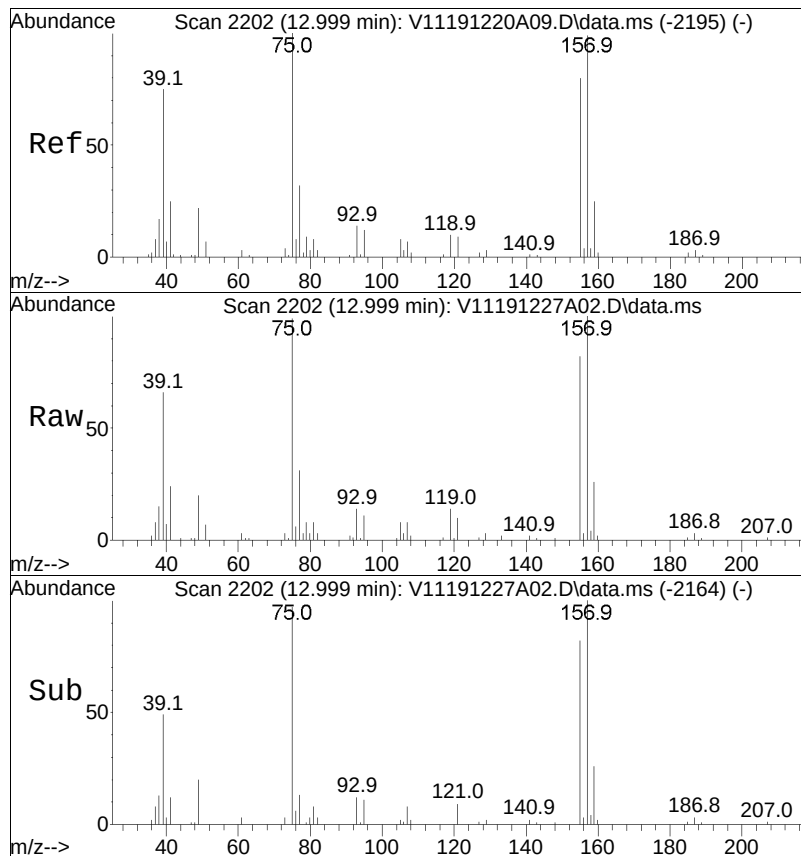




#104  
 1,2-Dichlorobenzene  
 Concen: 40.88 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

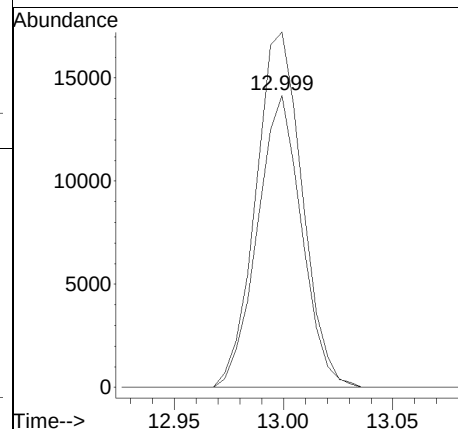
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.5  | 26.9  | 55.9  |
| 148     | 63.7  | 41.2  | 85.6  |

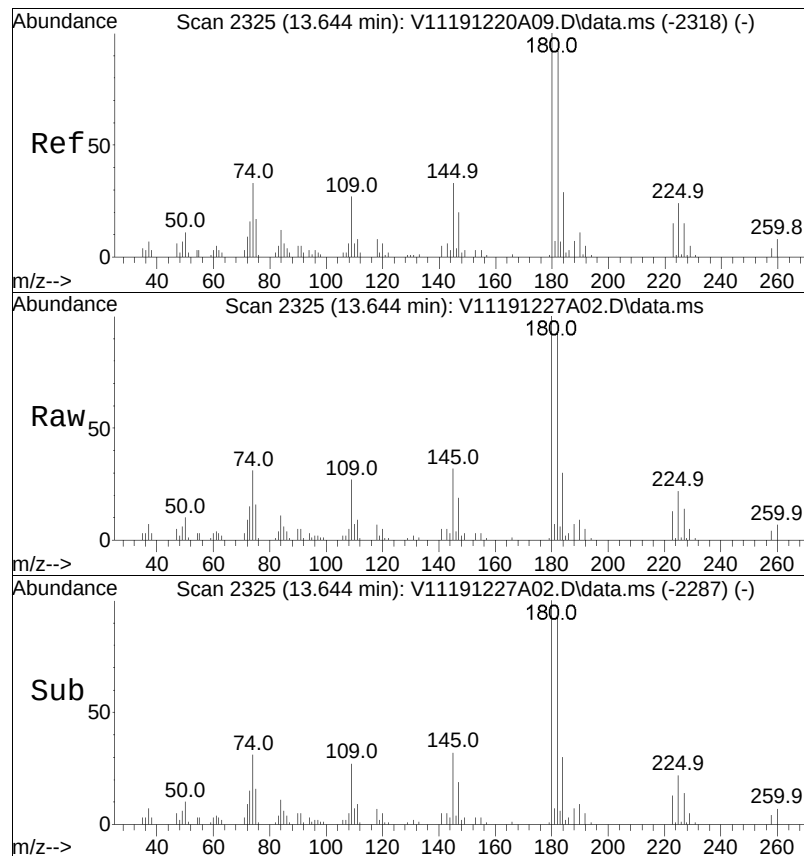




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 40.64 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

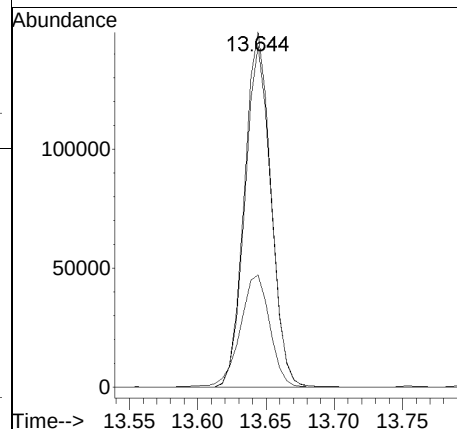
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 155 | 100   |       |       |       |
| 157 | 127.8 | 100.0 | 150.0 |       |

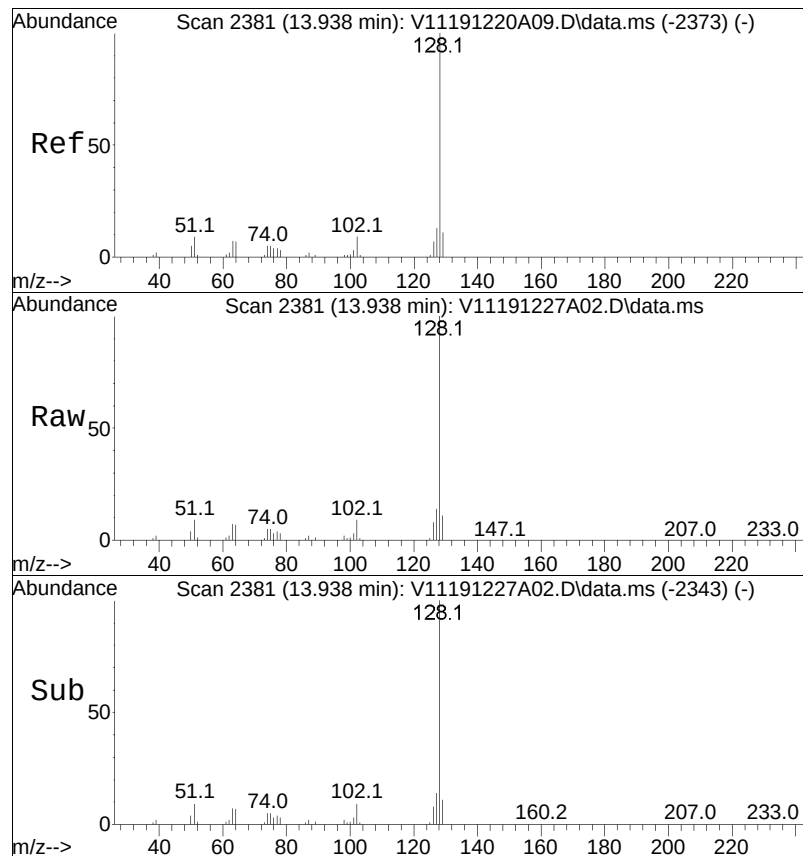




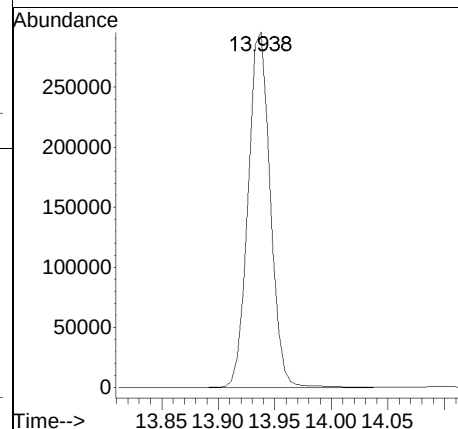
#109  
 1,2,4-Trichlorobenzene  
 Concen: 46.27 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. 0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 75.8  | 113.6 |
| 145     | 35.5  | 29.6  | 44.4  |





#110  
 Naphthalene  
 Concen: 47.00 ug/L  
 RT: 13.938 min Scan# 2381  
 Delta R.T. -0.000 min  
 Lab File: V11191227A02.D  
 Acq: 27 Dec 2019 05:44 am  
 Tgt Ion:128 Resp: 403998



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A02.D Operator : VOA111:MV  
Date Inj'd : 12/27/2019 5:44 am Instrument : VOA111  
Sample : WG1325770-4,31h,15,15,0.1 Quant Date : 12/27/2019 8:31 am

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



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A02.D  
 Acq On : 28 Dec 2019 7:54 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-4,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 08:38:37 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Fluorobenzene             | 6.211          | 96   | 84760      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 92781      |                |      | Recovery = | 91.35%  |       |          |
| 59) Chlorobenzene-d5         | 9.755          | 117  | 66205      | 20.000  | ug/L  | -0.01    |
| Standard Area 1 = 71520      |                |      | Recovery = | 92.57%  |       |          |
| 79) 1,4-Dichlorobenzene-d4   | 12.403         | 152  | 35177      | 20.000  | ug/L  | 0.00     |
| Standard Area 1 = 38760      |                |      | Recovery = | 90.76%  |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 36) Dibromofluoromethane     | 5.398          | 113  | 24845      | 20.664  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 103.32% |       |          |
| 43) 1,2-Dichloroethane-d4    | 5.928          | 65   | 27331      | 19.051  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 95.25%  |       |          |
| 60) Toluene-d8               | 7.909          | 98   | 86458      | 19.119  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 95.59%  |       |          |
| 83) 4-Bromofluorobenzene     | 11.218         | 95   | 35029      | 19.171  | ug/L  | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery = | 95.86%  |       |          |
| Target Compounds             |                |      |            |         |       |          |
|                              |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.723          | 85   | 43681      | 53.440  | ug/L  | # 95     |
| 3) Chloromethane             | 1.927          | 50   | 58056      | 36.382  | ug/L  | 99       |
| 4) Vinyl chloride            | 1.995          | 62   | 78548      | 51.783  | ug/L  | 97       |
| 5) Bromomethane              | 2.320          | 94   | 36039      | 69.749  | ug/L  | 100      |
| 6) Chloroethane              | 2.446          | 64   | 59419      | 76.085  | ug/L  | 95       |
| 7) Trichlorofluoromethane    | 2.588          | 101  | 110864     | 74.758  | ug/L  | 99       |
| 10) 1,1-Dichloroethene       | 3.096          | 96   | 46043      | 42.299  | ug/L  | # 55     |
| 11) Carbon disulfide         | 3.123          | 76   | 150321     | 42.068  | ug/L  | 100      |
| 12) Freon-113                | 3.133          | 101  | 50394      | 44.827  | ug/L  | 86       |
| 15) Methylene chloride       | 3.668          | 84   | 60423      | 38.193  | ug/L  | # 60     |
| 17) Acetone                  | 3.715          | 43   | 19616      | 33.997  | ug/L  | 100      |
| 18) trans-1,2-Dichloroethene | 3.825          | 96   | 54442      | 40.855  | ug/L  | # 75     |
| 19) Methyl acetate           | 3.836          | 43   | 53872      | 34.176  | ug/L  | # 88     |
| 20) Methyl tert-butyl ether  | 3.925          | 73   | 176988     | 39.092  | ug/L  | # 84     |
| 23) 1,1-Dichloroethane       | 4.423          | 63   | 122383     | 38.298  | ug/L  | 96       |
| 28) cis-1,2-Dichloroethene   | 4.952          | 96   | 63592      | 40.256  | ug/L  | # 73     |
| 31) Cyclohexane              | 5.146          | 56   | 112631     | 38.628  | ug/L  | # 64     |
| 32) Chloroform               | 5.215          | 83   | 106999     | 39.335  | ug/L  | # 93     |
| 34) Carbon tetrachloride     | 5.351          | 117  | 78234      | 40.811  | ug/L  | 98       |
| 37) 1,1,1-Trichloroethane    | 5.419          | 97   | 87174      | 39.866  | ug/L  | 88       |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A02.D  
 Acq On : 28 Dec 2019 7:54 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-4,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 08:38:37 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|-------|----------|
| 39)  | 2-Butanone                | 5.513  | 43   | 31356    | 30.236 | ug/L  | # 84     |
| 41)  | Benzene                   | 5.791  | 78   | 226939   | 38.946 | ug/L  | # 90     |
| 44)  | 1,2-Dichloroethane        | 5.996  | 62   | 100759   | 37.700 | ug/L  | 97       |
| 47)  | Methyl cyclohexane        | 6.378  | 83   | 89568    | 40.448 | ug/L  | # 59     |
| 48)  | Trichloroethene           | 6.394  | 95   | 57341    | 39.816 | ug/L  | 93       |
| 51)  | 1,2-Dichloropropane       | 6.934  | 63   | 72522    | 38.111 | ug/L  | 94       |
| 54)  | Bromodichloromethane      | 7.008  | 83   | 88485    | 40.809 | ug/L  | 99       |
| 58)  | cis-1,3-Dichloropropene   | 7.700  | 75   | 104325   | 37.753 | ug/L  | # 83     |
| 61)  | Toluene                   | 7.962  | 92   | 139624   | 36.168 | ug/L  | 100      |
| 62)  | 4-Methyl-2-pentanone      | 8.392  | 58   | 28799    | 31.490 | ug/L  | # 93     |
| 63)  | Tetrachloroethene         | 8.418  | 166  | 54166    | 36.513 | ug/L  | 91       |
| 65)  | trans-1,3-Dichloropropene | 8.449  | 75   | 96723    | 35.719 | ug/L  | 86       |
| 68)  | 1,1,2-Trichloroethane     | 8.638  | 83   | 48808    | 37.955 | ug/L  | 97       |
| 69)  | Chlorodibromomethane      | 8.853  | 129  | 67126    | 38.643 | ug/L  | 97       |
| 71)  | 1,2-Dibromoethane         | 9.131  | 107  | 56394    | 37.678 | ug/L  | 99       |
| 72)  | 2-Hexanone                | 9.409  | 43   | 48813    | 30.030 | ug/L  | 99       |
| 73)  | Chlorobenzene             | 9.781  | 112  | 163199   | 35.910 | ug/L  | 92       |
| 74)  | Ethylbenzene              | 9.807  | 91   | 274369   | 36.763 | ug/L  | 97       |
| 76)  | p/m Xylene                | 9.991  | 106  | 211920   | 75.585 | ug/L  | 92       |
| 77)  | o Xylene                  | 10.520 | 106  | 211868   | 77.326 | ug/L  | 93       |
| 78)  | Styrene                   | 10.589 | 104  | 363493   | 79.265 | ug/L  | 91       |
| 80)  | Bromoform                 | 10.620 | 173  | 44136    | 38.627 | ug/L  | 98       |
| 82)  | Isopropylbenzene          | 10.893 | 105  | 265102   | 37.517 | ug/L  | 96       |
| 85)  | n-Propylbenzene           | 11.359 | 91   | 329106   | 37.705 | ug/L  | 96       |
| 87)  | 1,1,2,2-Tetrachloroethane | 11.454 | 83   | 79981    | 36.565 | ug/L  | 99       |
| 90)  | 1,3,5-Trimethylbenzene    | 11.580 | 105  | 231049   | 37.296 | ug/L  | 96       |
| 94)  | tert-Butylbenzene         | 11.915 | 119  | 187224   | 37.004 | ug/L  | 93       |
| 97)  | 1,2,4-Trimethylbenzene    | 11.994 | 105  | 232107   | 37.397 | ug/L  | 97       |
| 98)  | sec-Butylbenzene          | 12.099 | 105  | 290371   | 37.549 | ug/L  | 98       |
| 99)  | p-Isopropyltoluene        | 12.251 | 119  | 244985   | 37.591 | ug/L  | 97       |
| 100) | 1,3-Dichlorobenzene       | 12.329 | 146  | 134262   | 36.877 | ug/L  | 98       |
| 101) | 1,4-Dichlorobenzene       | 12.418 | 146  | 137871   | 36.122 | ug/L  | 97       |
| 103) | n-Butylbenzene            | 12.675 | 91   | 241305   | 38.254 | ug/L  | 98       |
| 104) | 1,2-Dichlorobenzene       | 12.838 | 146  | 129149   | 36.683 | ug/L  | 97       |
| 106) | 1,2-Dibromo-3-chloropr... | 13.609 | 155  | 11460    | 33.183 | ug/L  | 98       |
| 109) | 1,2,4-Trichlorobenzene    | 14.233 | 180  | 87077    | 35.623 | ug/L  | 97       |
| 110) | Naphthalene               | 14.521 | 128  | 226525   | 35.143 | ug/L  | 100      |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A02.D  
 Acq On : 28 Dec 2019 7:54 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-4,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 08:38:37 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\Charlie\2019\191228A\VC191228A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

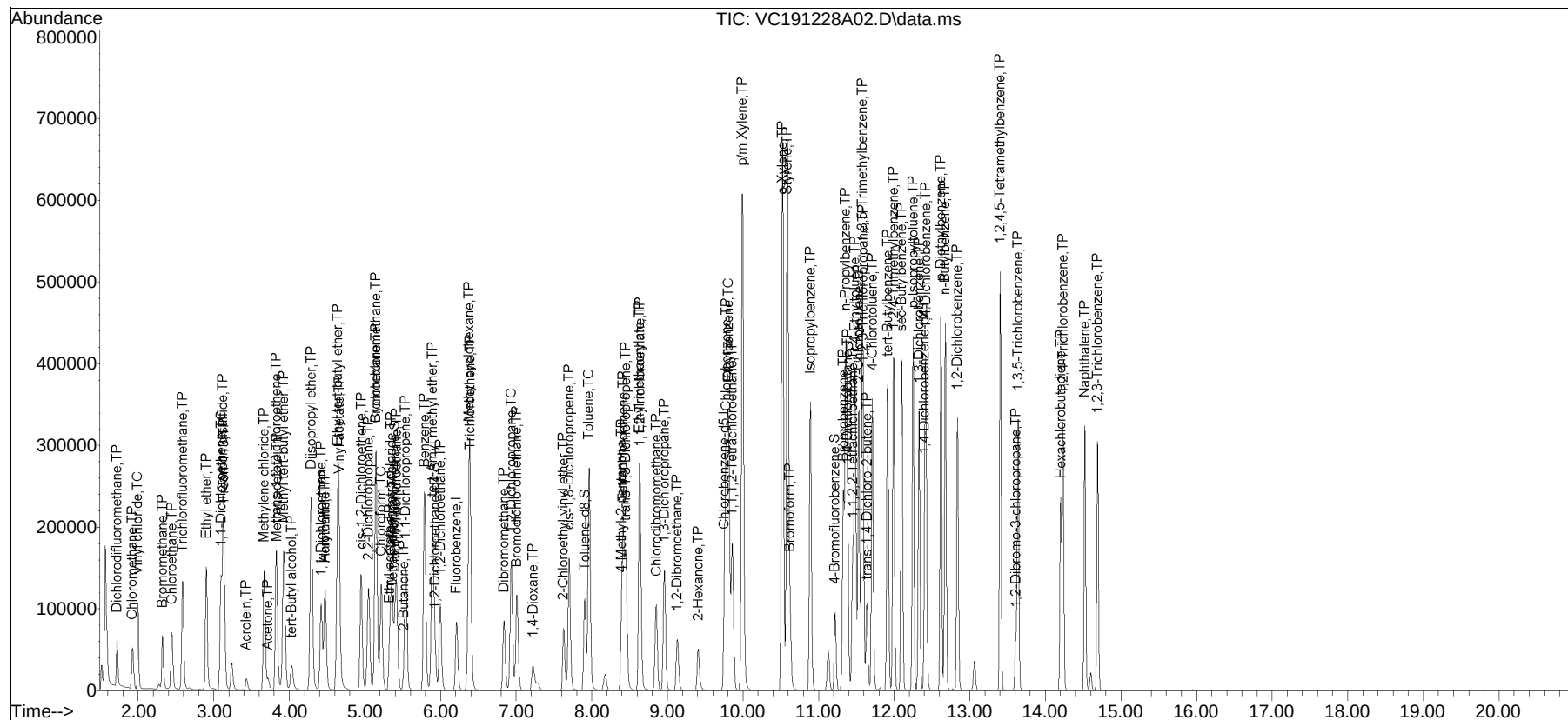
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

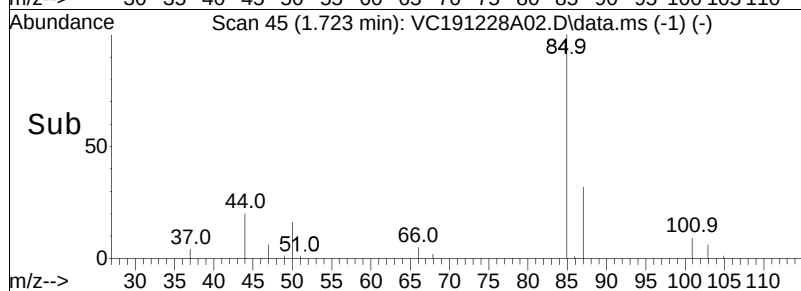
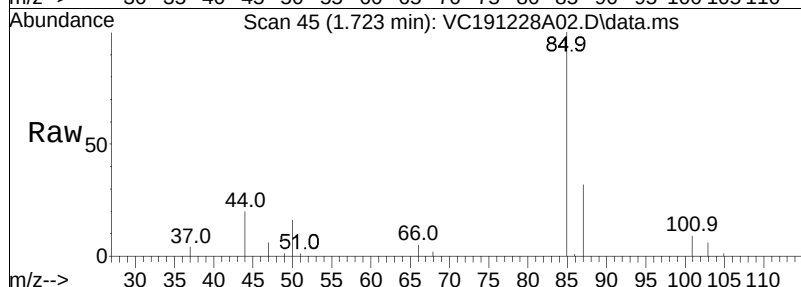
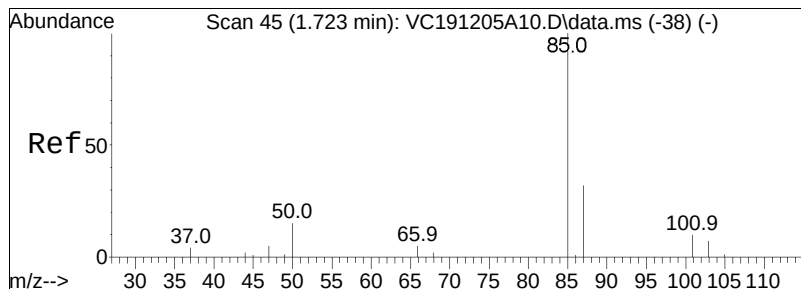
# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\Charlie\2019\191228A\  
 Data File : VC191228A02.D  
 Acq On : 28 Dec 2019 7:54 am  
 Operator : CHARLIE:MKS  
 Sample : WG1325623-4,31,5,5  
 Misc : WG1325623,ICAL16358  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 28 08:38:37 2019  
 Quant Method : I:\VOLATILES\Charlie\2019\191228A\C\_191211N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Dec 12 09:59:41 2019  
 Response via : Initial Calibration

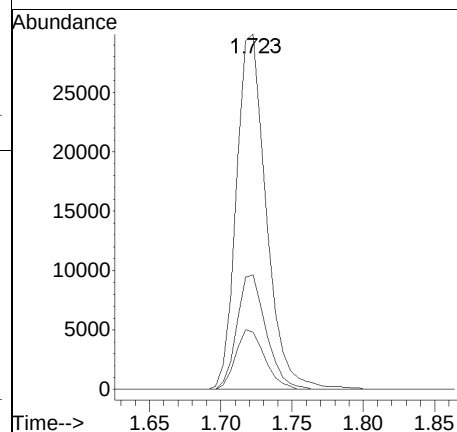
Sub List : 8260-CurveSoil - Megamix plus Diox28A\VC191228A01.D•

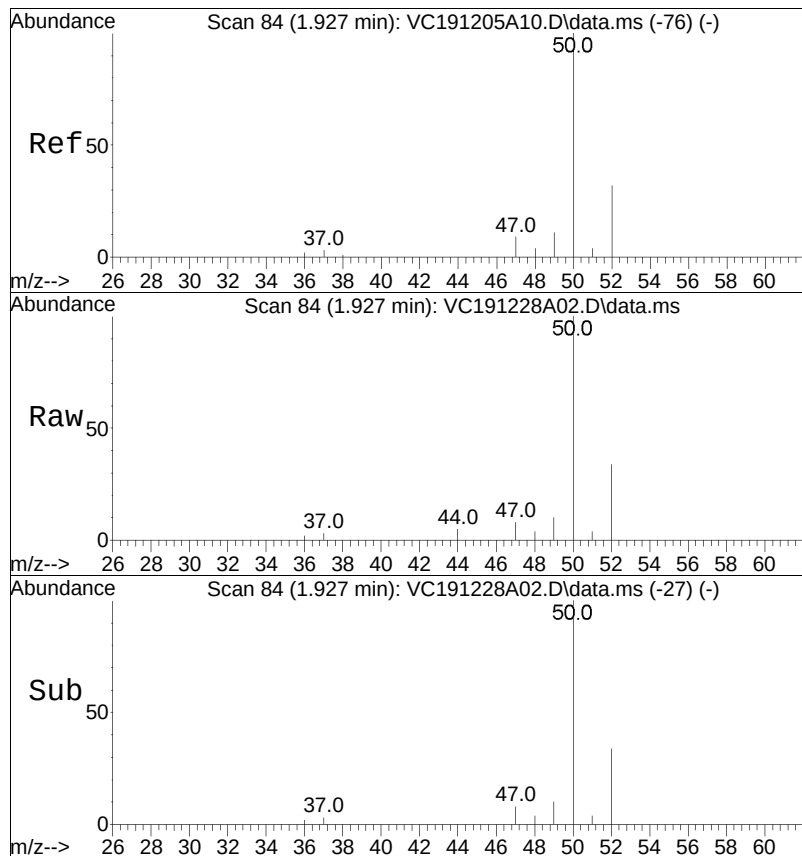




#2  
 Dichlorodifluoromethane  
 Concen: 53.44 ug/L  
 RT: 1.723 min Scan# 45  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

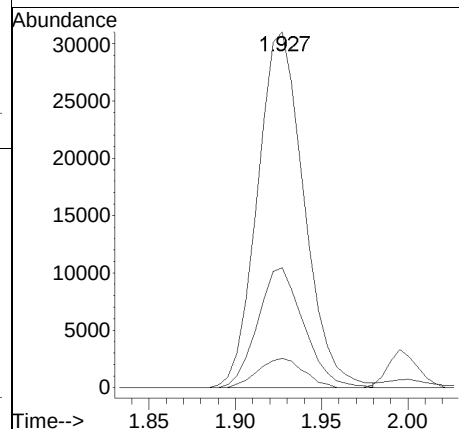
| Tgt Ion | 85 | 87 | 50 | Ratio | 100 | 31.5 | 16.3 | Resp: | 43681 | Lower | 21.0 | 7.0 | Upper | 43.6 | 14.4# |
|---------|----|----|----|-------|-----|------|------|-------|-------|-------|------|-----|-------|------|-------|
|         |    |    |    |       |     |      |      |       |       |       |      |     |       |      |       |

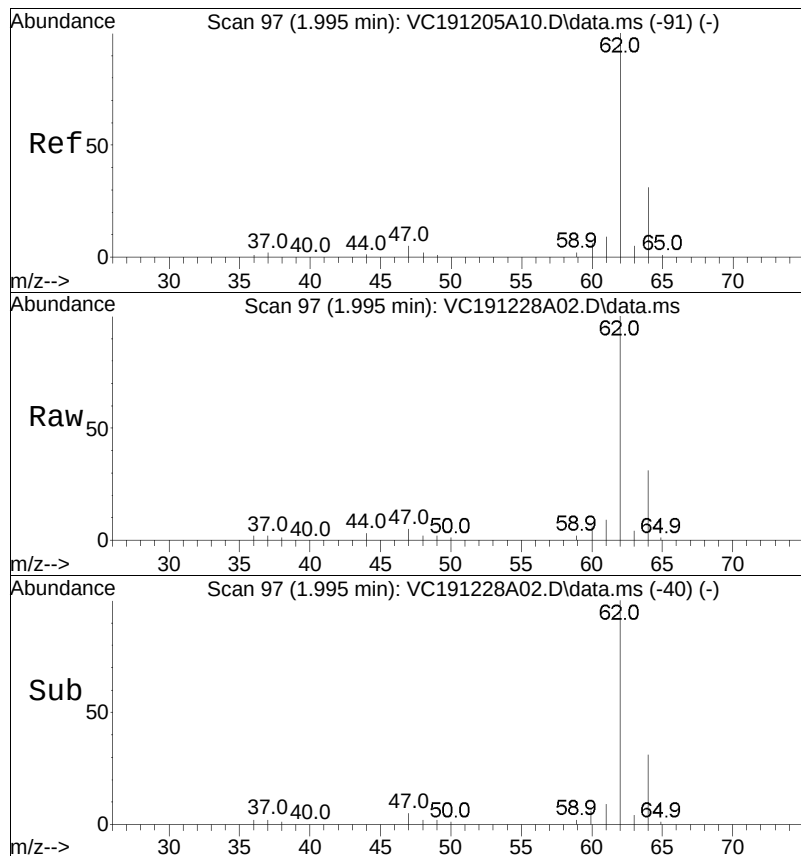




#3  
 Chloromethane  
 Concen: 36.38 ug/L  
 RT: 1.927 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

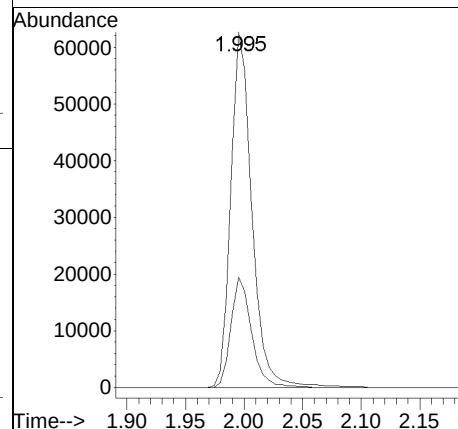
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 50 | Resp: | 58056 |
| Ion | Ratio   | Lower | Upper |
| 50  | 100     |       |       |
| 52  | 33.2    | 13.6  | 53.6  |
| 47  | 8.0     | 0.0   | 28.0  |

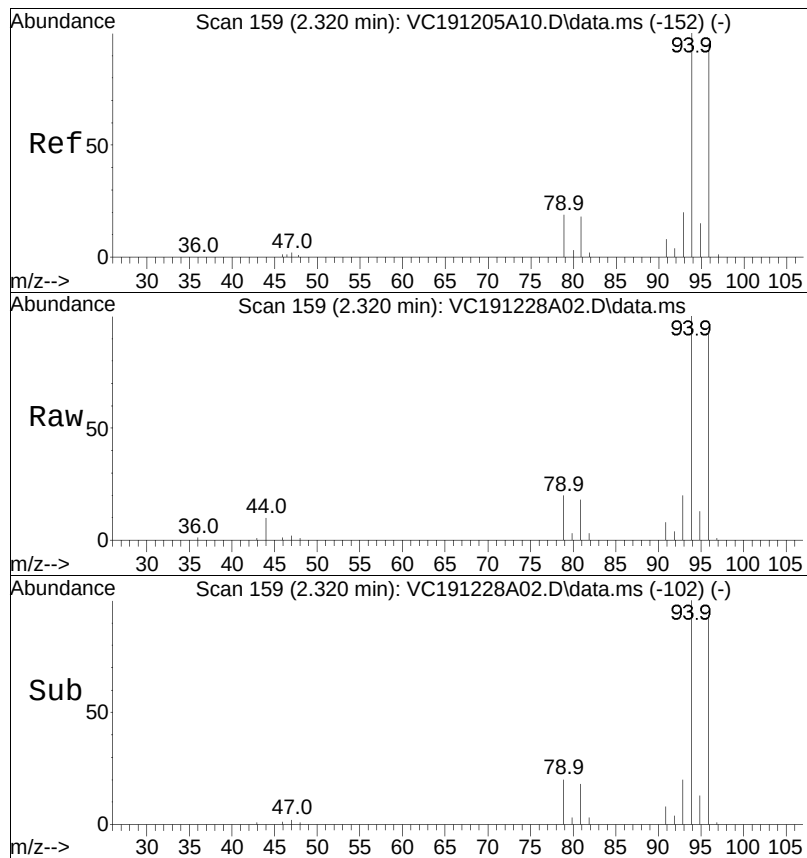




#4  
 Vinyl chloride  
 Concen: 51.78 ug/L  
 RT: 1.995 min Scan# 97  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

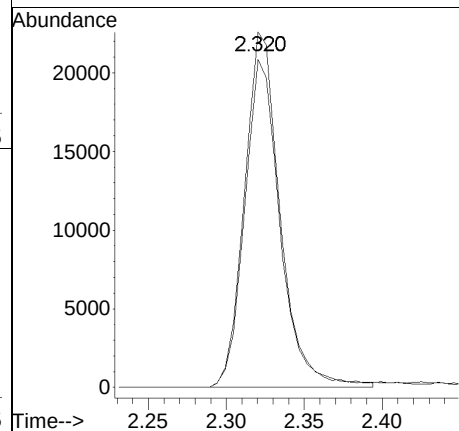
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 30.2  | 11.7  | 51.7  |



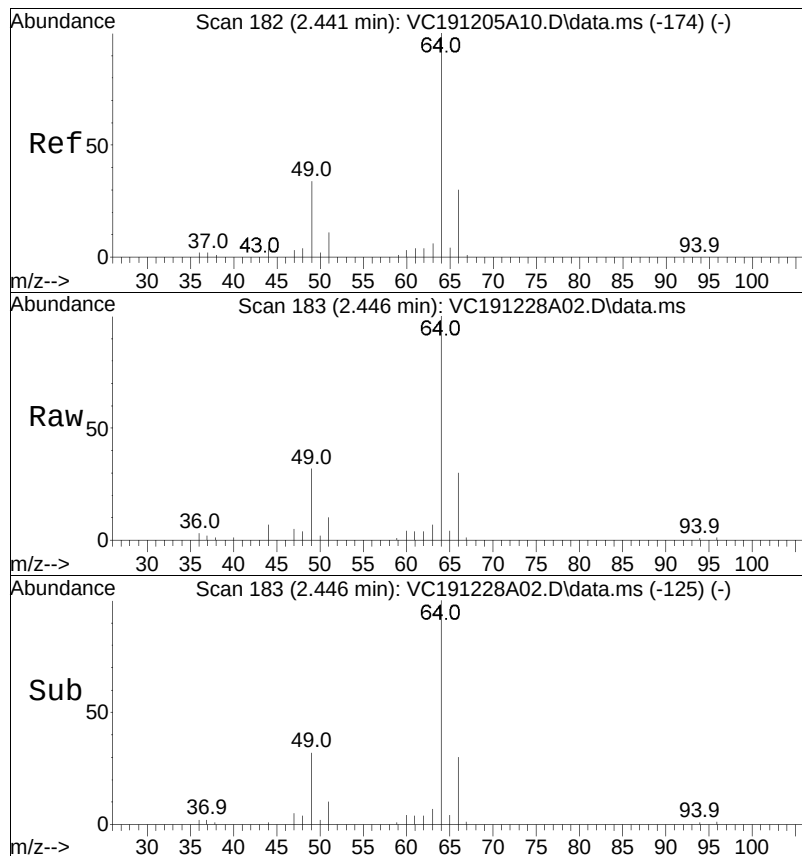


#5  
 Bromomethane  
 Concen: 69.75 ug/L  
 RT: 2.320 min Scan# 159  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

| Tgt Ion   | 94    | Resp  | 36039 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 96        | 93.4  | 73.8  | 113.8 |

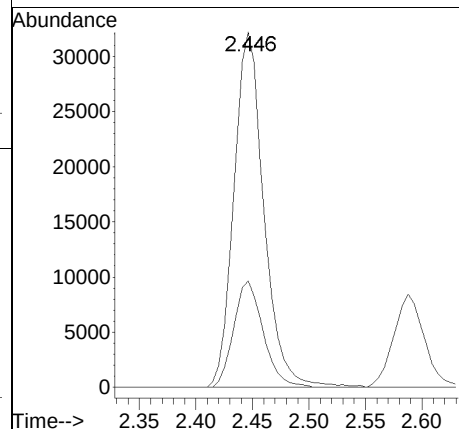


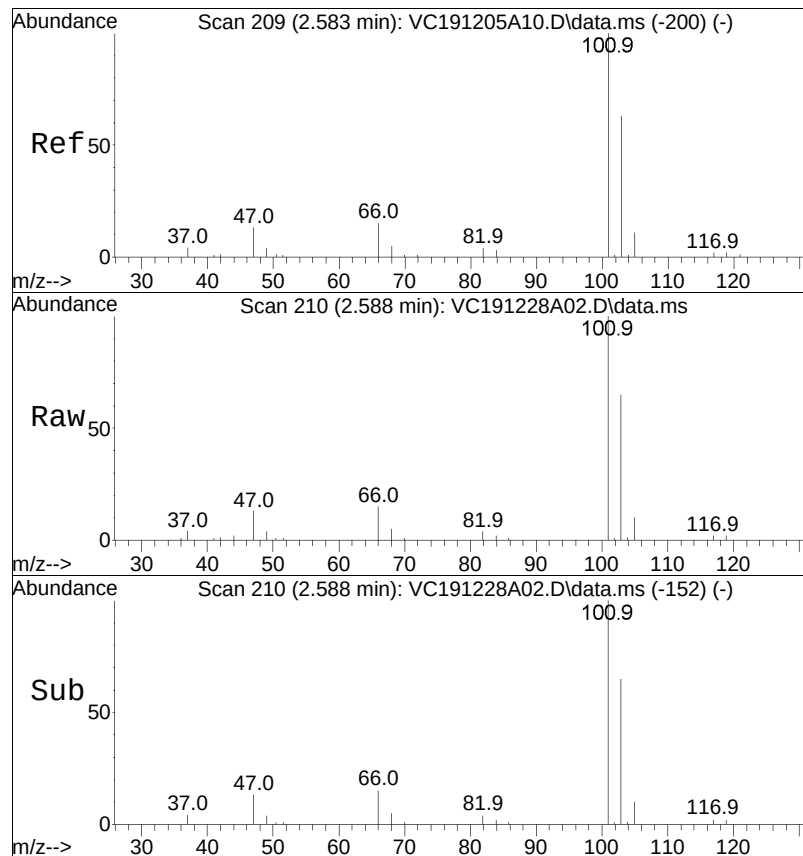




#6  
 Chloroethane  
 Concen: 76.08 ug/L  
 RT: 2.446 min Scan# 183  
 Delta R.T. 0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

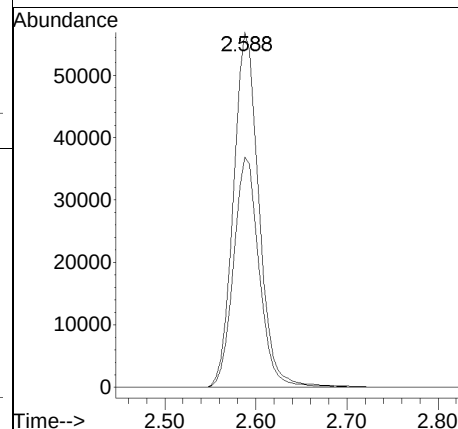
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 64    | Resp: | 59419 |
| Ion Ratio | Lower | Upper |       |
| 64        | 100   |       |       |
| 66        | 29.5  | 12.5  | 52.5  |

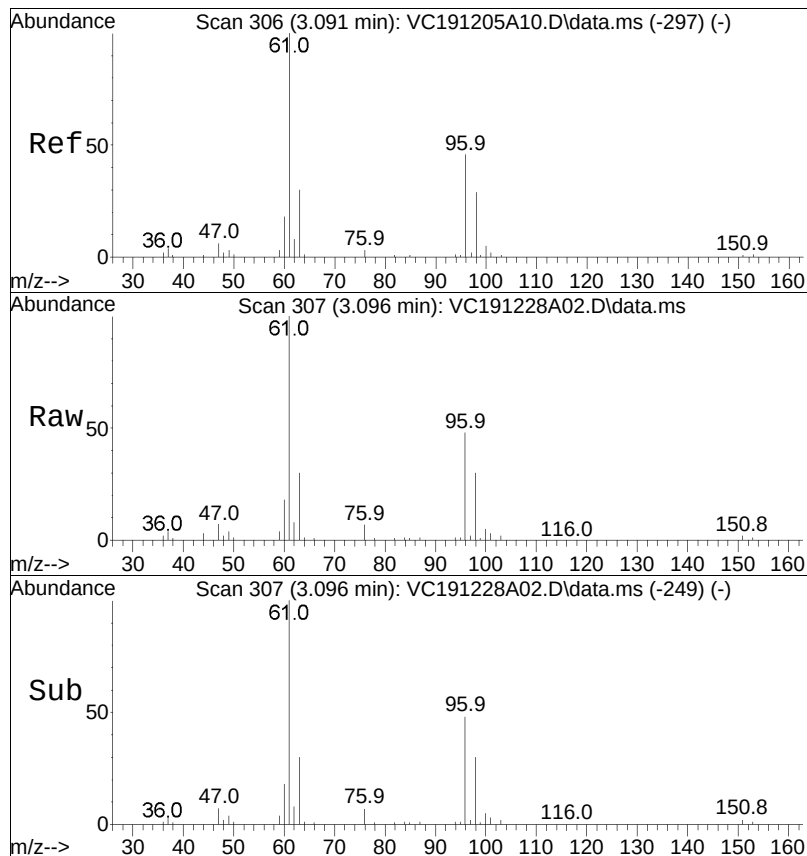




#7  
 Trichlorofluoromethane  
 Concen: 74.76 ug/L  
 RT: 2.588 min Scan# 210  
 Delta R.T. 0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

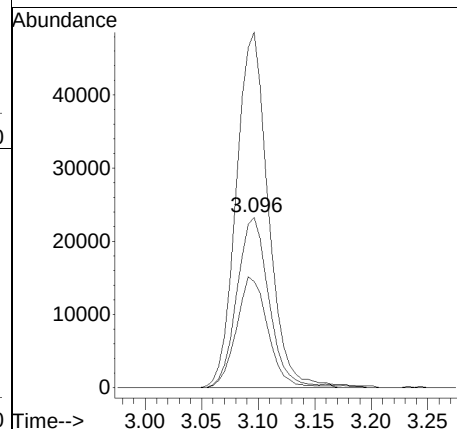
| Tgt Ion   | 101   | Resp  | 110864 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 103       | 65.1  | 51.7  | 77.5   |

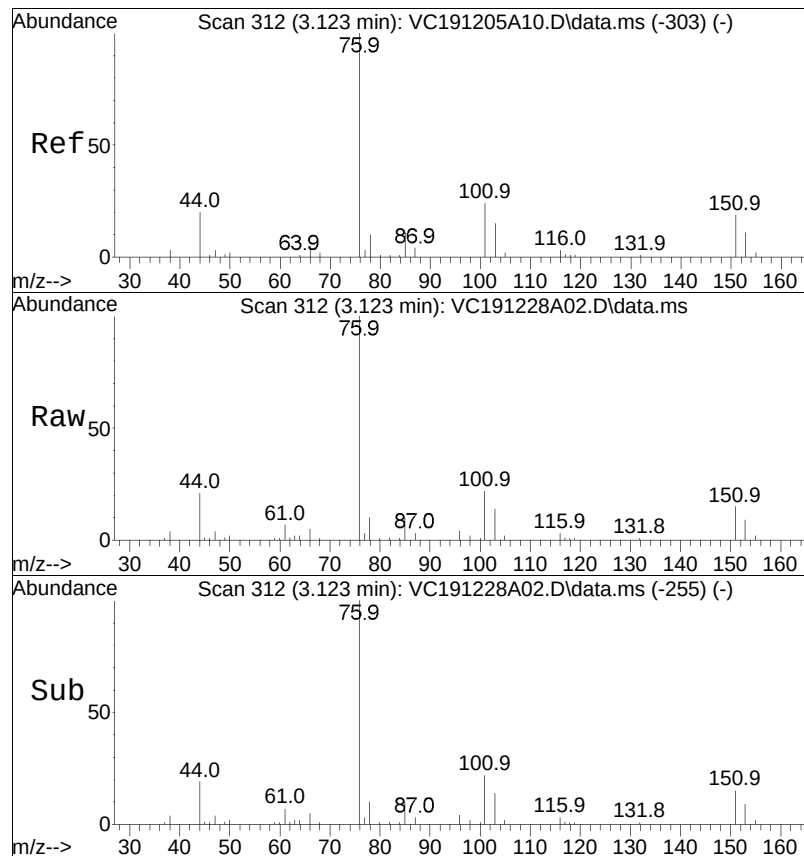




#10  
 1,1-Dichloroethene  
 Concen: 42.30 ug/L  
 RT: 3.096 min Scan# 307  
 Delta R.T. 0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

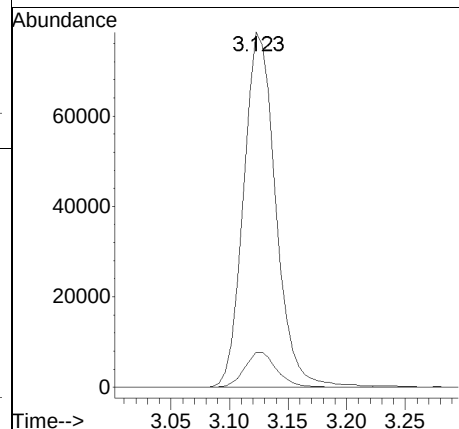
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 46043  |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 208.4 | 116.1 | 174.1# |
| 63        | 63.6  | 37.4  | 56.0#  |

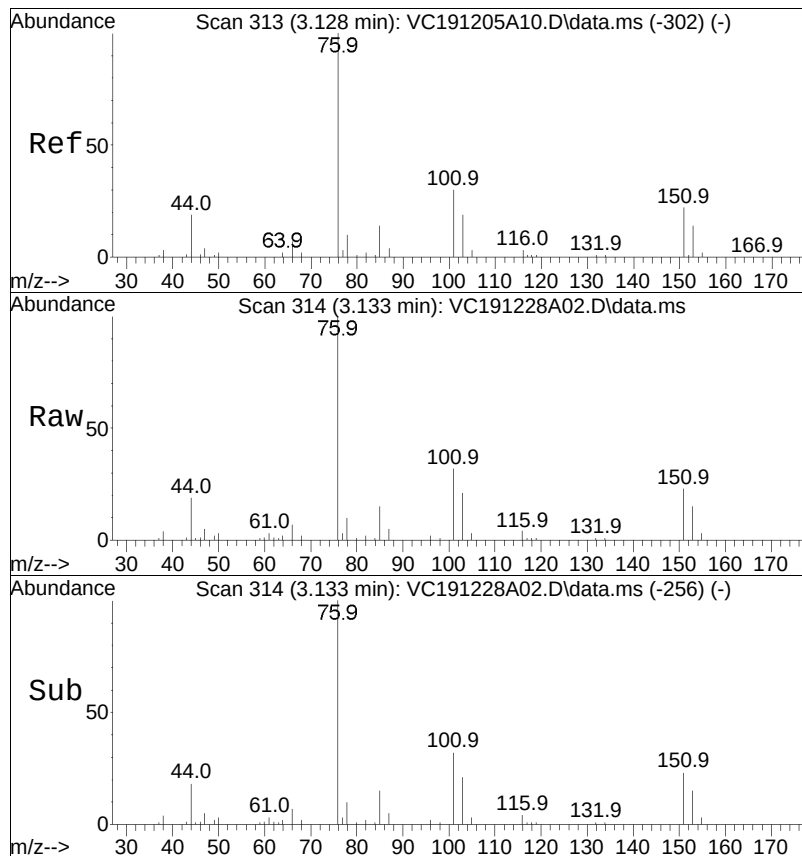




#11  
 Carbon disulfide  
 Concen: 42.07 ug/L  
 RT: 3.123 min Scan# 312  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

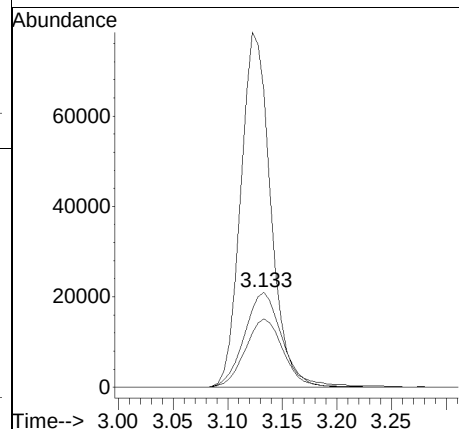
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 10.0  | 6.5   | 13.5  |

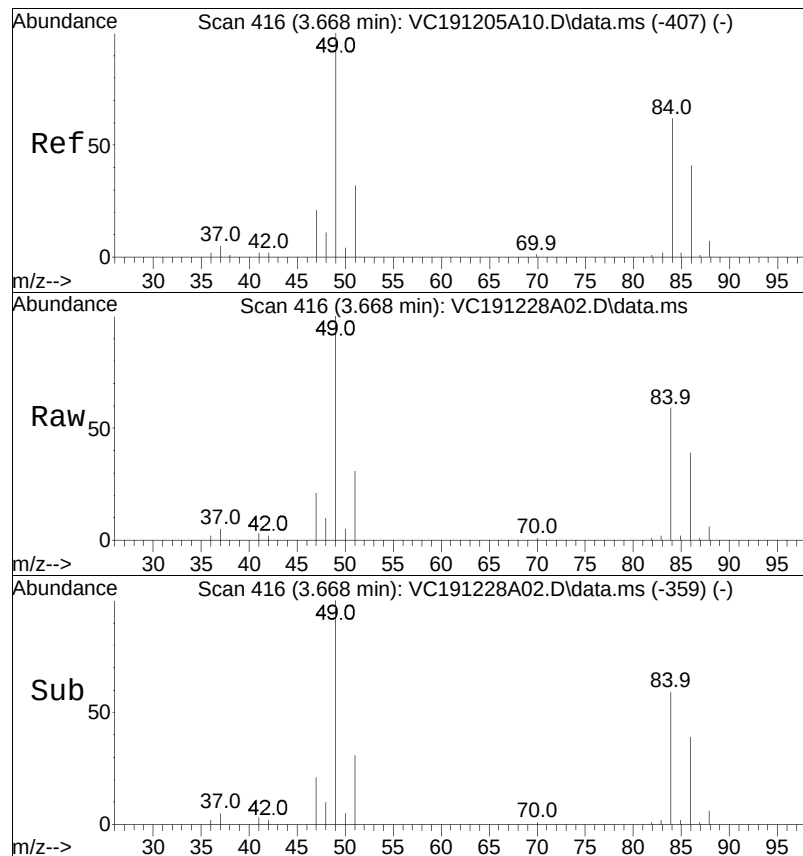




#12  
 Freon-113  
 Concen: 44.83 ug/L  
 RT: 3.133 min Scan# 314  
 Delta R.T. 0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

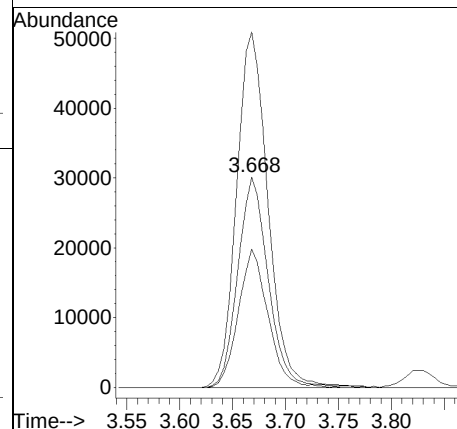
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 101 | 101   | 100   |       |       |
| 151 | 73.2  | 65.0  | 97.6  |       |
| 76  | 298.3 | 215.5 | 323.3 |       |

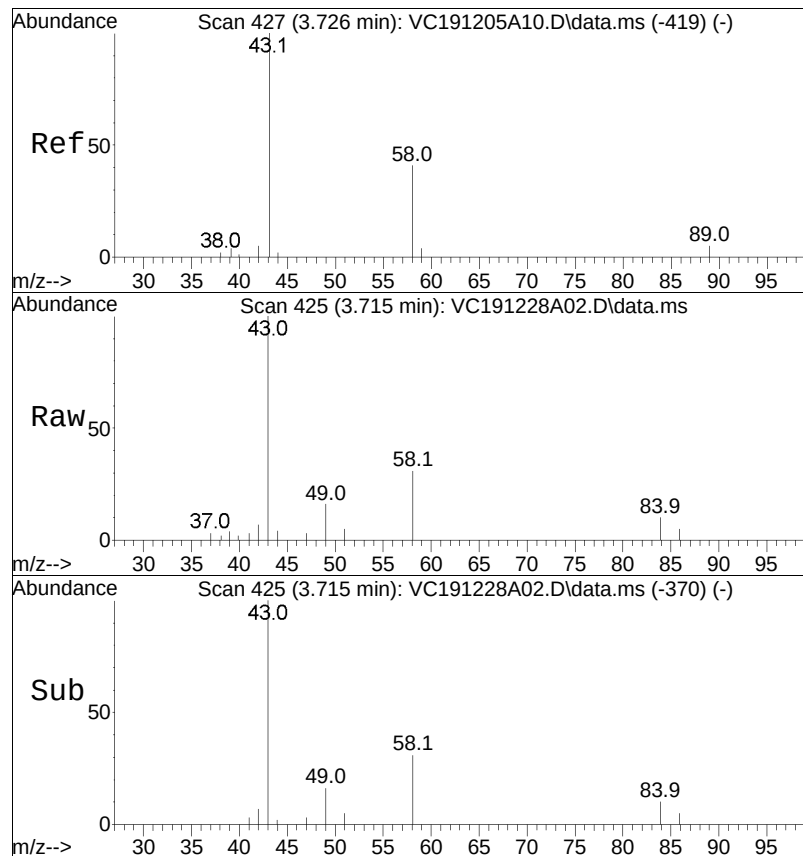




#15  
 Methylene chloride  
 Concen: 38.19 ug/L  
 RT: 3.668 min Scan# 416  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

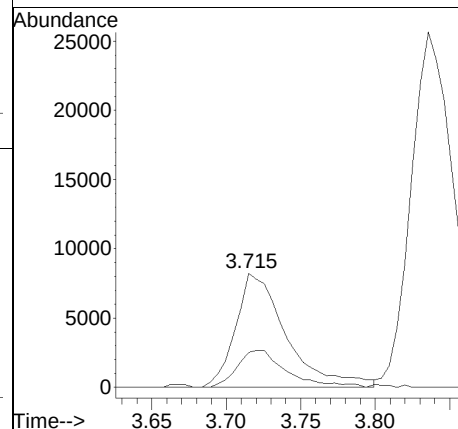
| Tgt | Ion   | Resp | Lower  | Upper |
|-----|-------|------|--------|-------|
| 84  | 100   |      |        |       |
| 86  | 63.9  | 41.9 | 86.9   |       |
| 49  | 174.0 | 70.3 | 146.1# |       |

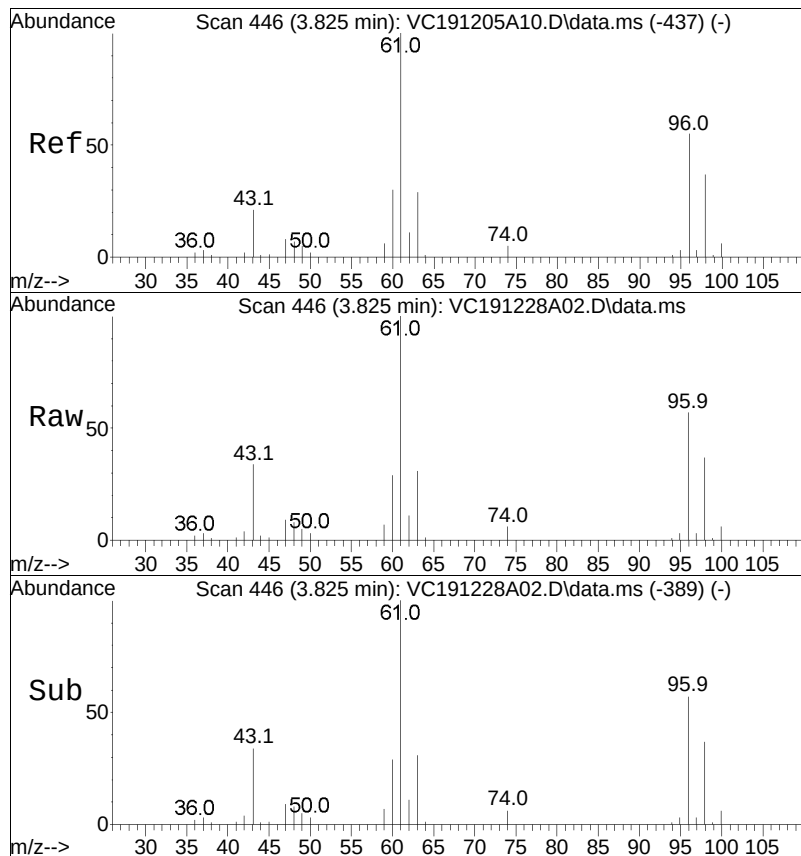




#17  
 Acetone  
 Concen: 34.00 ug/L  
 RT: 3.715 min Scan# 425  
 Delta R.T. -0.011 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

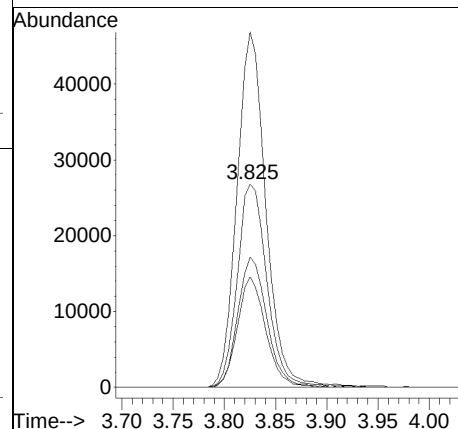
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 31.7  | 25.4  | 38.2  |



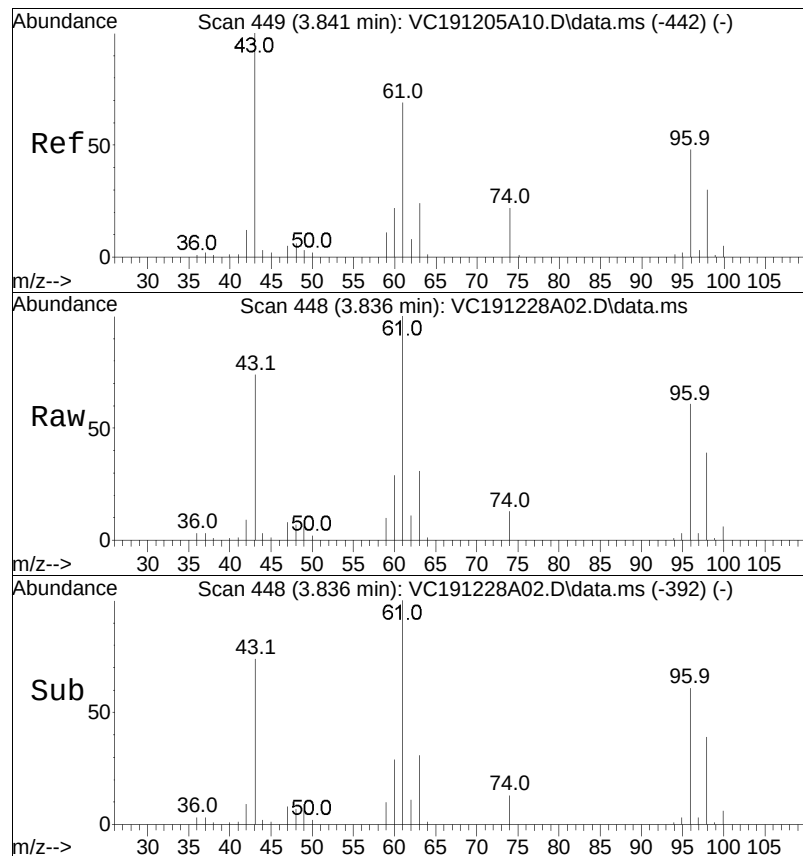


#18  
 trans-1,2-Dichloroethene  
 Concen: 40.85 ug/L  
 RT: 3.825 min Scan# 446  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 54442  |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 169.7 | 81.6  | 169.4# |
| 98        | 62.4  | 41.5  | 86.1   |
| 63        | 51.6  | 26.1  | 54.1   |

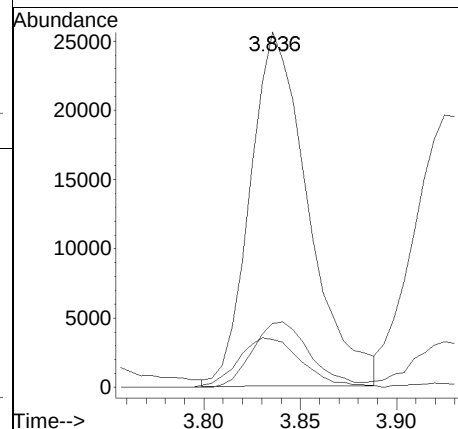


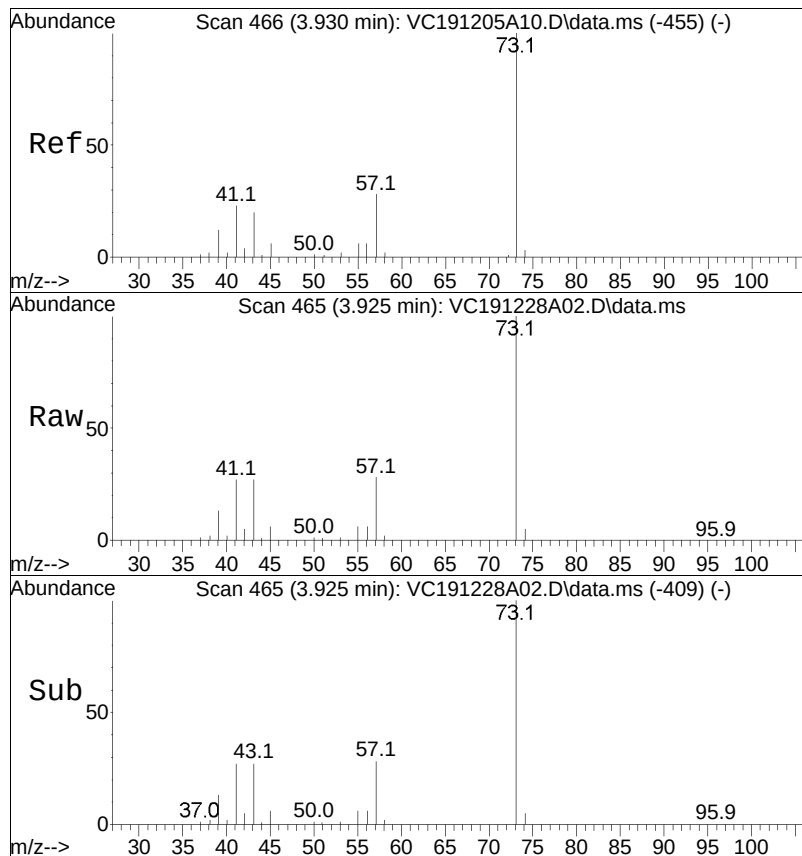




#19  
Methyl acetate  
Concen: 34.18 ug/L  
RT: 3.836 min Scan# 448  
Delta R.T. -0.005 min  
Lab File: VC191228A02.D  
Acq: 28 Dec 2019 7:54 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 53872 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 74        | 18.3  | 21.9  | 32.9# |
| 59        | 15.2  | 13.0  | 19.6  |





#20

Methyl tert-butyl ether

Concen: 39.09 ug/L

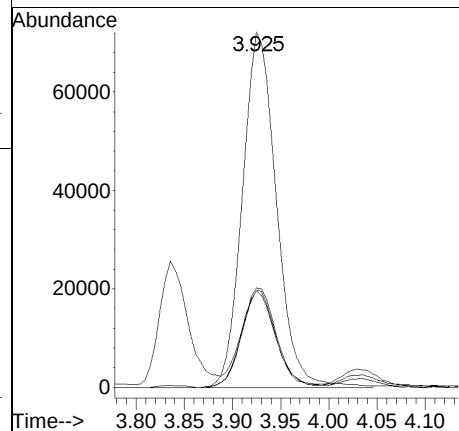
RT: 3.925 min Scan# 465

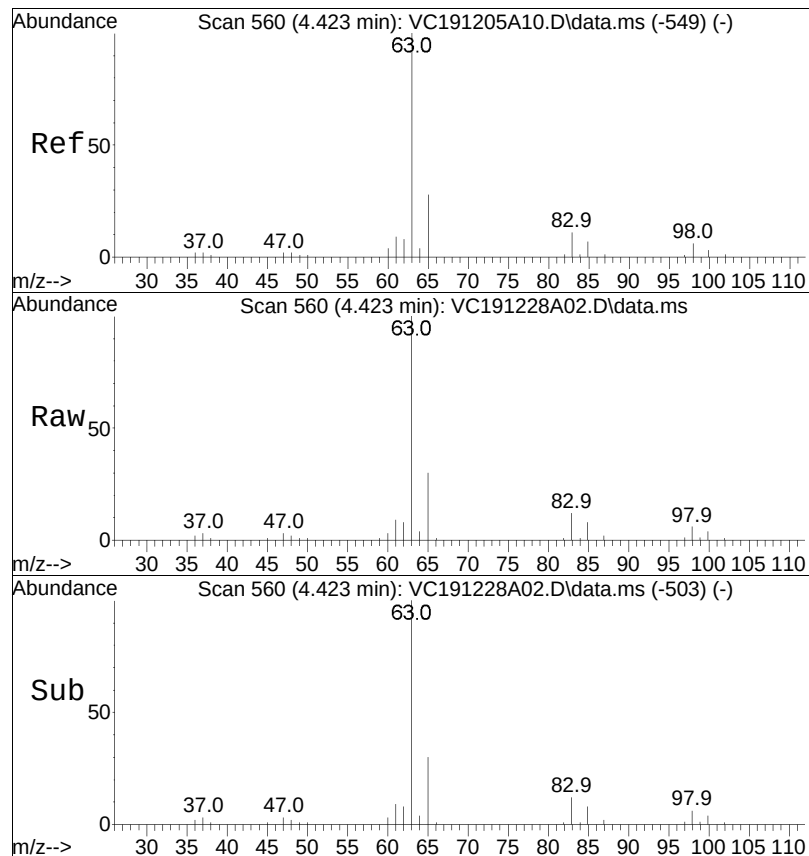
Delta R.T. -0.005 min

Lab File: VC191228A02.D

Acq: 28 Dec 2019 7:54 am

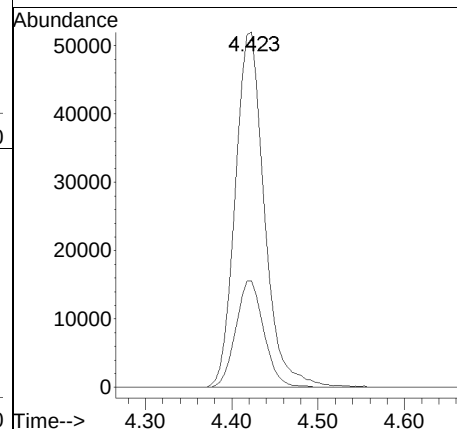
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 73 | Resp: | 176988 |
| Ion | Ratio   | Lower | Upper  |
| 73  | 100     |       |        |
| 57  | 28.5    | 13.3  | 27.7#  |
| 43  | 28.3    | 13.0  | 27.0#  |
| 41  | 27.0    | 13.5  | 28.1   |

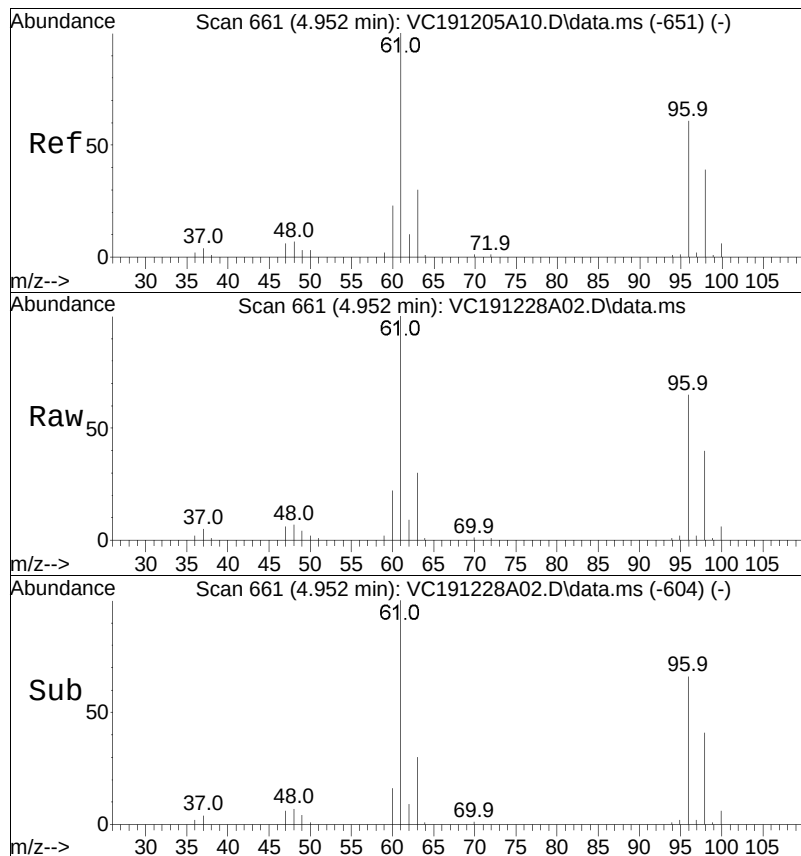




#23  
 1,1-Dichloroethane  
 Concen: 38.30 ug/L  
 RT: 4.423 min Scan# 560  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

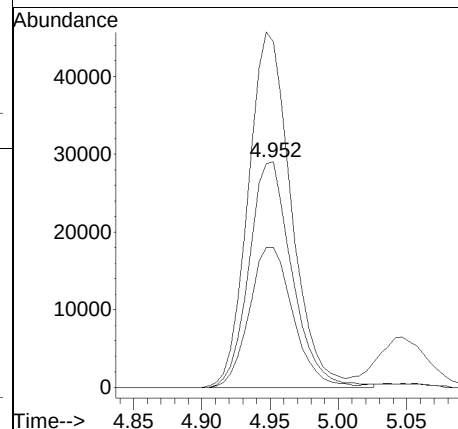
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 28.9  | 11.2  | 51.2  |
| 65      | 28.9  | 11.2  | 51.2  |

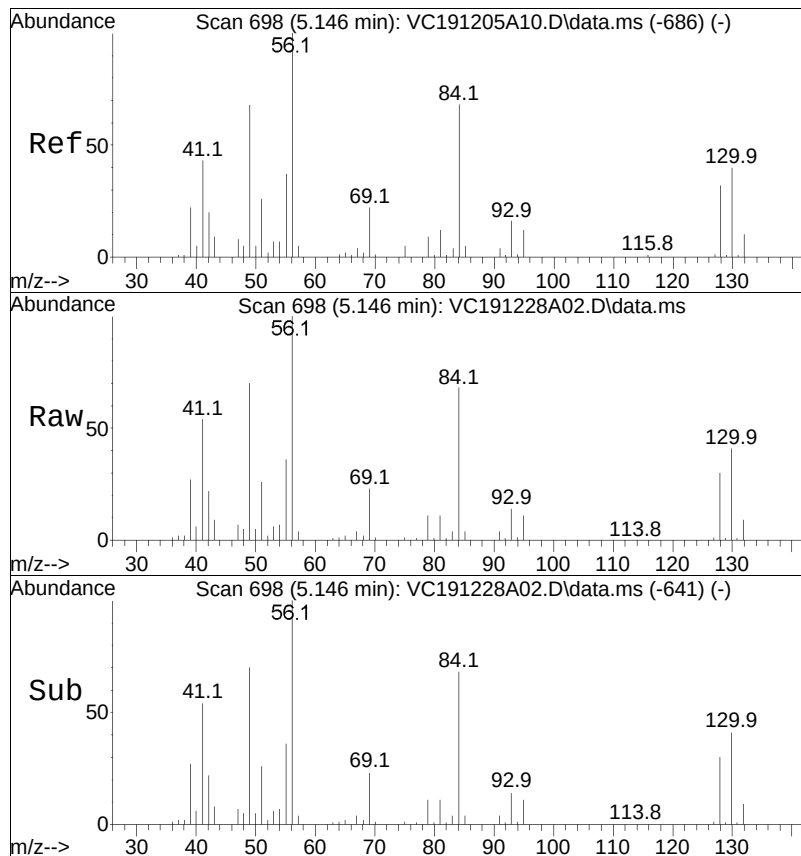




#28  
 cis-1,2-Dichloroethene  
 Concen: 40.26 ug/L  
 RT: 4.952 min Scan# 661  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

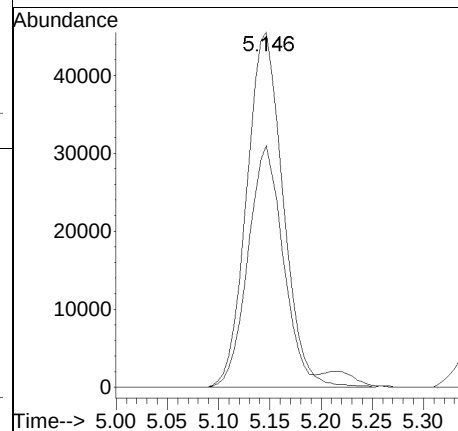
| Tgt Ion | Ratio | Resp  | Lower | Upper  |
|---------|-------|-------|-------|--------|
| 96      | 100   | 63592 |       |        |
| 61      | 156.5 |       | 89.6  | 134.4# |
| 98      | 63.3  |       | 51.5  | 77.3   |

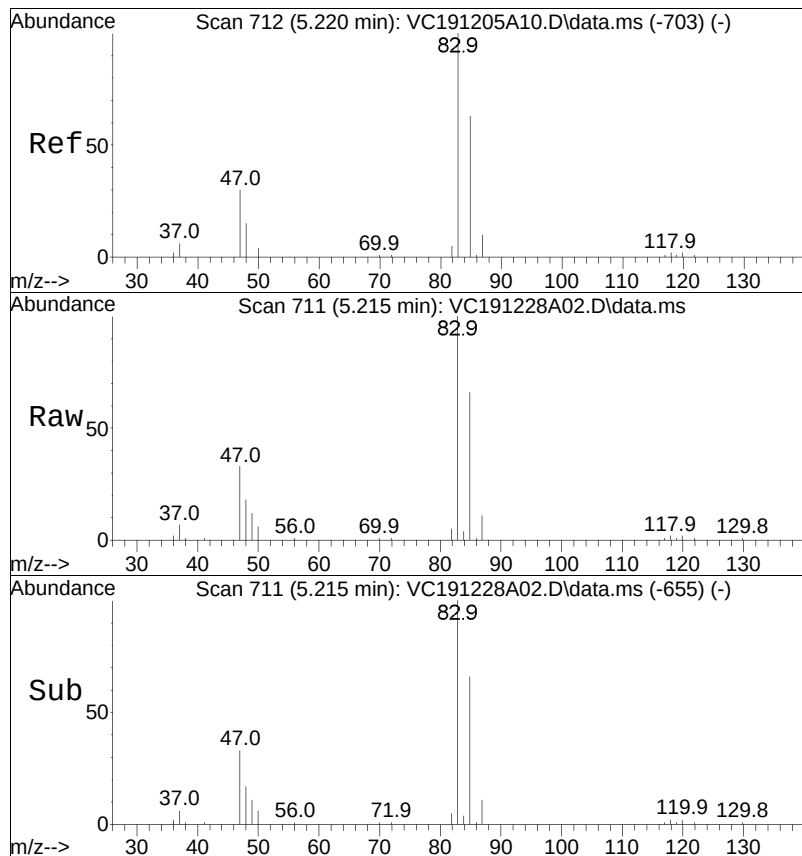




#31  
Cyclohexane  
Concen: 38.63 ug/L  
RT: 5.146 min Scan# 698  
Delta R.T. 0.000 min  
Lab File: VC191228A02.D  
Acq: 28 Dec 2019 7:54 am

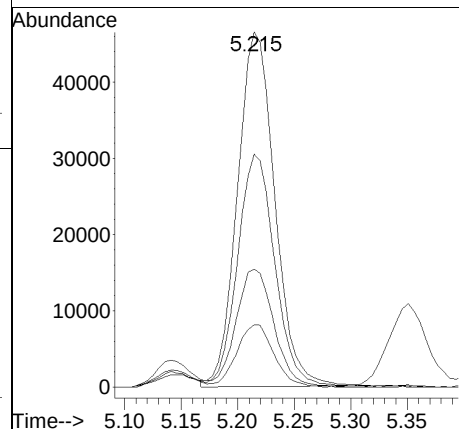
| Tgt | Ion  | Ratio | Lower  | Upper |
|-----|------|-------|--------|-------|
| 56  | 100  |       |        |       |
| 84  | 65.7 | 66.0  | 137.2# |       |

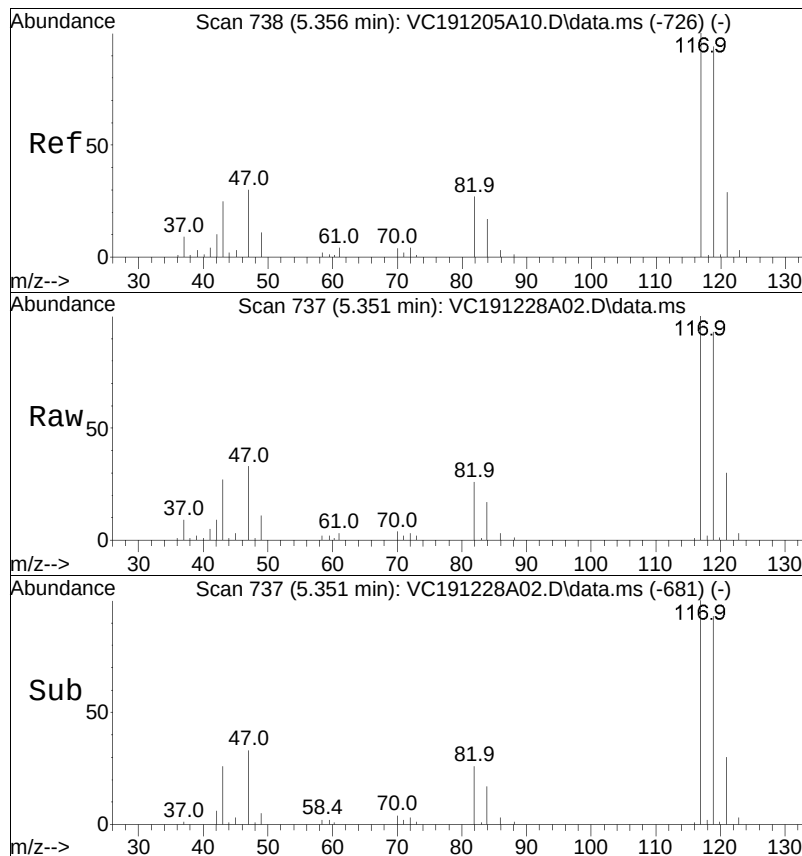




#32  
 Chloroform  
 Concen: 39.33 ug/L  
 RT: 5.215 min Scan# 711  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

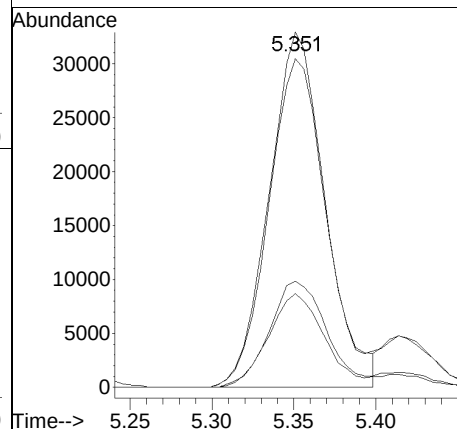
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 106999 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 66.2  | 42.8  | 89.0   |
| 47        | 34.2  | 15.0  | 31.2#  |
| 48        | 17.9  | 7.5   | 15.5#  |

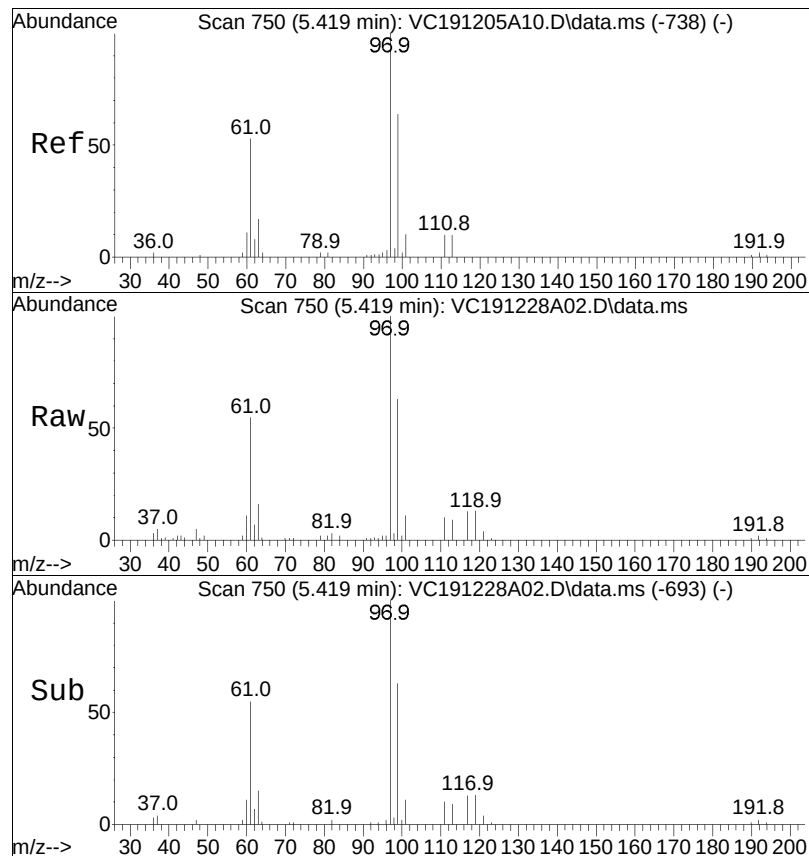




#34  
 Carbon tetrachloride  
 Concen: 40.81 ug/L  
 RT: 5.351 min Scan# 737  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

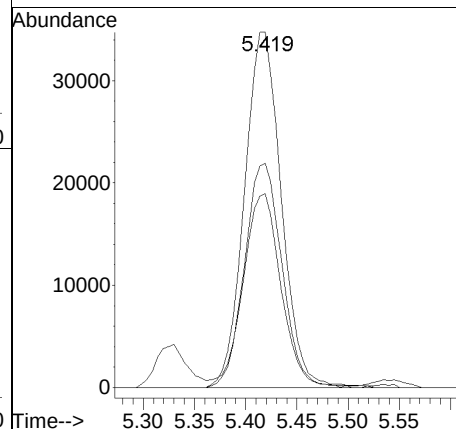
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 78234 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 93.9  | 62.5  | 129.9 |
| 121       | 30.8  | 20.2  | 41.9  |
| 82        | 26.4  | 15.5  | 32.1  |



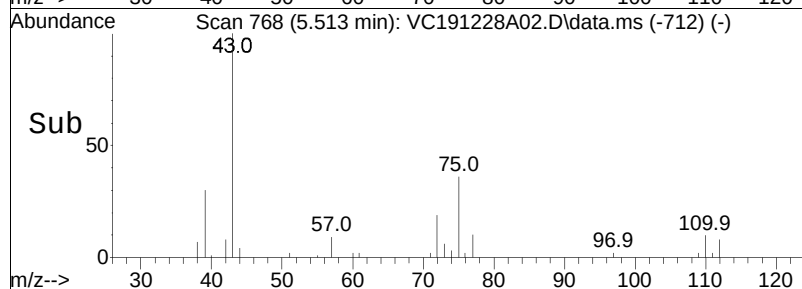
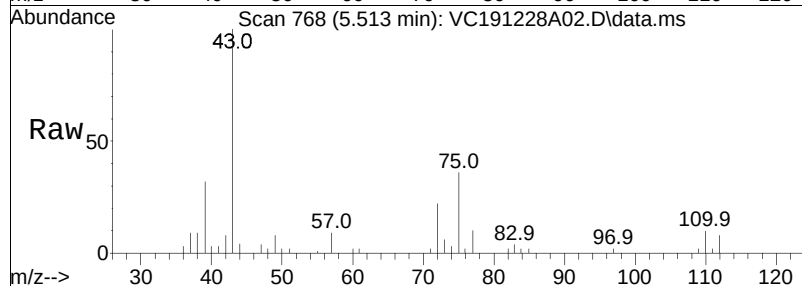
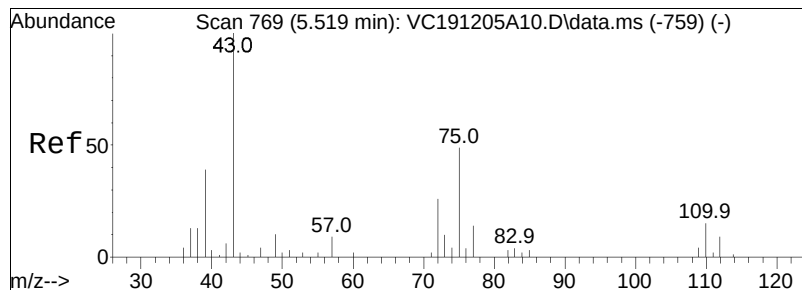


#37  
 1,1,1-Trichloroethane  
 Concen: 39.87 ug/L  
 RT: 5.419 min Scan# 750  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 97    | Resp: | 87174 |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 63.9  | 41.2  | 85.6  |
| 61        | 55.8  | 27.8  | 57.8  |
| 61        | 55.8  | 27.8  | 57.8  |







#39

2-Butanone

Concen: 30.24 ug/L

RT: 5.513 min Scan# 768

Delta R.T. -0.006 min

Lab File: VC191228A02.D

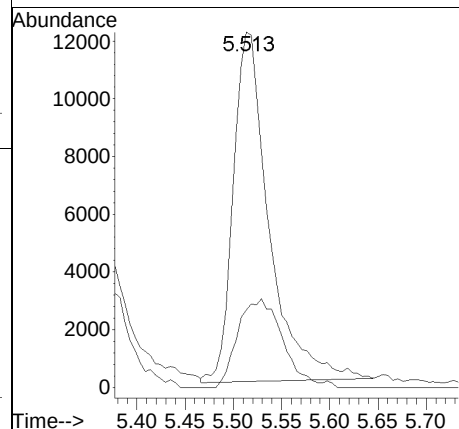
Acq: 28 Dec 2019 7:54 am

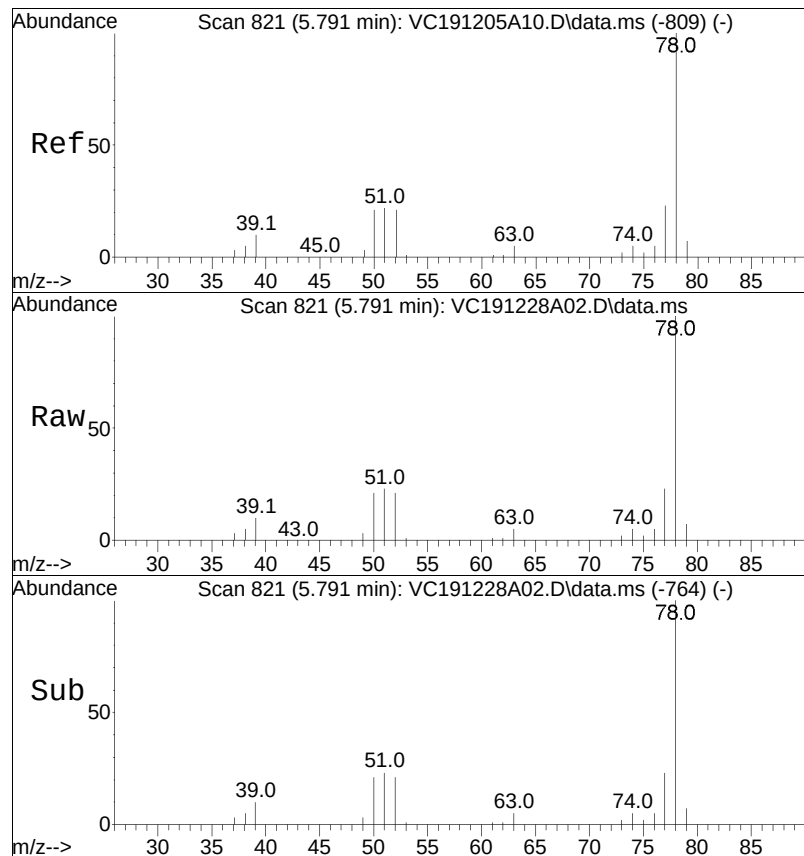
Tgt Ion: 43 Resp: 31356

Ion Ratio Lower Upper

43 100

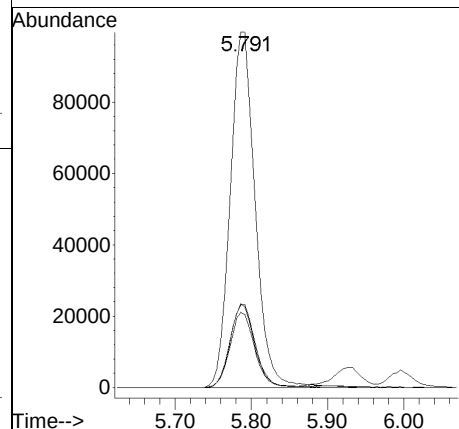
72 31.7 33.3 49.9#

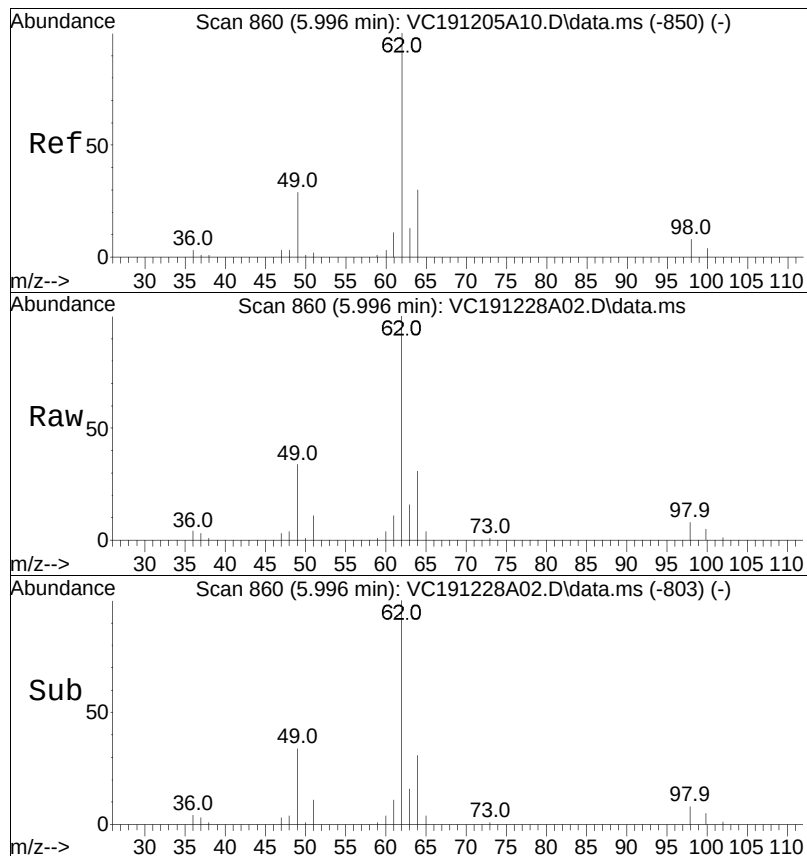




#41  
Benzene  
Concen: 38.95 ug/L  
RT: 5.791 min Scan# 821  
Delta R.T. 0.000 min  
Lab File: VC191228A02.D  
Acq: 28 Dec 2019 7:54 am

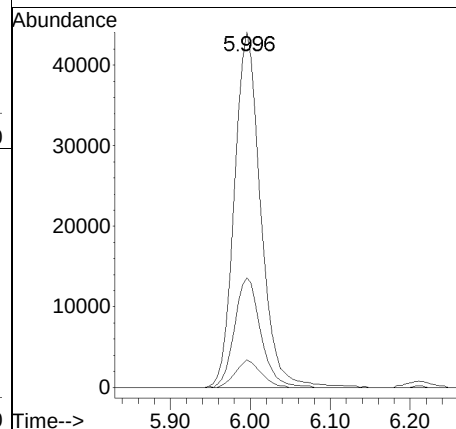
|             |              |
|-------------|--------------|
| Tgt Ion: 78 | Resp: 226939 |
| Ion Ratio   | Lower Upper  |
| 78 100      |              |
| 77 23.5     | 15.3 31.9    |
| 51 23.1     | 9.8 20.4#    |
| 52 20.8     | 9.0 18.8#    |

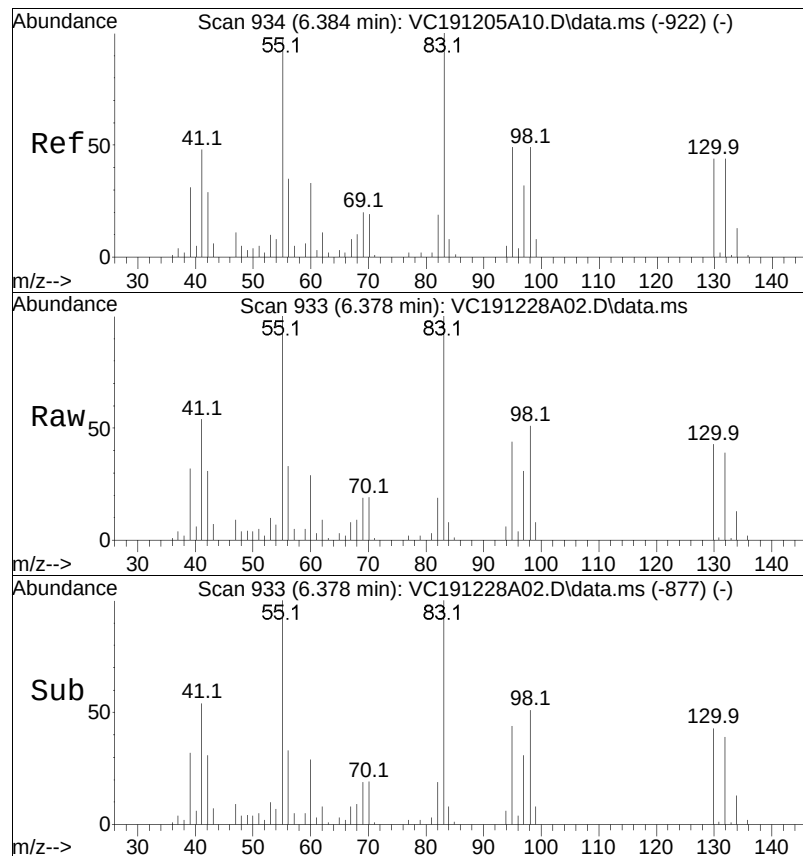




#44  
 1,2-Dichloroethane  
 Concen: 37.70 ug/L  
 RT: 5.996 min Scan# 860  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

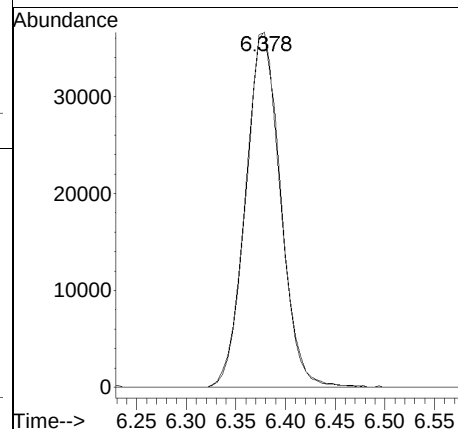
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 30.7  | 12.1  | 52.1  |
| 98      | 7.5   | 0.0   | 29.9  |

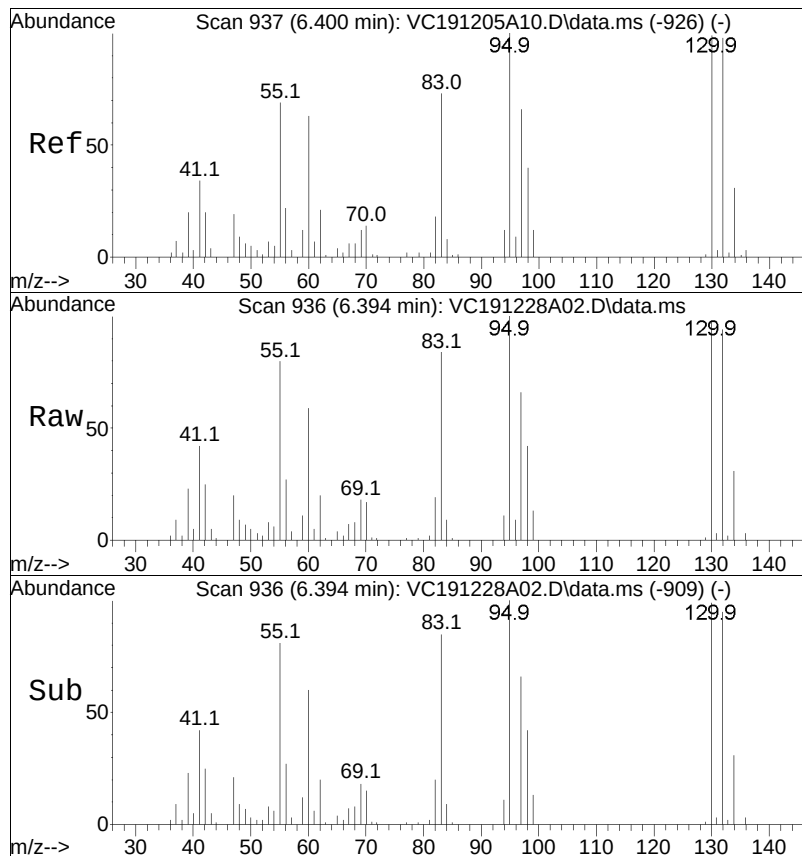




#47  
Methyl cyclohexane  
Concen: 40.45 ug/L  
RT: 6.378 min Scan# 933  
Delta R.T. -0.006 min  
Lab File: VC191228A02.D  
Acq: 28 Dec 2019 7:54 am

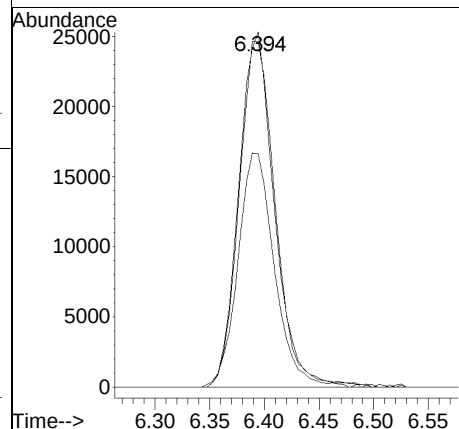
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 83  | 100   |       |       |       |
| 55  | 100.4 | 53.8  | 80.6  |       |

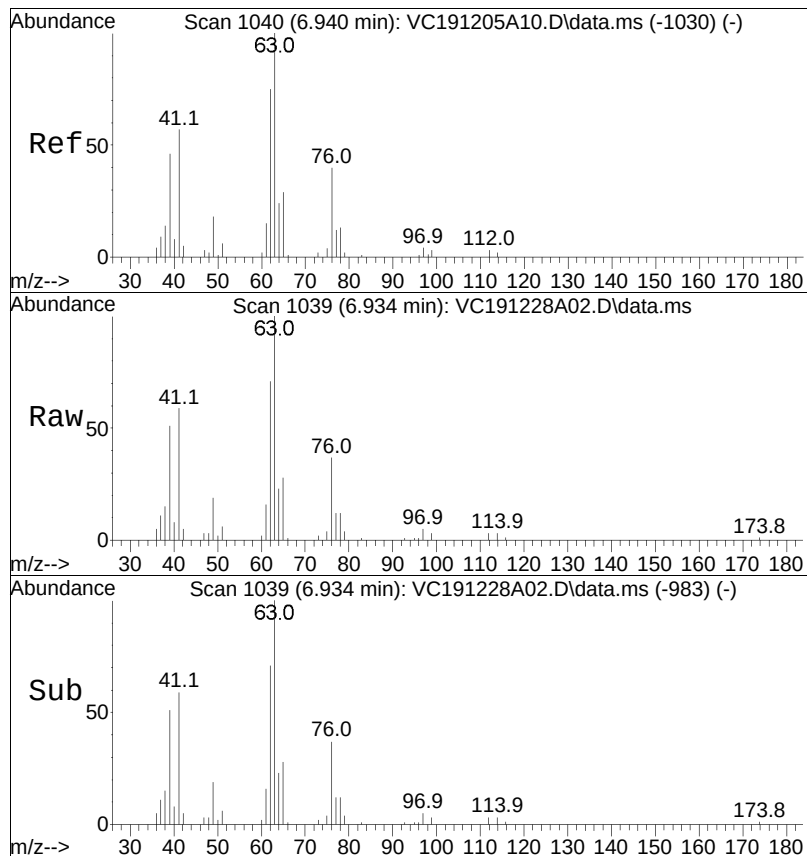




#48  
 Trichloroethene  
 Concen: 39.82 ug/L  
 RT: 6.394 min Scan# 936  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

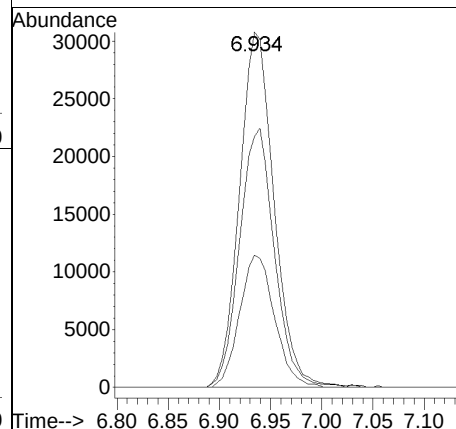
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 67.9  | 54.6  | 82.0  |
| 130     | 100.0 | 89.0  | 133.6 |

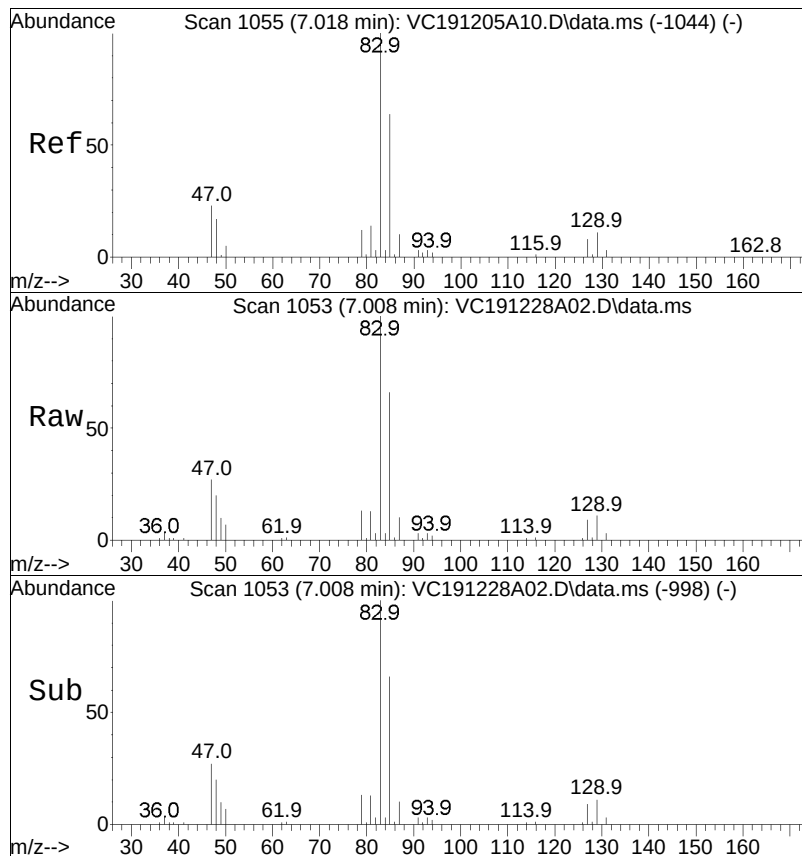




#51  
 1,2-Dichloropropane  
 Concen: 38.11 ug/L  
 RT: 6.934 min Scan# 1039  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 63    | Resp: | 72522 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 62        | 73.3  | 57.8  | 86.6  |
| 76        | 37.6  | 37.1  | 55.7  |





#54

Bromodichloromethane

Concen: 40.81 ug/L

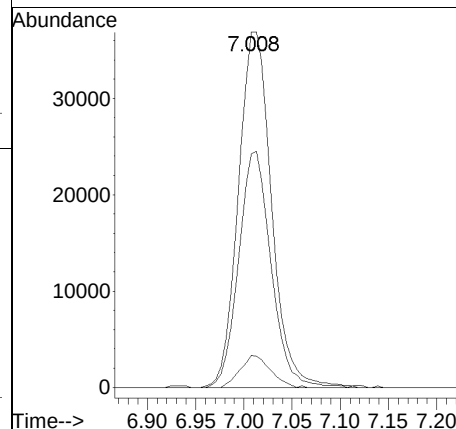
RT: 7.008 min Scan# 1053

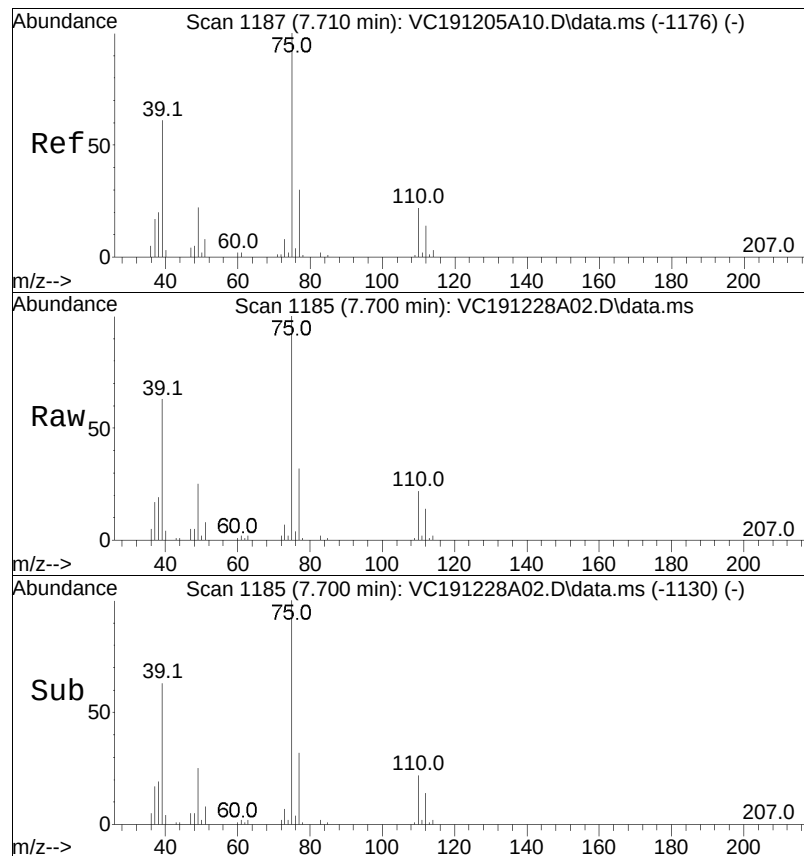
Delta R.T. -0.010 min

Lab File: VC191228A02.D

Acq: 28 Dec 2019 7:54 am

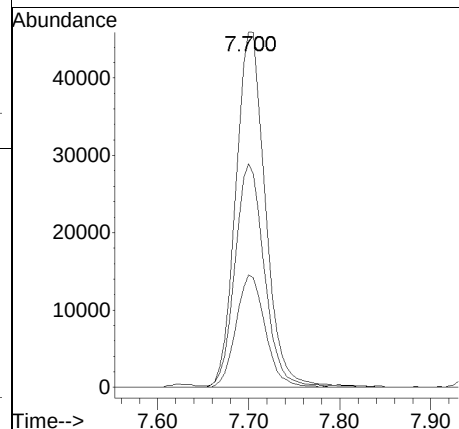
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 83 | Resp: | 88485 |
| Ion | Ratio   | Lower | Upper |
| 83  | 100     |       |       |
| 85  | 64.8    | 51.5  | 77.3  |
| 127 | 8.2     | 7.6   | 11.4  |



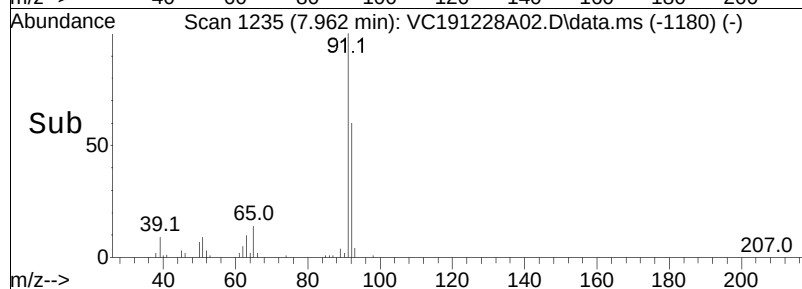
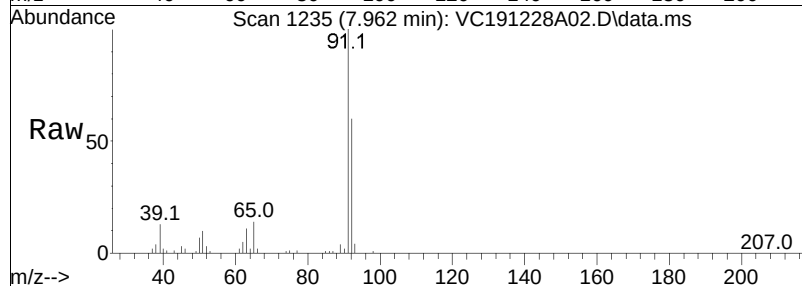
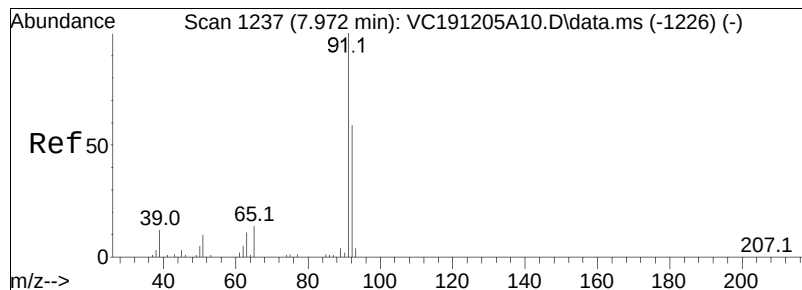


#58  
 cis-1,3-Dichloropropene  
 Concen: 37.75 ug/L  
 RT: 7.700 min Scan# 1185  
 Delta R.T. -0.010 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.2  | 25.1  | 37.7  |
| 39      | 62.6  | 35.0  | 52.6# |

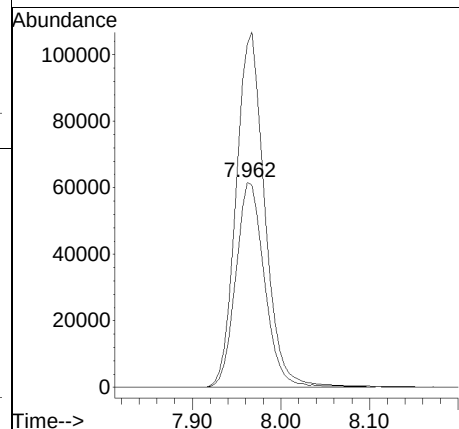


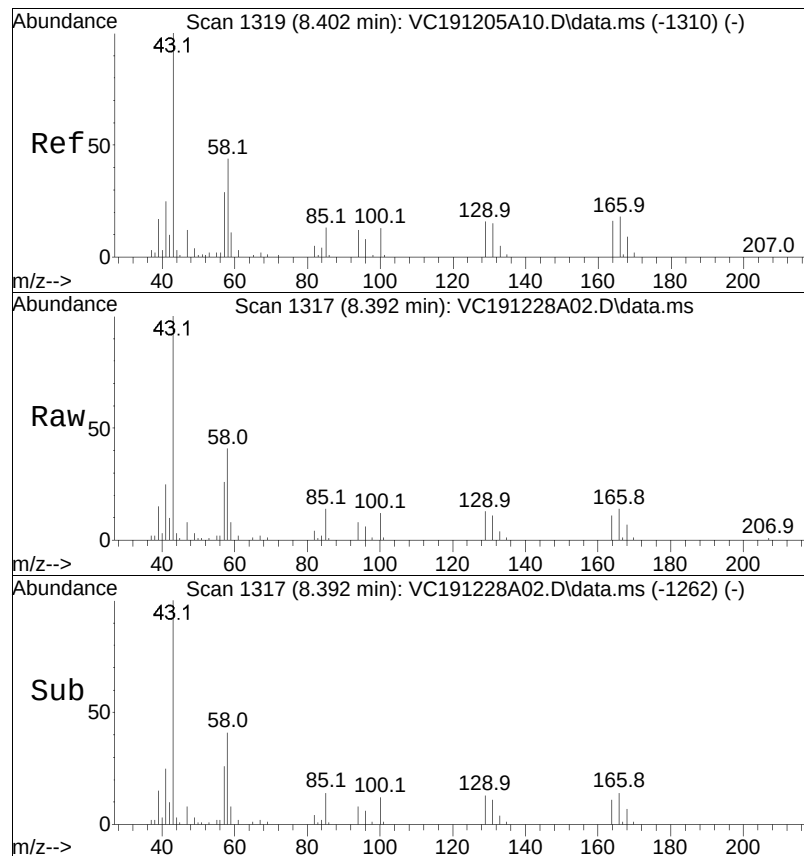




#61  
Toluene  
Concen: 36.17 ug/L  
RT: 7.962 min Scan# 1235  
Delta R.T. -0.010 min  
Lab File: VC191228A02.D  
Acq: 28 Dec 2019 7:54 am

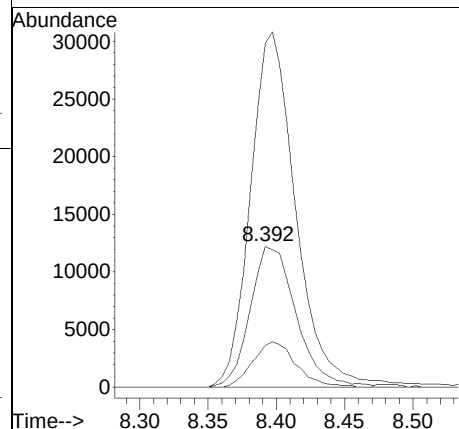
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 171.7 | 137.8 | 206.6 |

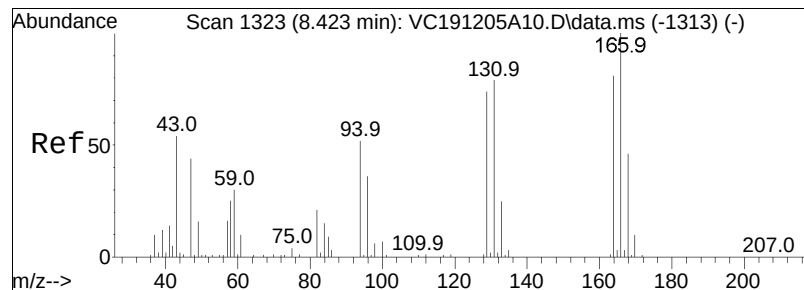




#62  
 4-Methyl-2-pentanone  
 Concen: 31.49 ug/L  
 RT: 8.392 min Scan# 1317  
 Delta R.T. -0.010 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

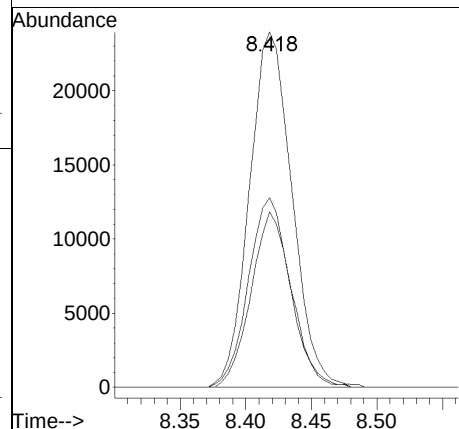
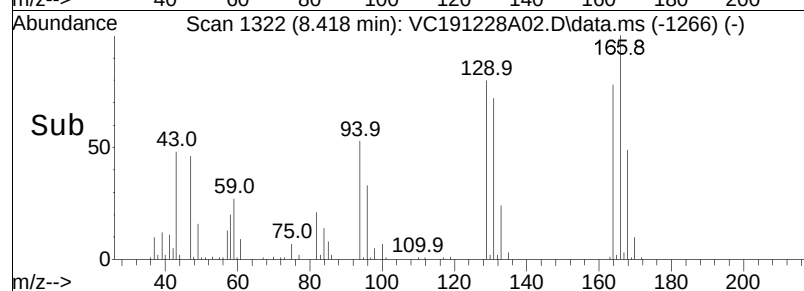
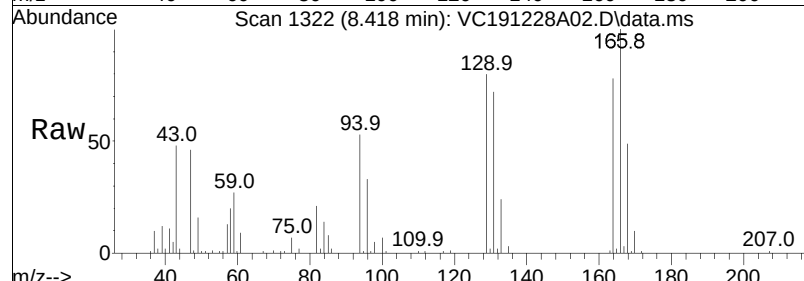
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   |       |       |       |
| 100 | 30.6  | 36.9  | 55.3# |       |
| 43  | 249.8 | 205.4 | 308.2 |       |

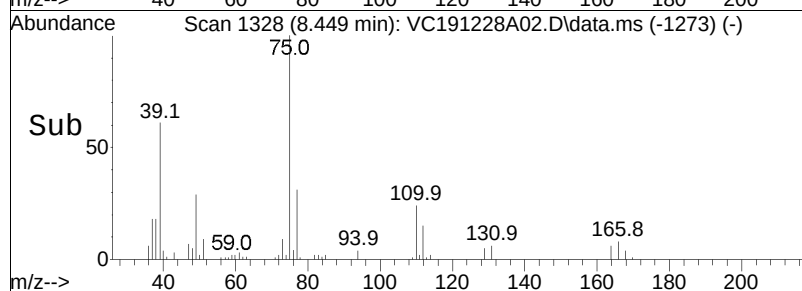
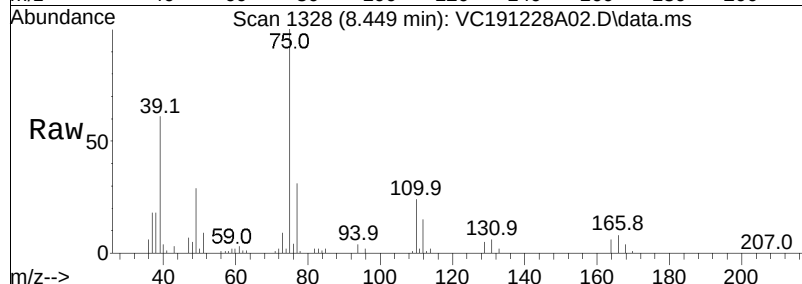
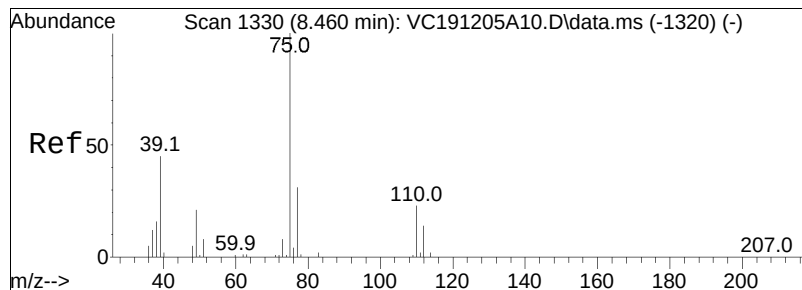




#63  
Tetrachloroethene  
Concen: 36.51 ug/L  
RT: 8.418 min Scan# 1322  
Delta R.T. -0.005 min  
Lab File: VC191228A02.D  
Acq: 28 Dec 2019 7:54 am

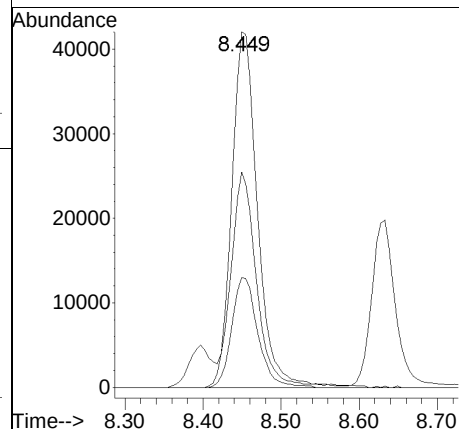
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 54166 |       |       |
| 168     | 47.5  |       | 26.4  | 66.4  |
| 94      | 52.2  |       | 21.5  | 61.5  |

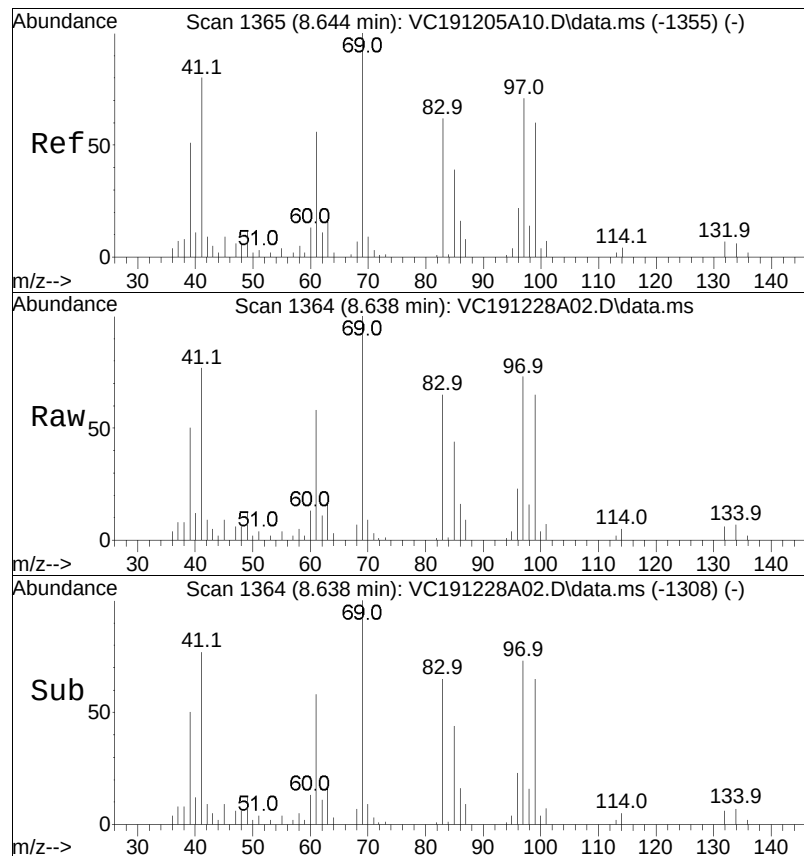




#65  
 trans-1,3-Dichloropropene  
 Concen: 35.72 ug/L  
 RT: 8.449 min Scan# 1328  
 Delta R.T. -0.011 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

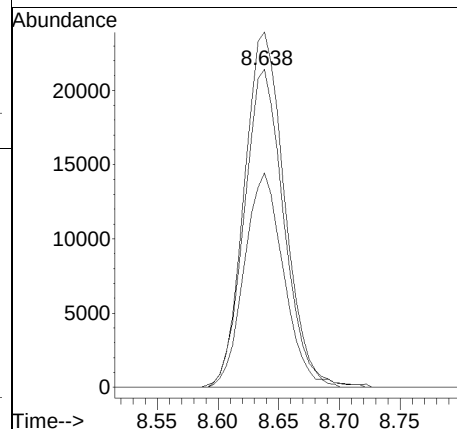
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.1  | 11.7  | 51.7  |
| 39      | 58.6  | 23.8  | 63.8  |

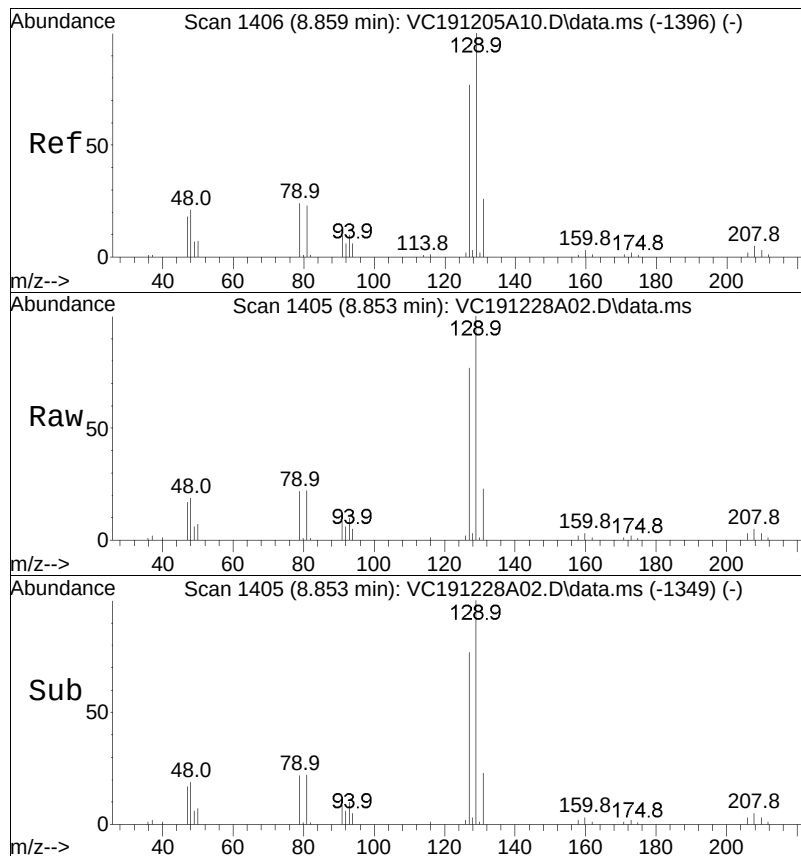




#68  
 1,1,2-Trichloroethane  
 Concen: 37.96 ug/L  
 RT: 8.638 min Scan# 1364  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

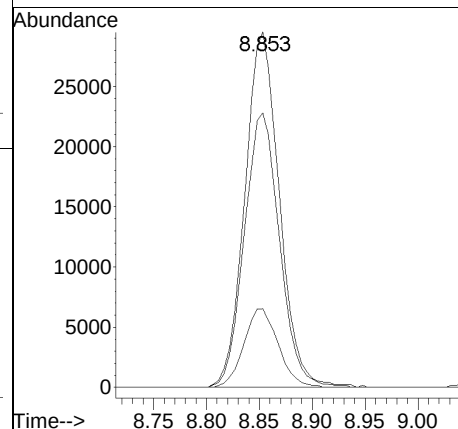
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 48808 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 97        | 114.0 | 98.7  | 138.7 |
| 85        | 66.8  | 47.1  | 87.1  |

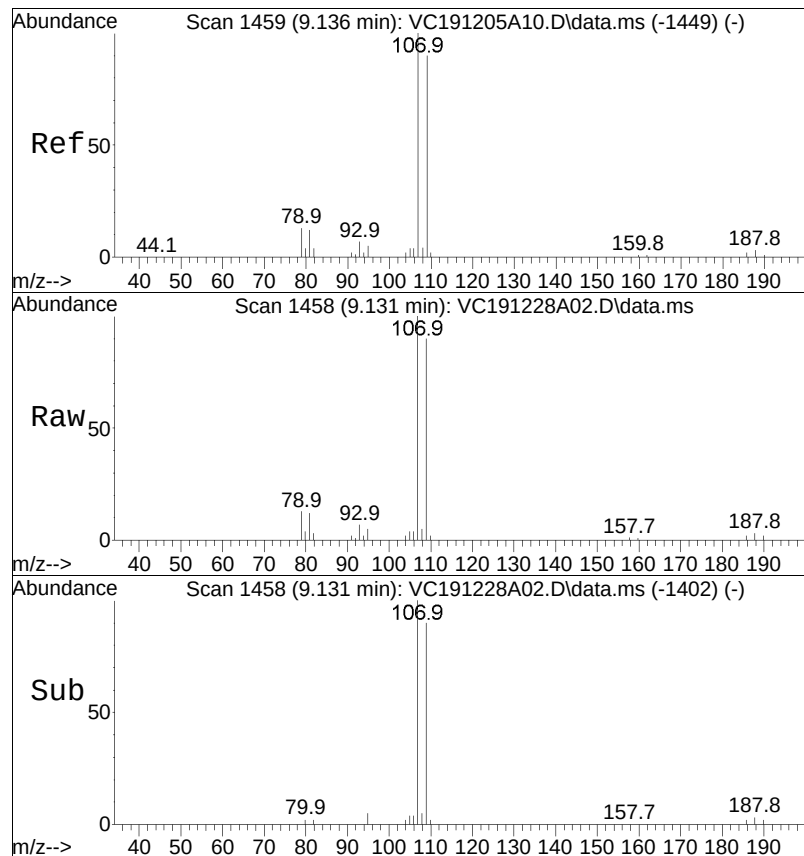




#69  
 Chlorodibromomethane  
 Concen: 38.64 ug/L  
 RT: 8.853 min Scan# 1405  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

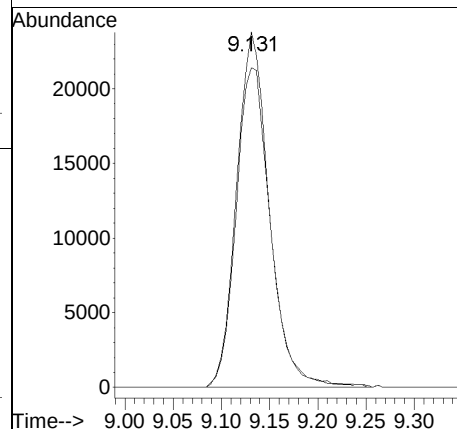
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 81      | 22.1  | 0.0   | 37.3  |
| 127     | 78.8  | 57.7  | 97.7  |

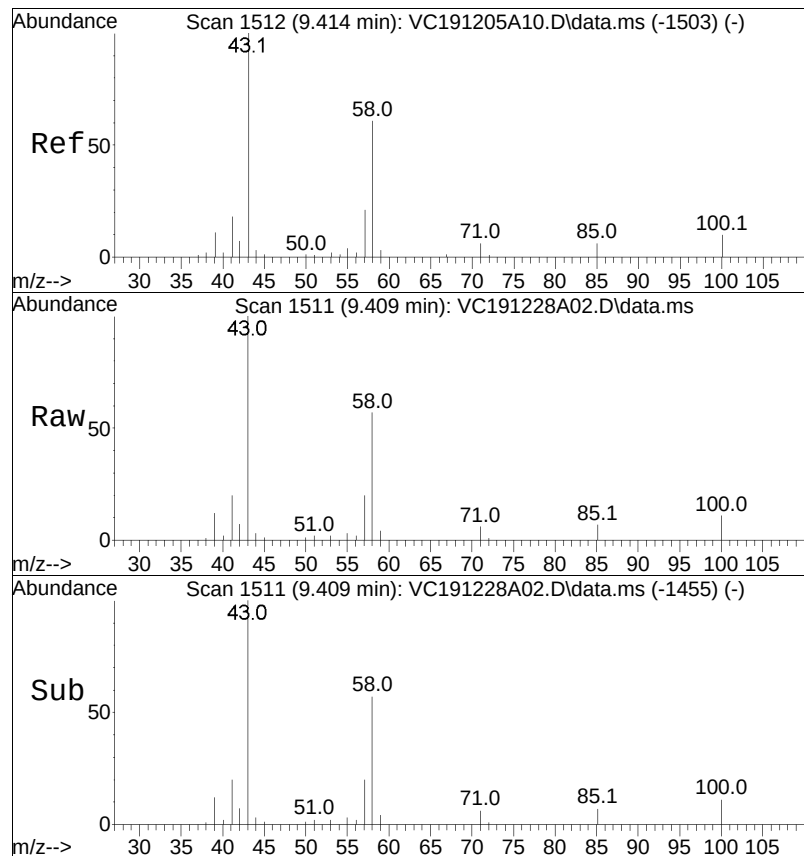




#71  
 1,2-Dibromoethane  
 Concen: 37.68 ug/L  
 RT: 9.131 min Scan# 1458  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

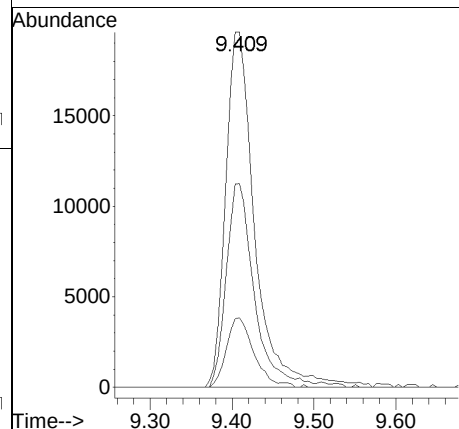
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.2  | 75.8  | 113.8 |



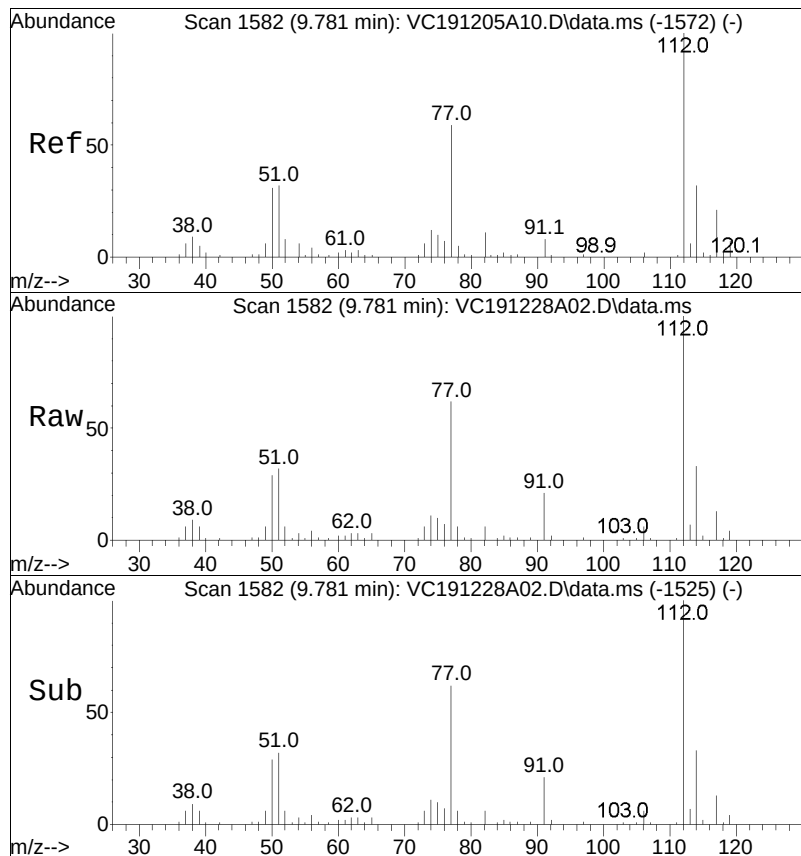


#72  
 2-Hexanone  
 Concen: 30.03 ug/L  
 RT: 9.409 min Scan# 1511  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 48813 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 54.7  | 44.4  | 66.6  |
| 57        | 18.5  | 15.6  | 23.4  |

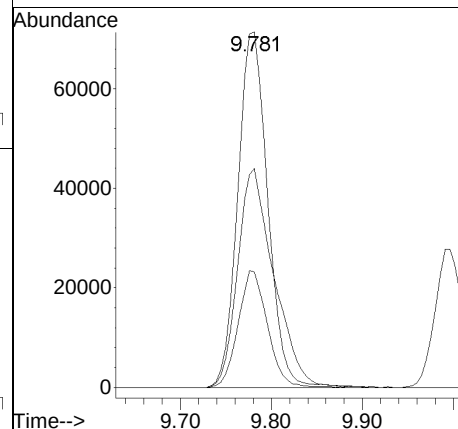


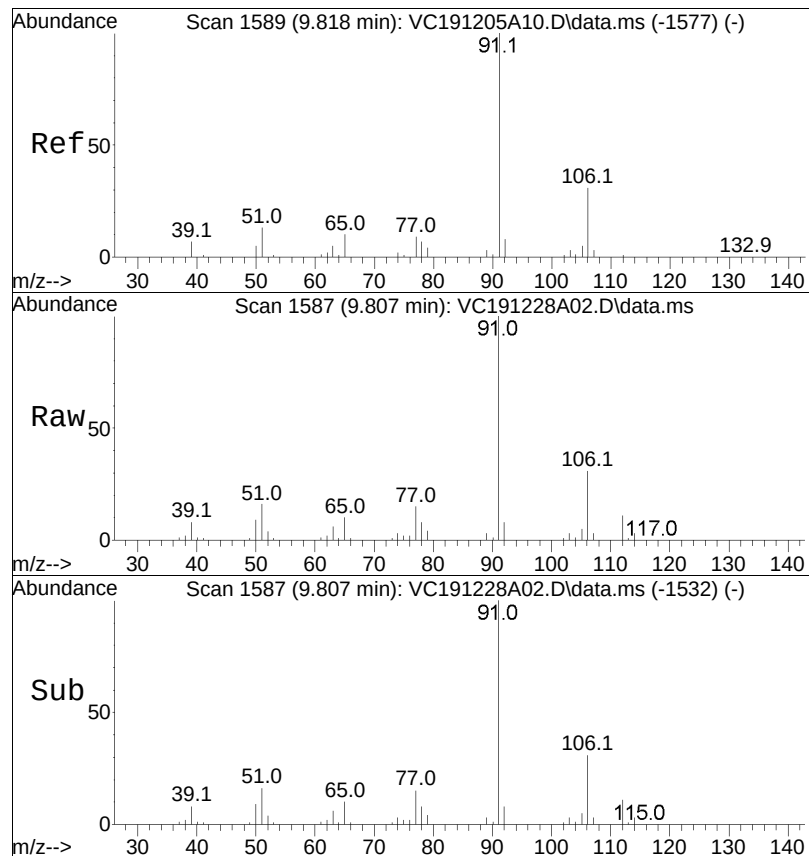




#73  
 Chlorobenzene  
 Concen: 35.91 ug/L  
 RT: 9.781 min Scan# 1582  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

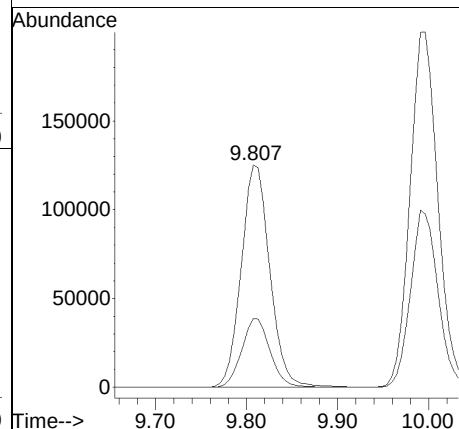
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 74.2  | 51.9  | 77.9  |
| 114     | 32.1  | 25.8  | 38.6  |

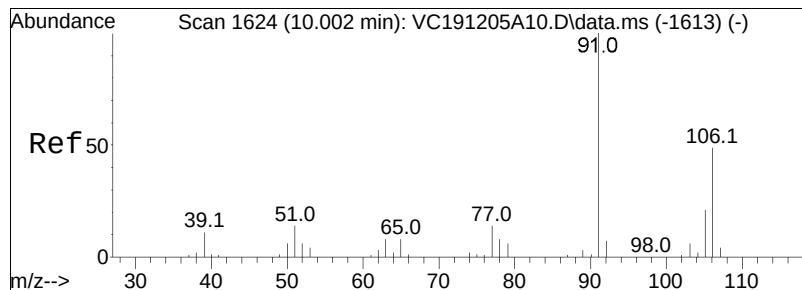




#74  
 Ethylbenzene  
 Concen: 36.76 ug/L  
 RT: 9.807 min Scan# 1587  
 Delta R.T. -0.011 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

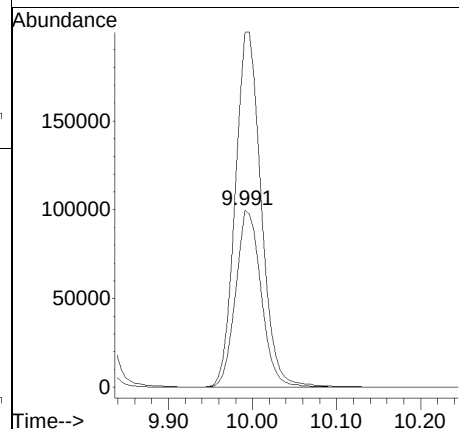
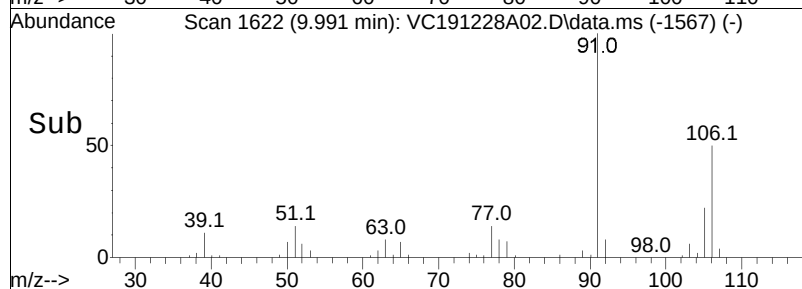
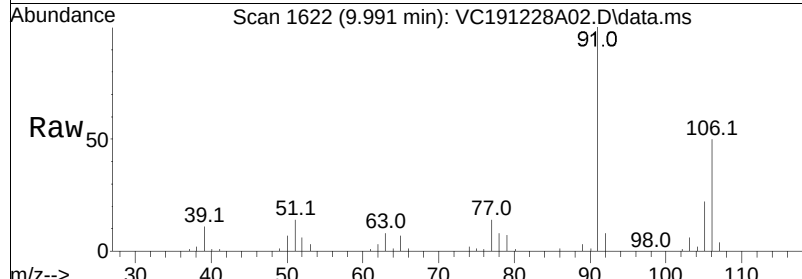
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 274369 |       |       |
| 106 | 30.7 | 26.0   | 39.0  |       |

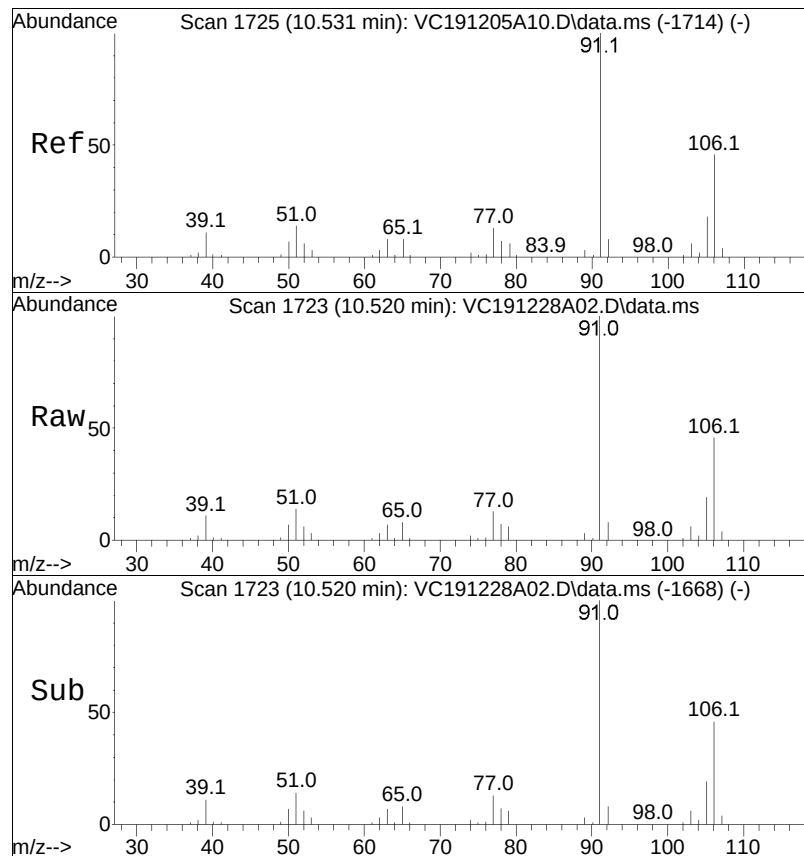




#76  
 p/m Xylene  
 Concen: 75.59 ug/L  
 RT: 9.991 min Scan# 1622  
 Delta R.T. -0.011 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

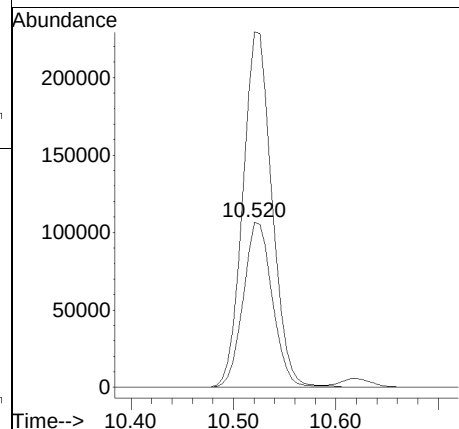
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 202.3 | 152.9 | 229.3 |

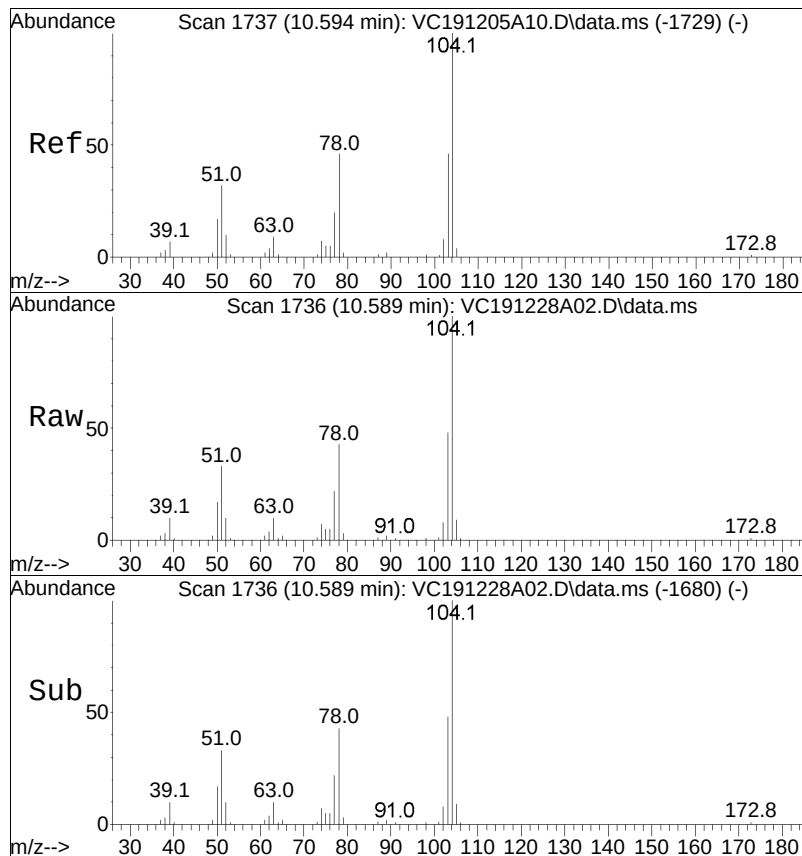




#77  
 o Xylene  
 Concen: 77.33 ug/L  
 RT: 10.520 min Scan# 1723  
 Delta R.T. -0.011 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

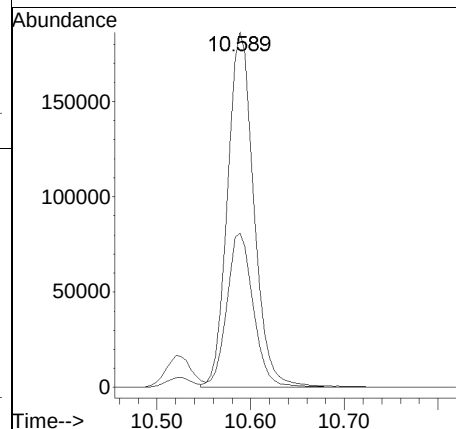
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 213.1 | 161.5 | 242.3 |

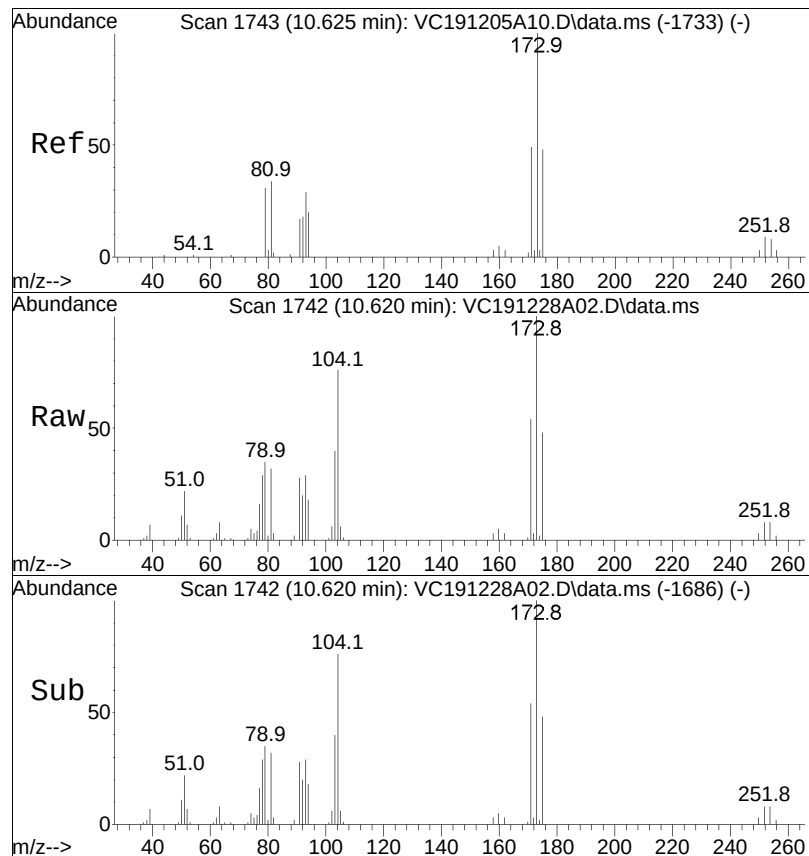




#78  
 Styrene  
 Concen: 79.26 ug/L  
 RT: 10.589 min Scan# 1736  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

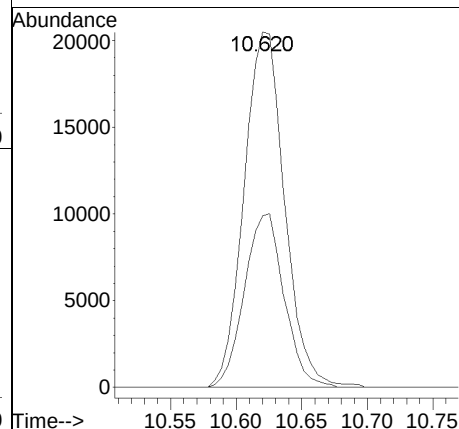
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 43.8  | 30.7  | 46.1  |

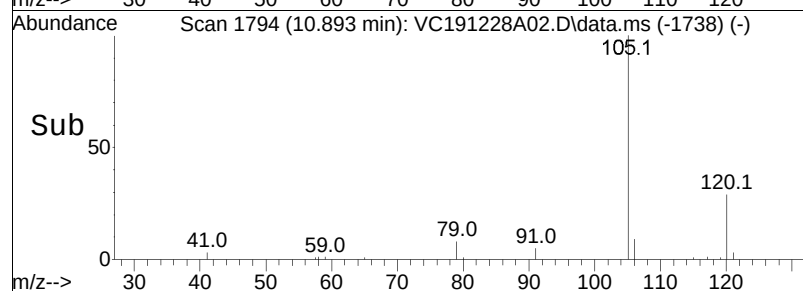
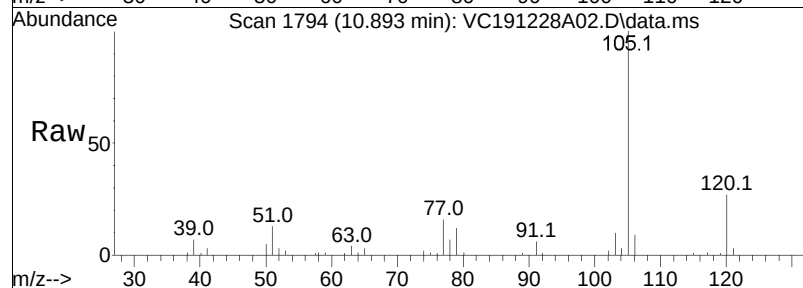
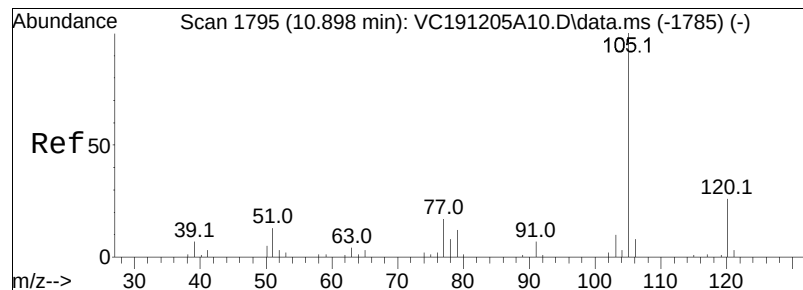




#80  
 Bromoform  
 Concen: 38.63 ug/L  
 RT: 10.620 min Scan# 1742  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 47.8  | 29.1  | 69.1  |





#82

Isopropylbenzene

Concen: 37.52 ug/L

RT: 10.893 min Scan# 1794

Delta R.T. -0.005 min

Lab File: VC191228A02.D

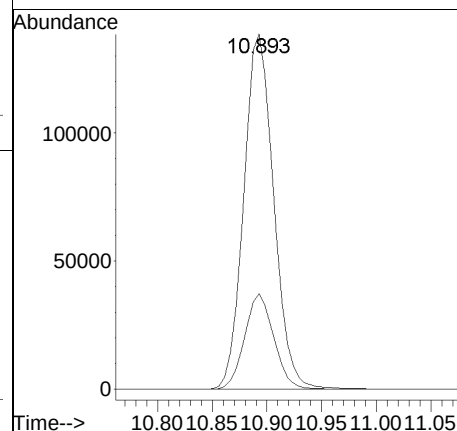
Acq: 28 Dec 2019 7:54 am

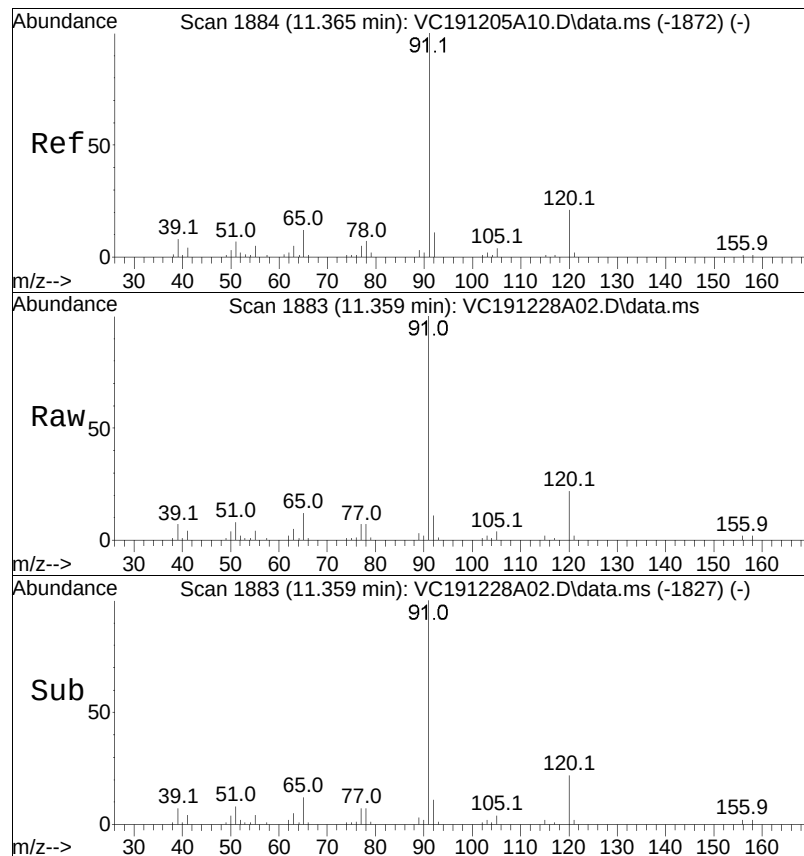
Tgt Ion:105 Resp: 265102

Ion Ratio Lower Upper

105 100

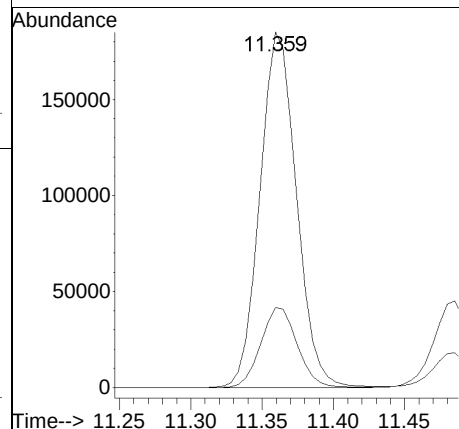
120 26.2 8.1 48.1



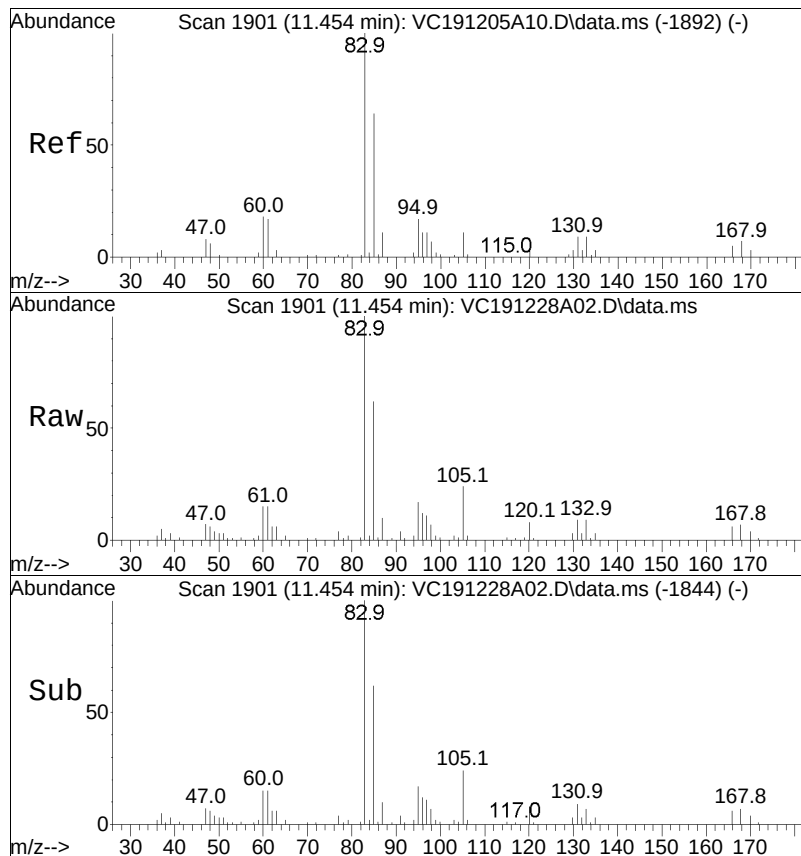


#85  
 n-Propylbenzene  
 Concen: 37.71 ug/L  
 RT: 11.359 min Scan# 1883  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

| Tgt Ion:  | 91    | Resp: | 329106 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 22.4  | 19.4  | 29.0   |

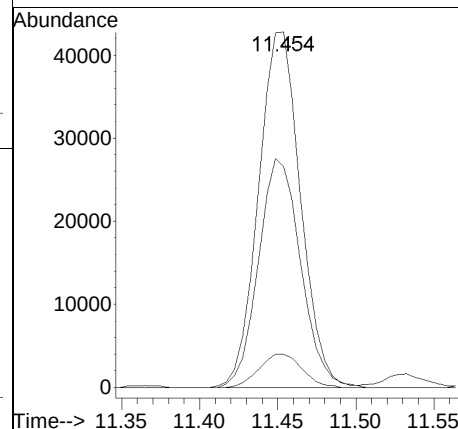


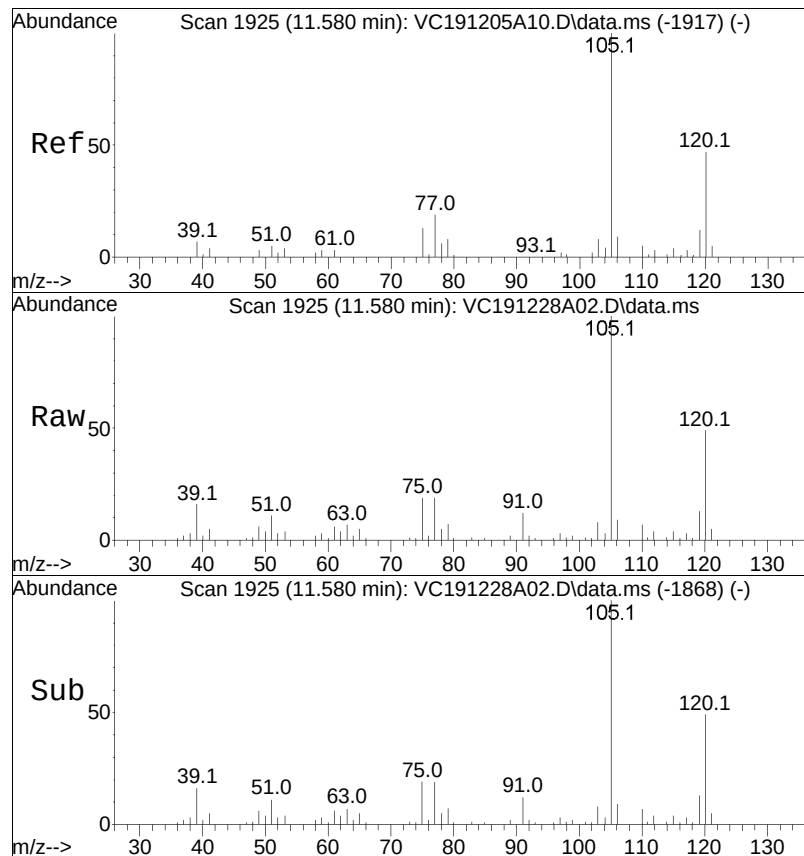




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 36.56 ug/L  
 RT: 11.454 min Scan# 1901  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

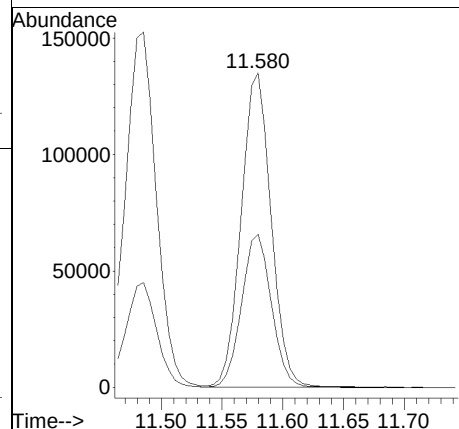
| Tgt Ion   | 83    | Resp: | 79981 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 9.6   | 0.0   | 30.9  |
| 85        | 64.6  | 45.5  | 85.5  |

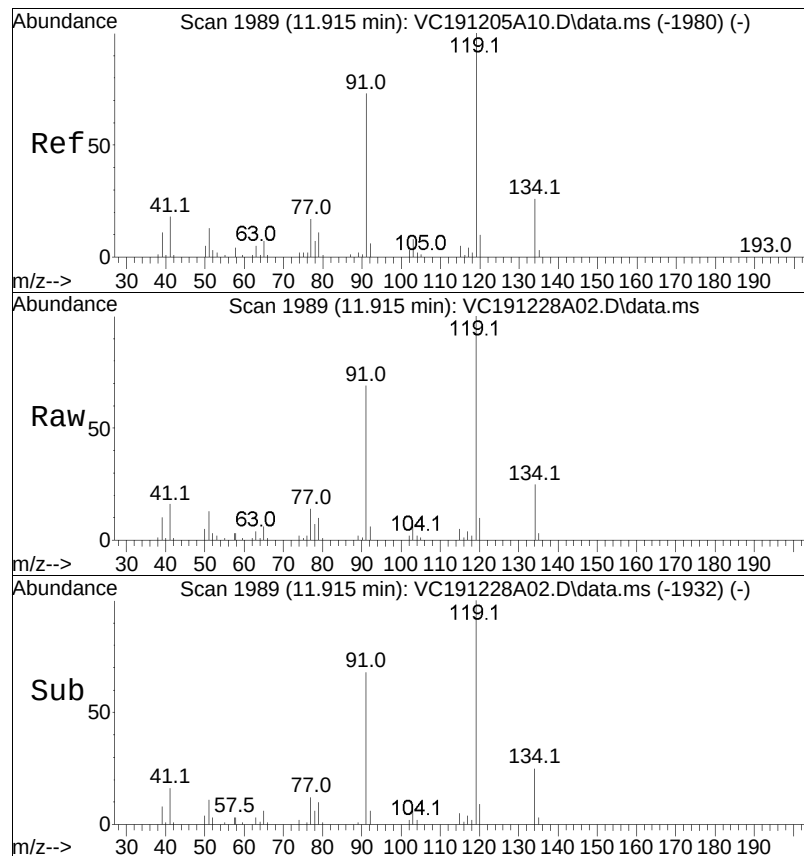




#90  
 1,3,5-Trimethylbenzene  
 Concen: 37.30 ug/L  
 RT: 11.580 min Scan# 1925  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

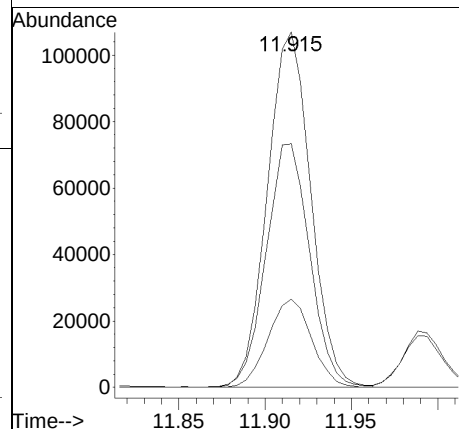
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 48.6  | 41.0  | 61.4  |

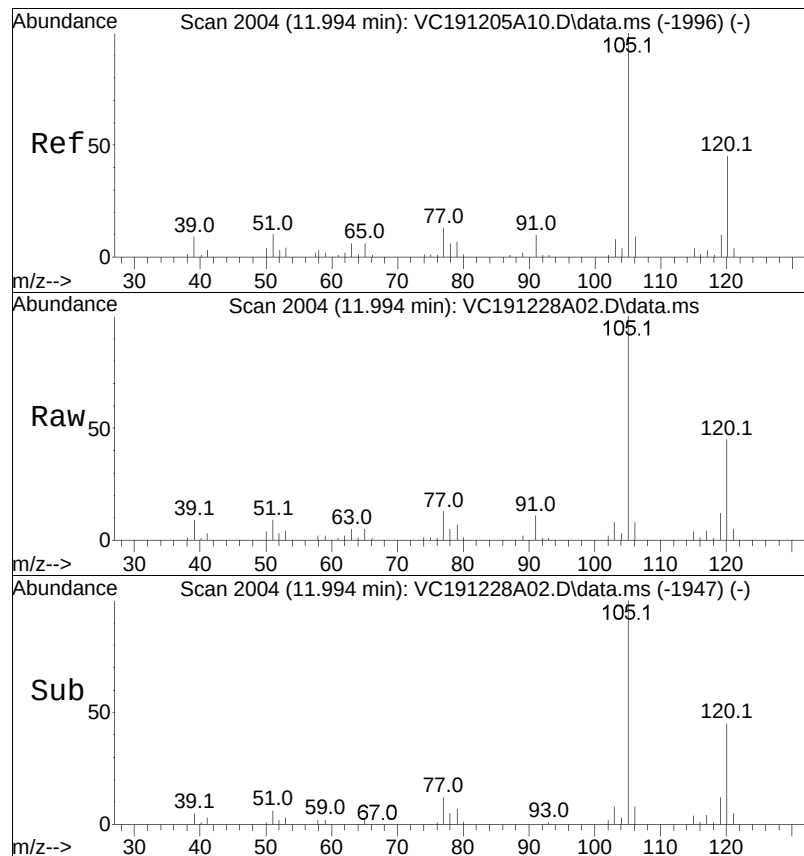




#94  
 tert-Butylbenzene  
 Concen: 37.00 ug/L  
 RT: 11.915 min Scan# 1989  
 Delta R.T. 0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

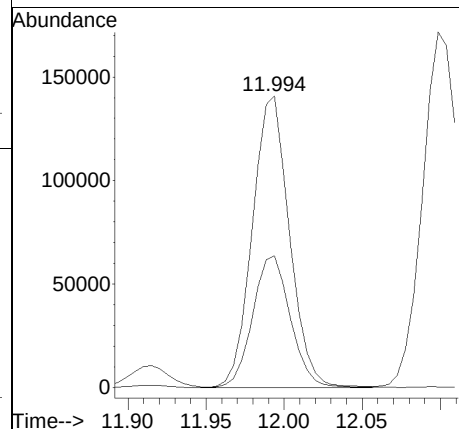
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 187224 |       |       |
| 91      | 69.0  |        | 49.9  | 74.9  |
| 134     | 24.9  |        | 20.5  | 30.7  |

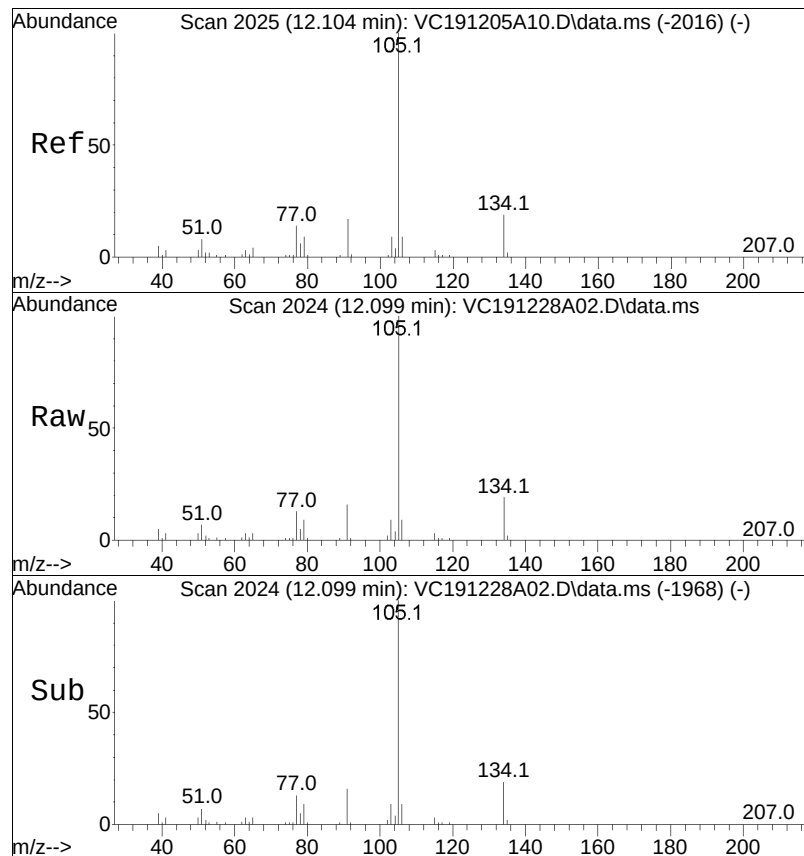




#97  
 1,2,4-Trimethylbenzene  
 Concen: 37.40 ug/L  
 RT: 11.994 min Scan# 2004  
 Delta R.T. -0.000 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

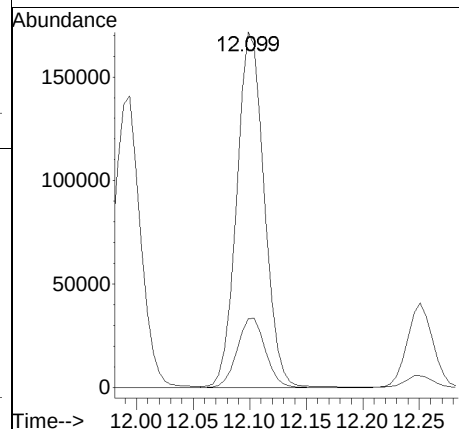
| Tgt Ion | 105    | 120 | Ratio | Lower | Upper |
|---------|--------|-----|-------|-------|-------|
| Resp    | 232107 |     |       |       |       |
| 105     | 100    |     |       |       |       |
| 120     | 45.8   |     | 38.2  | 57.4  |       |

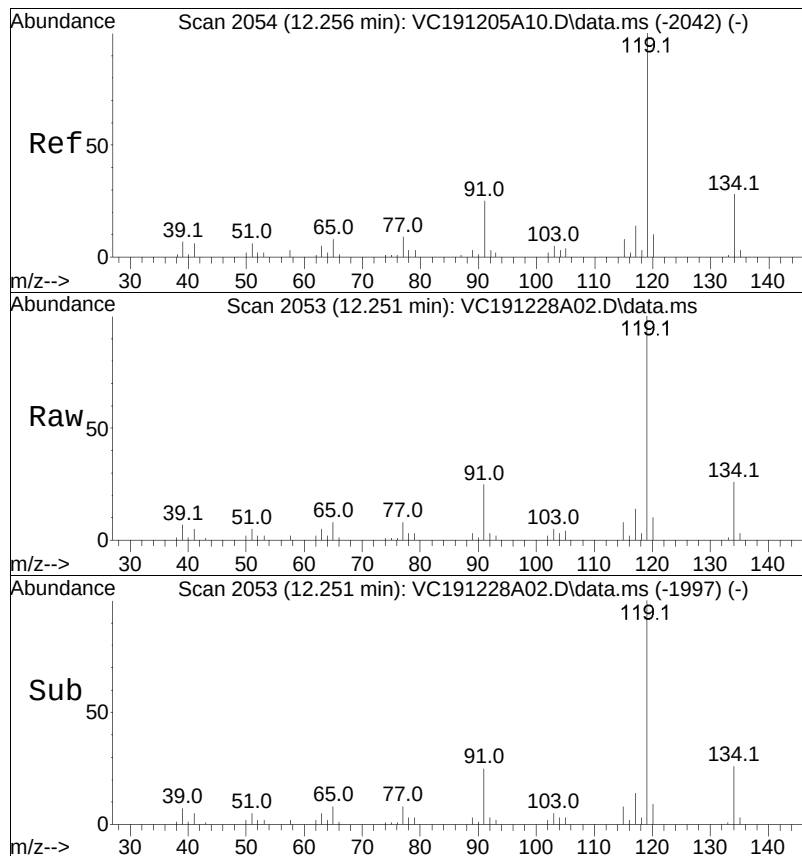




#98  
 sec-Butylbenzene  
 Concen: 37.55 ug/L  
 RT: 12.099 min Scan# 2024  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

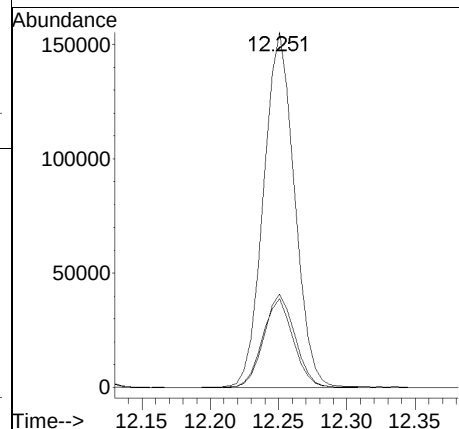
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 19.8  | 13.5  | 27.9  |

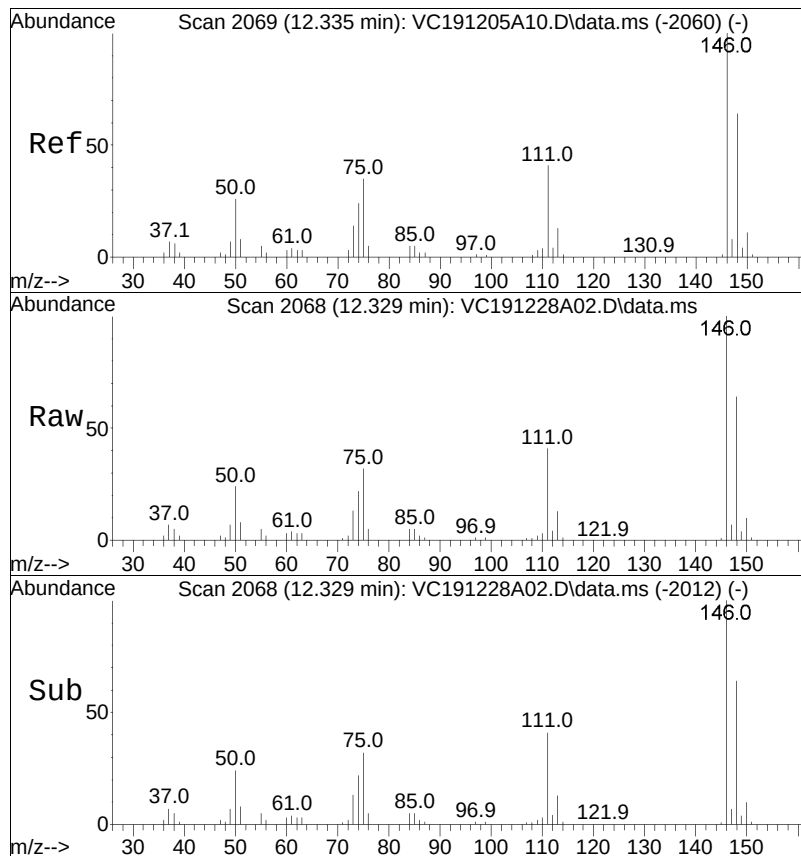




#99  
 p-Isopropyltoluene  
 Concen: 37.59 ug/L  
 RT: 12.251 min Scan# 2053  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

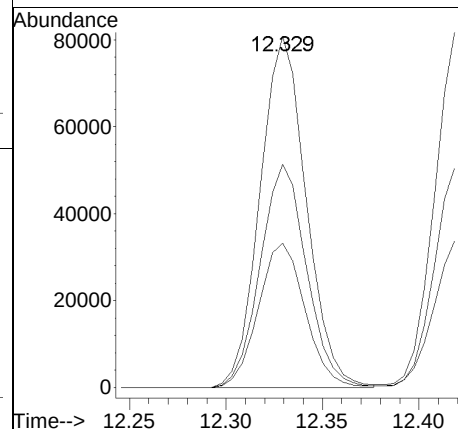
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.2  | 17.0  | 35.4  |
| 91      | 24.7  | 14.0  | 29.2  |

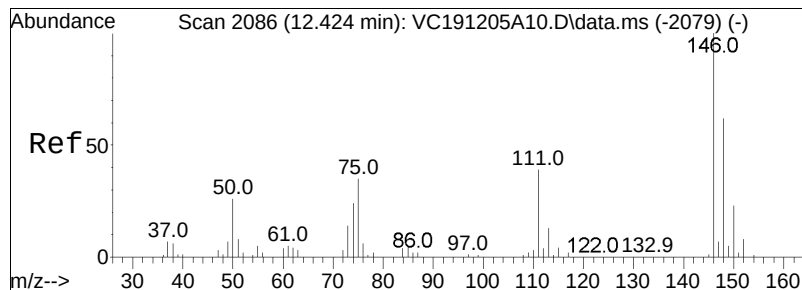




#100  
 1,3-Dichlorobenzene  
 Concen: 36.88 ug/L  
 RT: 12.329 min Scan# 2068  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

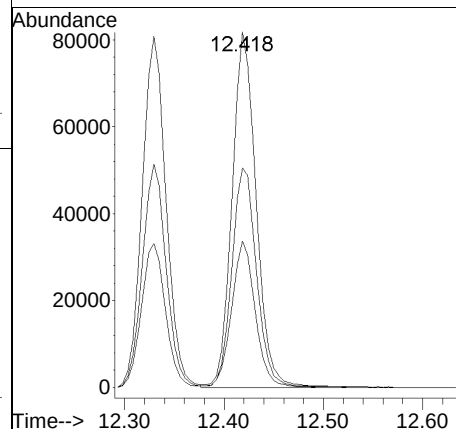
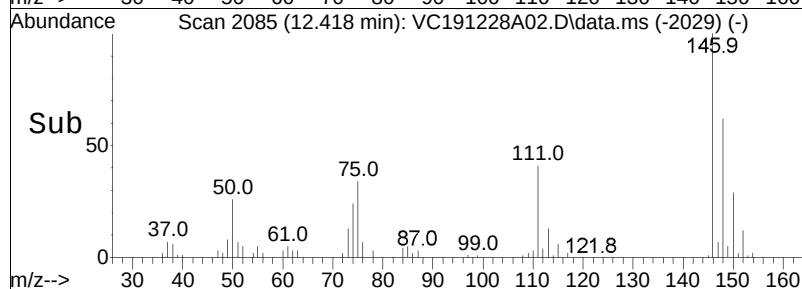
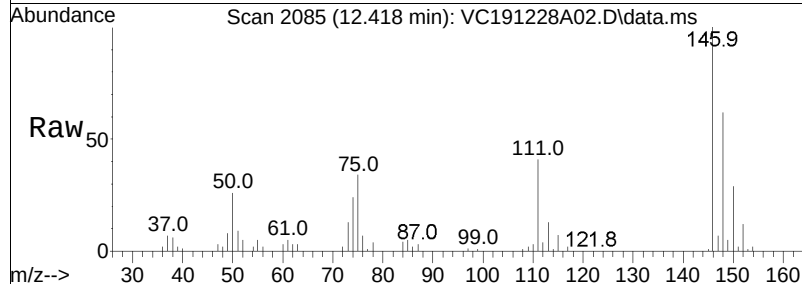
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 134262 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 41.7  | 24.9  | 51.7   |
| 148       | 63.8  | 41.6  | 86.4   |



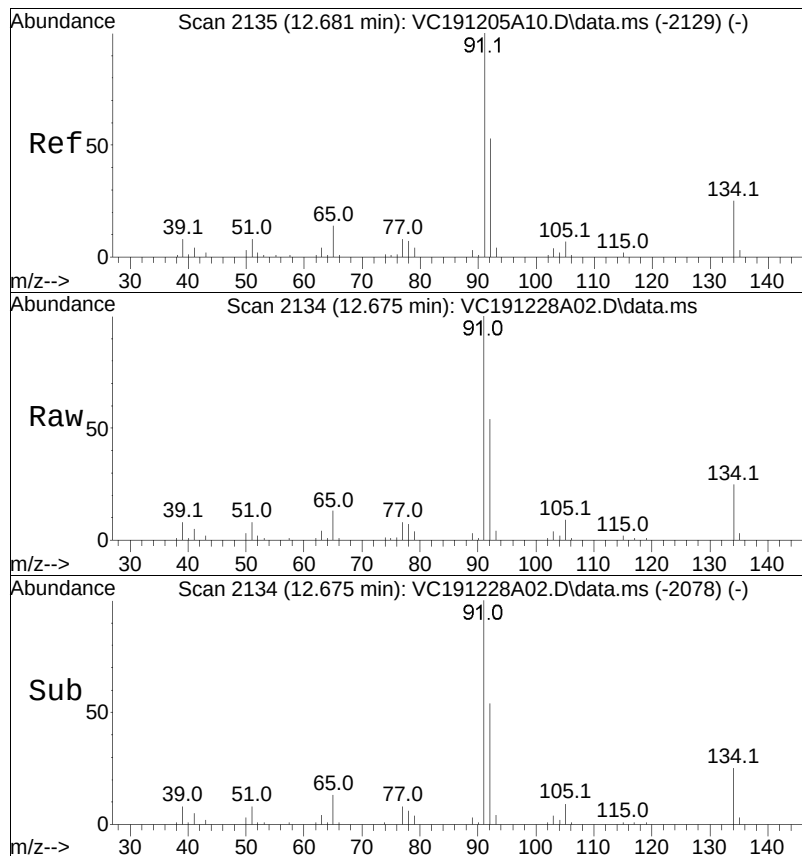


#101  
 1,4-Dichlorobenzene  
 Concen: 36.12 ug/L  
 RT: 12.418 min Scan# 2085  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.3  | 29.5  | 44.3  |
| 148     | 63.4  | 52.1  | 78.1  |

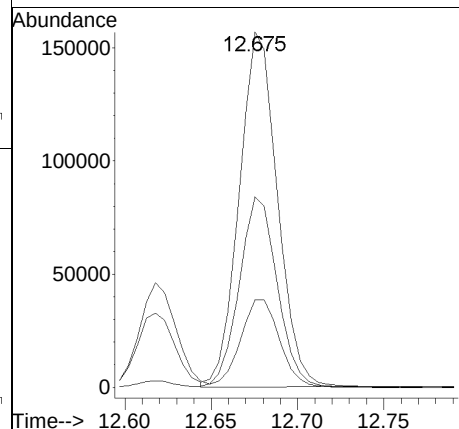


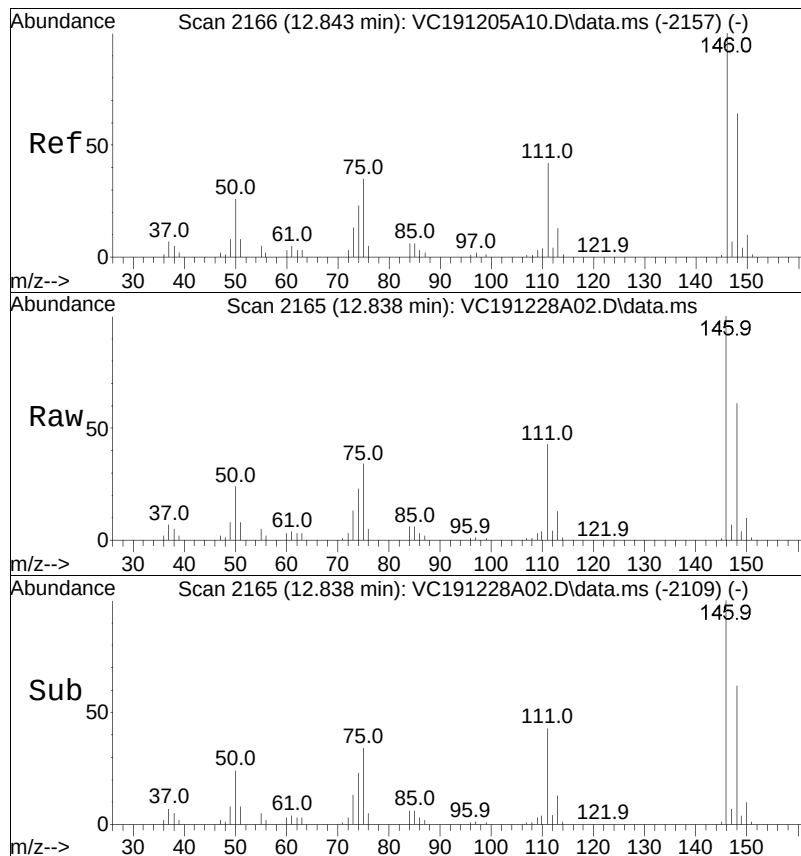




#103  
 n-Butylbenzene  
 Concen: 38.25 ug/L  
 RT: 12.675 min Scan# 2134  
 Delta R.T. -0.006 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

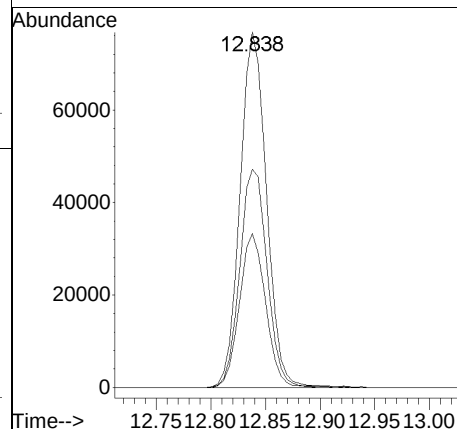
| Tgt Ion:  | 91    | Resp: | 241305 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 53.8  | 43.5  | 65.3   |
| 134       | 25.4  | 22.6  | 34.0   |

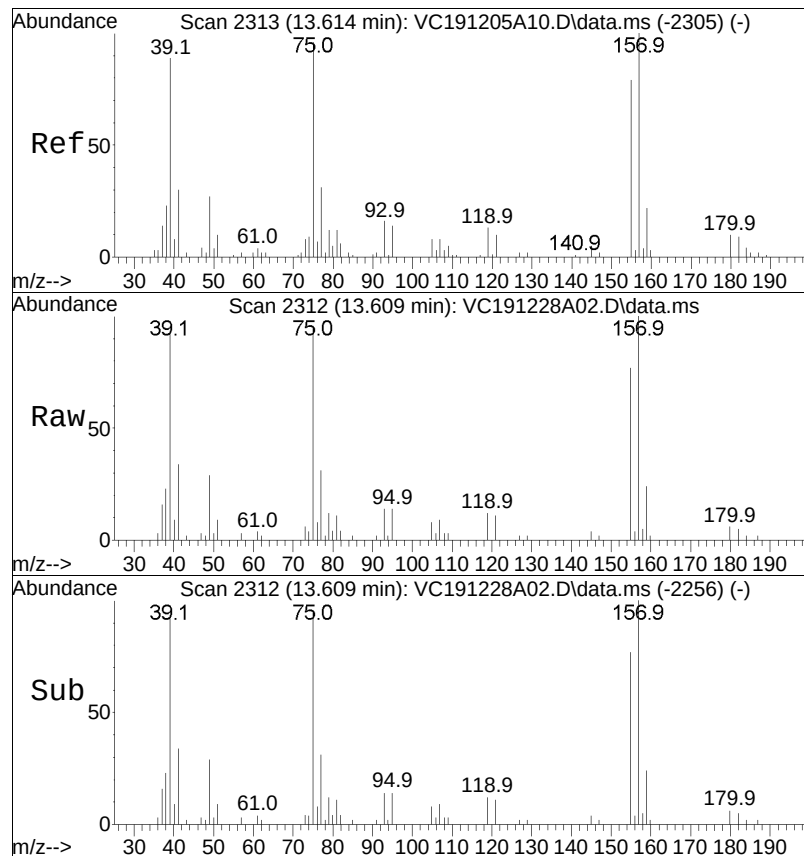




#104  
 1,2-Dichlorobenzene  
 Concen: 36.68 ug/L  
 RT: 12.838 min Scan# 2165  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

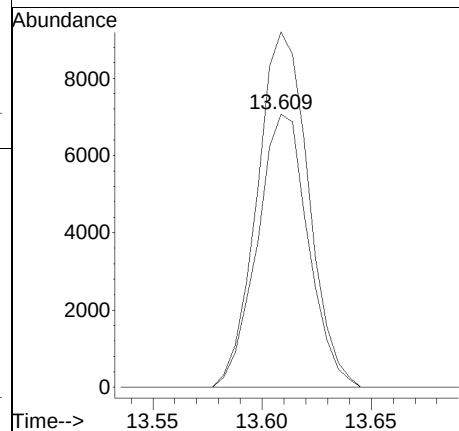
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:146 | Resp: | 129149 |
| Ion | Ratio   | Lower | Upper  |
| 146 | 100     |       |        |
| 111 | 42.7    | 25.4  | 52.8   |
| 148 | 63.4    | 41.8  | 86.8   |

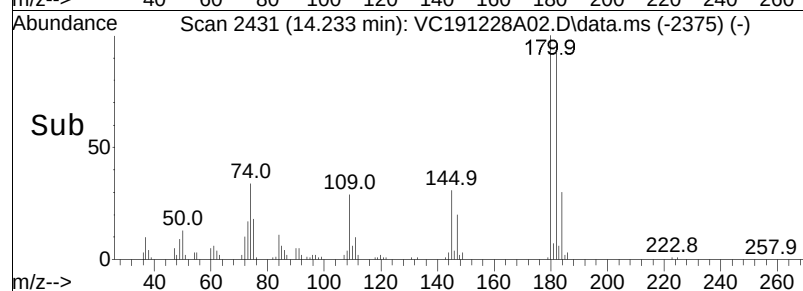
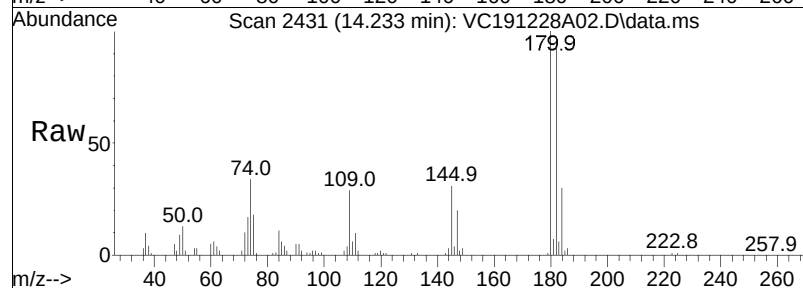
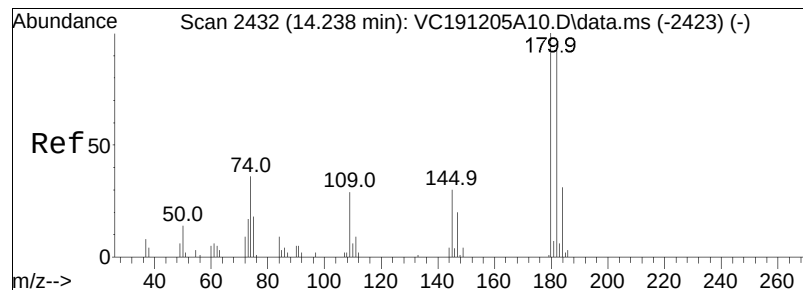




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 33.18 ug/L  
 RT: 13.609 min Scan# 2312  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 155 | 100   |       |       |       |
| 157 | 131.0 | 103.0 | 154.6 |       |





#109

1,2,4-Trichlorobenzene

Concen: 35.62 ug/L

RT: 14.233 min Scan# 2431

Delta R.T. -0.005 min

Lab File: VC191228A02.D

Acq: 28 Dec 2019 7:54 am

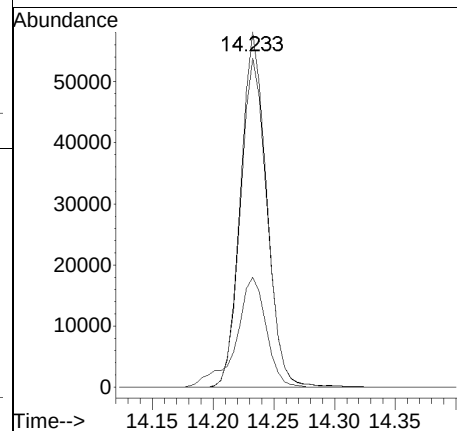
Tgt Ion:180 Resp: 87077

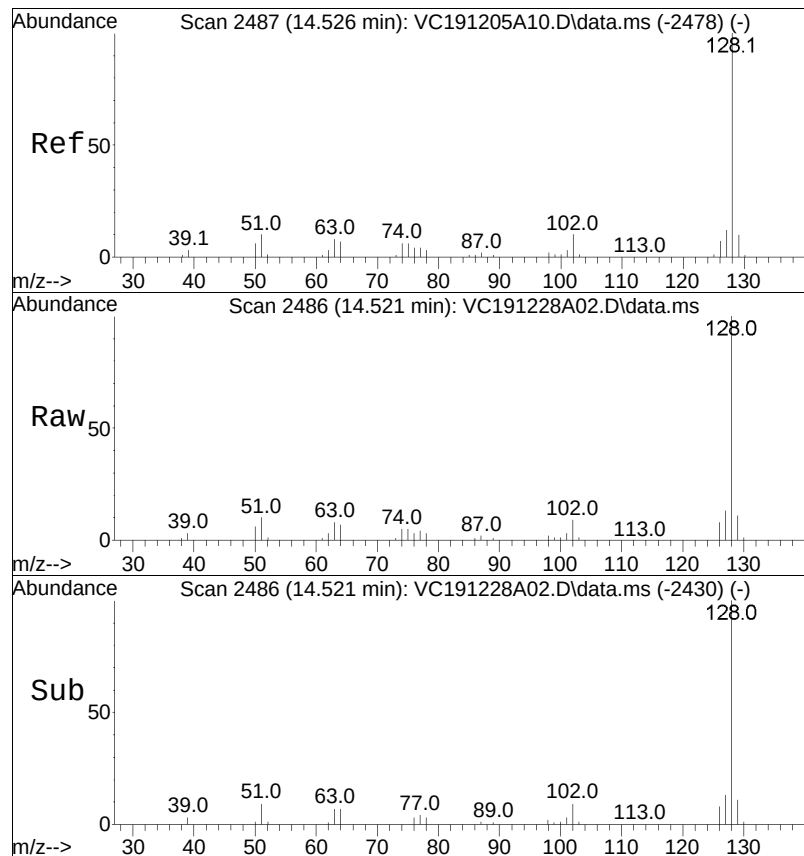
Ion Ratio Lower Upper

180 100

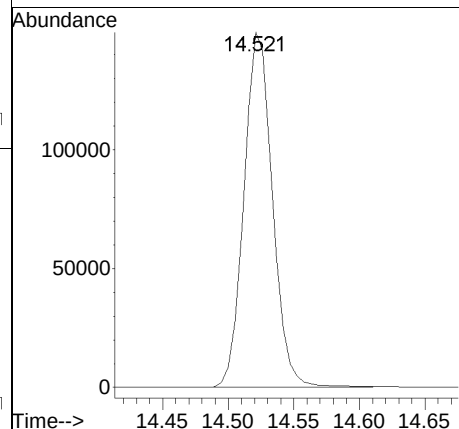
182 94.8 77.4 116.2

145 35.9 26.8 40.2





#110  
 Naphthalene  
 Concen: 35.14 ug/L  
 RT: 14.521 min Scan# 2486  
 Delta R.T. -0.005 min  
 Lab File: VC191228A02.D  
 Acq: 28 Dec 2019 7:54 am  
 Tgt Ion:128 Resp: 226525



# Manual Integration Report

|            |                                     |            |                      |
|------------|-------------------------------------|------------|----------------------|
| Data Path  | : I:\VOLATILES\Charlie\2019\QMethod | :          | C_191211N_8260.m     |
| Data File  | : VC191228A02.D                     | Operator   | : CHARLIE:MKS        |
| Date Inj'd | : 12/28/2019 7:54 am                | Instrument | : Charlie            |
| Sample     | : WG1325623-4,31,5,5                | Quant Date | : 12/28/2019 8:38 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A02.D  
 Acq On : 30 Dec 2019 06:05 am  
 Operator : VOA111:MV  
 Sample : WG1325794-4,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 07:43:37 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|--------|---------|----------|
| -----                        |                |      |          |        |         |          |
| Internal Standards           |                |      |          |        |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 350167   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 340789     |                |      | Recovery | =      | 102.75% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 299197   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 288898     |                |      | Recovery | =      | 103.56% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 154976   | 20.000 | ug/L    | 0.00     |
| Standard Area 1 = 151324     |                |      | Recovery | =      | 102.41% |          |
| System Monitoring Compounds  |                |      |          |        |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 92158    | 19.771 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 98.86%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 87682    | 17.604 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 88.02%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 388462   | 18.619 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 93.09%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 162560   | 20.336 | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =      | 101.68% |          |
| Target Compounds             |                |      |          |        |         |          |
|                              |                |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 123068   | 30.266 | ug/L    | 97       |
| 3) Chloromethane             | 1.648          | 50   | 170043   | 30.163 | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 163232   | 31.684 | ug/L    | 97       |
| 5) Bromomethane              | 1.957          | 94   | 102823   | 36.053 | ug/L    | 98       |
| 6) Chloroethane              | 2.062          | 64   | 95519    | 31.623 | ug/L    | 96       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 216054   | 35.330 | ug/L    | 100      |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 133806   | 37.517 | ug/L    | 84       |
| 11) Carbon disulfide         | 2.628          | 76   | 459571   | 31.368 | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 141524   | 37.840 | ug/L    | 99       |
| 15) Methylene chloride       | 3.100          | 84   | 167491   | 33.452 | ug/L    | 69       |
| 17) Acetone                  | 3.132          | 43   | 39756    | 34.997 | ug/L    | # 89     |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 155195   | 37.532 | ug/L    | 89       |
| 19) Methyl acetate           | 3.247          | 43   | 101959   | 33.622 | ug/L    | # 86     |
| 20) Methyl tert-butyl ether  | 3.331          | 73   | 443844   | 38.791 | ug/L    | 85       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 302679   | 34.681 | ug/L    | 96       |
| 28) cis-1,2-Dichloroethene   | 4.259          | 96   | 174935   | 38.405 | ug/L    | 87       |
| 31) Cyclohexane              | 4.442          | 56   | 273525   | 38.488 | ug/L    | 76       |
| 32) Chloroform               | 4.510          | 83   | 284033   | 35.128 | ug/L    | 95       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 206072   | 37.347 | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.699          | 97   | 234610   | 36.001 | ug/L    | 97       |

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A02.D  
 Acq On : 30 Dec 2019 06:05 am  
 Operator : VOA111:MV  
 Sample : WG1325794-4,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 07:43:37 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                       | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 39) 2-Butanone                 | 4.788  | 43   | 63051    | 36.128 | ug/L  | # 75     |
| 41) Benzene                    | 5.050  | 78   | 648852   | 36.181 | ug/L  | 90       |
| 44) 1,2-Dichloroethane         | 5.239  | 62   | 205867   | 33.496 | ug/L  | 97       |
| 47) Methyl cyclohexane         | 5.617  | 83   | 264564   | 39.605 | ug/L  | # 73     |
| 48) Trichloroethene            | 5.627  | 95   | 161013   | 37.089 | ug/L  | 96       |
| 51) 1,2-Dichloropropane        | 6.146  | 63   | 178123   | 36.013 | ug/L  | 98       |
| 54) Bromodichloromethane       | 6.225  | 83   | 225524   | 35.571 | ug/L  | 99       |
| 58) cis-1,3-Dichloropropene    | 6.901  | 75   | 283165   | 39.405 | ug/L  | # 84     |
| 61) Toluene                    | 7.158  | 92   | 401605   | 33.154 | ug/L  | 99       |
| 62) 4-Methyl-2-pentanone       | 7.593  | 58   | 53235    | 34.512 | ug/L  | # 75     |
| 63) Tetrachloroethene          | 7.599  | 166  | 163088   | 35.997 | ug/L  | 98       |
| 65) trans-1,3-Dichloropropene  | 7.641  | 75   | 246144   | 34.012 | ug/L  | # 78     |
| 68) 1,1,2-Trichloroethane      | 7.819  | 83   | 116592   | 32.171 | ug/L  | 98       |
| 69) Chlorodibromomethane       | 8.023  | 129  | 158188   | 33.775 | ug/L  | 99       |
| 71) 1,2-Dibromoethane          | 8.285  | 107  | 129896   | 33.993 | ug/L  | 98       |
| 72) 2-Hexanone                 | 8.595  | 43   | 91325    | 33.502 | ug/L  | # 88     |
| 73) Chlorobenzene              | 8.936  | 112  | 436359   | 33.209 | ug/L  | 96       |
| 74) Ethylbenzene               | 8.983  | 91   | 756774   | 34.739 | ug/L  | 99       |
| 76) p/m Xylene                 | 9.172  | 106  | 576623   | 73.861 | ug/L  | 96       |
| 77) o Xylene                   | 9.712  | 106  | 557371   | 73.920 | ug/L  | 97       |
| 78) Styrene                    | 9.780  | 104  | 930084   | 73.687 | ug/L  | 98       |
| 80) Bromoform                  | 9.796  | 173  | 96057    | 33.372 | ug/L  | 99       |
| 82) Isopropylbenzene           | 10.126 | 105  | 709331   | 35.828 | ug/L  | 99       |
| 85) n-Propylbenzene            | 10.645 | 91   | 867725   | 33.840 | ug/L  | 98       |
| 87) 1,1,2,2-Tetrachloroethane  | 10.739 | 83   | 164303   | 29.874 | ug/L  | 99       |
| 90) 1,3,5-Trimethylbenzene     | 10.891 | 105  | 595583   | 34.729 | ug/L  | 98       |
| 94) tert-Butylbenzene          | 11.243 | 119  | 492721   | 35.775 | ug/L  | 98       |
| 97) 1,2,4-Trimethylbenzene     | 11.326 | 105  | 598733   | 35.580 | ug/L  | 98       |
| 98) sec-Butylbenzene           | 11.447 | 105  | 746585   | 34.776 | ug/L  | 98       |
| 99) p-Isopropyltoluene         | 11.615 | 119  | 631539   | 36.728 | ug/L  | 99       |
| 100) 1,3-Dichlorobenzene       | 11.662 | 146  | 343615   | 32.986 | ug/L  | 99       |
| 101) 1,4-Dichlorobenzene       | 11.762 | 146  | 344882   | 32.482 | ug/L  | 99       |
| 103) n-Butylbenzene            | 12.061 | 91   | 611695   | 33.972 | ug/L  | 98       |
| 104) 1,2-Dichlorobenzene       | 12.197 | 146  | 317128   | 33.264 | ug/L  | 100      |
| 106) 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 23392    | 34.209 | ug/L  | 98       |
| 109) 1,2,4-Trichlorobenzene    | 13.644 | 180  | 227388   | 37.297 | ug/L  | 98       |
| 110) Naphthalene               | 13.938 | 128  | 458978   | 38.343 | ug/L  | 100      |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
 Data File : V11191230A02.D  
 Acq On : 30 Dec 2019 06:05 am  
 Operator : VOA111:MV  
 Sample : WG1325794-4,31h,15,15,0.1  
 Misc : WG1325794,ICAL16383  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 07:43:37 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191230A\V11191230A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

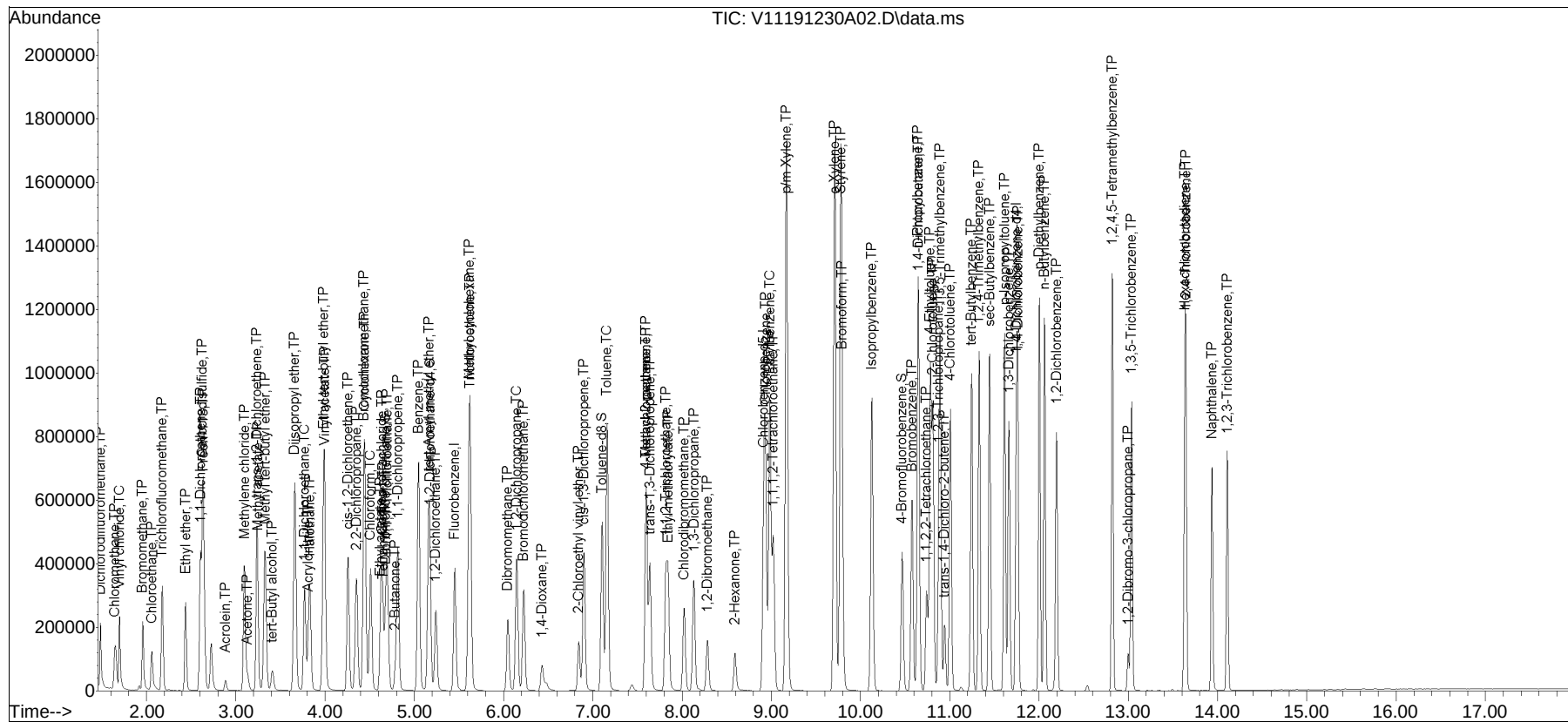
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

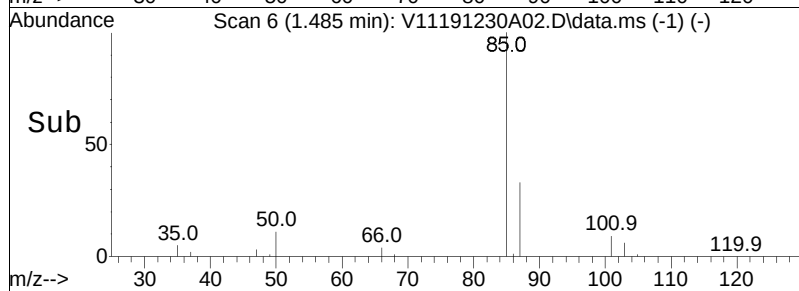
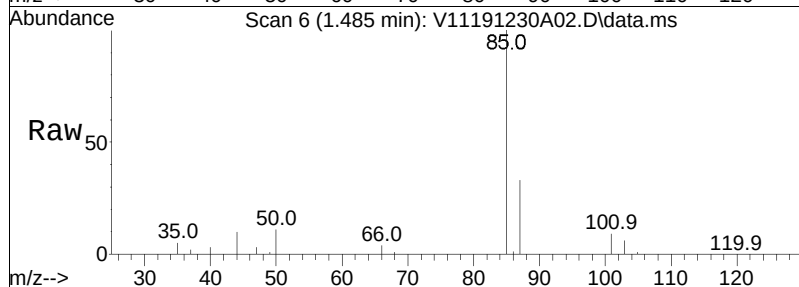
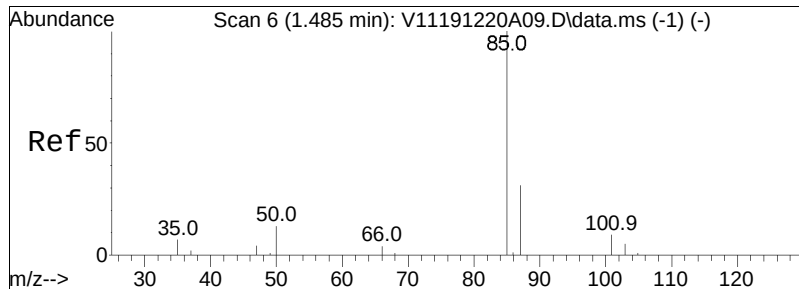
(QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191230A\  
Data File : V11191230A02.D  
Acq On : 30 Dec 2019 06:05 am  
Operator : VOA111:MV  
Sample : WG1325794-4, 31h, 15, 15, 0.1  
Misc : WG1325794, ICAL16383  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 07:43:37 2019  
Quant Method : I:\VOLATILES\VOA111\2019\191230A\V111\_191220A\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Fri Dec 20 14:19:02 2019  
Response via : Initial Calibration

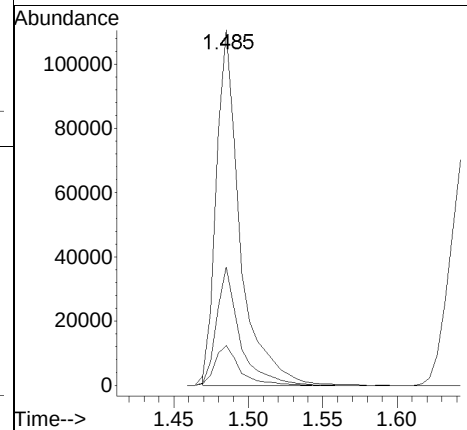
Sub List : 8260-CurveSoil - Megamix plus Diox0A\V11191230A01.D•

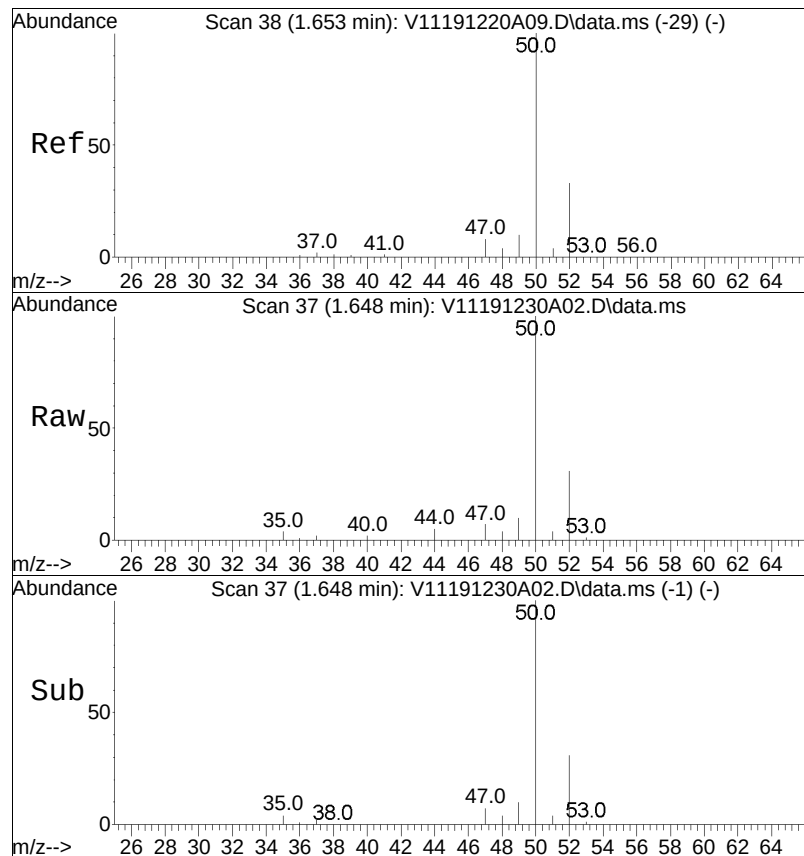




#2  
 Dichlorodifluoromethane  
 Concen: 30.27 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

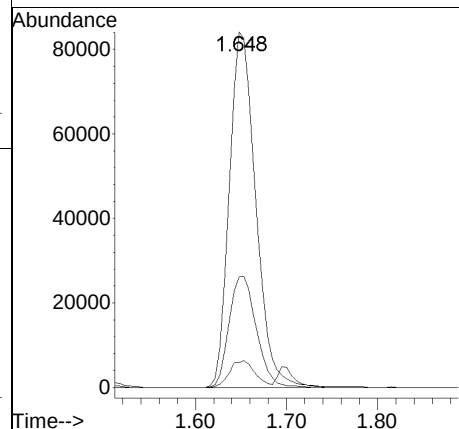
| Tgt Ion | 85  | 87   | 50   | Ratio | 100 | 32.2 | 11.6 | Resp: | 123068 | Lower | Upper |
|---------|-----|------|------|-------|-----|------|------|-------|--------|-------|-------|
| 85      | 100 |      |      |       |     |      |      |       |        |       |       |
| 87      |     | 32.2 |      |       |     | 20.7 |      |       |        |       | 43.1  |
| 50      |     |      | 11.6 |       |     | 9.8  |      |       |        |       | 20.3  |

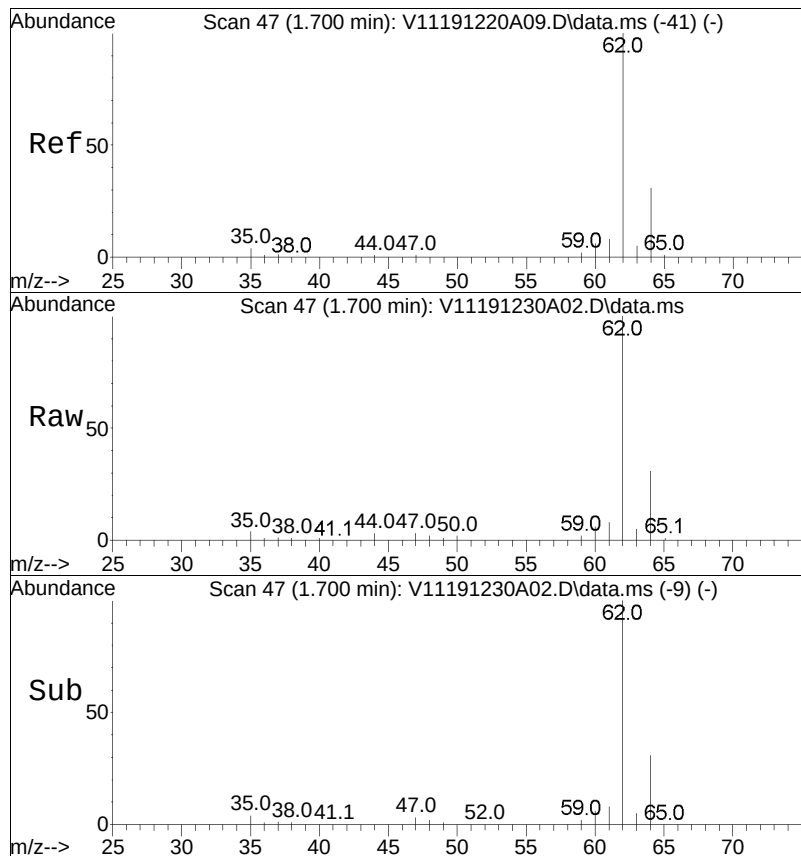




#3  
 Chloromethane  
 Concen: 30.16 ug/L  
 RT: 1.648 min Scan# 37  
 Delta R.T. -0.005 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

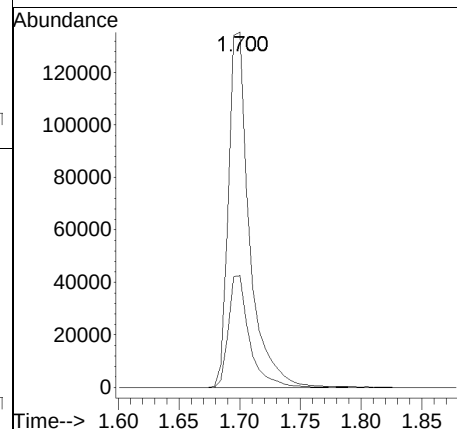
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 50    | Resp: | 170043 |
| Ion Ratio | Lower | Upper |        |
| 50        | 100   |       |        |
| 52        | 32.1  | 10.9  | 50.9   |
| 47        | 7.4   | 0.0   | 27.2   |

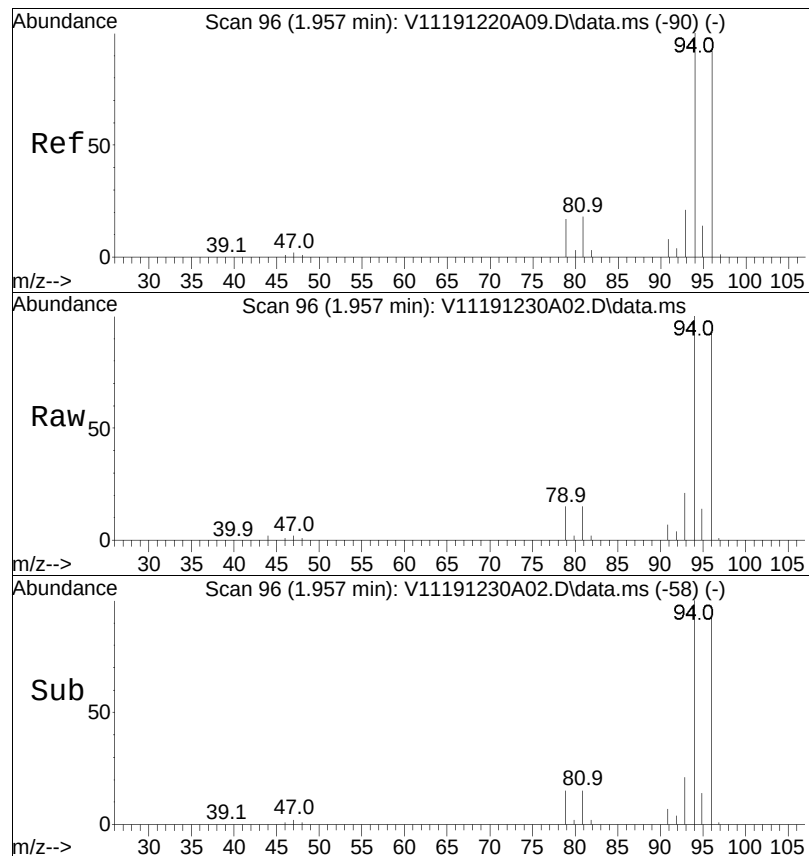




#4  
 Vinyl chloride  
 Concen: 31.68 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

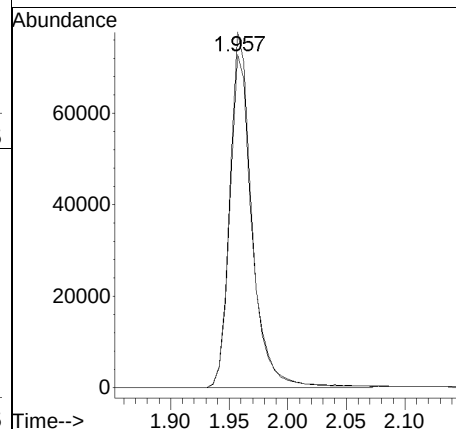
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.4  | 9.9   | 49.9  |

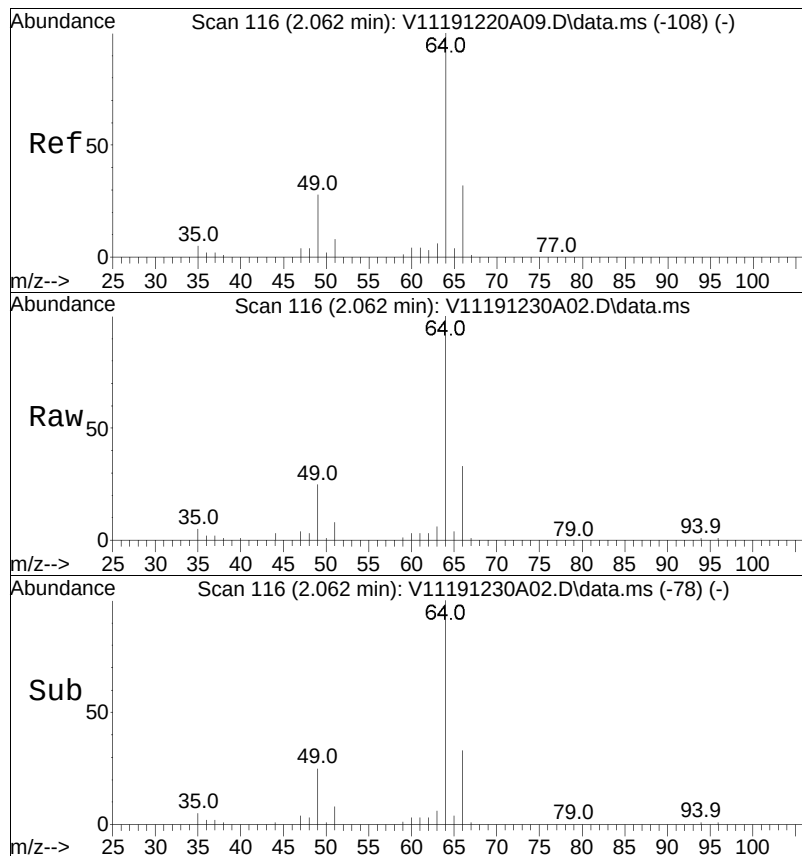




#5  
 Bromomethane  
 Concen: 36.05 ug/L  
 RT: 1.957 min Scan# 96  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

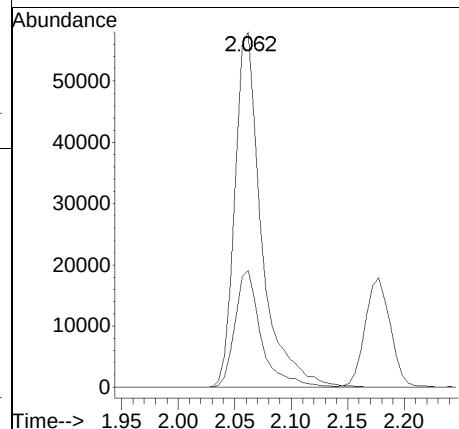
| Tgt Ion | 94     | 96 | Ratio | Lower | Upper |
|---------|--------|----|-------|-------|-------|
| Resp    | 102823 |    |       |       |       |
| Ion     | 100    |    |       |       |       |
| Ratio   | 94.7   |    |       |       |       |
| Lower   | 72.6   |    |       |       |       |
| Upper   | 112.6  |    |       |       |       |

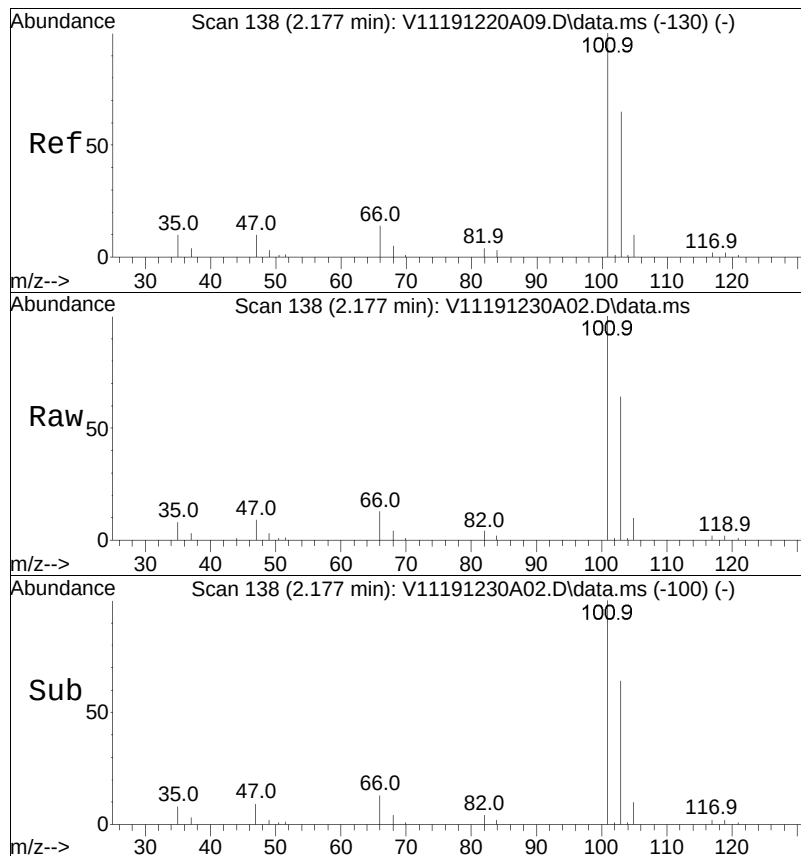




#6  
 Chloroethane  
 Concen: 31.62 ug/L  
 RT: 2.062 min Scan# 116  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

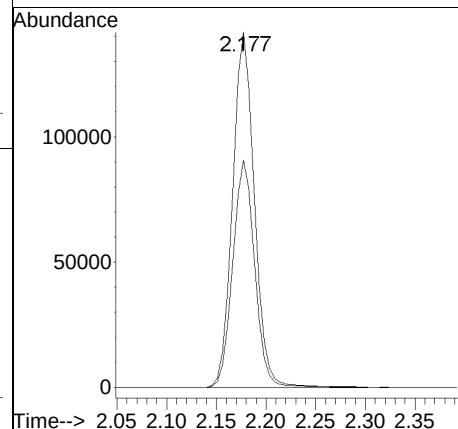
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 32.5  | 10.2  | 50.2  |



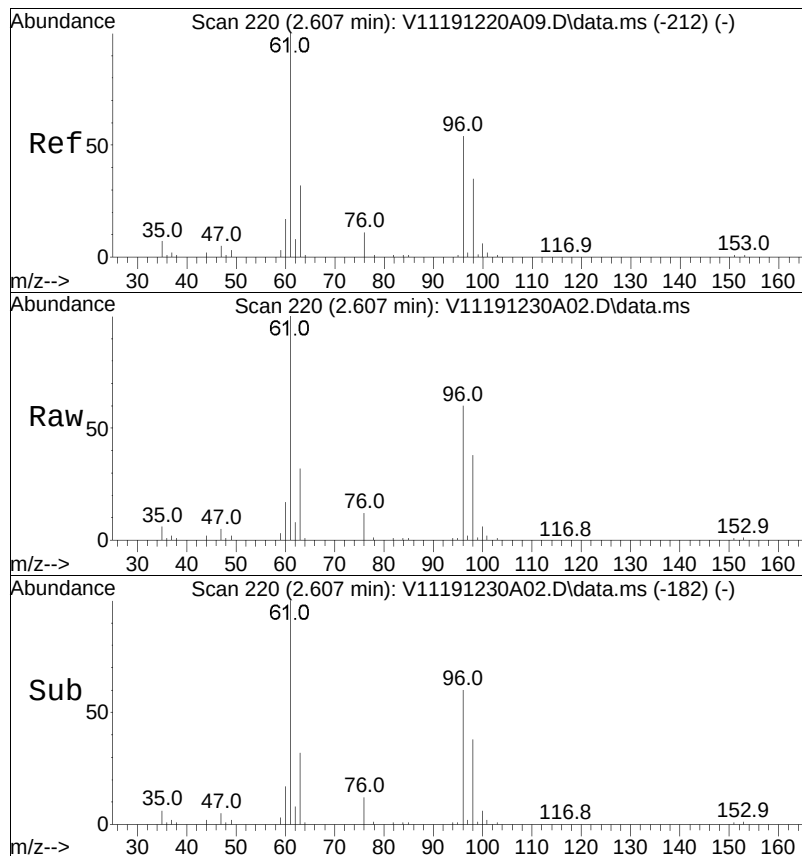


#7  
 Trichlorofluoromethane  
 Concen: 35.33 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.4  | 51.8  | 77.6  |

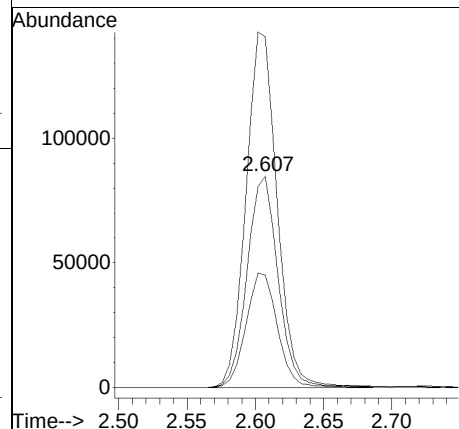


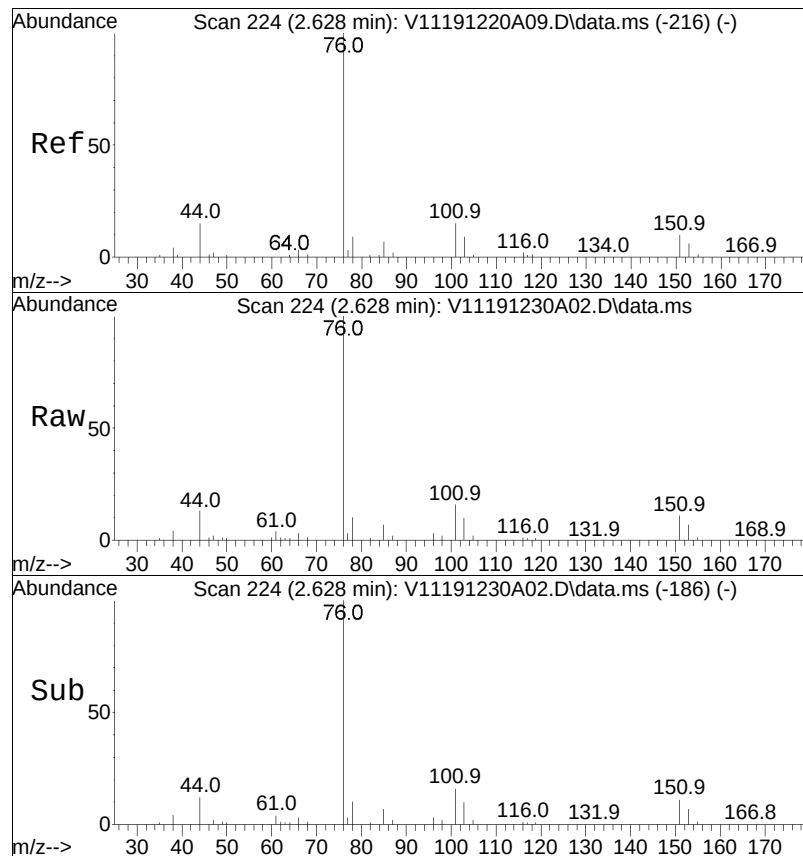




#10  
 1,1-Dichloroethene  
 Concen: 37.52 ug/L  
 RT: 2.607 min Scan# 220  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

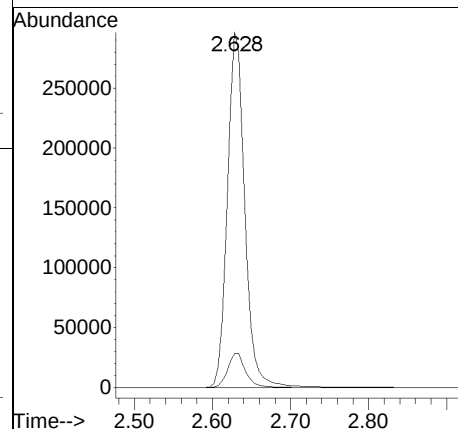
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 96 | Resp: | 133806 |
| Ion | Ratio   | Lower | Upper  |
| 96  | 100     |       |        |
| 61  | 169.5   | 157.7 | 236.5  |
| 63  | 54.8    | 47.9  | 71.9   |

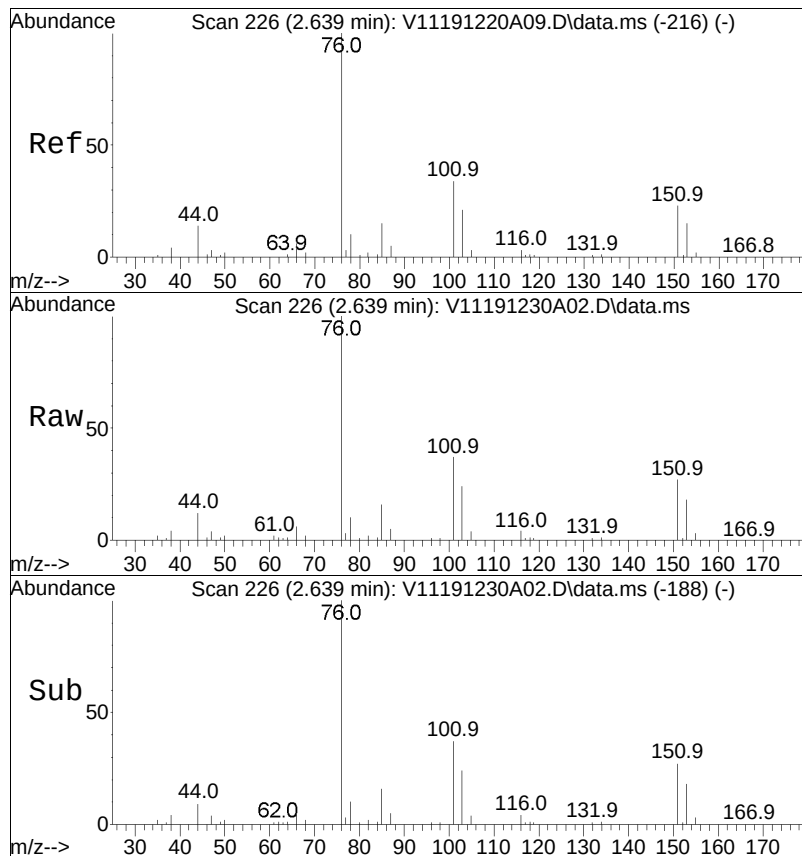




#11  
Carbon disulfide  
Concen: 31.37 ug/L  
RT: 2.628 min Scan# 224  
Delta R.T. 0.000 min  
Lab File: V11191230A02.D  
Acq: 30 Dec 2019 06:05 am

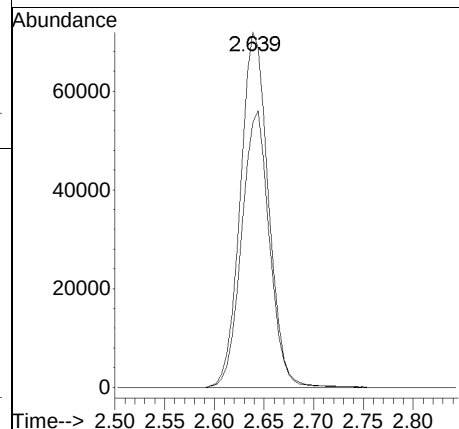
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.8   | 6.4   | 13.4  |

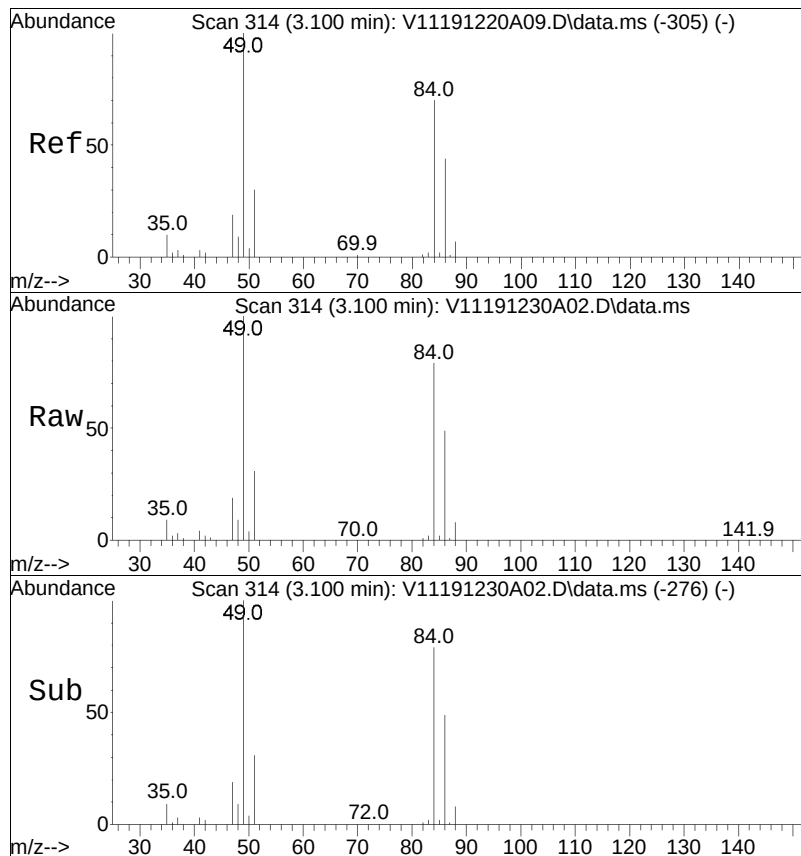




#12  
 Freon-113  
 Concen: 37.84 ug/L  
 RT: 2.639 min Scan# 226  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

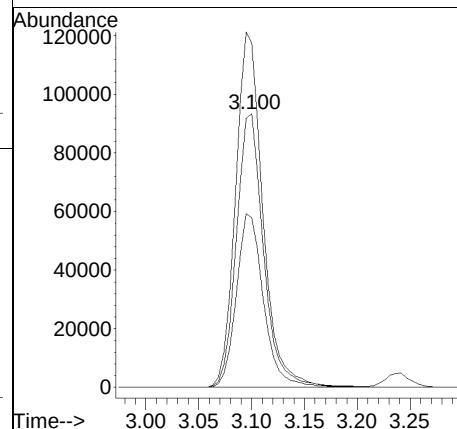
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 101 | 100  |       |       |       |
| 151 | 77.1 | 62.2  | 93.4  |       |

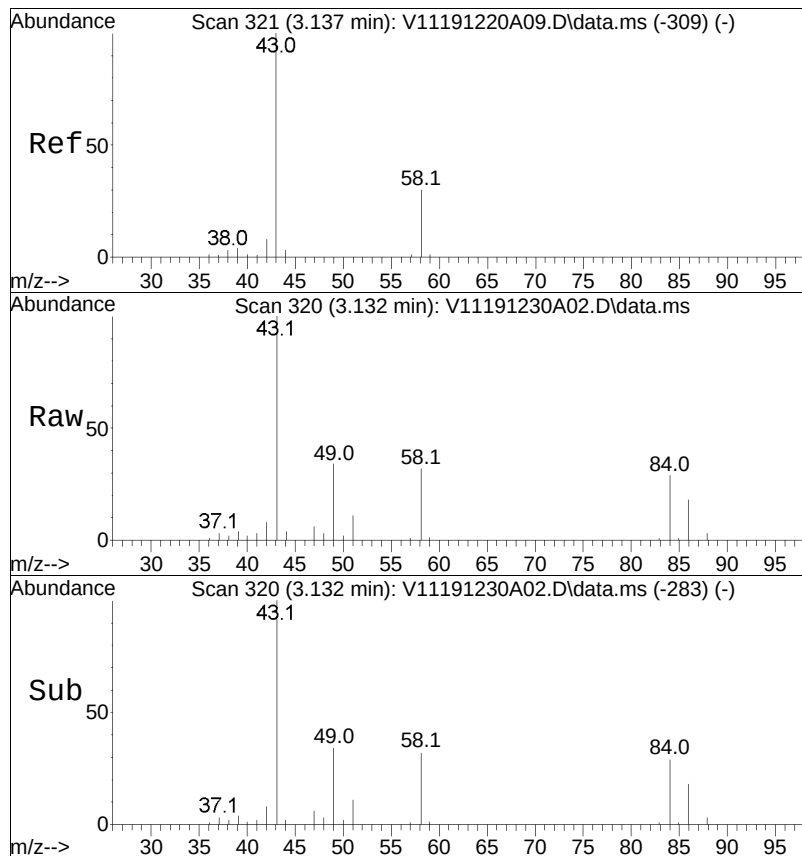




#15  
 Methylene chloride  
 Concen: 33.45 ug/L  
 RT: 3.100 min Scan# 314  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

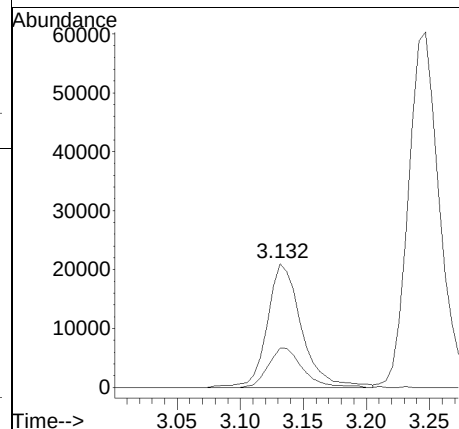
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 86      | 63.3  | 41.1  | 85.3  |
| 49      | 130.0 | 124.2 | 258.0 |

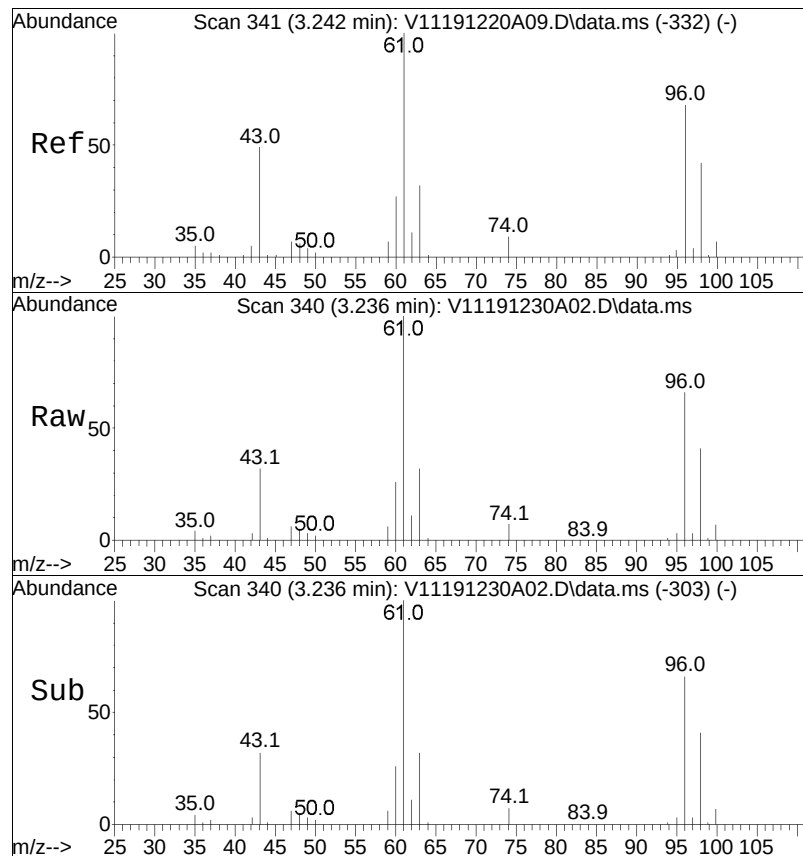




#17  
 Acetone  
 Concen: 35.00 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.006 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

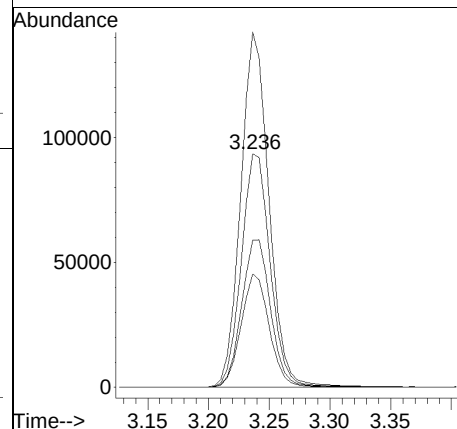
Tgt Ion: 43 Resp: 39756  
 Ion Ratio Lower Upper  
 43 100  
 58 31.8 20.8 31.2#

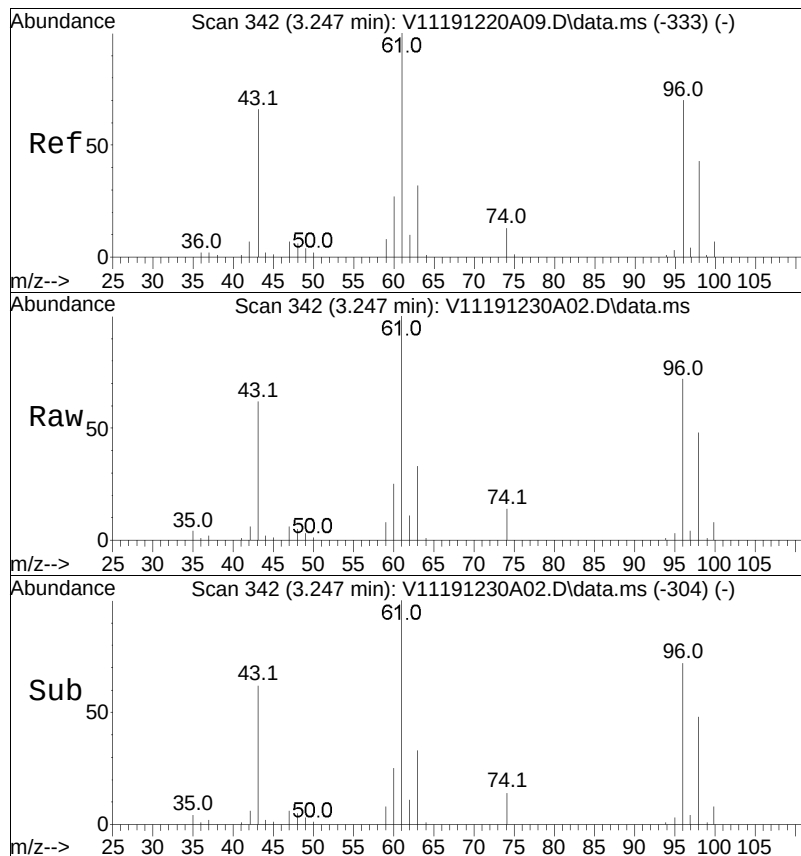




#18  
 trans-1,2-Dichloroethene  
 Concen: 37.53 ug/L  
 RT: 3.236 min Scan# 340  
 Delta R.T. -0.006 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

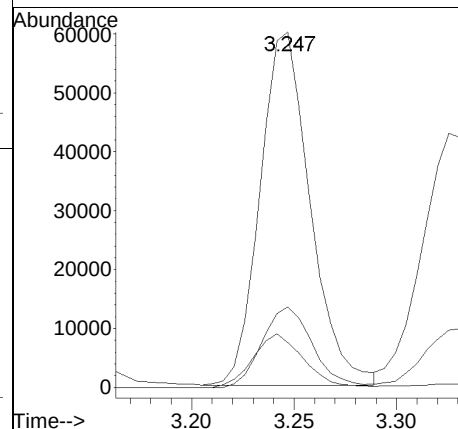
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 155195 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 148.6 | 111.1 | 230.8  |
| 98        | 63.6  | 41.8  | 86.8   |
| 63        | 47.6  | 33.3  | 69.1   |

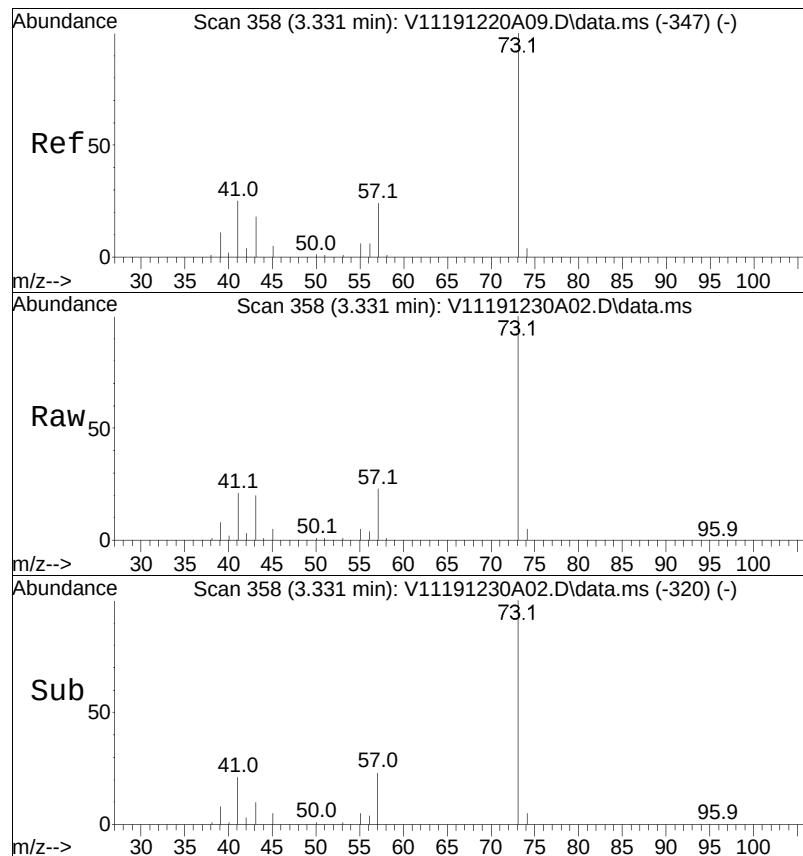




#19  
Methyl acetate  
Concen: 33.62 ug/L  
RT: 3.247 min Scan# 342  
Delta R.T. -0.000 min  
Lab File: V11191230A02.D  
Acq: 30 Dec 2019 06:05 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 22.8  | 11.3  | 16.9# |
| 59      | 15.2  | 10.4  | 15.6  |





#20

Methyl tert-butyl ether

Concen: 38.79 ug/L

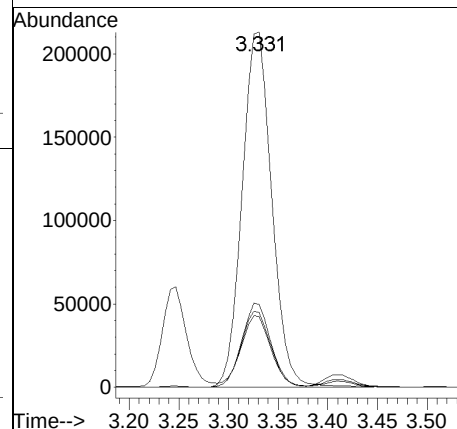
RT: 3.331 min Scan# 358

Delta R.T. -0.000 min

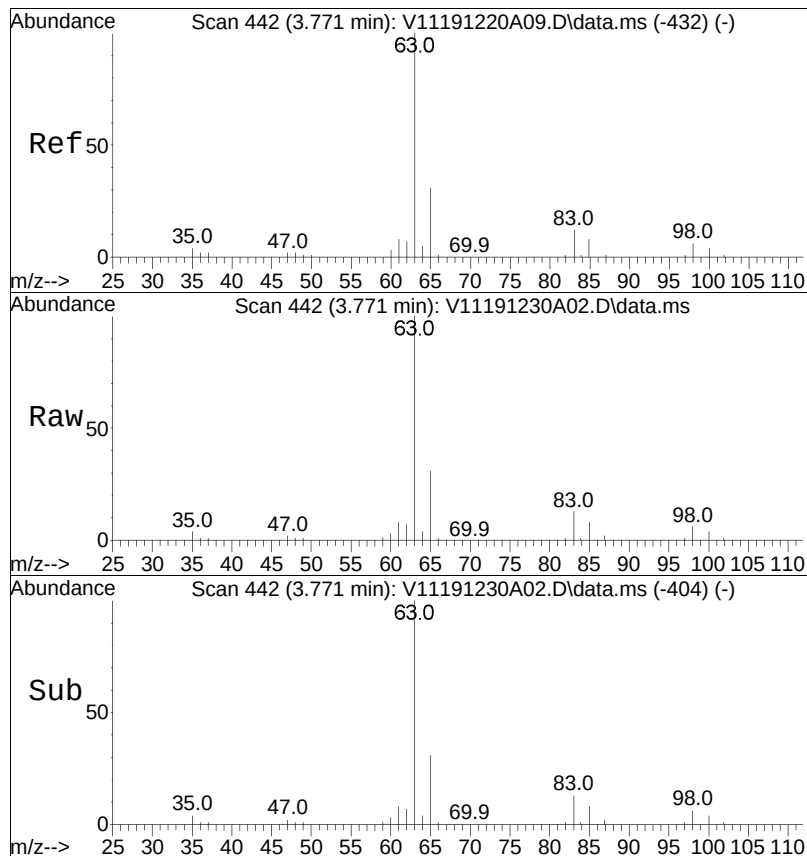
Lab File: V11191230A02.D

Acq: 30 Dec 2019 06:05 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 73 | Resp: | 443844 |
| Ion | Ratio   | Lower | Upper  |
| 73  | 100     |       |        |
| 57  | 23.3    | 19.6  | 40.6   |
| 43  | 20.2    | 18.5  | 38.3   |
| 41  | 21.6    | 20.3  | 42.1   |

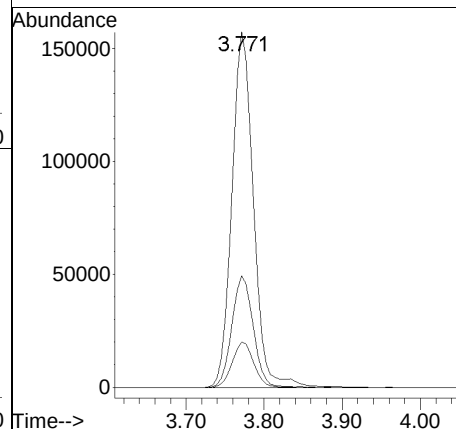


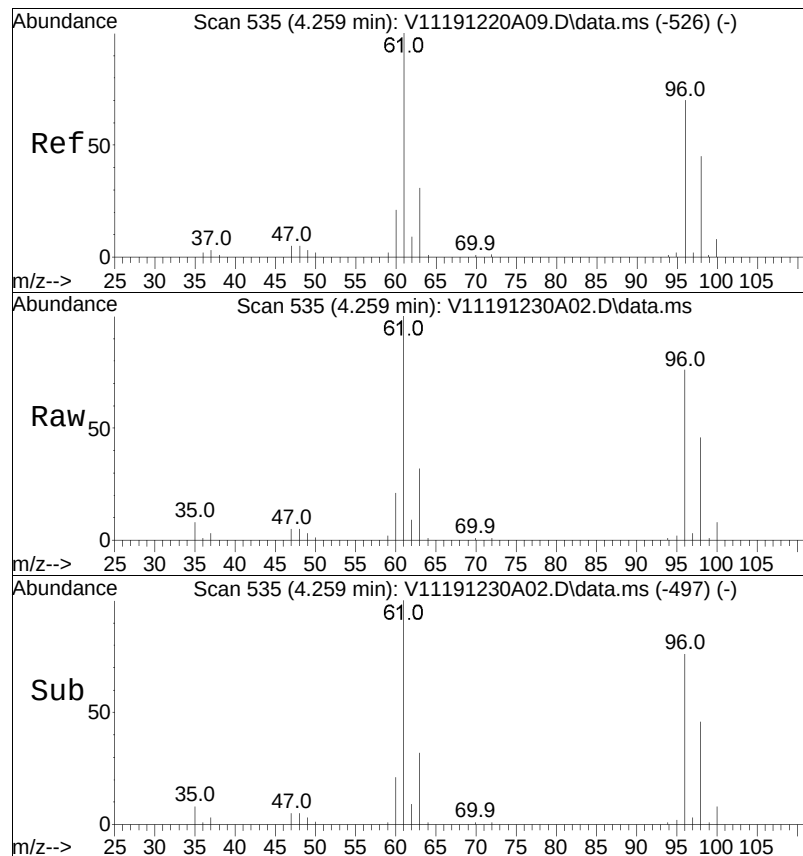




#23  
 1,1-Dichloroethane  
 Concen: 34.68 ug/L  
 RT: 3.771 min Scan# 442  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

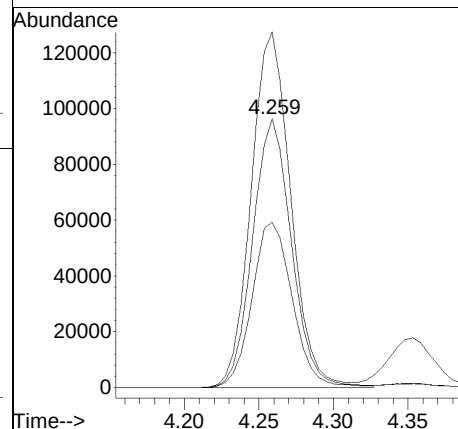
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 302679 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 65  | 31.1    | 9.0   | 49.0   |
| 83  | 12.7    | 0.0   | 31.4   |

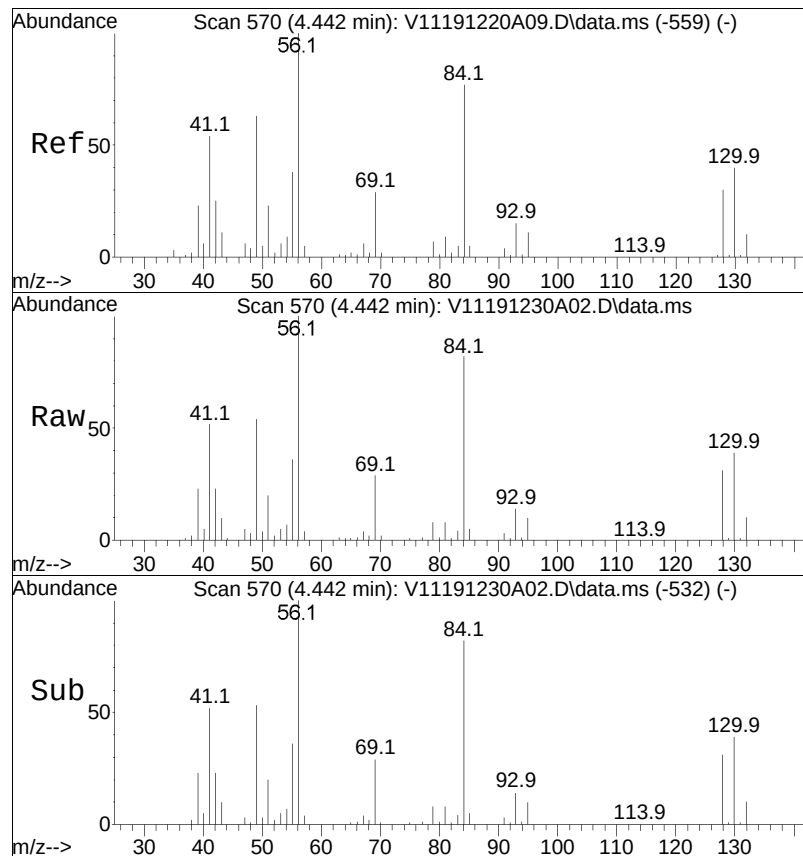




#28  
 cis-1,2-Dichloroethene  
 Concen: 38.41 ug/L  
 RT: 4.259 min Scan# 535  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

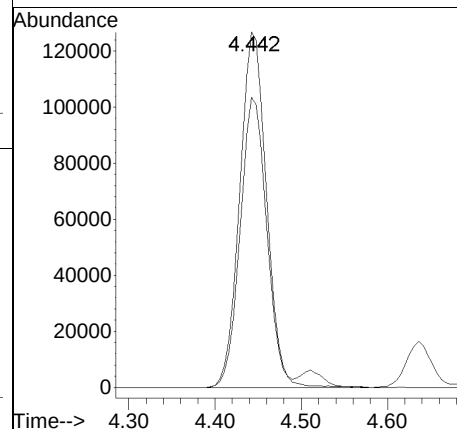
| Tgt Ion:  | 96    | Resp: | 174935 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 134.1 | 126.3 | 189.5  |
| 98        | 63.5  | 51.0  | 76.6   |

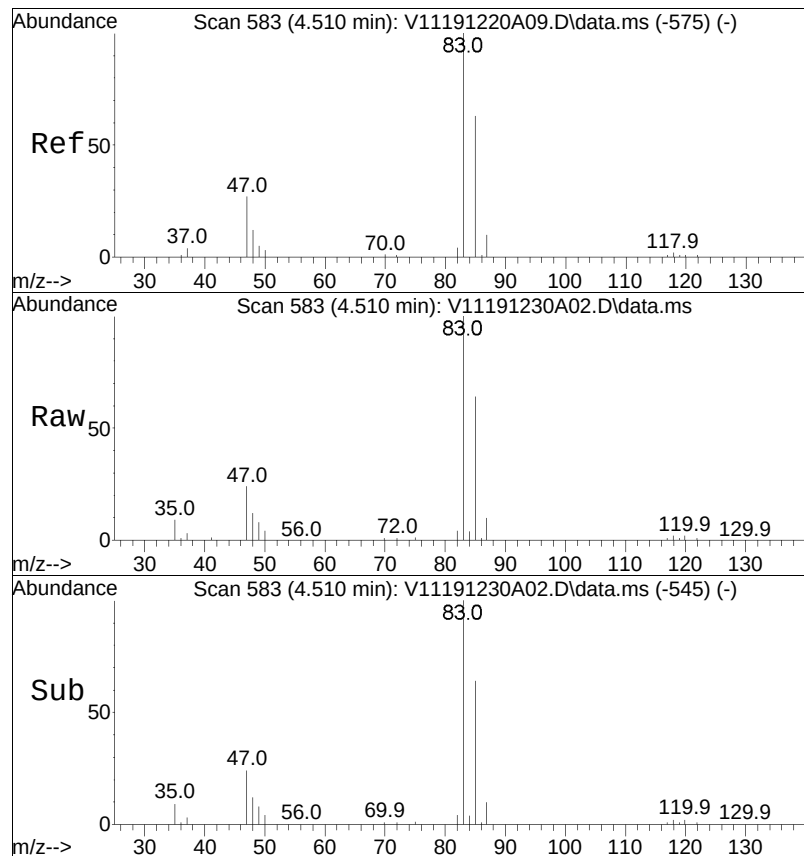




#31  
Cyclohexane  
Concen: 38.49 ug/L  
RT: 4.442 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: V11191230A02.D  
Acq: 30 Dec 2019 06:05 am

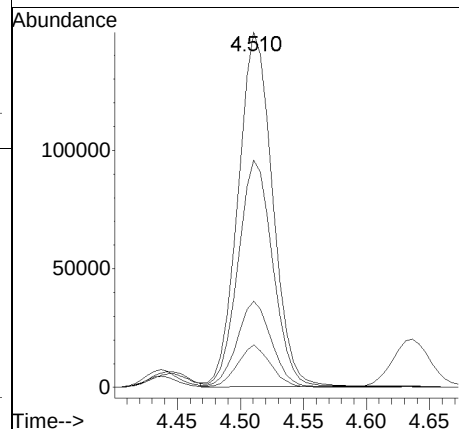
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 56  | 100  |       |       |       |
| 84  | 80.9 | 40.5  | 84.1  |       |

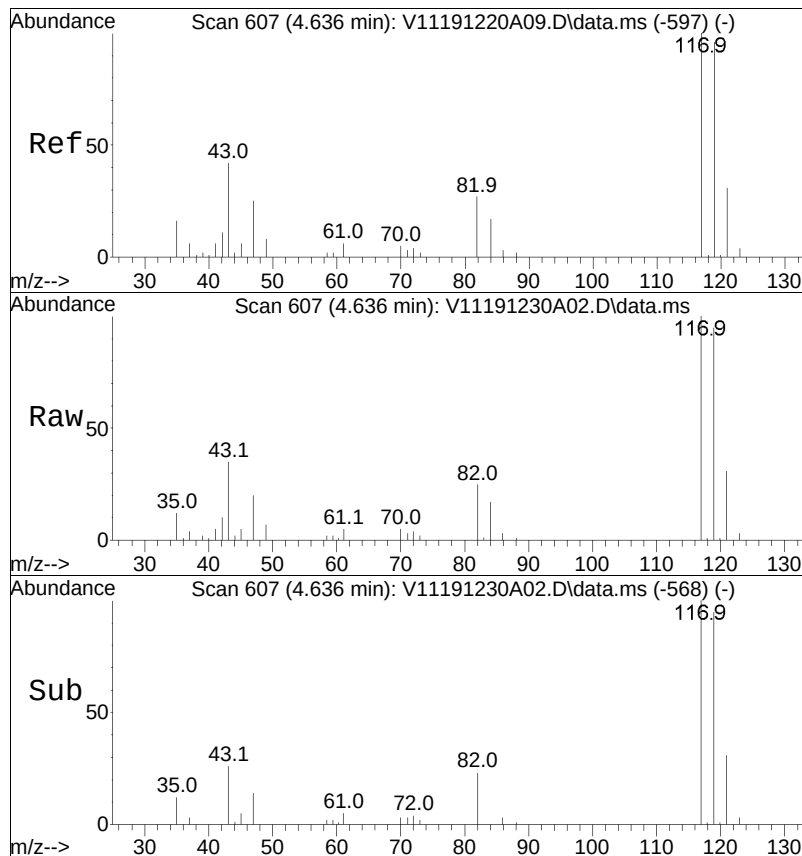




#32  
 Chloroform  
 Concen: 35.13 ug/L  
 RT: 4.510 min Scan# 583  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

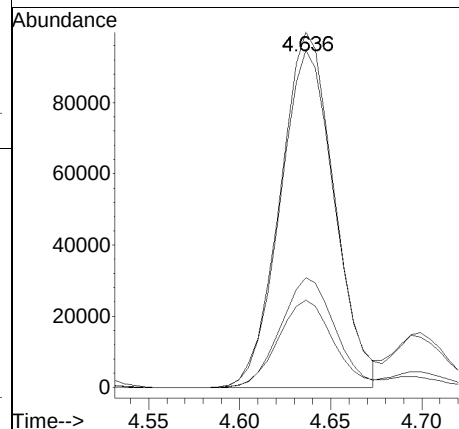
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 284033 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.6  | 41.9  | 87.1   |
| 47       | 24.2  | 20.9  | 43.3   |
| 48       | 11.6  | 9.9   | 20.5   |

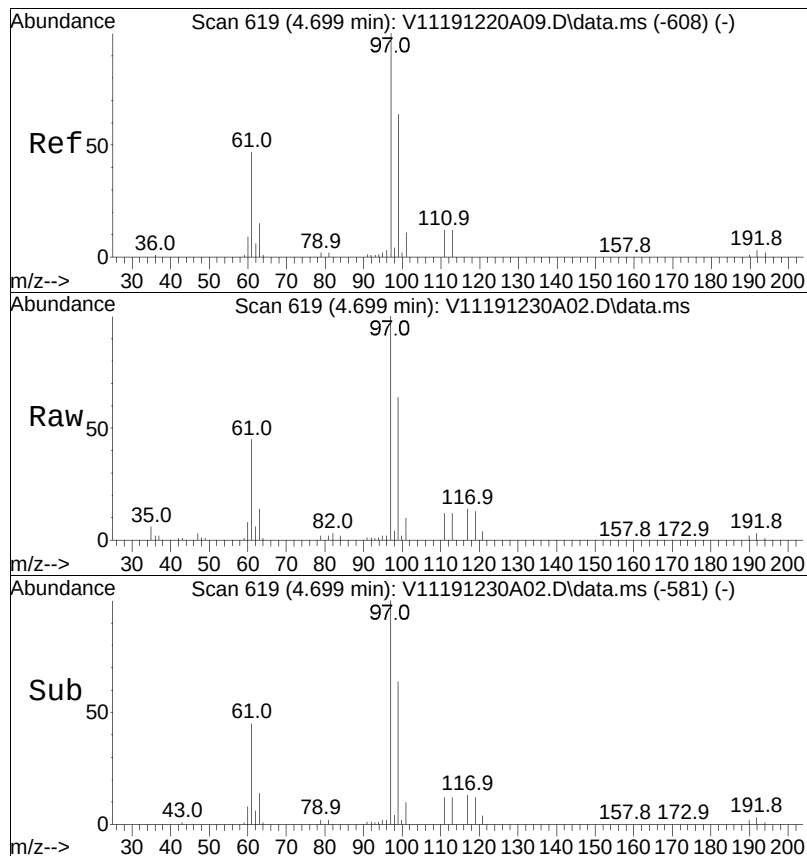




#34  
Carbon tetrachloride  
Concen: 37.35 ug/L  
RT: 4.636 min Scan# 607  
Delta R.T. 0.000 min  
Lab File: V11191230A02.D  
Acq: 30 Dec 2019 06:05 am

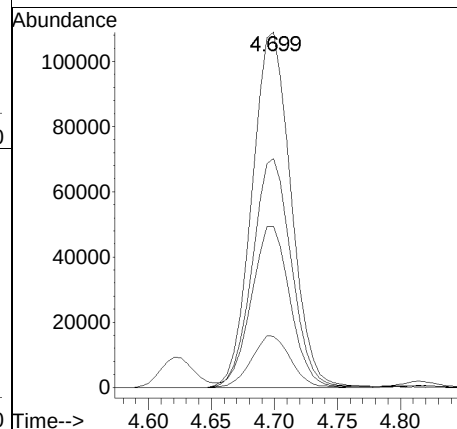
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 206072 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 96.6  | 64.0  | 132.8  |
| 121       | 30.9  | 20.7  | 42.9   |
| 82        | 25.4  | 16.3  | 33.8   |

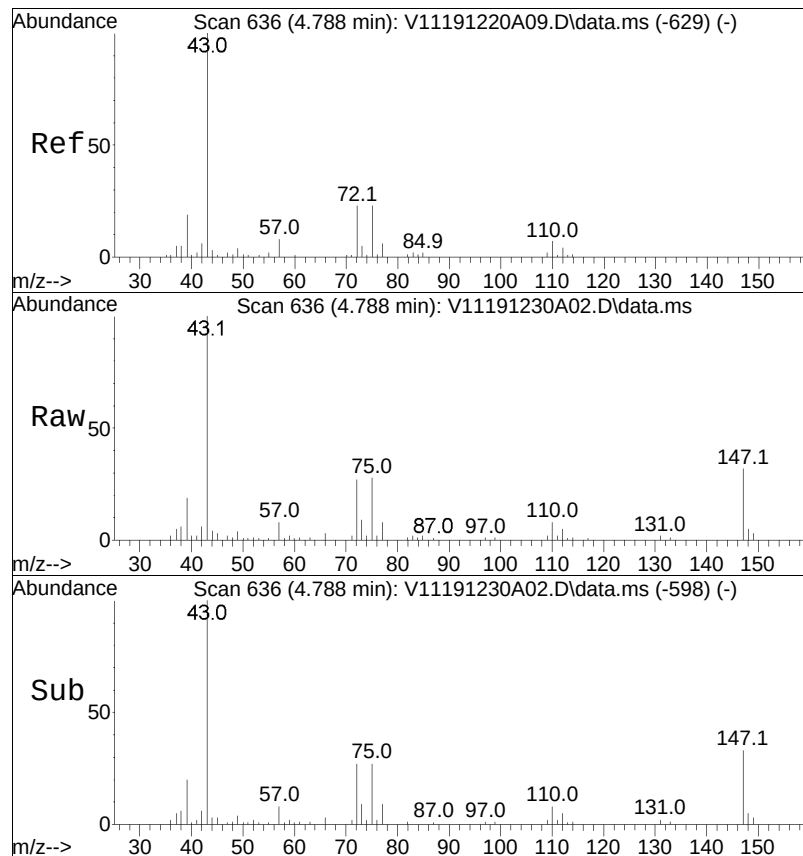




#37  
 1,1,1-Trichloroethane  
 Concen: 36.00 ug/L  
 RT: 4.699 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

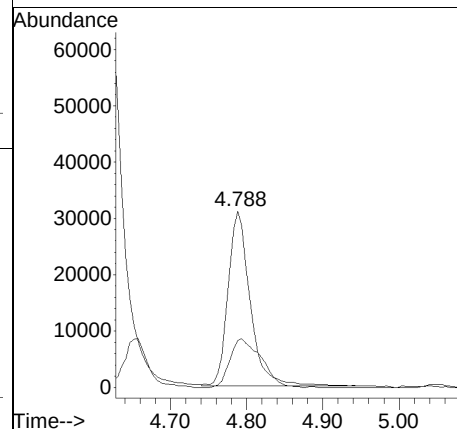
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 234610 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.4  | 41.5  | 86.1   |
| 61        | 45.4  | 32.2  | 67.0   |
| 63        | 14.5  | 10.1  | 20.9   |

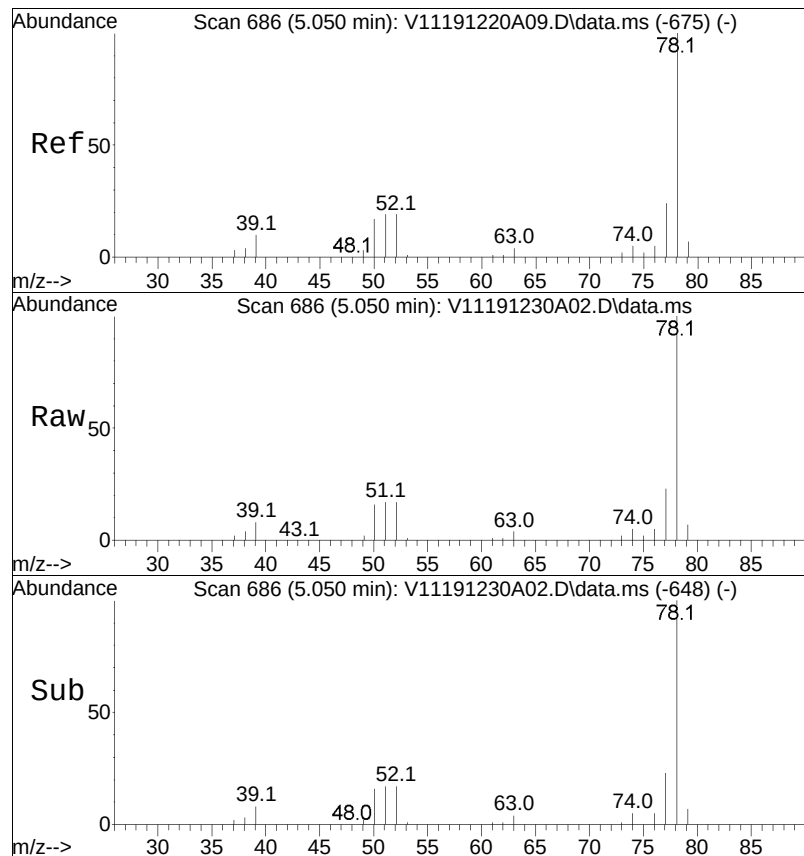




#39  
 2-Butanone  
 Concen: 36.13 ug/L  
 RT: 4.788 min Scan# 636  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

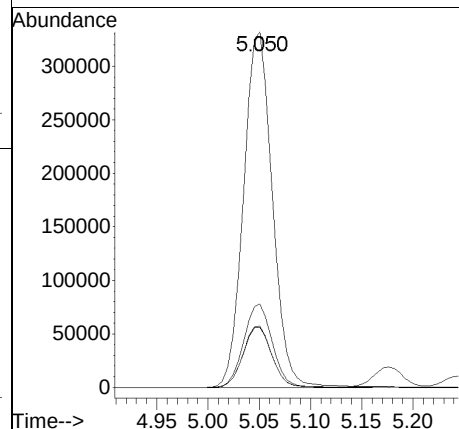
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 43  | 100  |       |       |       |
| 72  | 39.0 | 21.0  | 31.6  |       |



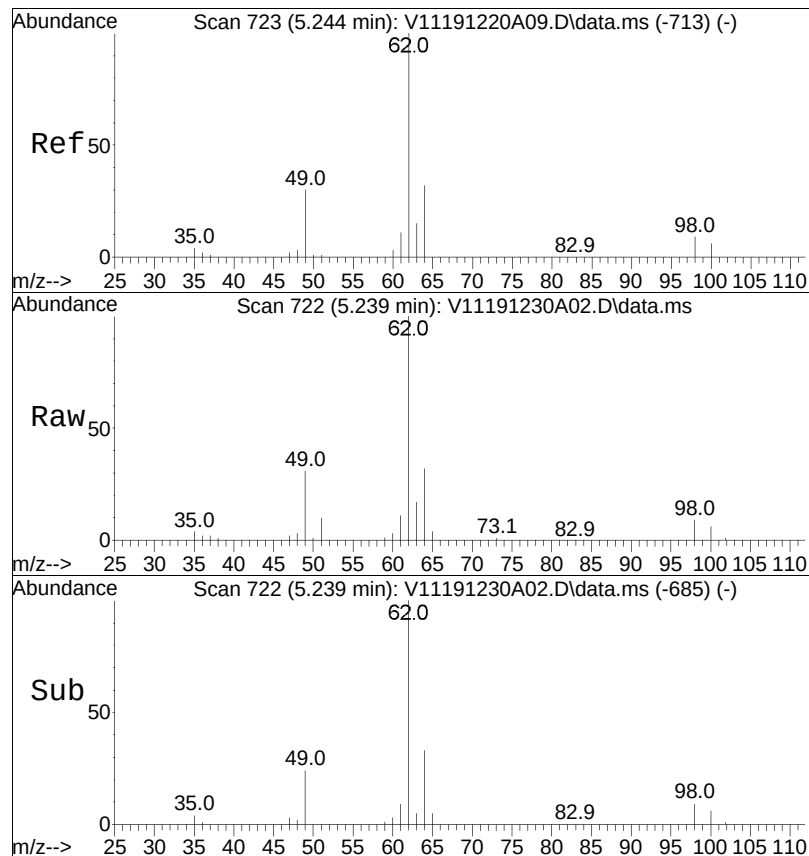


#41  
Benzene  
Concen: 36.18 ug/L  
RT: 5.050 min Scan# 686  
Delta R.T. 0.000 min  
Lab File: V11191230A02.D  
Acq: 30 Dec 2019 06:05 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 78 | Resp: | 648852 |
| Ion | Ratio   | Lower | Upper  |
| 78  | 100     |       |        |
| 77  | 23.4    | 15.1  | 31.3   |
| 51  | 17.2    | 15.8  | 32.8   |
| 52  | 17.0    | 15.6  | 32.4   |

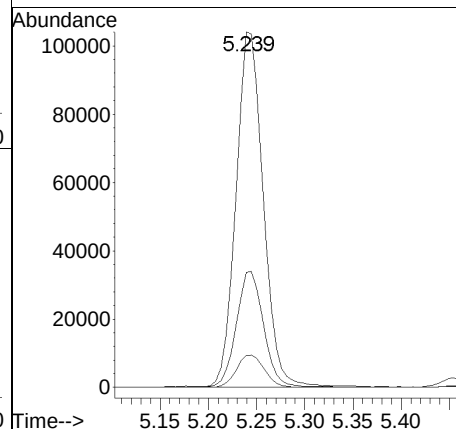


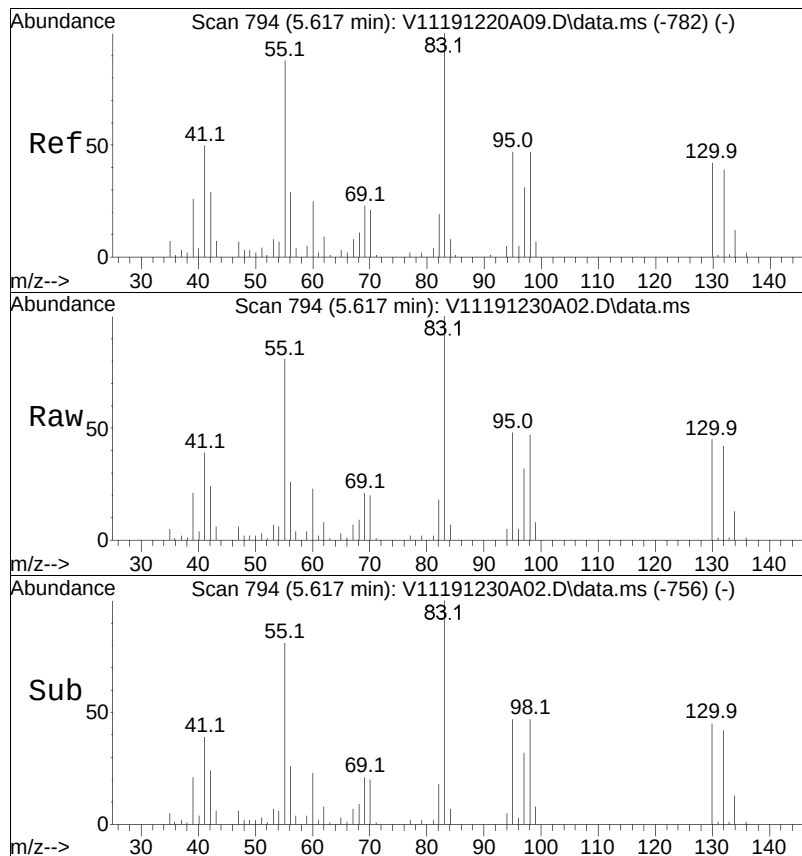




#44  
 1,2-Dichloroethane  
 Concen: 33.50 ug/L  
 RT: 5.239 min Scan# 722  
 Delta R.T. -0.005 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 62 | Resp: | 205867 |
| Ion | Ratio   | Lower | Upper  |
| 62  | 100     |       |        |
| 64  | 32.6    | 11.1  | 51.1   |
| 98  | 9.3     | 0.0   | 28.0   |





#47

Methyl cyclohexane

Concen: 39.61 ug/L

RT: 5.617 min Scan# 794

Delta R.T. -0.000 min

Lab File: V11191230A02.D

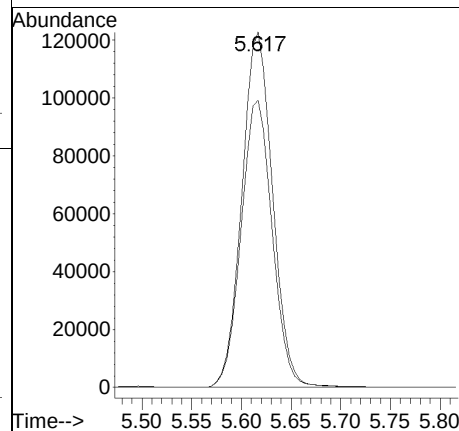
Acq: 30 Dec 2019 06:05 am

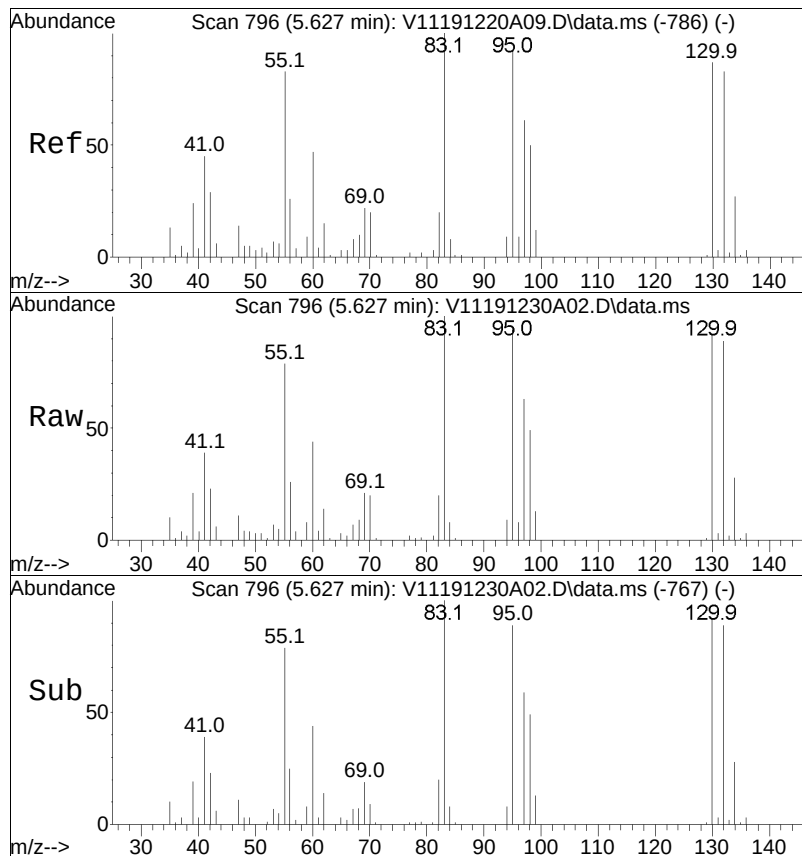
Tgt Ion: 83 Resp: 264564

Ion Ratio Lower Upper

83 100

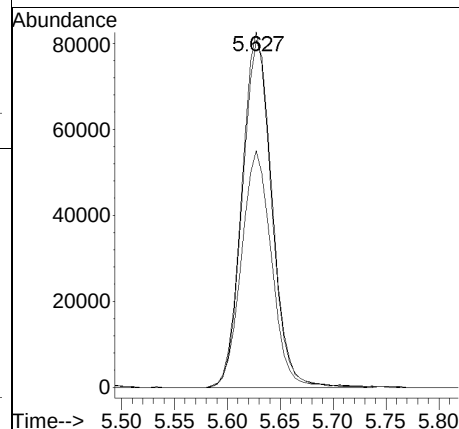
55 82.0 88.1 132.1#

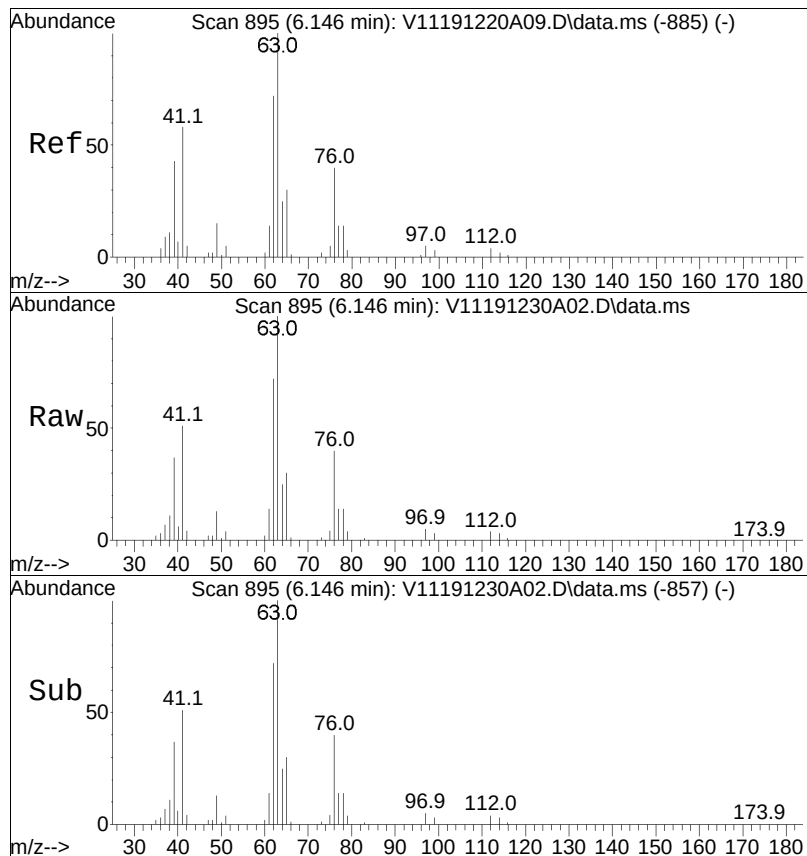




#48  
 Trichloroethene  
 Concen: 37.09 ug/L  
 RT: 5.627 min Scan# 796  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

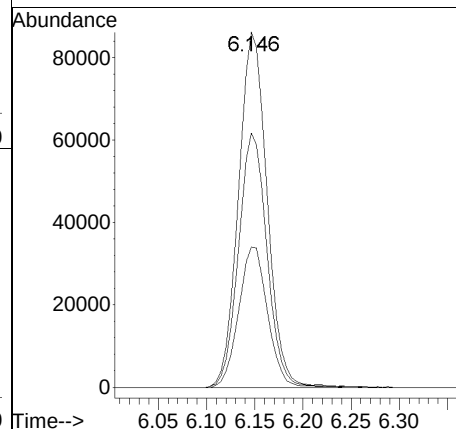
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 67.9  | 54.3  | 81.5  |
| 130     | 99.0  | 84.6  | 126.8 |

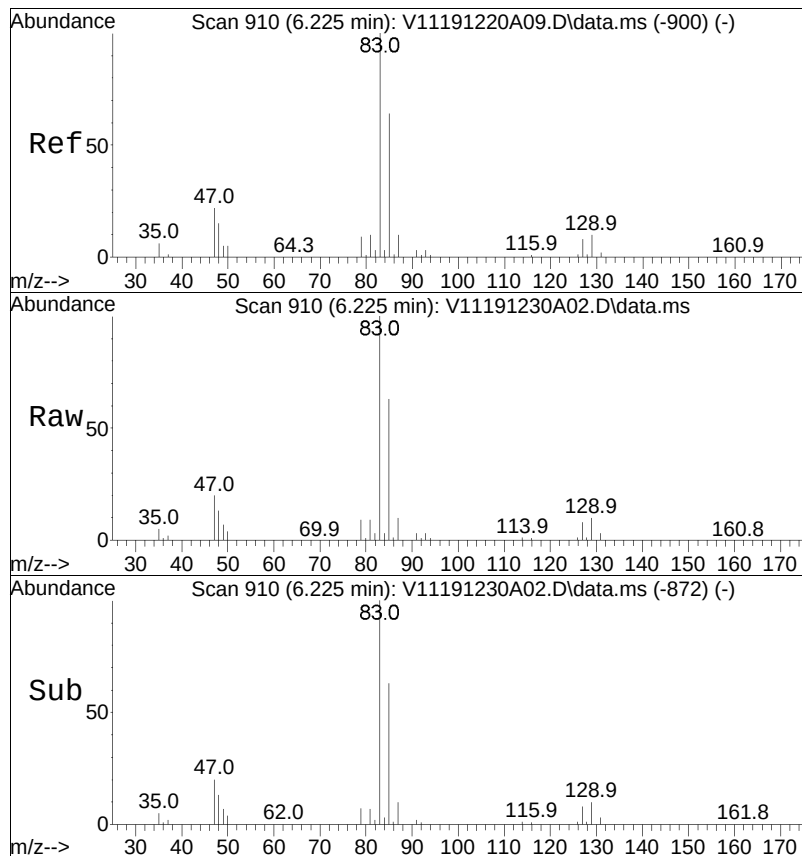




#51  
 1,2-Dichloropropane  
 Concen: 36.01 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 63  | 100  |       |       |       |
| 62  | 71.2 | 57.9  | 86.9  |       |
| 76  | 40.0 | 30.1  | 45.1  |       |





#54

Bromodichloromethane

Concen: 35.57 ug/L

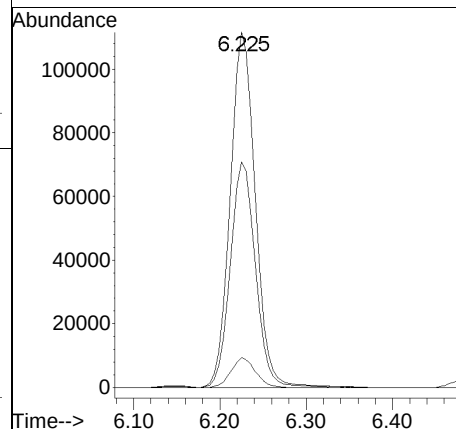
RT: 6.225 min Scan# 910

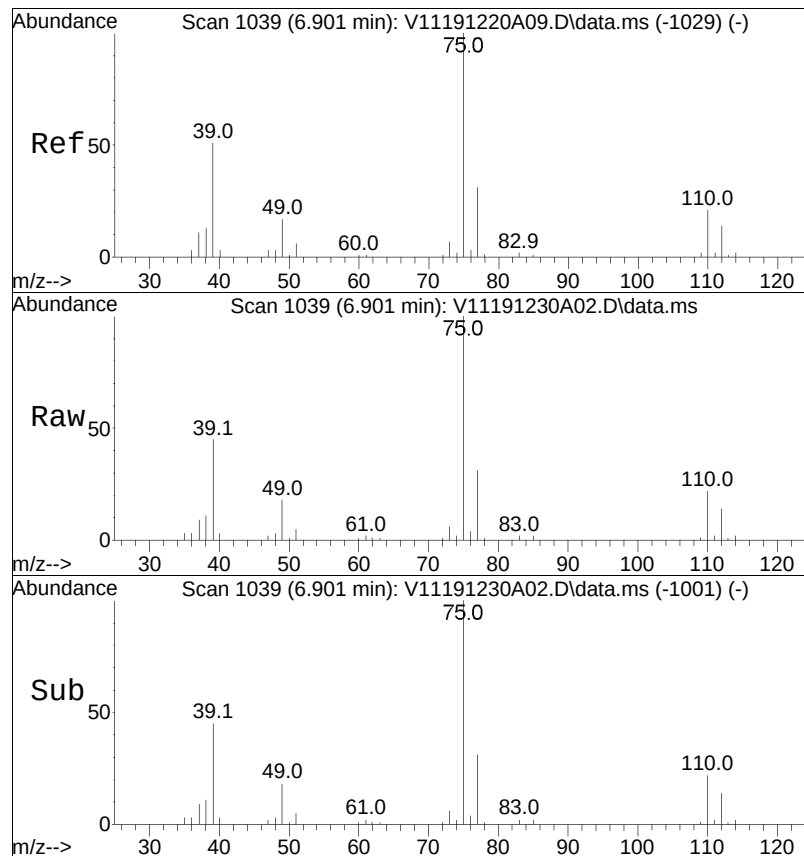
Delta R.T. -0.000 min

Lab File: V11191230A02.D

Acq: 30 Dec 2019 06:05 am

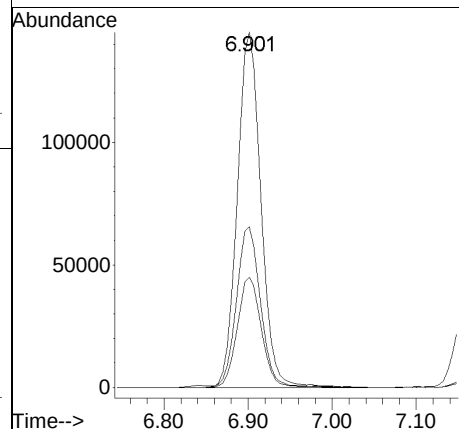
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 225524 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 63.5    | 51.6  | 77.4   |
| 127 | 8.1     | 7.1   | 10.7   |

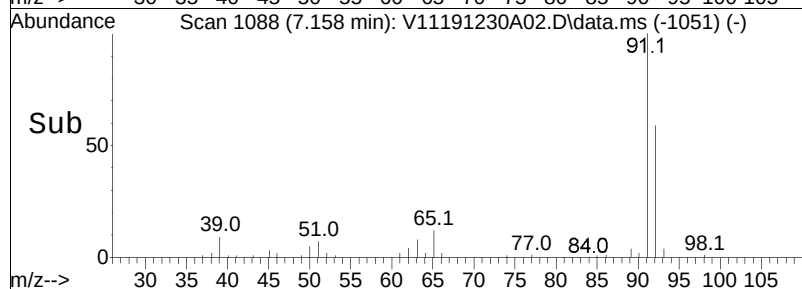
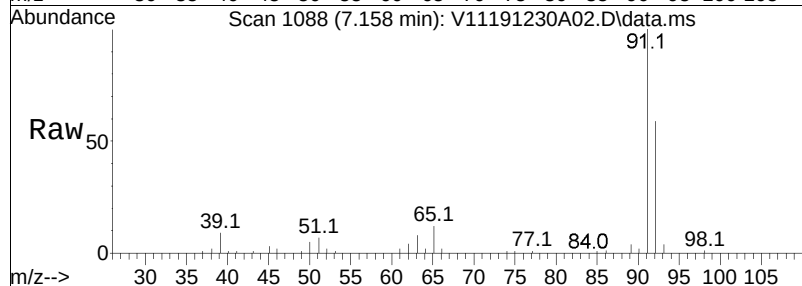
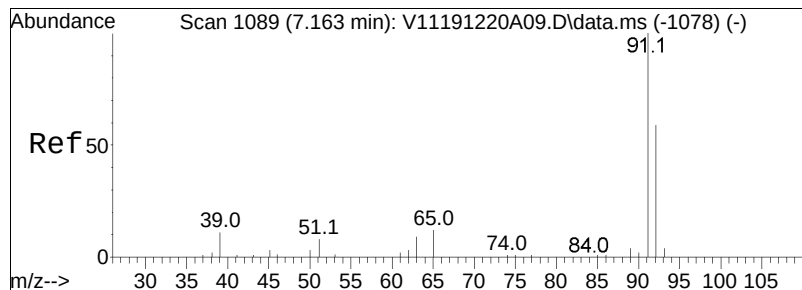




#58  
 cis-1,3-Dichloropropene  
 Concen: 39.41 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.6  | 24.9  | 37.3  |
| 39      | 46.0  | 51.8  | 77.8# |





#61

Toluene

Concen: 33.15 ug/L

RT: 7.158 min Scan# 1088

Delta R.T. -0.005 min

Lab File: V11191230A02.D

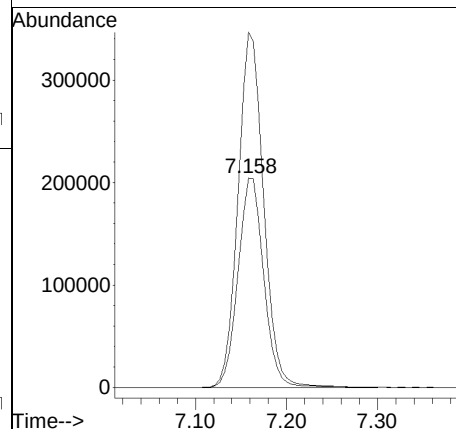
Acq: 30 Dec 2019 06:05 am

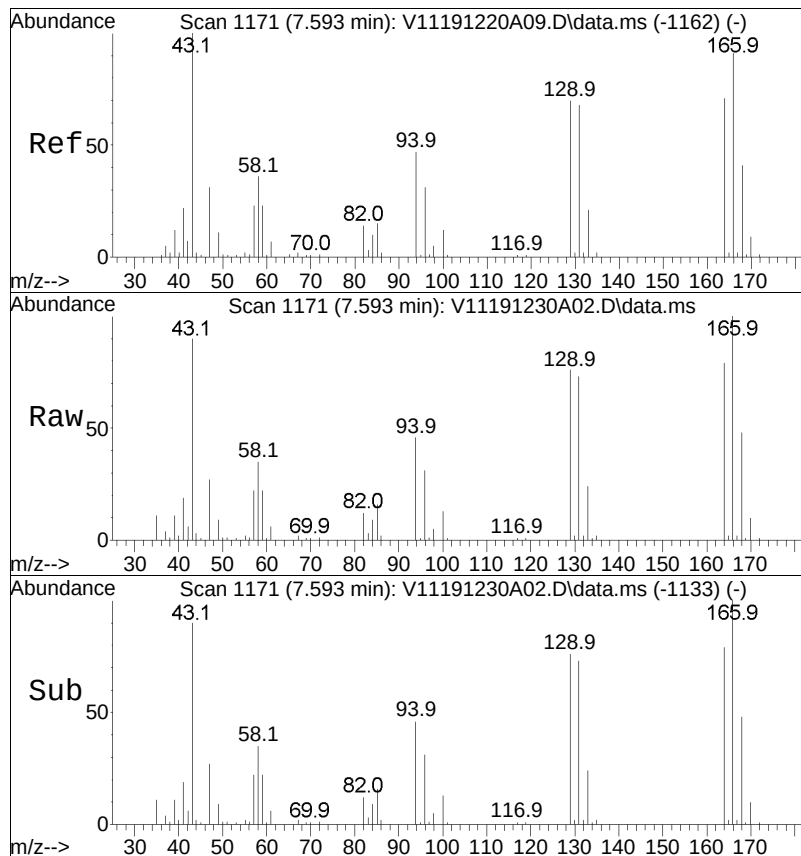
Tgt Ion: 92 Resp: 401605

Ion Ratio Lower Upper

92 100

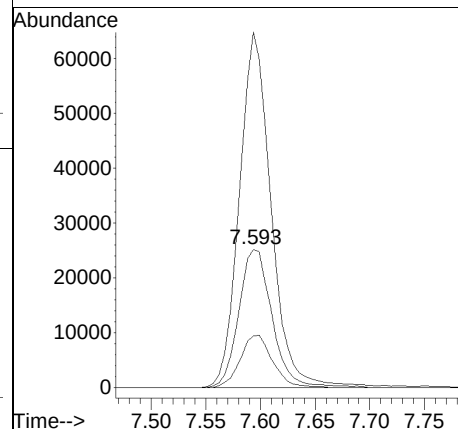
91 168.2 133.7 200.5



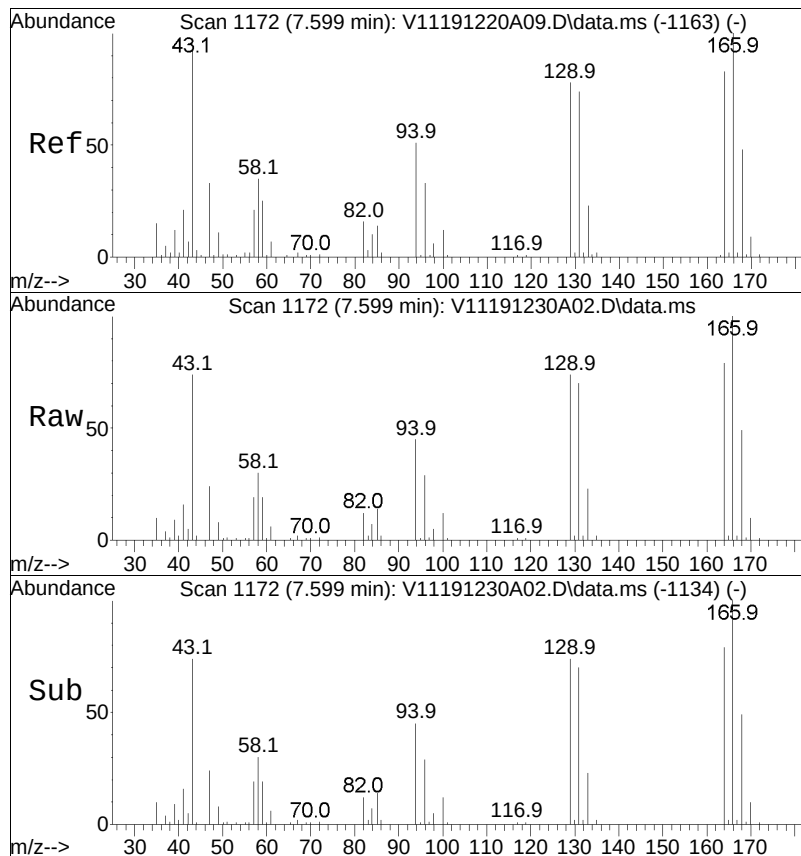


#62  
 4-Methyl-2-pentanone  
 Concen: 34.51 ug/L  
 RT: 7.593 min Scan# 1171  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt | Ion   | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   |       |       |       |
| 100 | 36.5  | 22.0  | 33.0# |       |
| 43  | 246.6 | 236.9 | 355.3 |       |

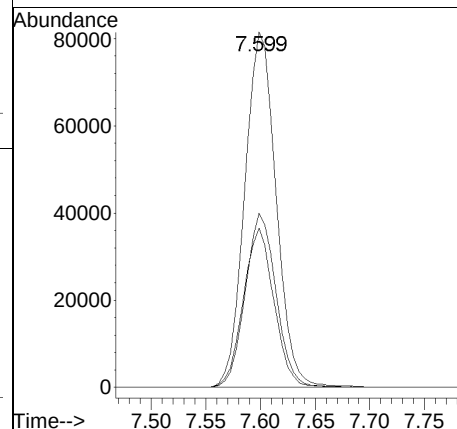


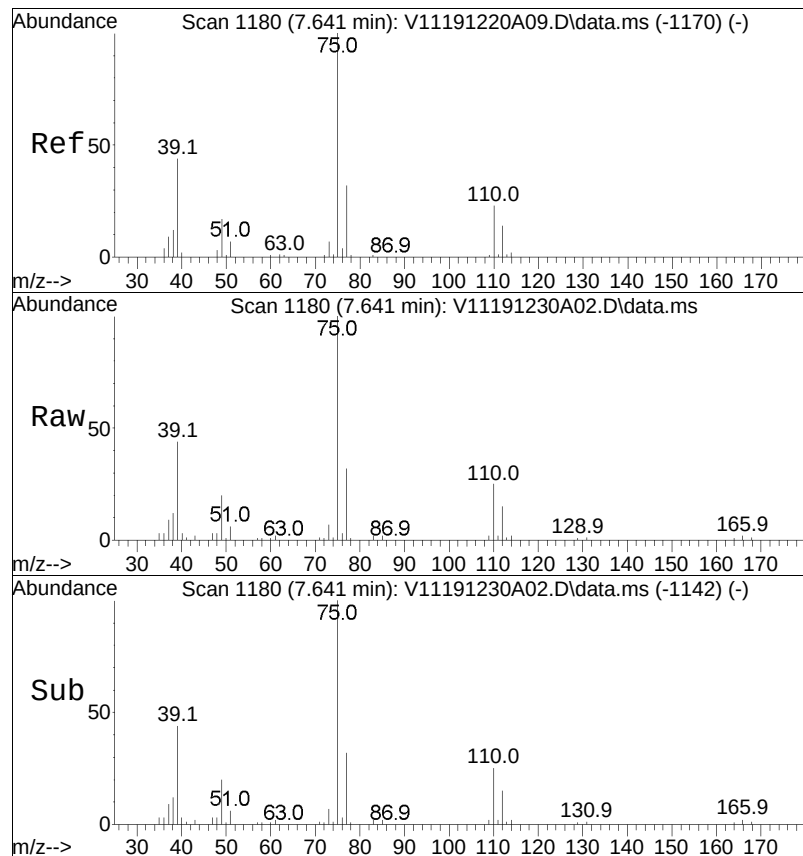




#63  
 Tetrachloroethene  
 Concen: 36.00 ug/L  
 RT: 7.599 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

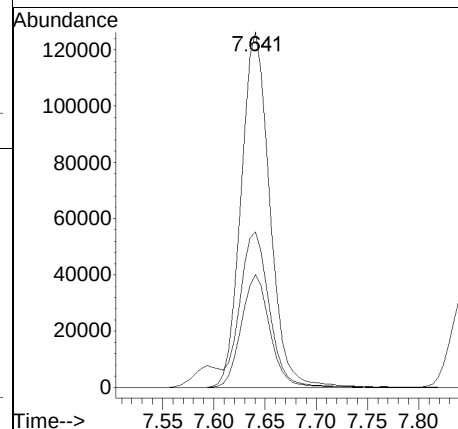
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 163088 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 168 | 48.0    | 28.2  | 68.2   |
| 94  | 43.8    | 26.3  | 66.3   |

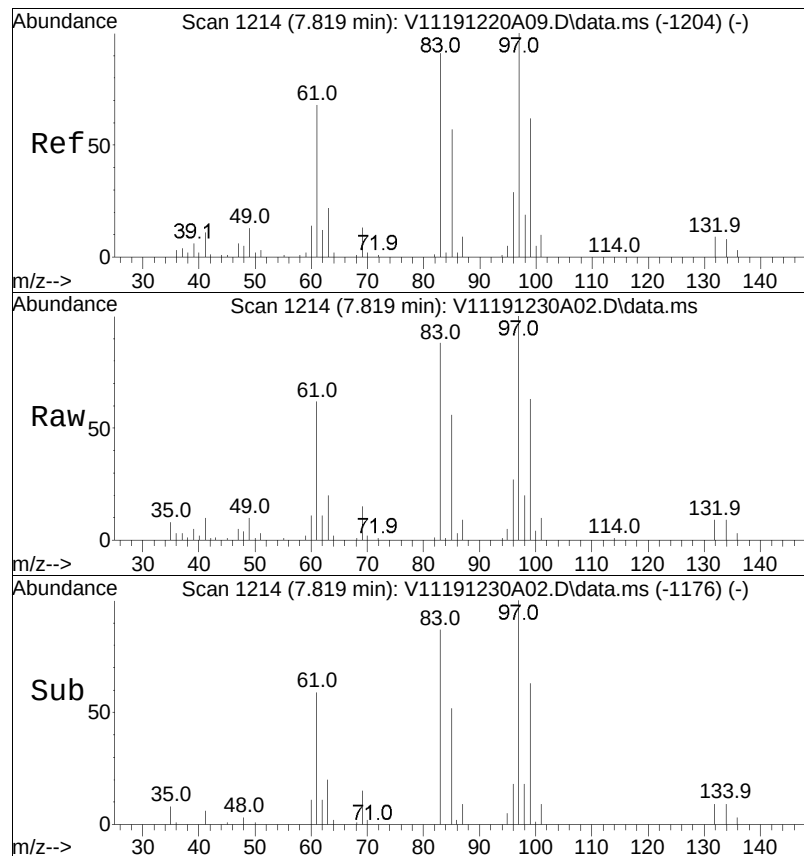




#65  
 trans-1,3-Dichloropropene  
 Concen: 34.01 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

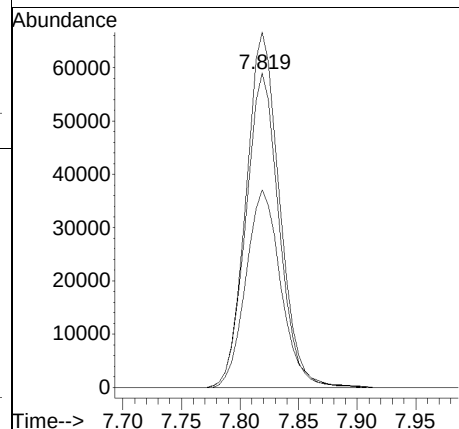
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.7  | 11.4  | 51.4  |
| 39      | 44.8  | 50.3  | 90.3# |

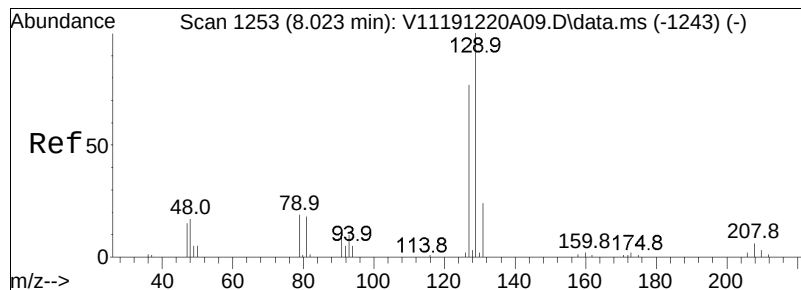




#68  
 1,1,2-Trichloroethane  
 Concen: 32.17 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

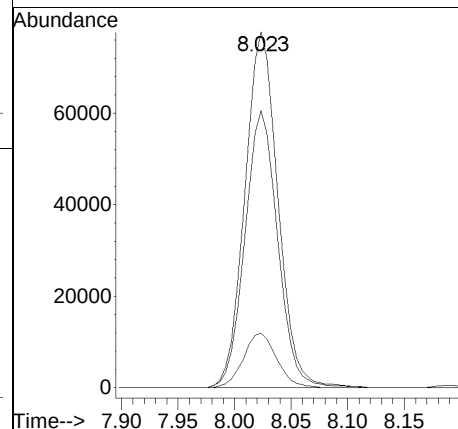
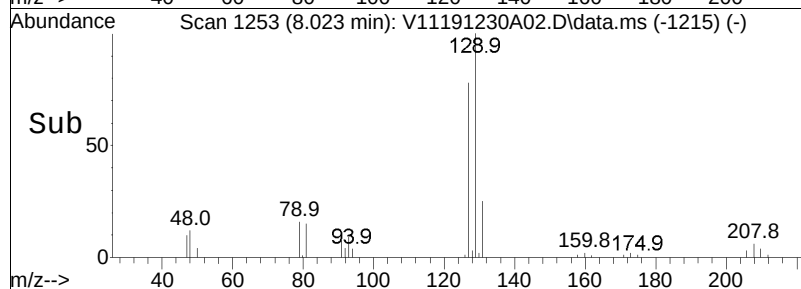
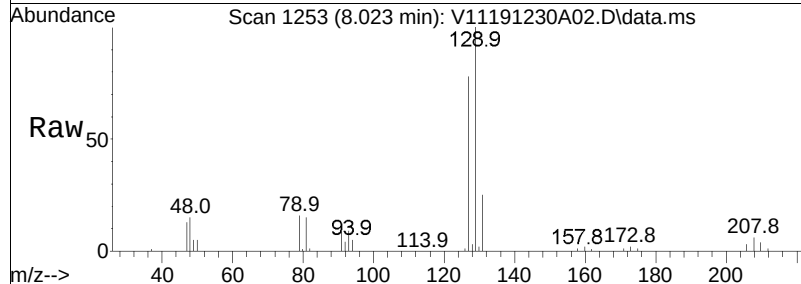
| Tgt Ion:  | 83    | Resp: | 116592 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 113.8 | 97.6  | 137.6  |
| 85        | 66.4  | 46.8  | 86.8   |

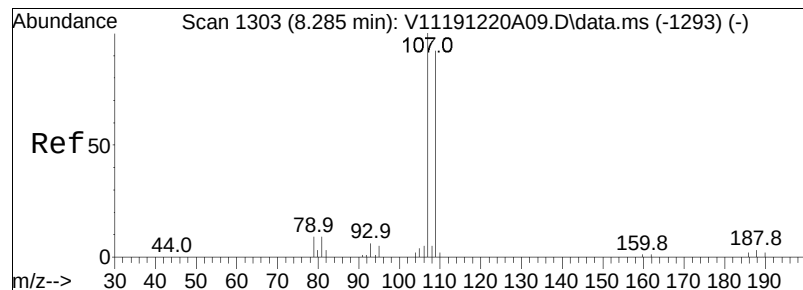




#69  
 Chlorodibromomethane  
 Concen: 33.77 ug/L  
 RT: 8.023 min Scan# 1253  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

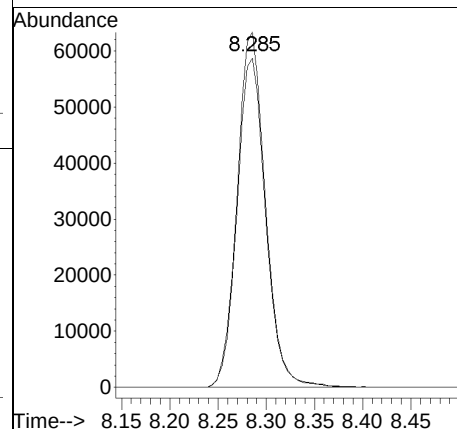
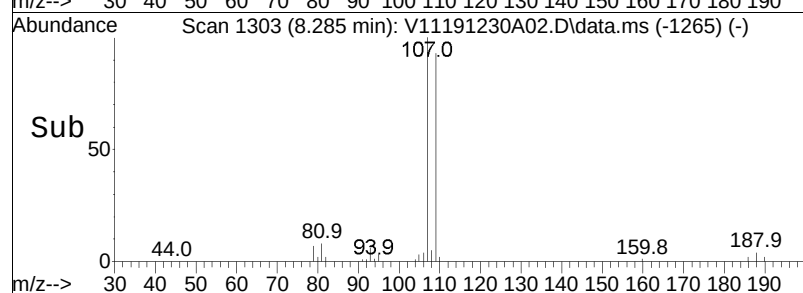
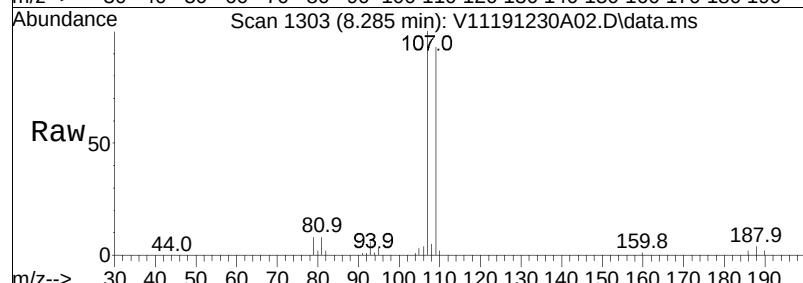
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 81      | 15.2  | 0.0   | 36.0  |
| 127     | 77.0  | 56.0  | 96.0  |

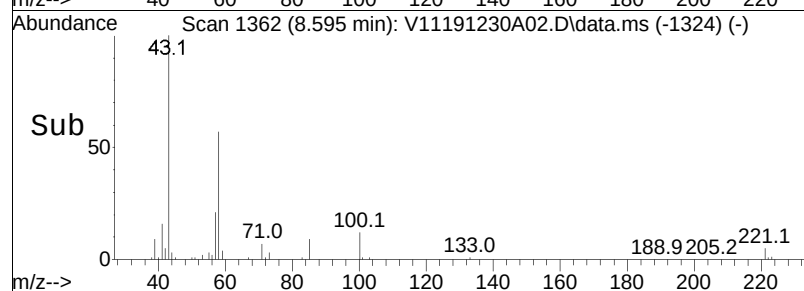
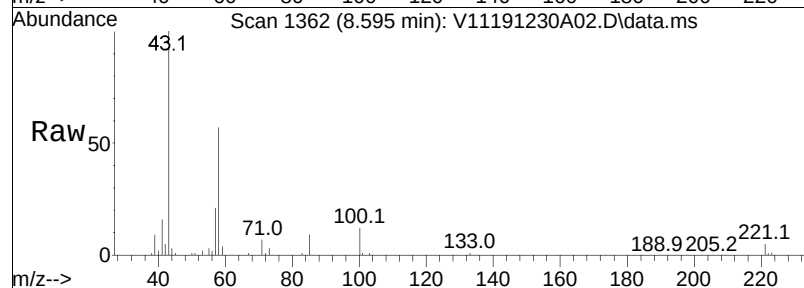
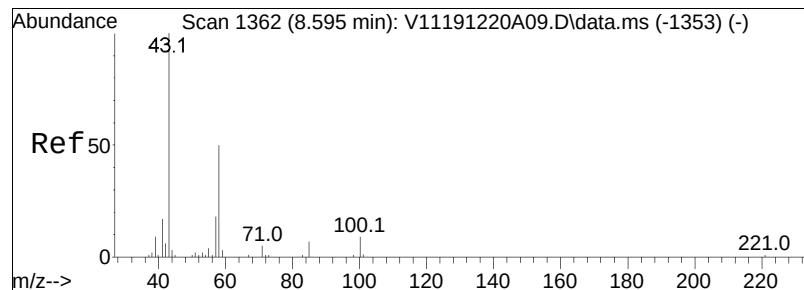




#71  
 1,2-Dibromoethane  
 Concen: 33.99 ug/L  
 RT: 8.285 min Scan# 1303  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.5  | 76.2  | 114.4 |





#72

2-Hexanone

Concen: 33.50 ug/L

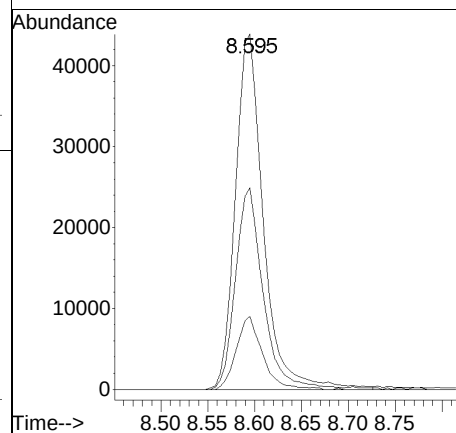
RT: 8.595 min Scan# 1362

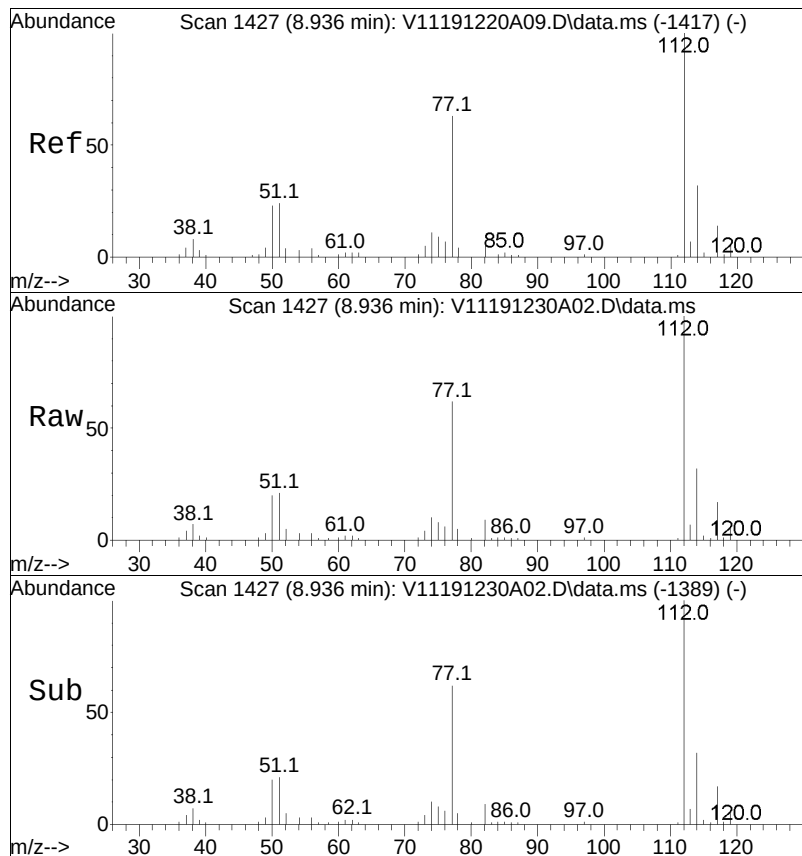
Delta R.T. -0.000 min

Lab File: V11191230A02.D

Acq: 30 Dec 2019 06:05 am

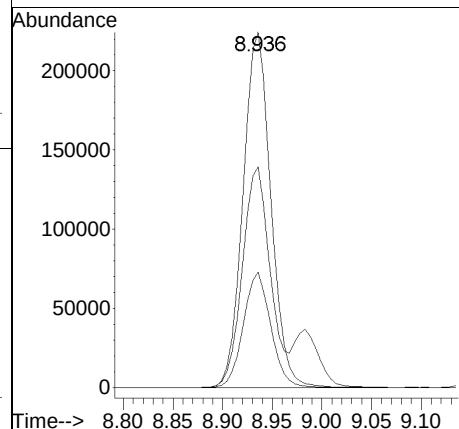
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 43 | Resp: | 91325 |
| Ion | Ratio   | Lower | Upper |
| 43  | 100     |       |       |
| 58  | 55.9    | 37.9  | 56.9  |
| 57  | 19.2    | 12.6  | 19.0# |

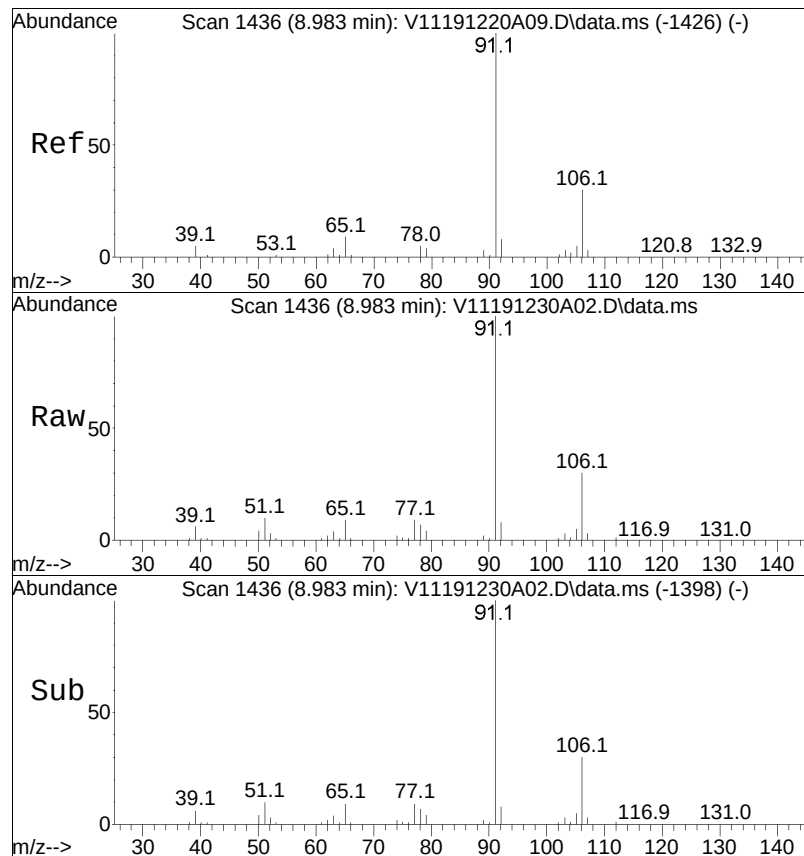




#73  
 Chlorobenzene  
 Concen: 33.21 ug/L  
 RT: 8.936 min Scan# 1427  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

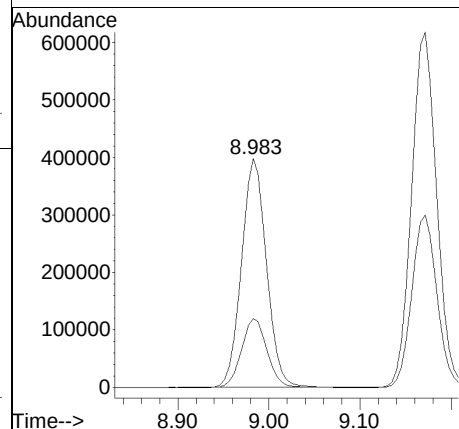
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 63.0  | 47.0  | 70.4  |
| 114     | 31.9  | 25.9  | 38.9  |



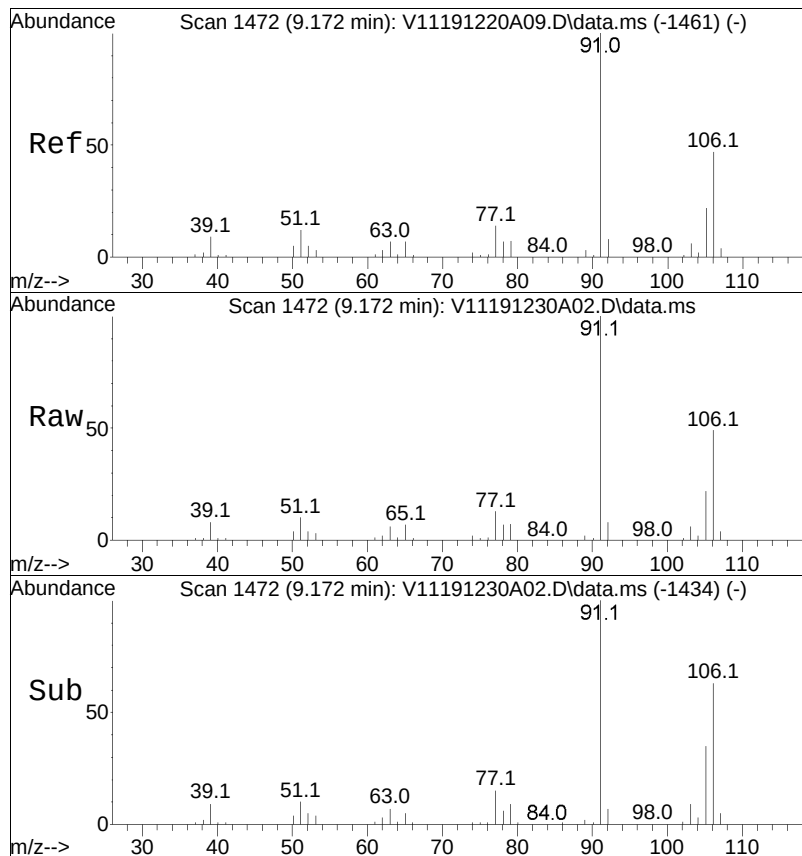


#74  
 Ethylbenzene  
 Concen: 34.74 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 91  | 100  | 756774 |       |       |
| 106 | 30.7 | 25.0   | 37.4  |       |

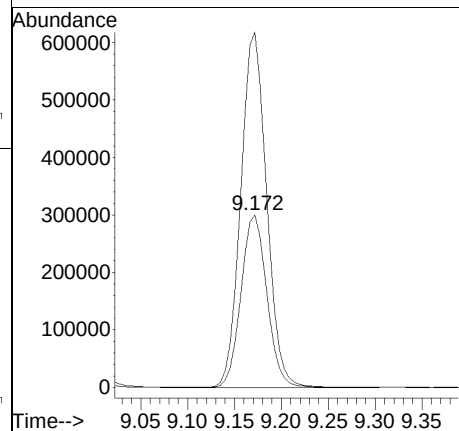


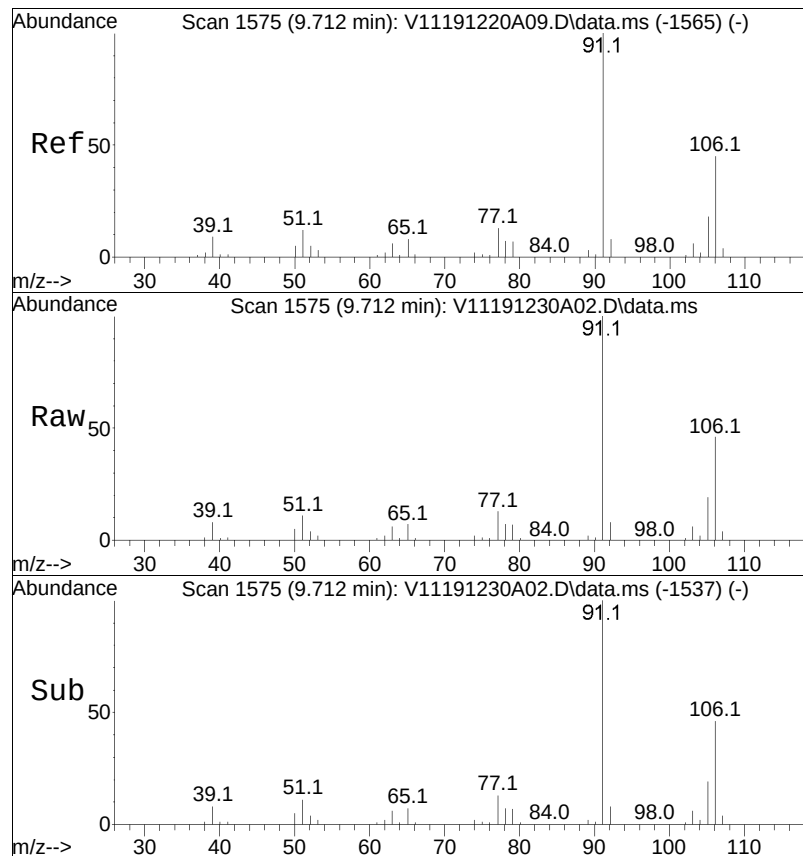




#76  
 p/m Xylene  
 Concen: 73.86 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

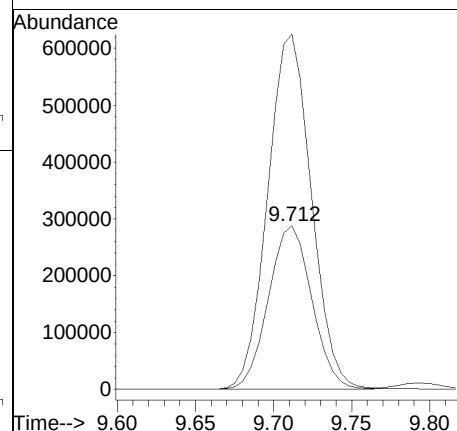
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 204.9 | 159.3 | 238.9 |       |

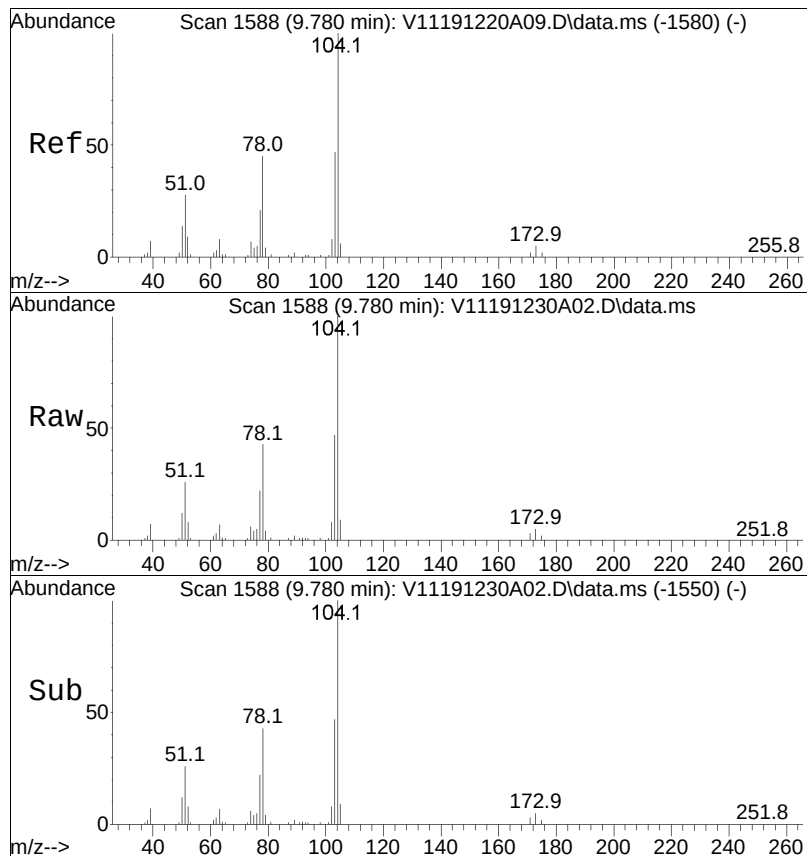




#77  
 o Xylene  
 Concen: 73.92 ug/L  
 RT: 9.712 min Scan# 1575  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

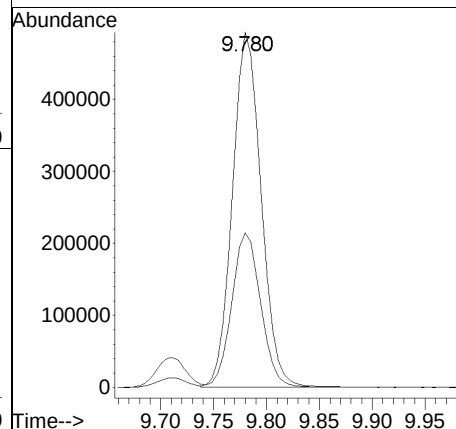
Tgt Ion:106 Resp: 557371  
 Ion Ratio Lower Upper  
 106 100  
 91 217.6 170.2 255.2

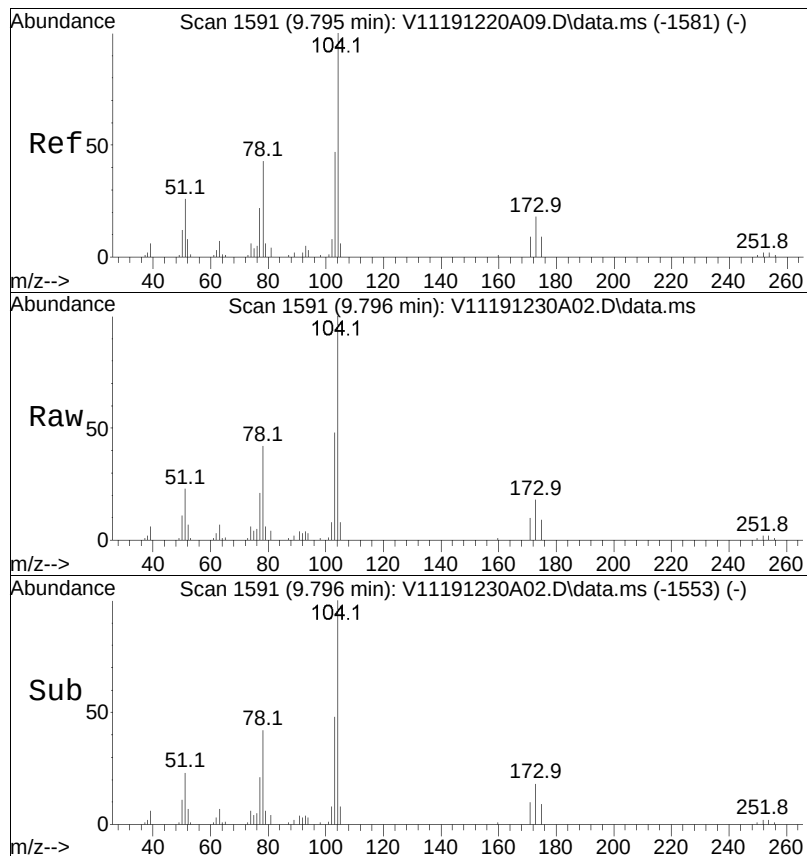




#78  
 Styrene  
 Concen: 73.69 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

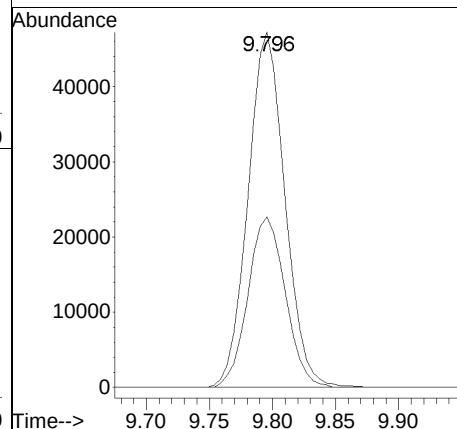
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 44.1  | 34.4  | 51.6  |

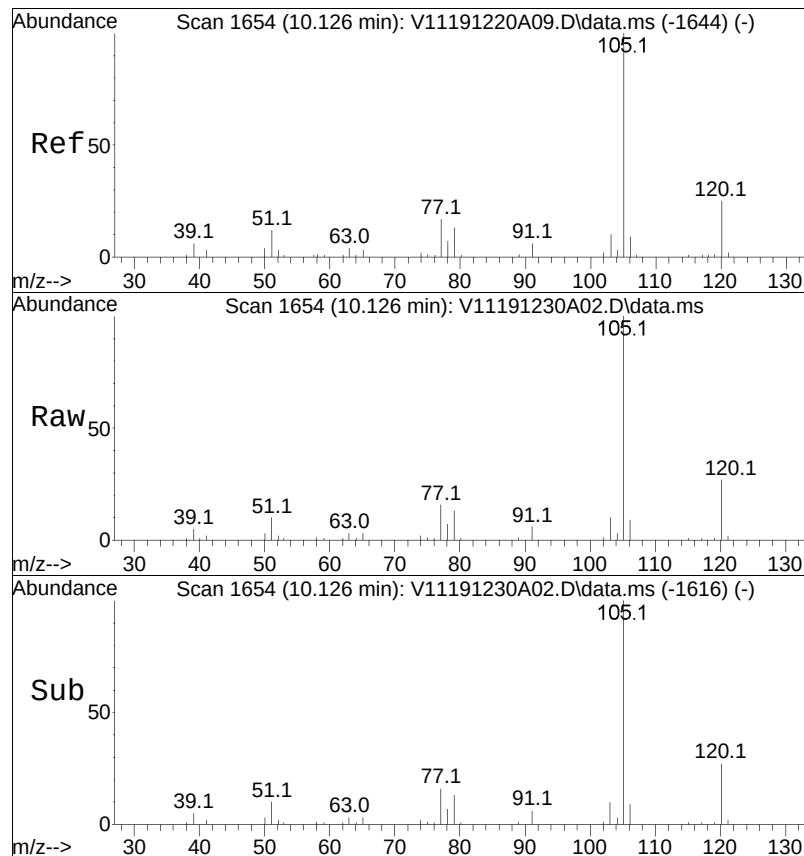




#80  
 Bromoform  
 Concen: 33.37 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

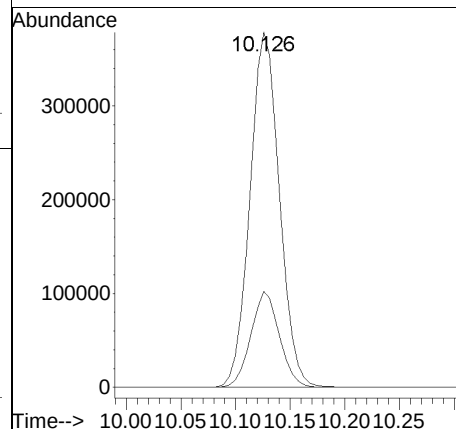
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.6  | 28.1  | 68.1  |

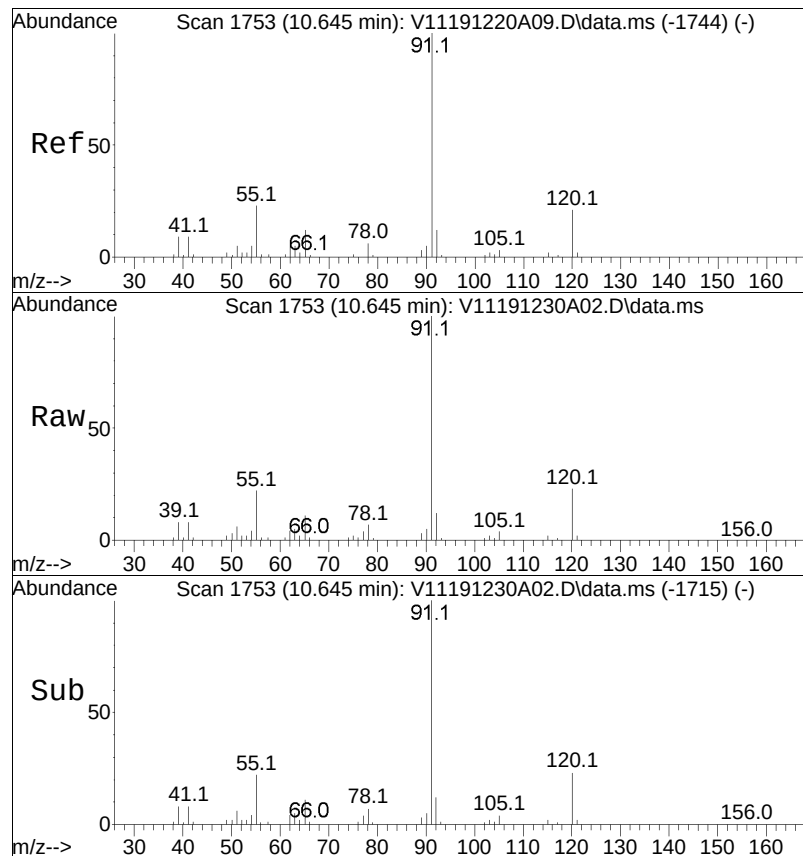




#82  
Isopropylbenzene  
Concen: 35.83 ug/L  
RT: 10.126 min Scan# 1654  
Delta R.T. -0.000 min  
Lab File: V11191230A02.D  
Acq: 30 Dec 2019 06:05 am

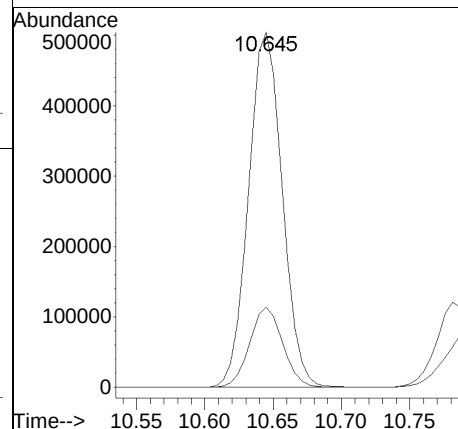
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.2  | 6.9   | 46.9  |

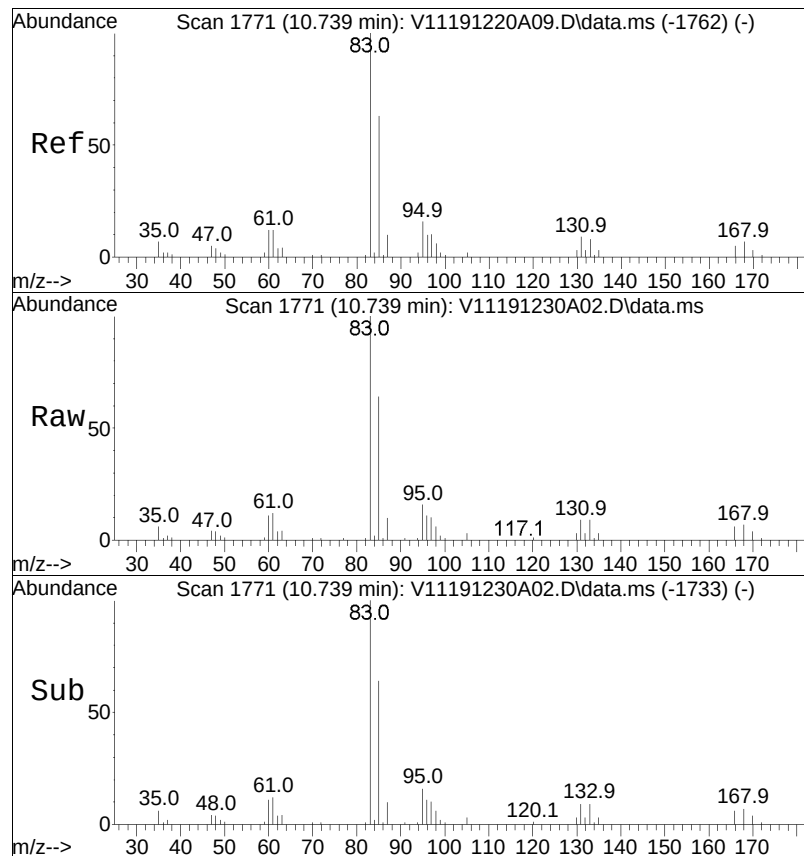




#85  
 n-Propylbenzene  
 Concen: 33.84 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

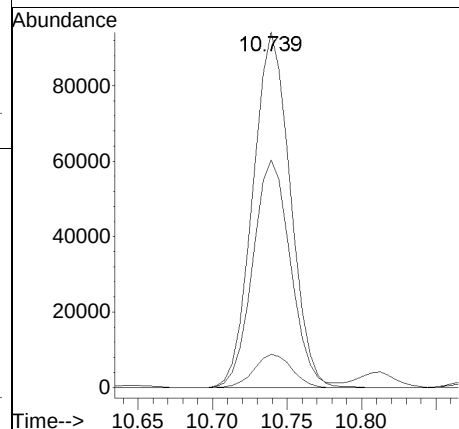
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 22.1  | 18.6  | 27.8  |

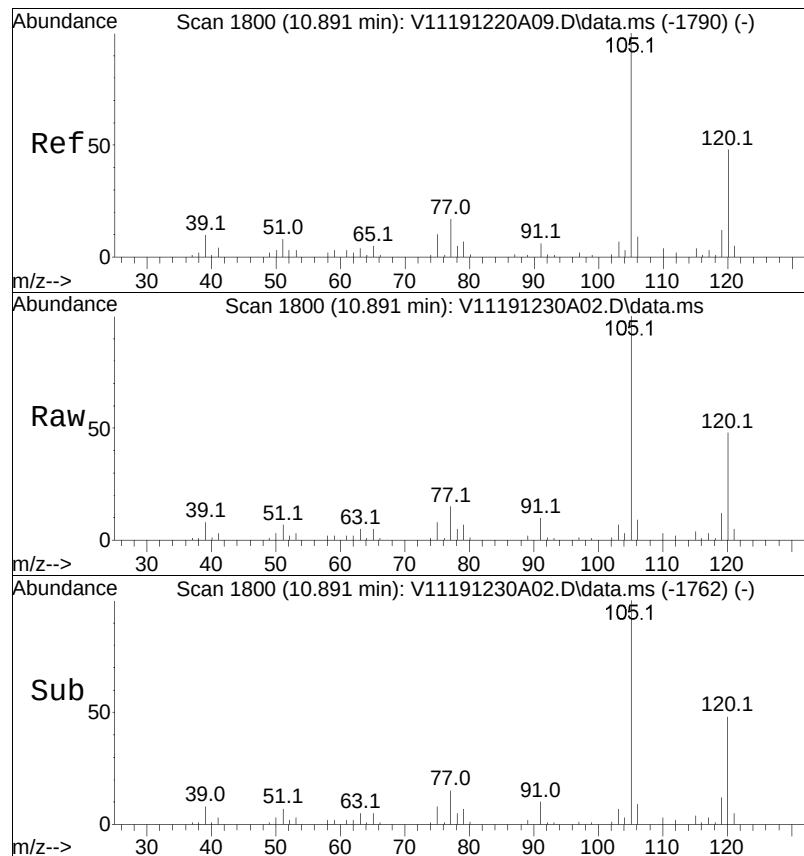




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 29.87 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

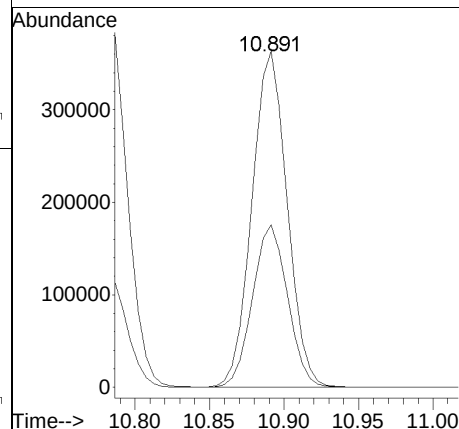
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.3   | 0.0   | 30.1  |
| 85      | 64.9  | 45.8  | 85.8  |



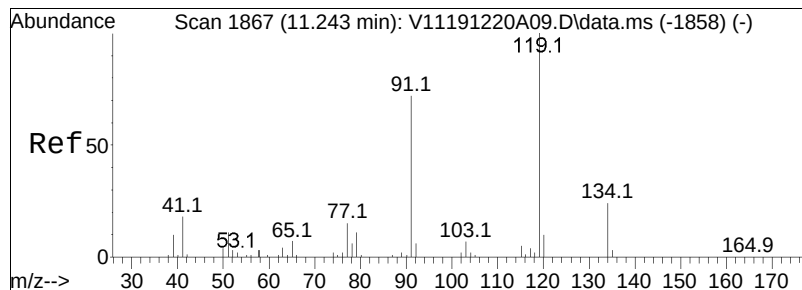


#90  
 1,3,5-Trimethylbenzene  
 Concen: 34.73 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 48.4 | 39.8  | 59.8  |       |

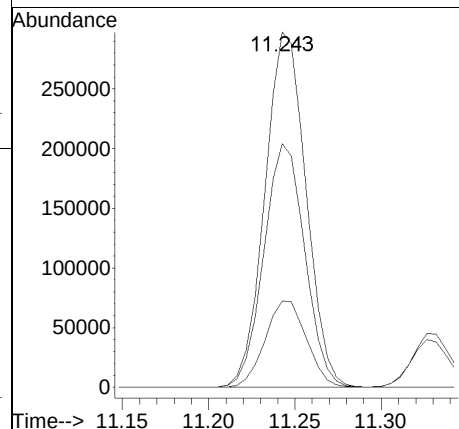
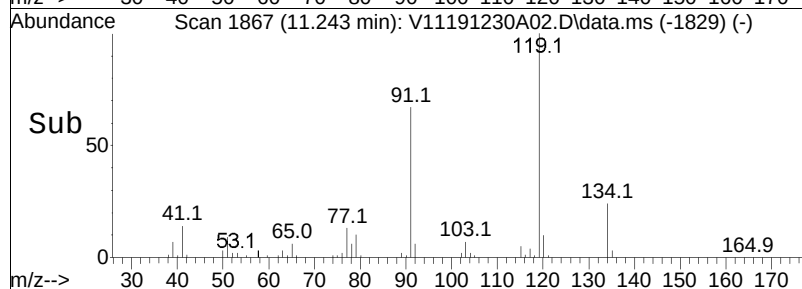
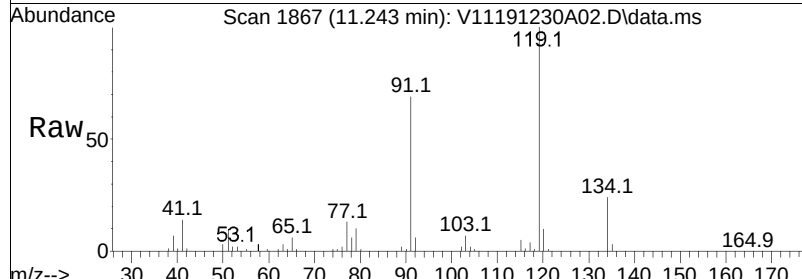


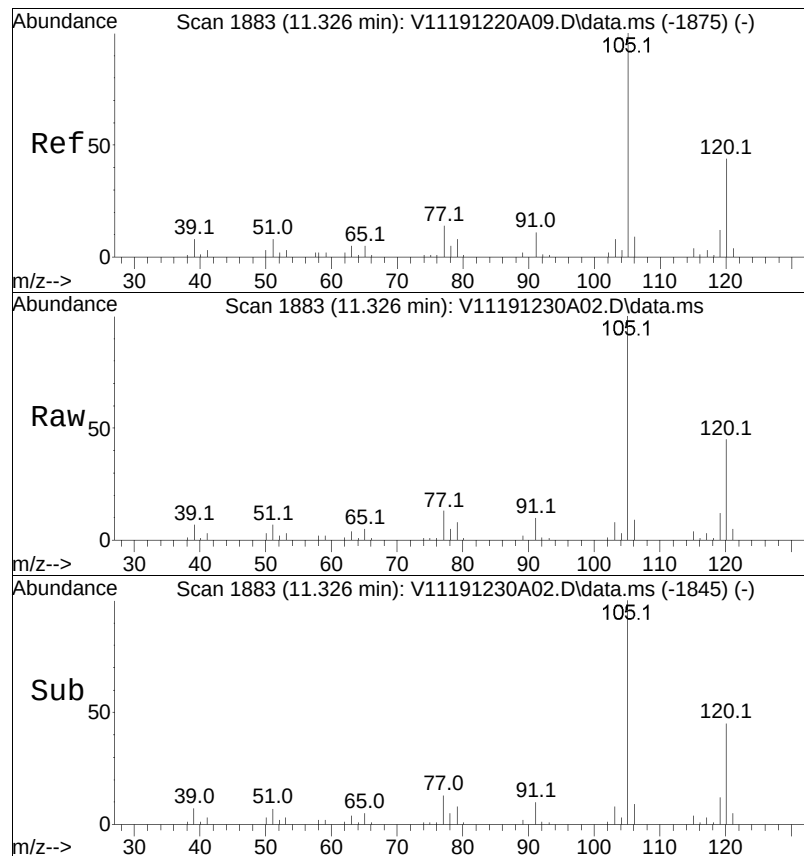




#94  
 tert-Butylbenzene  
 Concen: 35.77 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

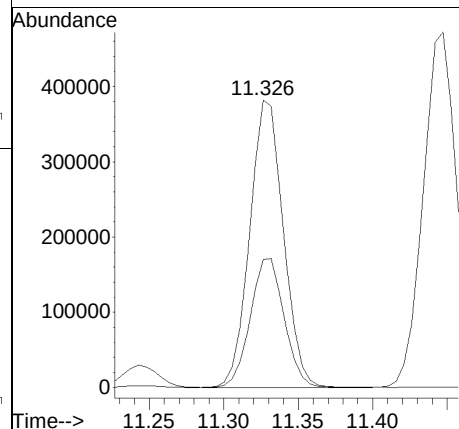
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:119 | Resp: | 492721 |
| Ion | Ratio   | Lower | Upper  |
| 119 | 100     |       |        |
| 91  | 68.5    | 53.0  | 79.4   |
| 134 | 24.6    | 19.8  | 29.6   |

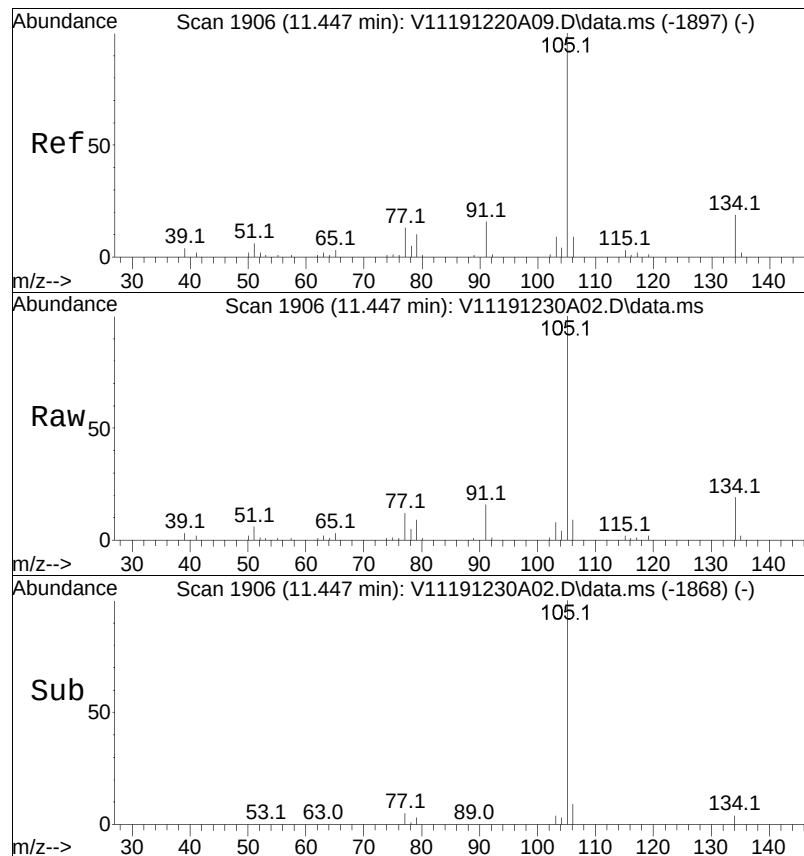




#97  
 1,2,4-Trimethylbenzene  
 Concen: 35.58 ug/L  
 RT: 11.326 min Scan# 1883  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

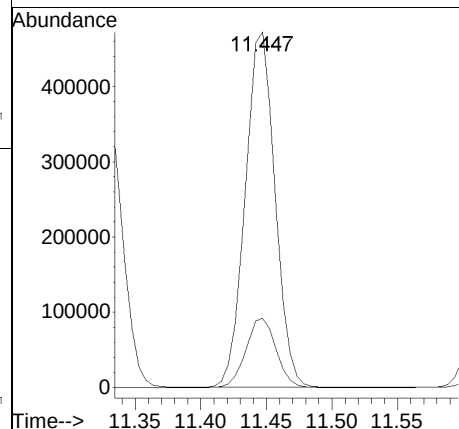
| Tgt Ion | 105    | 120 | Ratio | Lower | Upper |
|---------|--------|-----|-------|-------|-------|
| Resp:   | 598733 |     |       |       |       |
| 105     | 100    |     |       |       |       |
| 120     | 45.2   |     | 37.4  | 56.0  |       |

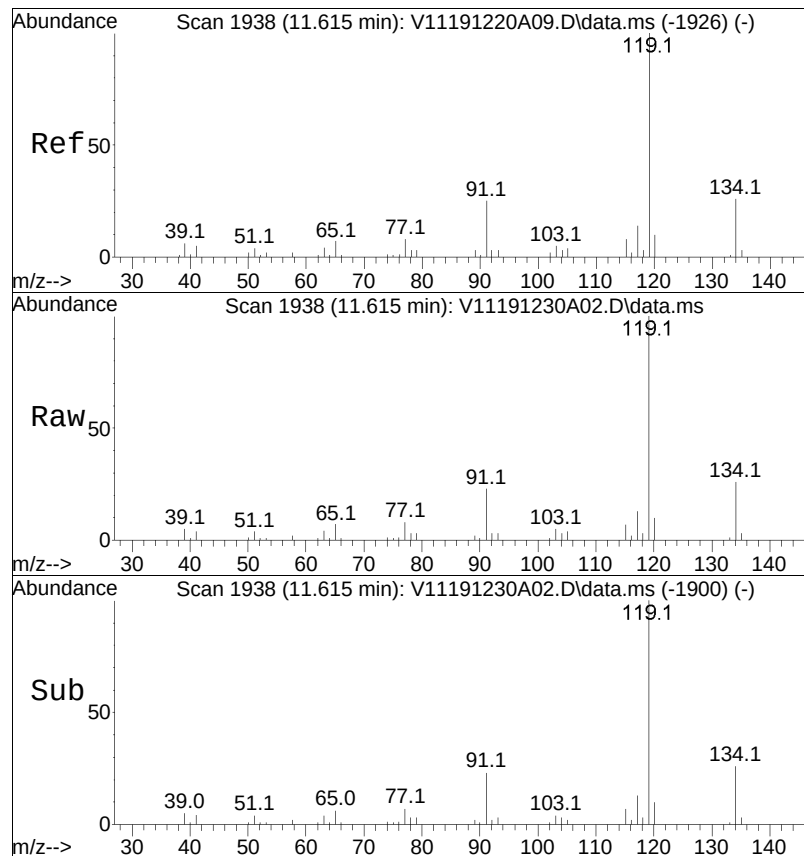




#98  
 sec-Butylbenzene  
 Concen: 34.78 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

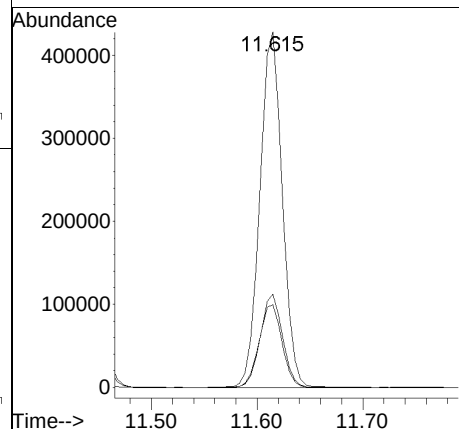
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 134 | 19.6 | 13.2  | 27.4  |       |

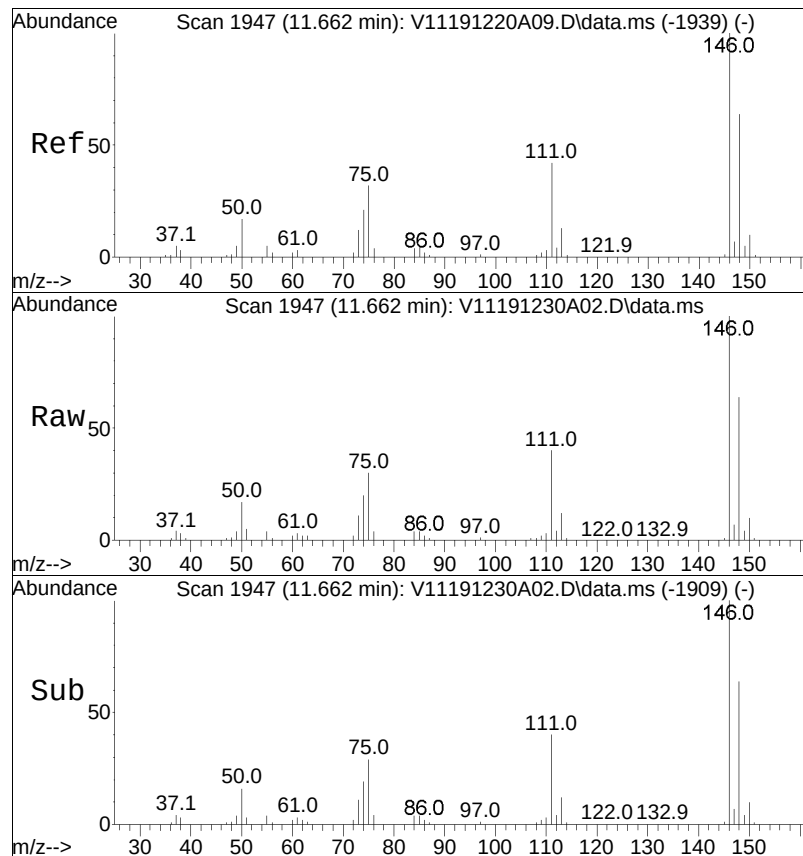




#99  
 p-Isopropyltoluene  
 Concen: 36.73 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

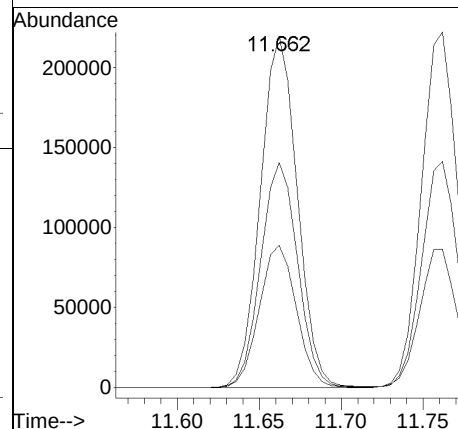
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.0  | 17.1  | 35.5  |
| 91      | 23.8  | 15.3  | 31.9  |

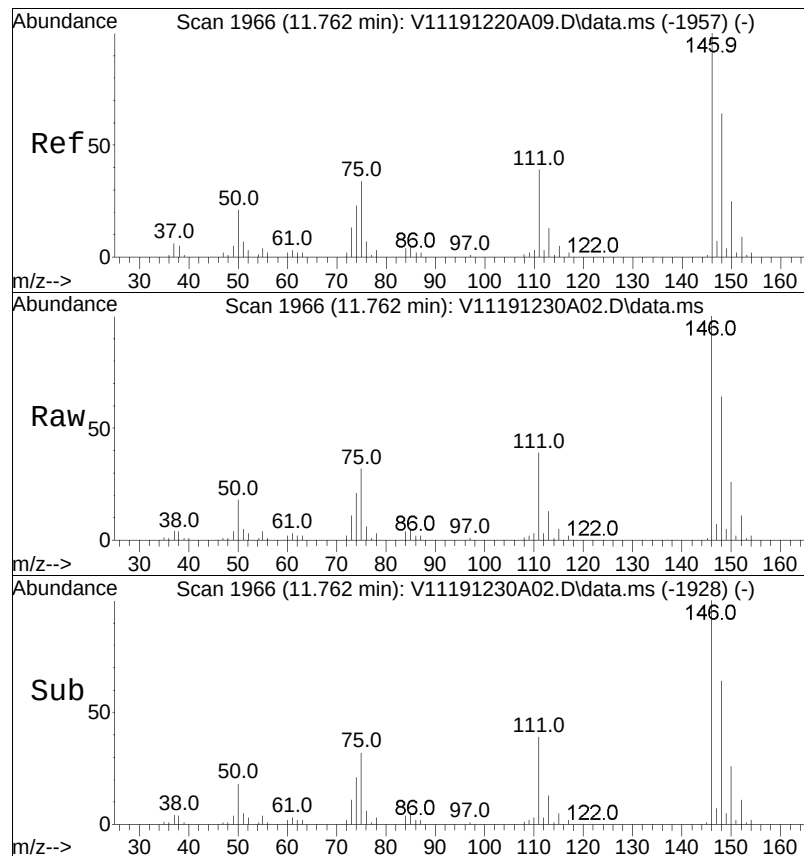




#100  
 1,3-Dichlorobenzene  
 Concen: 32.99 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

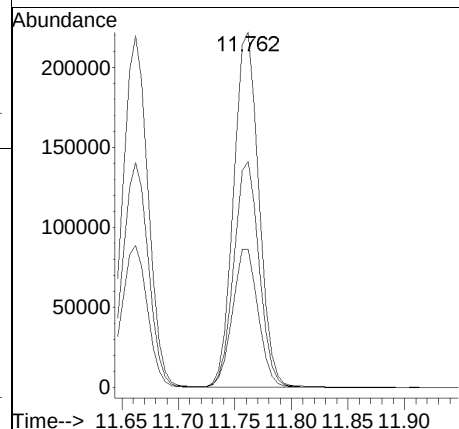
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 146 | 100  |       | 343615 |       |       |
| 111 | 40.7 | 25.6  | 53.2   |       |       |
| 148 | 64.1 | 41.3  | 85.9   |       |       |

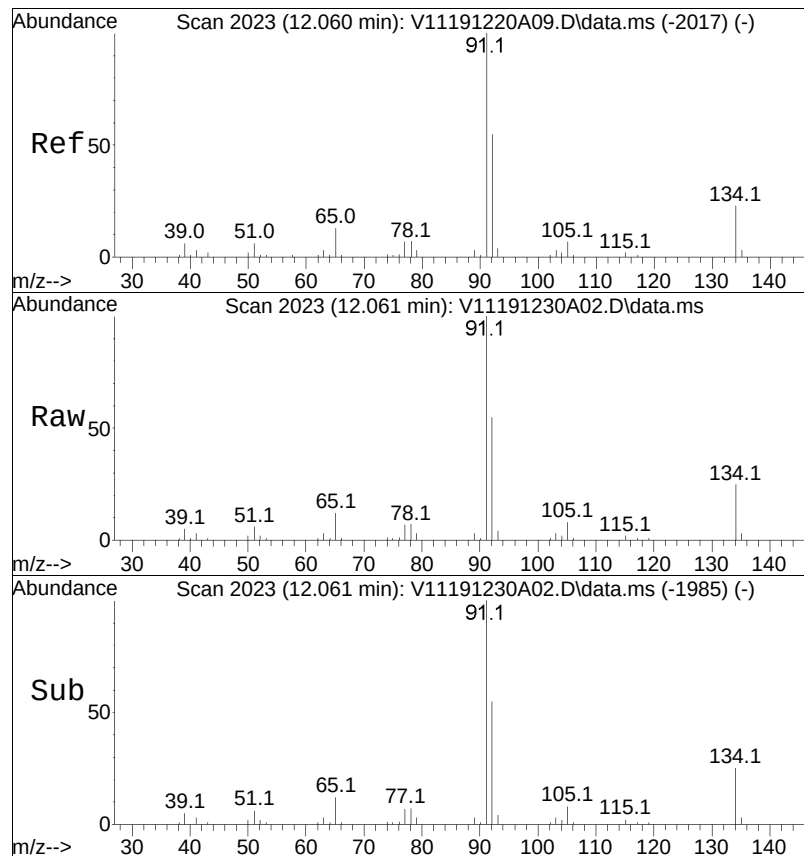




#101  
 1,4-Dichlorobenzene  
 Concen: 32.48 ug/L  
 RT: 11.762 min Scan# 1966  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

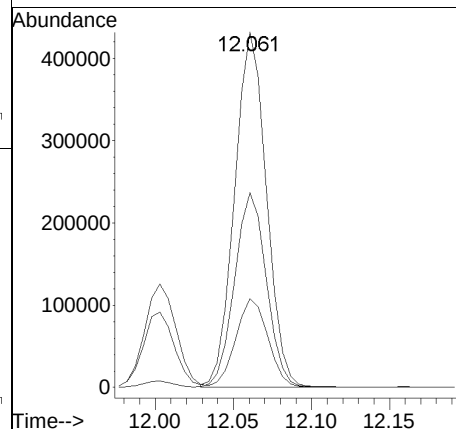
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 31.4  | 47.0  |
| 148     | 64.1  | 50.7  | 76.1  |

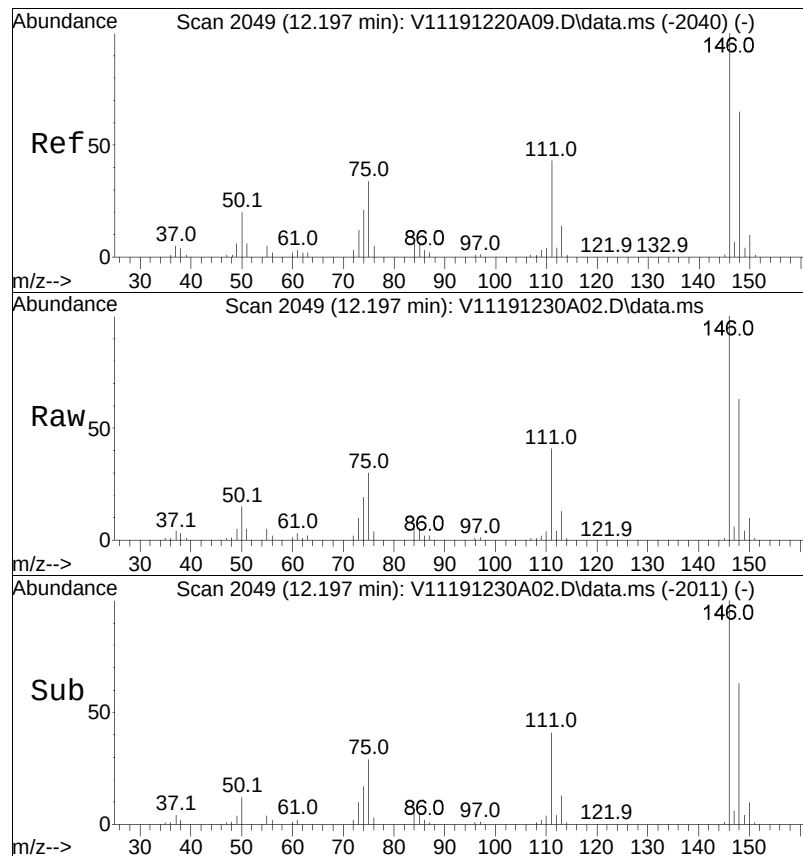




#103  
 n-Butylbenzene  
 Concen: 33.97 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

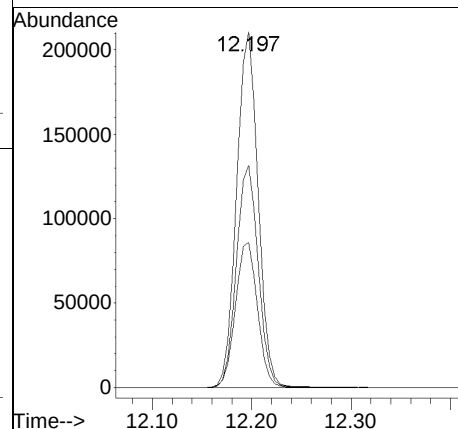
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 611695 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 55.0  | 43.3  | 64.9   |
| 134       | 25.3  | 21.4  | 32.0   |



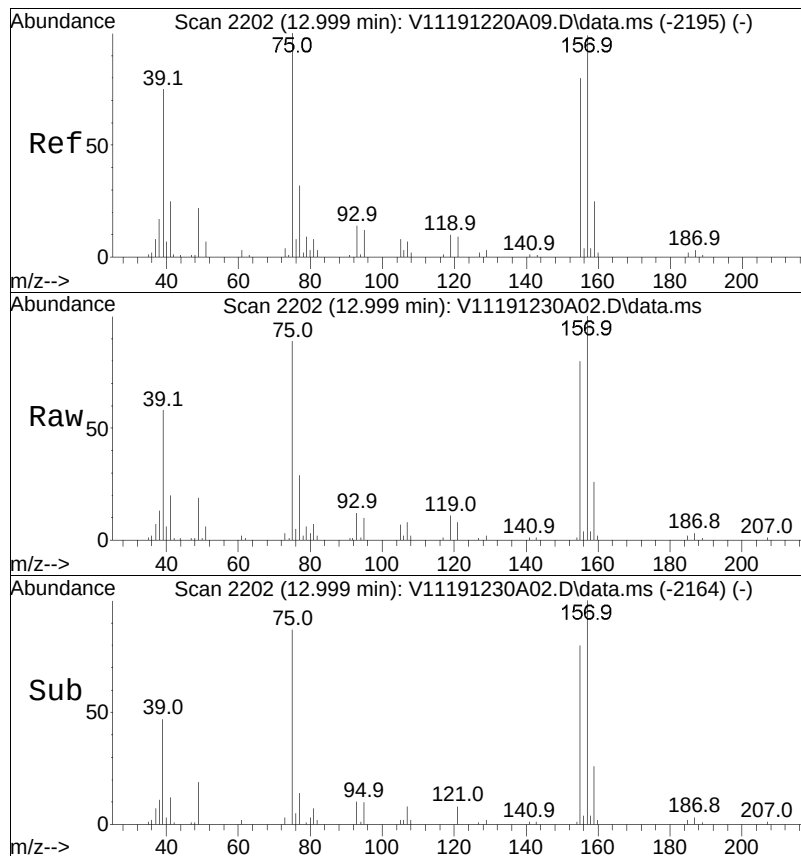


#104  
 1,2-Dichlorobenzene  
 Concen: 33.26 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.8  | 26.9  | 55.9  |
| 148     | 63.3  | 41.2  | 85.6  |

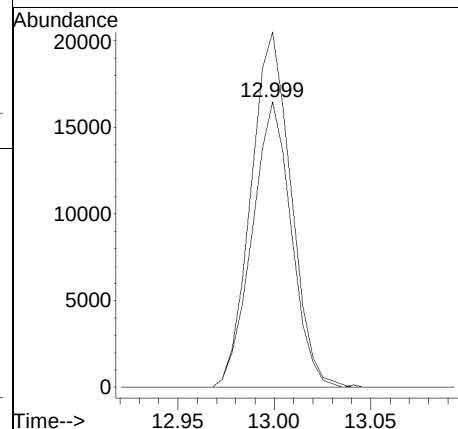


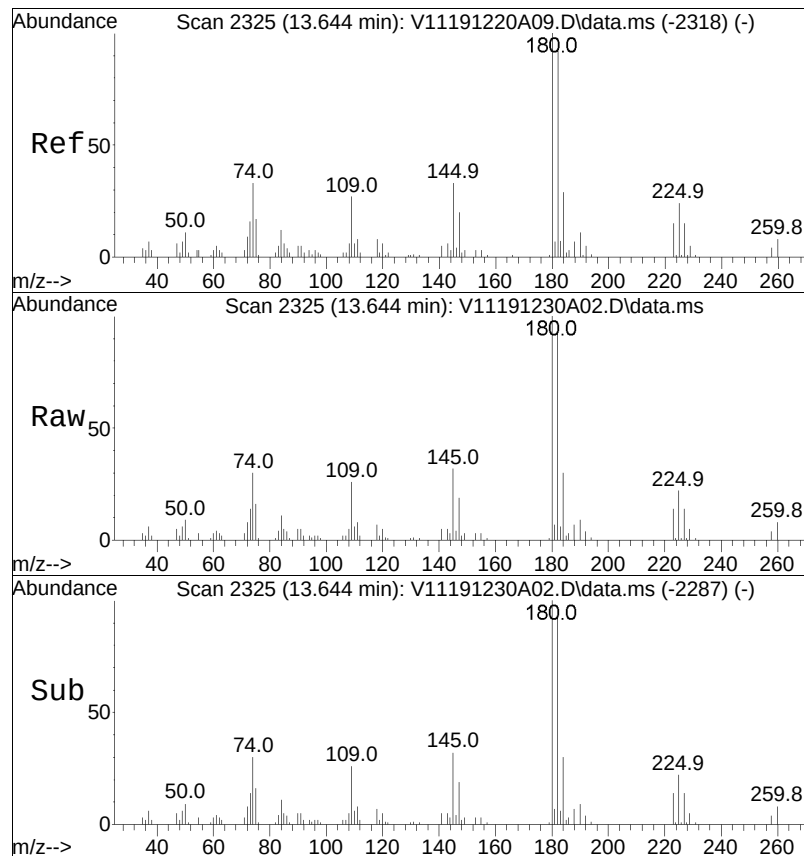




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 34.21 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

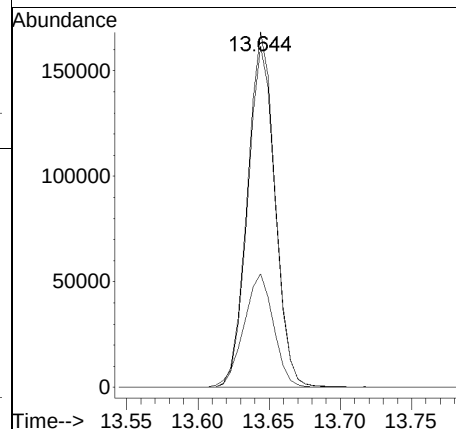
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 155     | 100   |       |       |
| 157     | 126.7 | 100.0 | 150.0 |

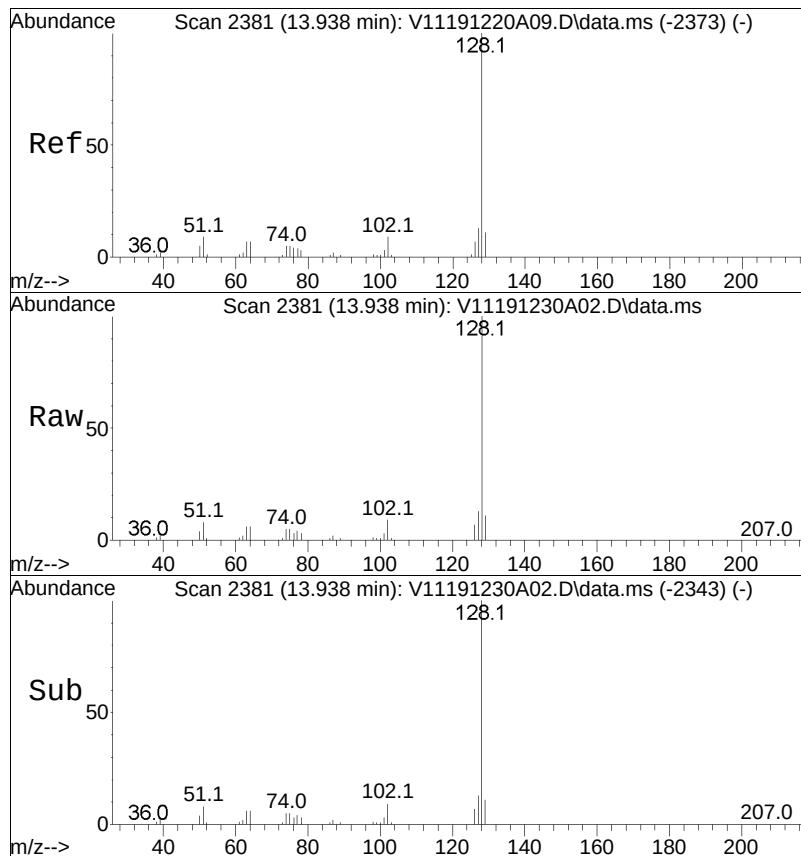




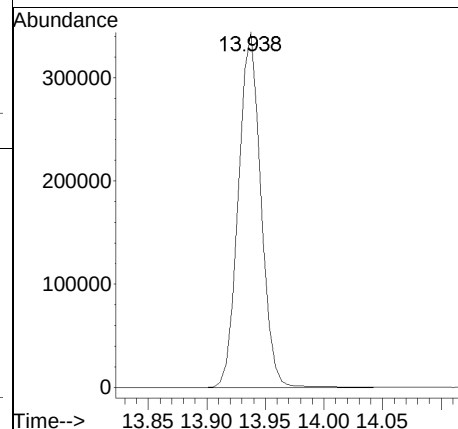
#109  
 1,2,4-Trichlorobenzene  
 Concen: 37.30 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 180 | 100  |       |       |       |
| 182 | 95.5 | 75.8  | 113.6 |       |
| 145 | 34.5 | 29.6  | 44.4  |       |





#110  
 Naphthalene  
 Concen: 38.34 ug/L  
 RT: 13.938 min Scan# 2381  
 Delta R.T. -0.000 min  
 Lab File: V11191230A02.D  
 Acq: 30 Dec 2019 06:05 am  
 Tgt Ion:128 Resp: 458978



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191230A02.D Operator : VOA111:MV  
Date Inj'd : 12/30/2019 6:05 am Instrument : VOA111  
Sample : WG1325794-4,31h,15,15,0.1 Quant Date : 12/30/2019 7:43 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A25.D  
 Acq On : 27 Dec 2019 03:25 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-6,31,7.99,5,,b1  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 30 09:39:04 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 292049   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =       | 107.02% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 244702   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =       | 110.47% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 128800   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =       | 107.02% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 65747    | 16.912  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 84.56%  |          |
| 43) 1,2-Dichloroethane-d4    | 5.176          | 65   | 76891    | 18.510  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 92.55%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 320032   | 18.755  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 93.77%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 132195   | 19.898  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.49%  |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 328560   | 96.883  | ug/L    | 98       |
| 3) Chloromethane             | 1.653          | 50   | 400838   | 85.253  | ug/L    | 98       |
| 4) Vinyl chloride            | 1.700          | 62   | 409380   | 95.275  | ug/L    | 97       |
| 5) Bromomethane              | 1.962          | 94   | 248930   | 107.796 | ug/L    | 100      |
| 6) Chloroethane              | 2.057          | 64   | 248864   | 98.785  | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 469554   | 92.064  | ug/L    | 100      |
| 10) 1,1-Dichloroethene       | 2.607          | 96   | 294817   | 99.113  | ug/L    | 89       |
| 11) Carbon disulfide         | 2.628          | 76   | 984715   | 80.588  | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 320257   | 102.668 | ug/L    | 96       |
| 15) Methylene chloride       | 3.100          | 84   | 325350   | 77.911  | ug/L    | 74       |
| 17) Acetone                  | 3.132          | 43   | 75897    | 80.108  | ug/L    | 92       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 298923   | 86.676  | ug/L    | 91       |
| 19) Methyl acetate           | 3.247          | 43   | 265375   | 104.926 | ug/L    | # 90     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 862642   | 90.397  | ug/L    | 86       |
| 23) 1,1-Dichloroethane       | 3.776          | 63   | 589405   | 80.973  | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.264          | 96   | 301067   | 79.249  | ug/L    | 90       |
| 31) Cyclohexane              | 4.448          | 56   | 527507   | 88.997  | ug/L    | 79       |
| 32) Chloroform               | 4.516          | 83   | 537237   | 79.666  | ug/L    | 96       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 400623   | 87.055  | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.699          | 97   | 426097   | 78.397  | ug/L    | 99       |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A25.D  
 Acq On : 27 Dec 2019 03:25 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-6,31,7.99,5,,b1  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 30 09:39:04 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|---------|-------|----------|-----|
| 39)  | 2-Butanone                | 4.794  | 43   | 104803   | 72.003  | ug/L  | #        | 72  |
| 41)  | Benzene                   | 5.040  | 78   | 1153895  | 77.148  | ug/L  |          | 91  |
| 44)  | 1,2-Dichloroethane        | 5.245  | 62   | 427408   | 83.381  | ug/L  |          | 98  |
| 47)  | Methyl cyclohexane        | 5.617  | 83   | 570372   | 102.376 | ug/L  | #        | 76  |
| 48)  | Trichloroethene           | 5.627  | 95   | 327998   | 90.588  | ug/L  |          | 94  |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 374944   | 90.892  | ug/L  |          | 98  |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 463101   | 87.580  | ug/L  |          | 98  |
| 58)  | cis-1,3-Dichloropropene   | 6.901  | 75   | 532253   | 88.809  | ug/L  | #        | 86  |
| 61)  | Toluene                   | 7.163  | 92   | 728090   | 73.493  | ug/L  |          | 98  |
| 62)  | 4-Methyl-2-pentanone      | 7.593  | 58   | 105970   | 84.000  | ug/L  | #        | 82  |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 260416   | 70.280  | ug/L  |          | 99  |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 447551   | 75.614  | ug/L  | #        | 81  |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 226752   | 76.500  | ug/L  |          | 97  |
| 69)  | Chlorodibromomethane      | 8.023  | 129  | 297951   | 77.782  | ug/L  |          | 98  |
| 71)  | 1,2-Dibromoethane         | 8.286  | 107  | 238210   | 76.220  | ug/L  |          | 98  |
| 72)  | 2-Hexanone                | 8.590  | 43   | 179002   | 80.290  | ug/L  |          | 92  |
| 73)  | Chlorobenzene             | 8.936  | 112  | 702972   | 65.414  | ug/L  |          | 95  |
| 74)  | Ethylbenzene              | 8.983  | 91   | 1184917  | 66.505  | ug/L  |          | 98  |
| 76)  | p/m Xylene                | 9.172  | 106  | 851921   | 133.427 | ug/L  |          | 94  |
| 77)  | o Xylene                  | 9.712  | 106  | 868541   | 140.841 | ug/L  |          | 95  |
| 78)  | Styrene                   | 9.780  | 104  | 1429644  | 138.490 | ug/L  |          | 98  |
| 80)  | Bromoform                 | 9.796  | 173  | 177188   | 74.068  | ug/L  |          | 99  |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 1000025  | 60.777  | ug/L  |          | 99  |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 1086426  | 50.980  | ug/L  |          | 97  |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 306540   | 67.063  | ug/L  |          | 98  |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 768296   | 53.905  | ug/L  |          | 98  |
| 94)  | tert-Butylbenzene         | 11.243 | 119  | 641840   | 56.072  | ug/L  |          | 97  |
| 97)  | 1,2,4-Trimethylbenzene    | 11.326 | 105  | 754098   | 53.920  | ug/L  |          | 97  |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 874308   | 49.003  | ug/L  |          | 98  |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 682544   | 47.761  | ug/L  |          | 98  |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 430856   | 49.767  | ug/L  |          | 99  |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 427266   | 48.419  | ug/L  |          | 100 |
| 103) | n-Butylbenzene            | 12.061 | 91   | 586802   | 39.213  | ug/L  |          | 98  |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 419272   | 52.916  | ug/L  |          | 99  |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 42261    | 74.365  | ug/L  |          | 97  |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 237180   | 46.809  | ug/L  |          | 98  |
| 110) | Naphthalene               | 13.938 | 128  | 605397   | 60.853  | ug/L  |          | 100 |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A25.D  
 Acq On : 27 Dec 2019 03:25 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-6,31,7.99,5,,b1  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 30 09:39:04 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

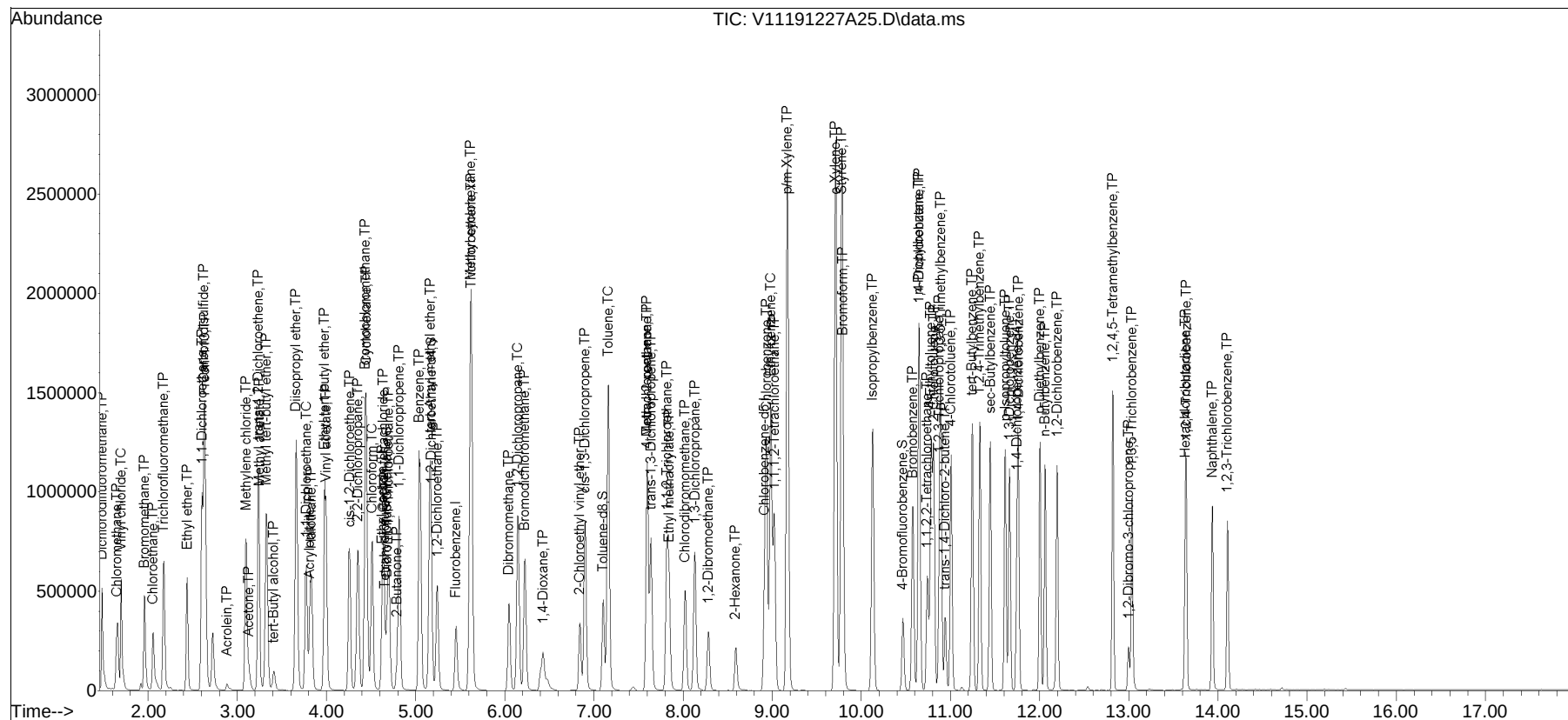
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

# Quantitation Report (QT Reviewed)

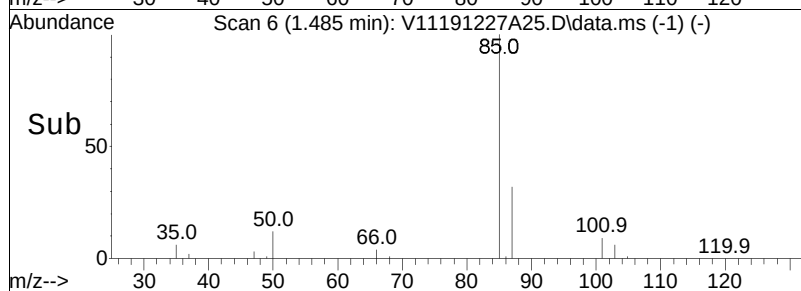
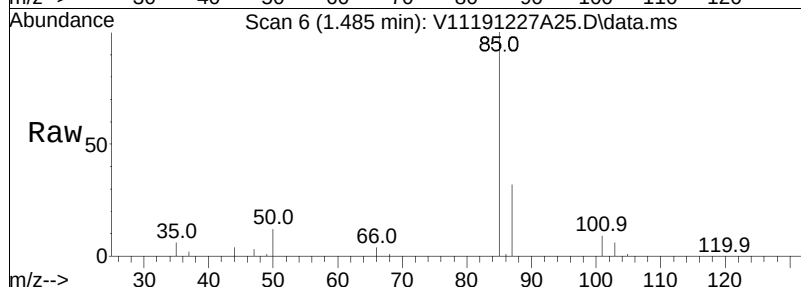
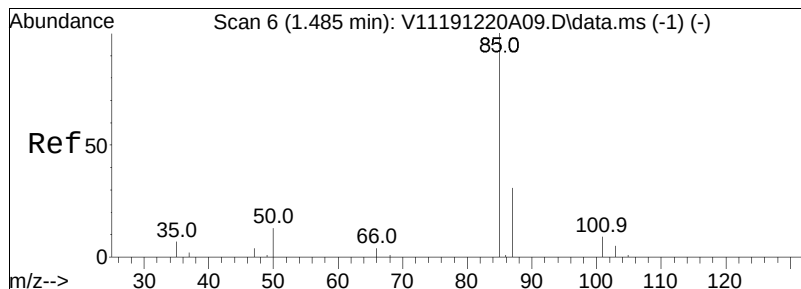
Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A25.D  
 Acq On : 27 Dec 2019 03:25 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-6,31,7.99,5,,b1  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 30 09:39:04 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

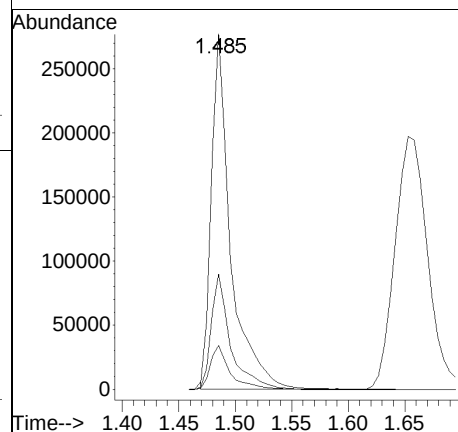


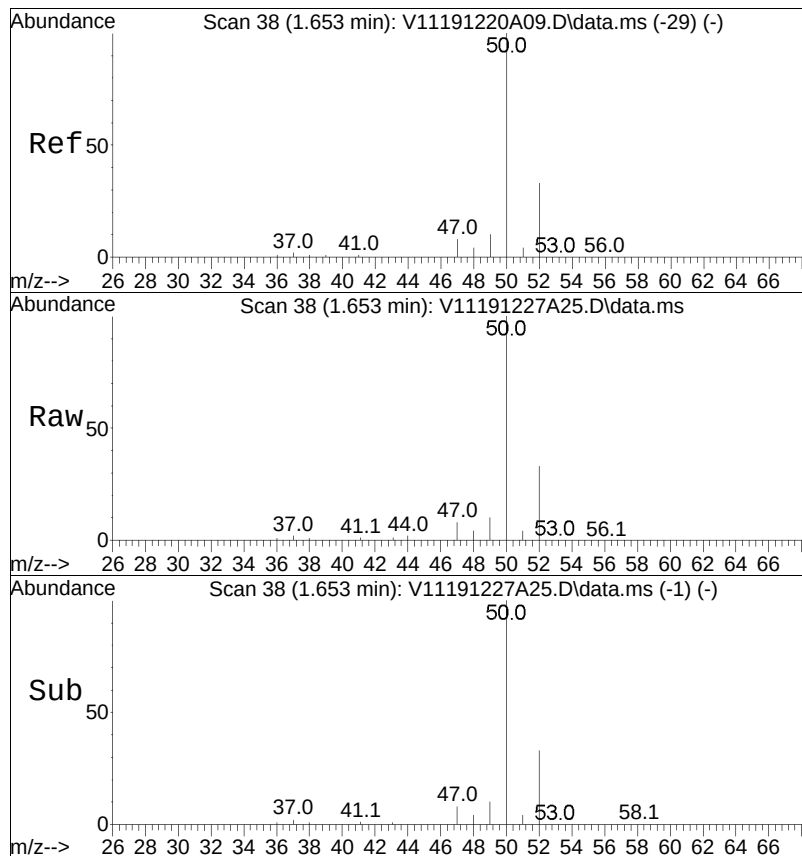




#2  
 Dichlorodifluoromethane  
 Concen: 96.88 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

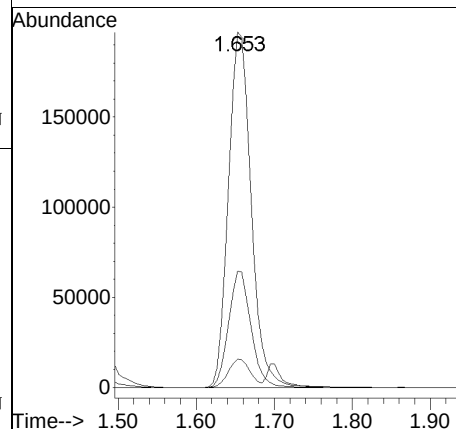
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 85      | 100   | 328560 |       |       |
| 87      | 32.4  |        | 20.7  | 43.1  |
| 50      | 12.6  |        | 9.8   | 20.3  |

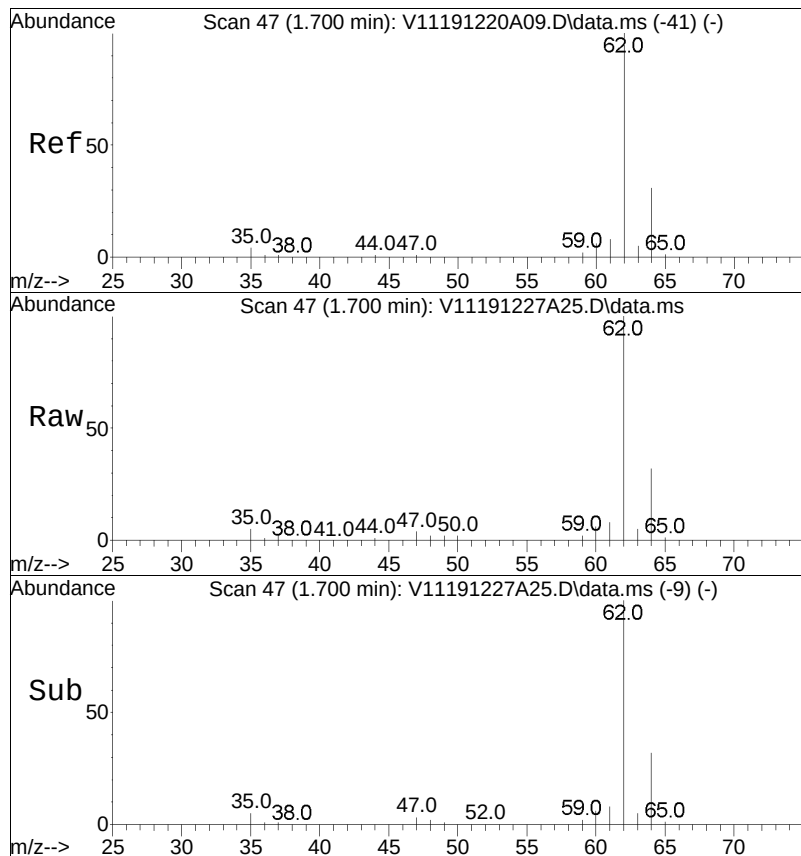




#3  
 Chloromethane  
 Concen: 85.25 ug/L  
 RT: 1.653 min Scan# 38  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

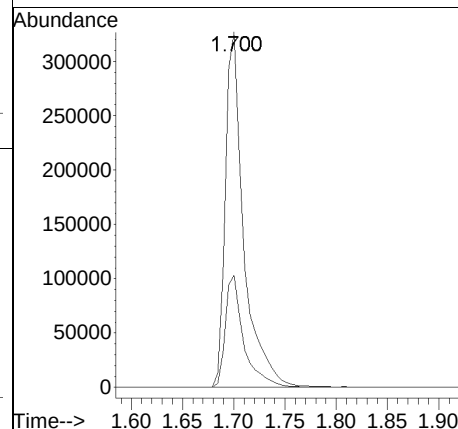
| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 50  | 100  |      |       |       |
| 52  | 32.0 |      | 10.9  | 50.9  |
| 47  | 7.7  |      | 0.0   | 27.2  |

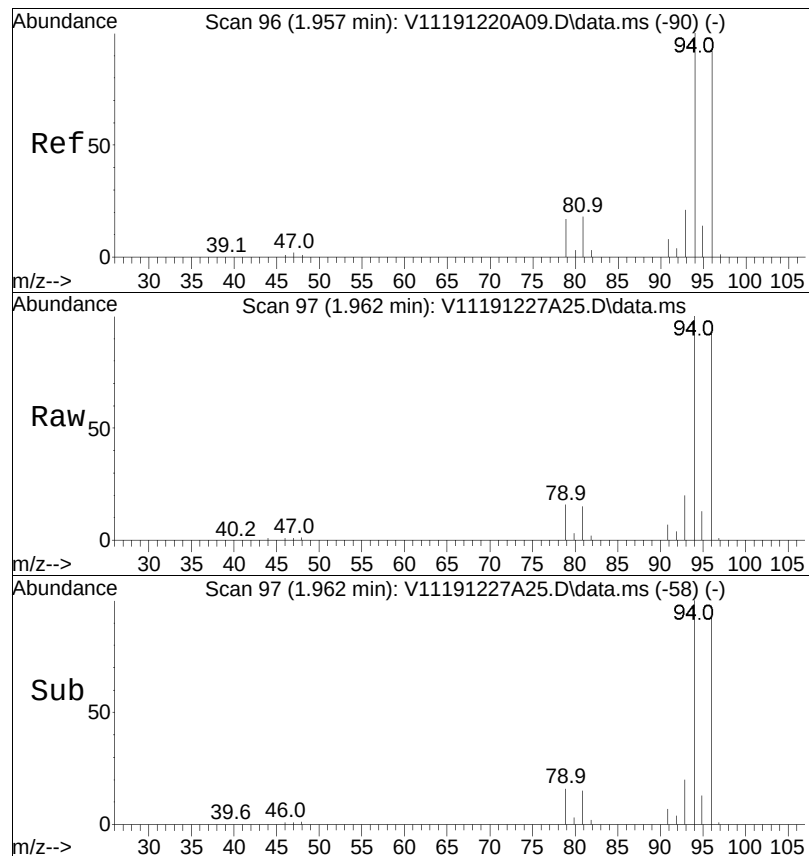




#4  
 Vinyl chloride  
 Concen: 95.27 ug/L  
 RT: 1.700 min Scan# 47  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

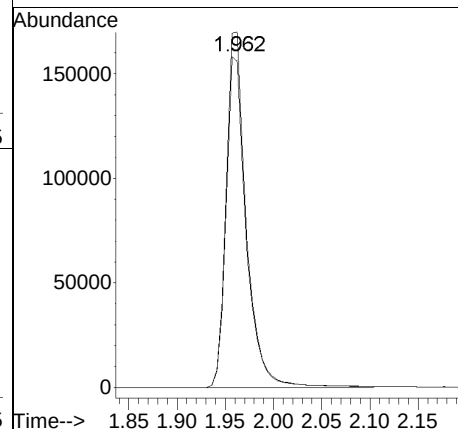
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.6  | 9.9   | 49.9  |

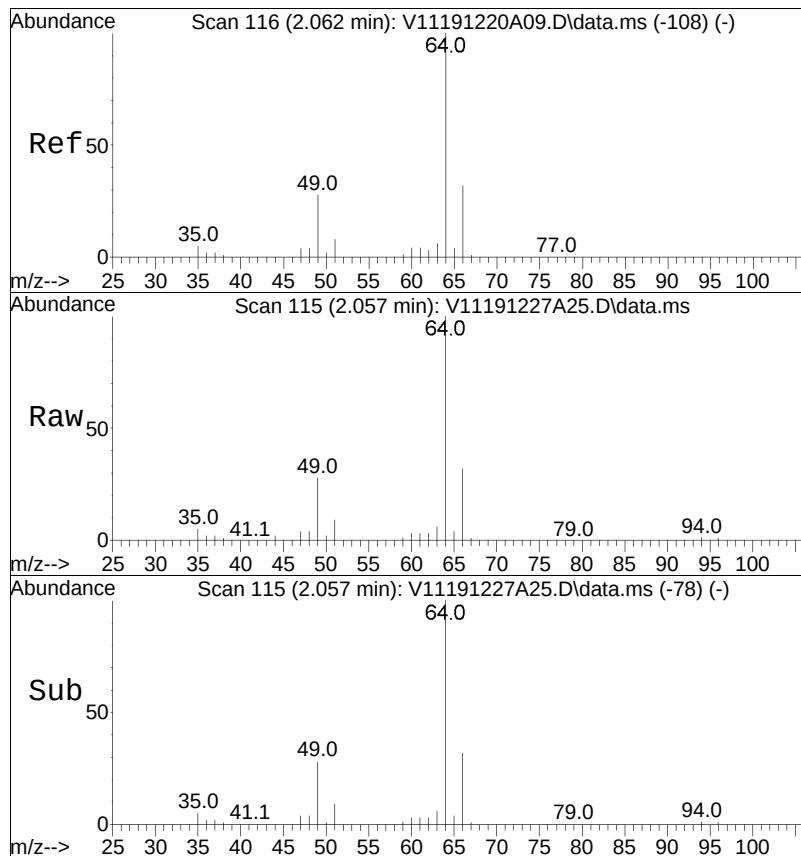




#5  
 Bromomethane  
 Concen: 107.80 ug/L  
 RT: 1.962 min Scan# 97  
 Delta R.T. 0.005 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

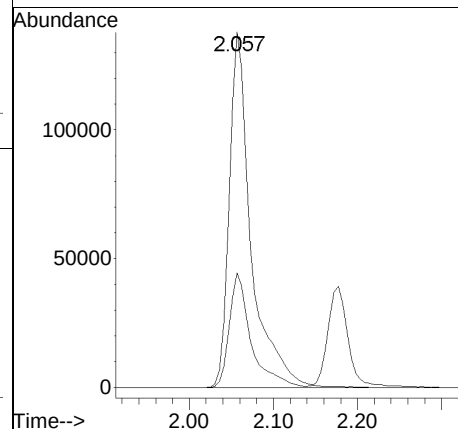
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 96      | 92.9  | 72.6  | 112.6 |

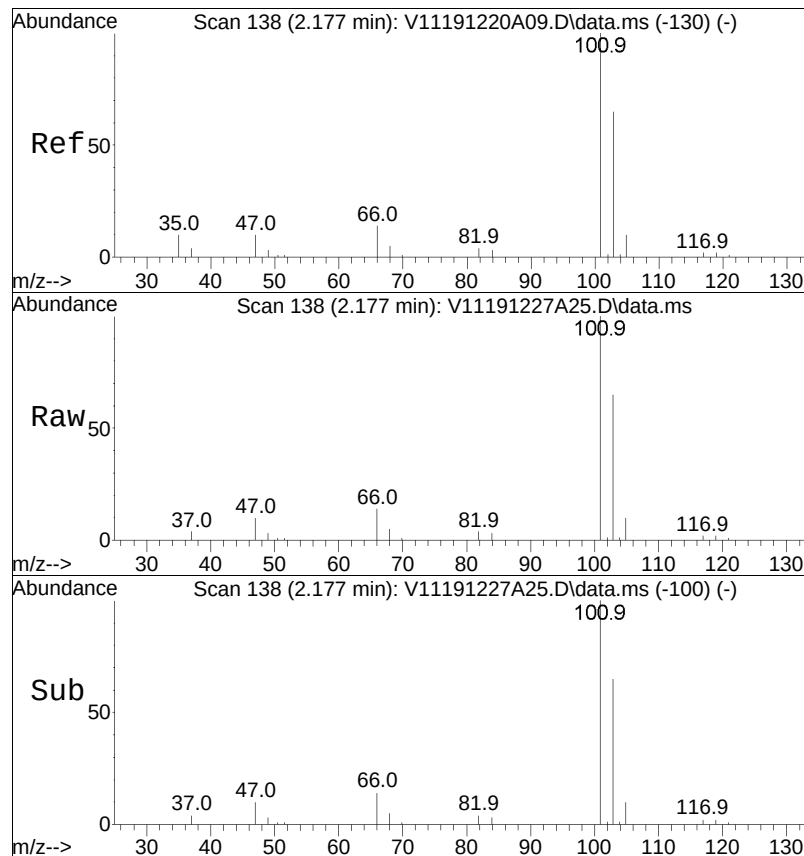




#6  
 Chloroethane  
 Concen: 98.79 ug/L  
 RT: 2.057 min Scan# 115  
 Delta R.T. -0.005 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

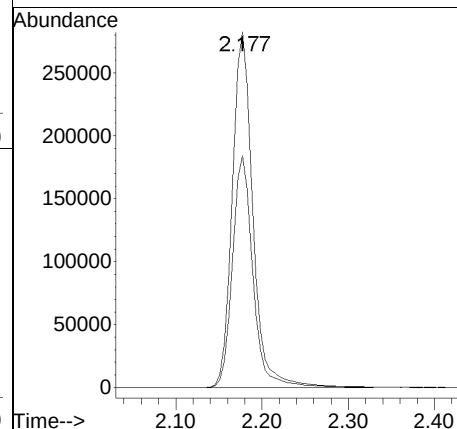
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 32.0  | 10.2  | 50.2  |

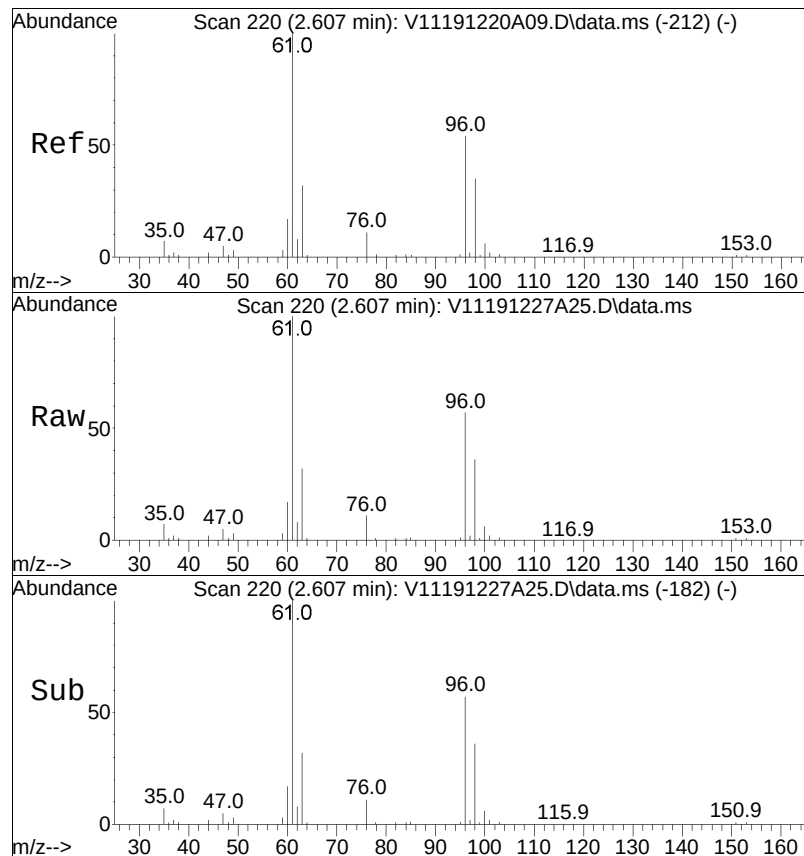




#7  
 Trichlorofluoromethane  
 Concen: 92.06 ug/L  
 RT: 2.177 min Scan# 138  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

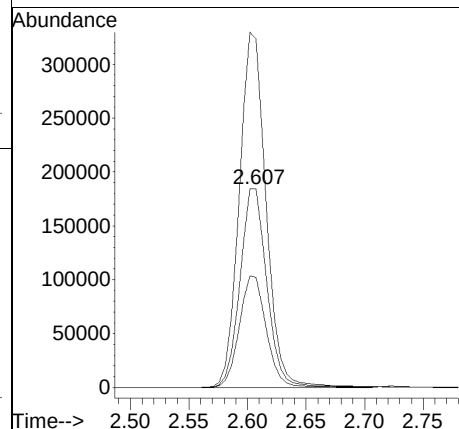
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 64.7  | 51.8  | 77.6  |

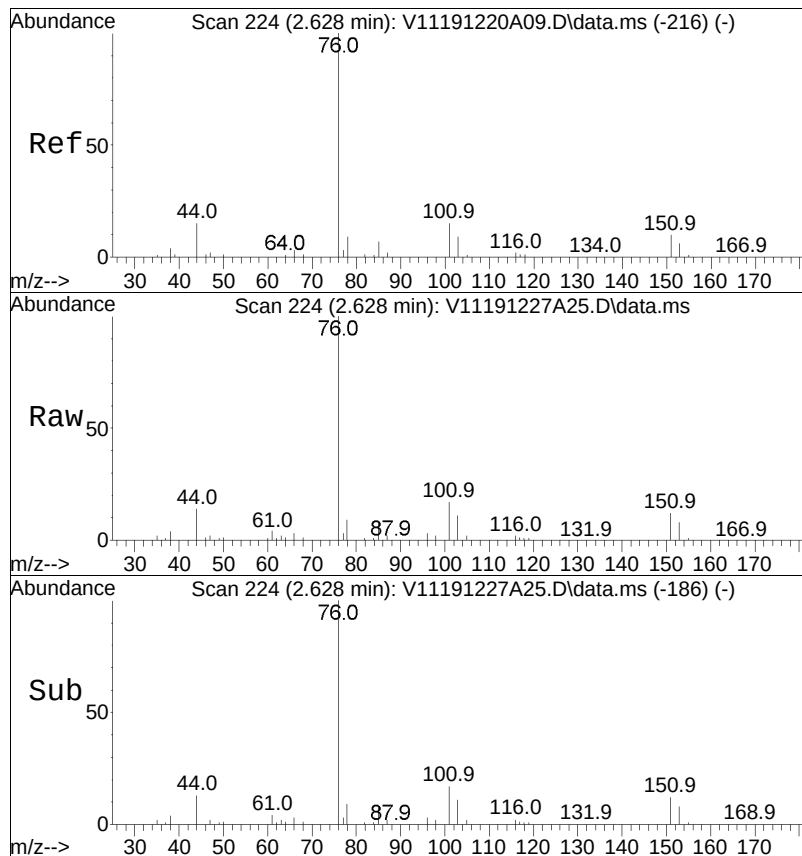




#10  
 1,1-Dichloroethene  
 Concen: 99.11 ug/L  
 RT: 2.607 min Scan# 220  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

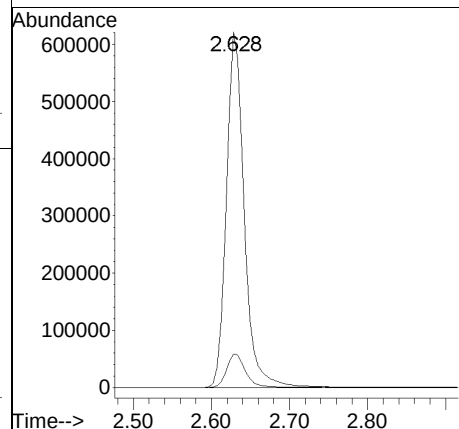
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 294817 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 178.3 | 157.7 | 236.5  |
| 63        | 56.3  | 47.9  | 71.9   |



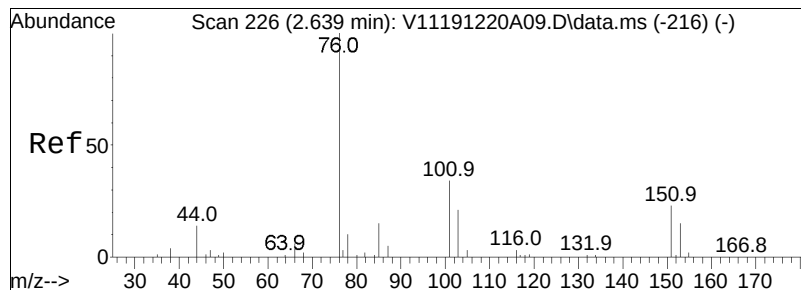


#11  
Carbon disulfide  
Concen: 80.59 ug/L  
RT: 2.628 min Scan# 224  
Delta R.T. 0.000 min  
Lab File: V11191227A25.D  
Acq: 27 Dec 2019 03:25 pm

| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 76  | 100 |       |       |       |
| 78  | 9.9 | 6.4   | 13.4  |       |







#12

Freon-113

Concen: 102.67 ug/L

RT: 2.639 min Scan# 226

Delta R.T. -0.000 min

Lab File: V11191227A25.D

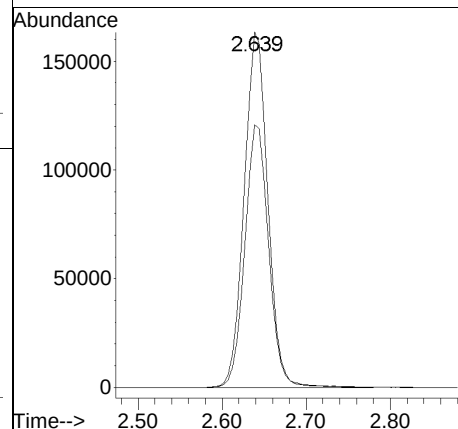
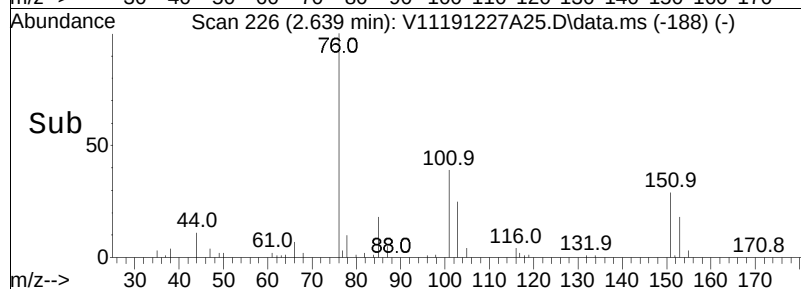
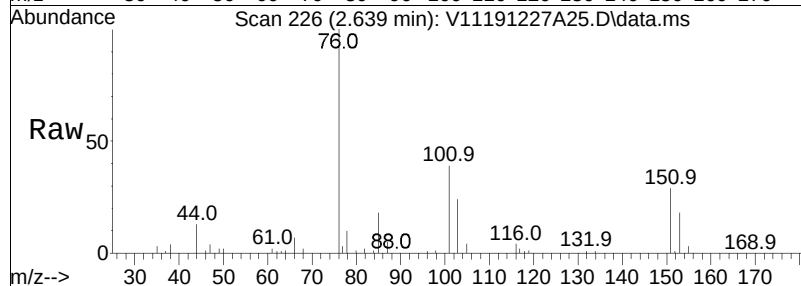
Acq: 27 Dec 2019 03:25 pm

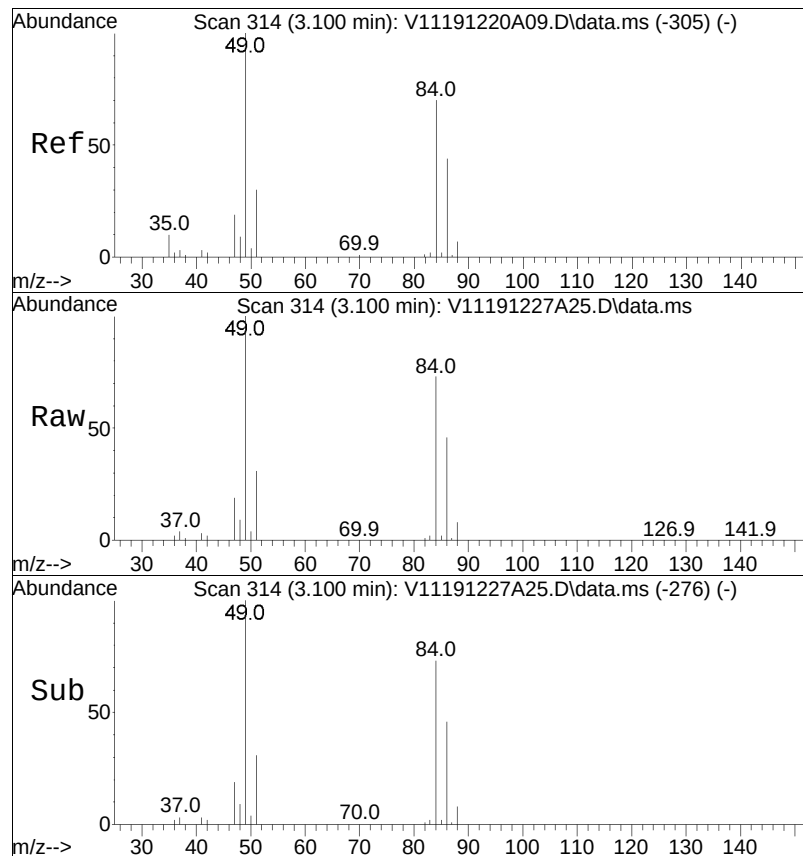
Tgt Ion:101 Resp: 320257

Ion Ratio Lower Upper

101 100

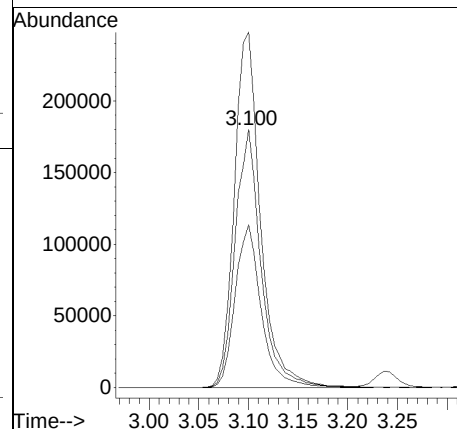
151 74.2 62.2 93.4

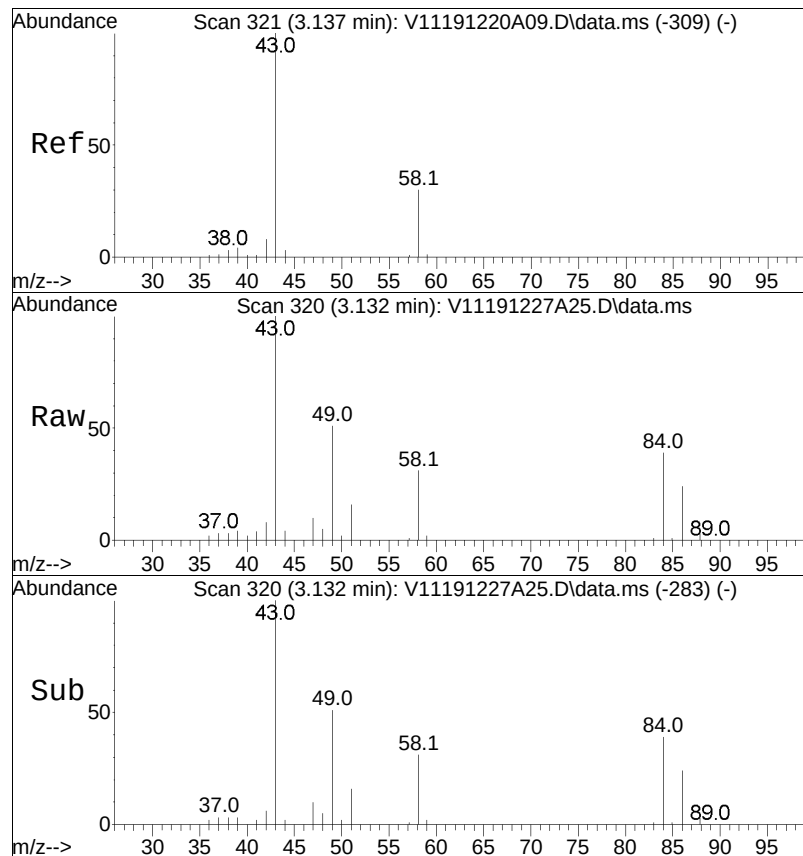




#15  
Methylene chloride  
Concen: 77.91 ug/L  
RT: 3.100 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: V11191227A25.D  
Acq: 27 Dec 2019 03:25 pm

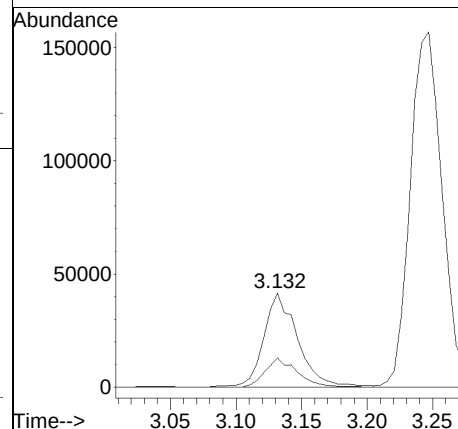
| Tgt Ion:  | 84    | Resp: | 325350 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 86        | 64.0  | 41.1  | 85.3   |
| 49        | 140.0 | 124.2 | 258.0  |

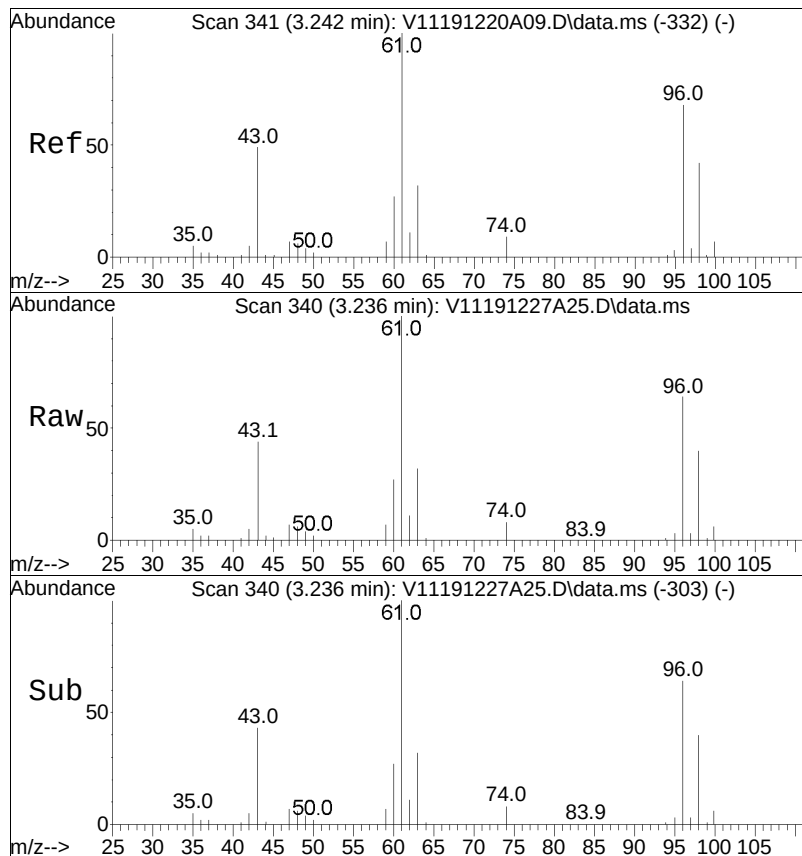




#17  
 Acetone  
 Concen: 80.11 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.005 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

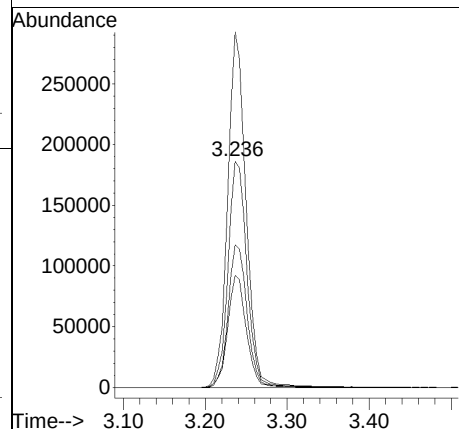
| Tgt Ion: | 43  | 58   | Ratio | 100 | 29.9 | Resp: | 75897 | Lower | Upper |
|----------|-----|------|-------|-----|------|-------|-------|-------|-------|
| 43       | 100 |      |       |     |      |       |       |       |       |
| 58       |     | 29.9 |       |     |      |       |       | 20.8  | 31.2  |

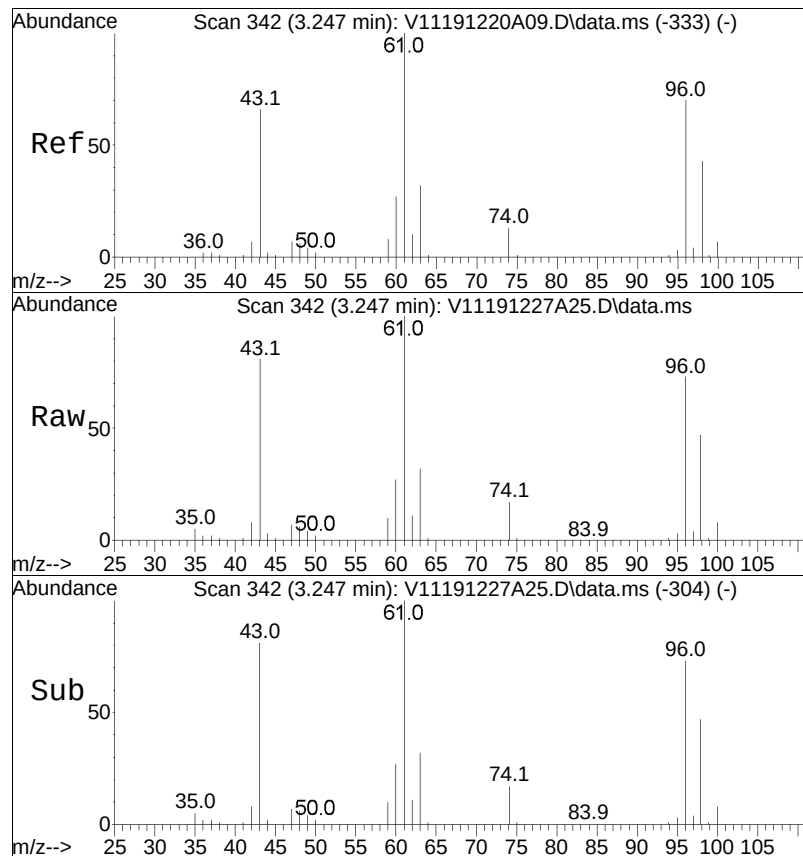




#18  
 trans-1,2-Dichloroethene  
 Concen: 86.68 ug/L  
 RT: 3.236 min Scan# 340  
 Delta R.T. -0.006 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

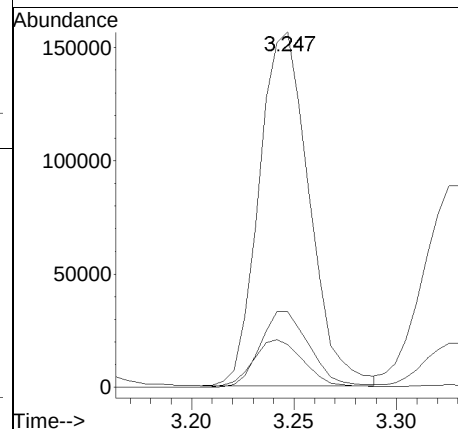
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 298923 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 152.3 | 111.1 | 230.8  |
| 98        | 63.4  | 41.8  | 86.8   |
| 63        | 48.9  | 33.3  | 69.1   |

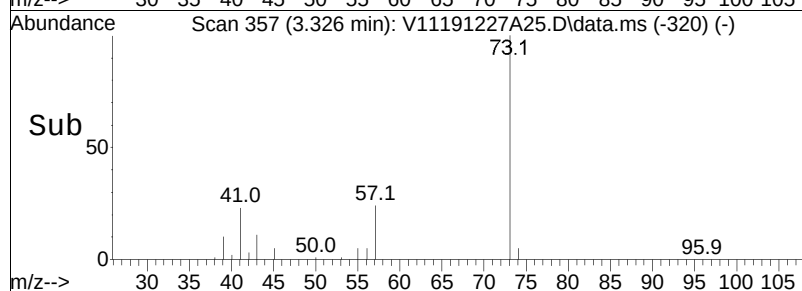
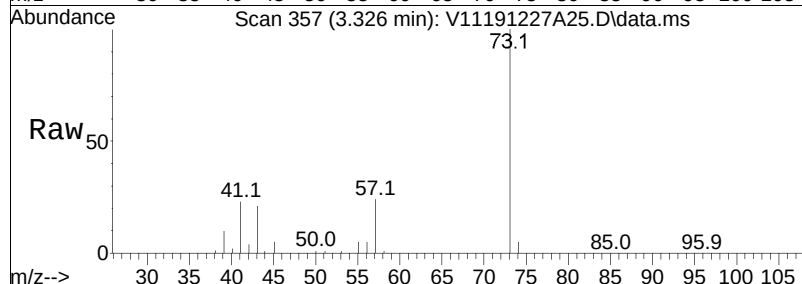
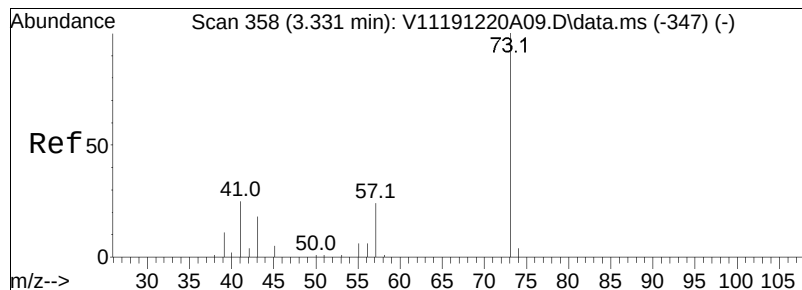




#19  
Methyl acetate  
Concen: 104.93 ug/L  
RT: 3.247 min Scan# 342  
Delta R.T. -0.000 min  
Lab File: V11191227A25.D  
Acq: 27 Dec 2019 03:25 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 21.3  | 11.3  | 16.9# |
| 59      | 13.9  | 10.4  | 15.6  |





#20

Methyl tert-butyl ether

Concen: 90.40 ug/L

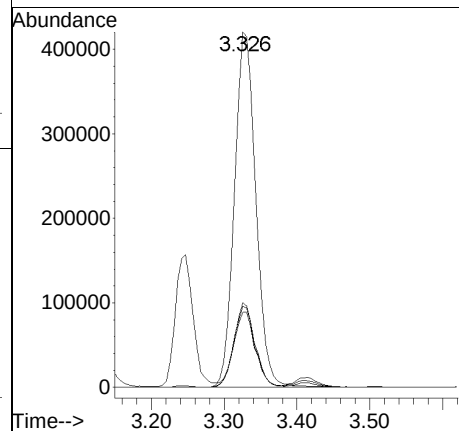
RT: 3.326 min Scan# 357

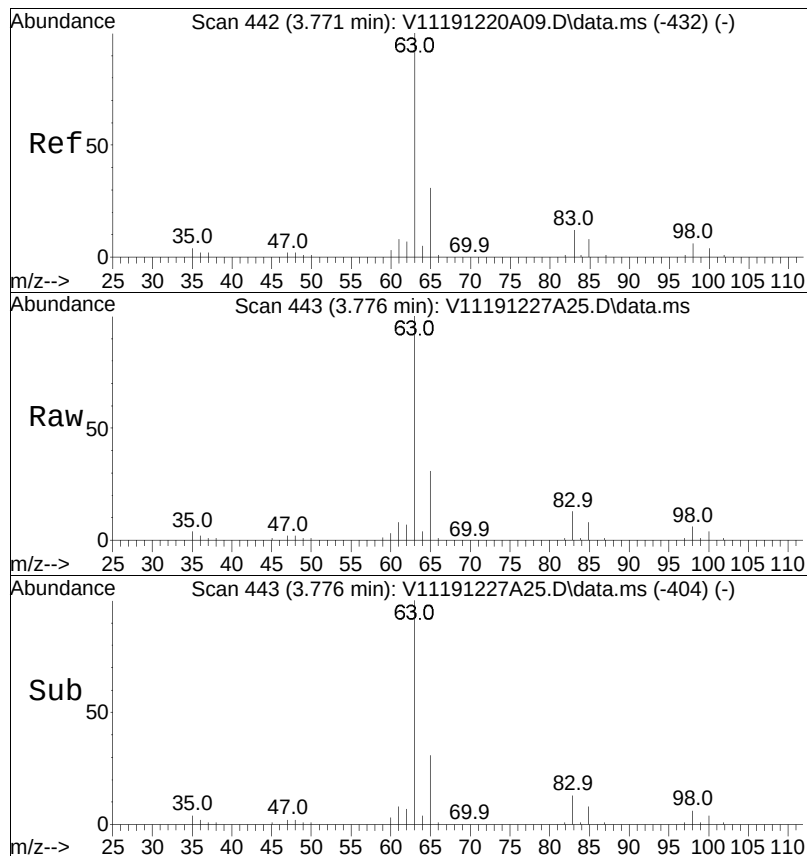
Delta R.T. -0.005 min

Lab File: V11191227A25.D

Acq: 27 Dec 2019 03:25 pm

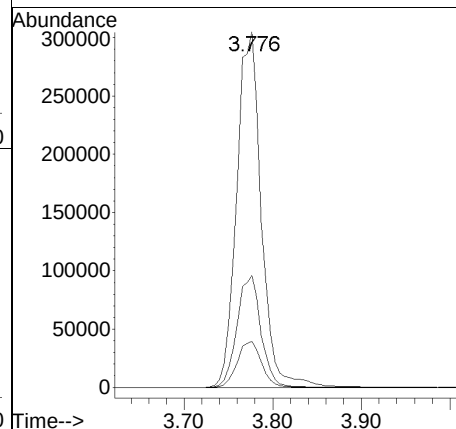
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 73    | Resp: | 862642 |
| Ion Ratio | Lower | Upper |        |
| 73        | 100   |       |        |
| 57        | 23.2  | 19.6  | 40.6   |
| 43        | 21.2  | 18.5  | 38.3   |
| 41        | 22.5  | 20.3  | 42.1   |

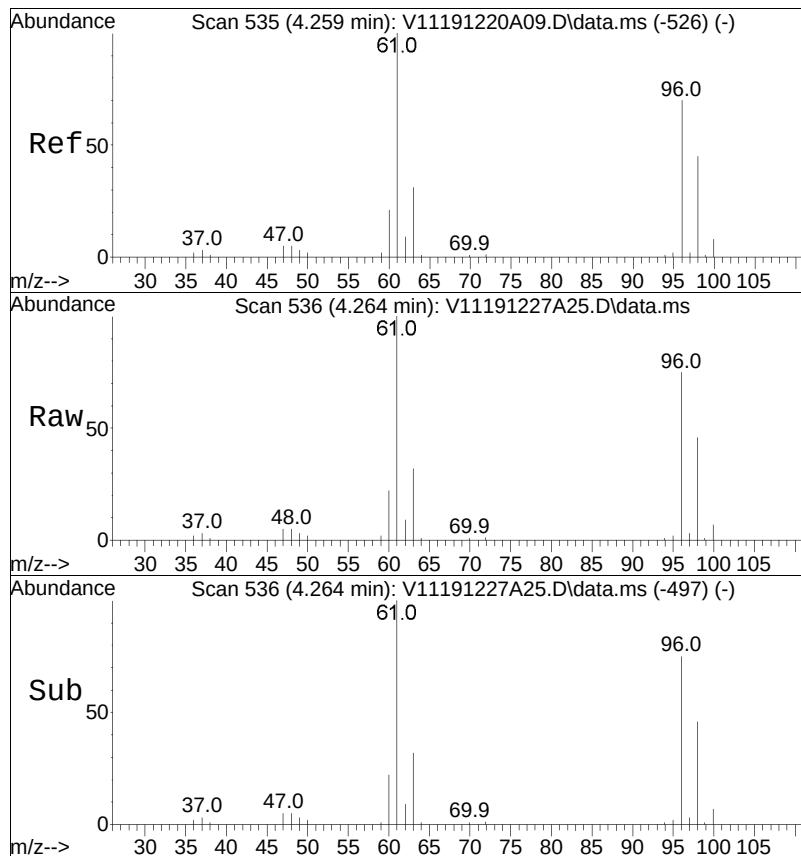




#23  
 1,1-Dichloroethane  
 Concen: 80.97 ug/L  
 RT: 3.776 min Scan# 443  
 Delta R.T. 0.005 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

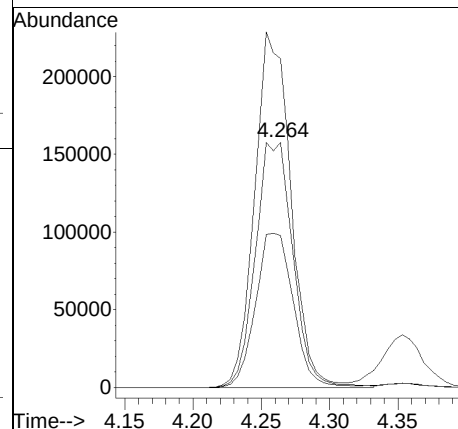
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 589405 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 65  | 30.6    | 9.0   | 49.0   |
| 83  | 12.8    | 0.0   | 31.4   |



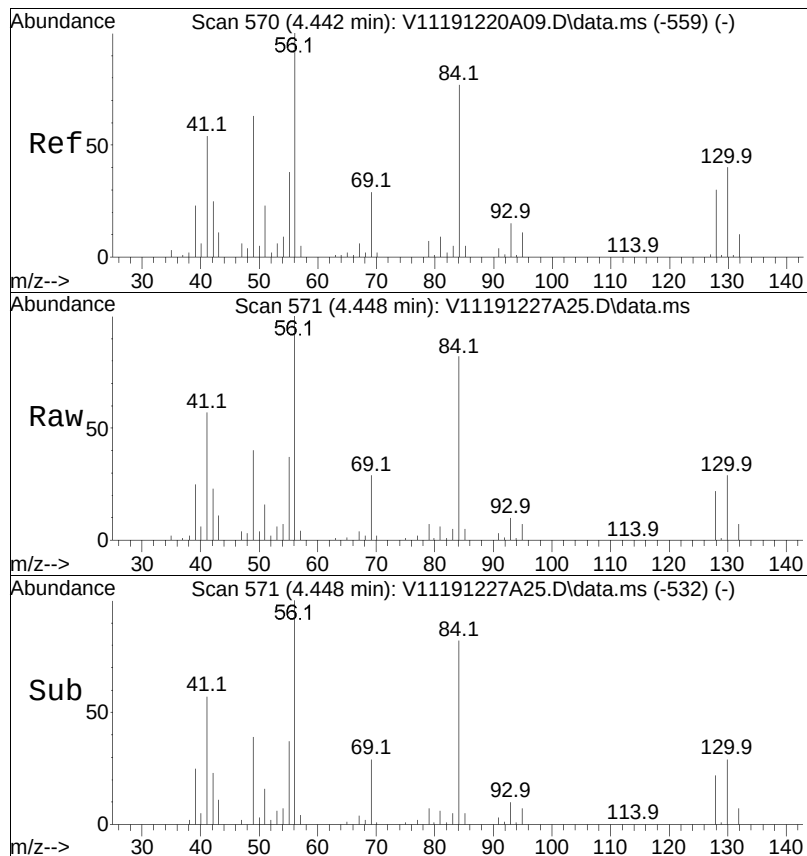


#28  
 cis-1,2-Dichloroethene  
 Concen: 79.25 ug/L  
 RT: 4.264 min Scan# 536  
 Delta R.T. 0.005 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 301067 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 139.3 | 126.3 | 189.5  |
| 98        | 63.4  | 51.0  | 76.6   |

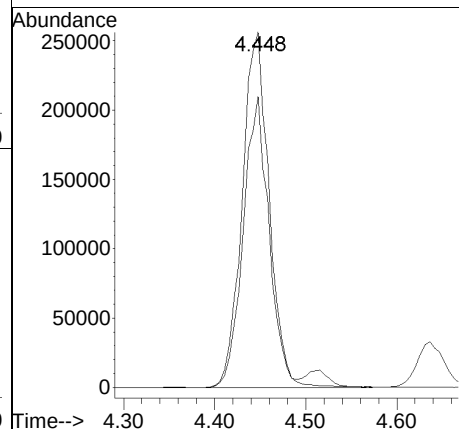


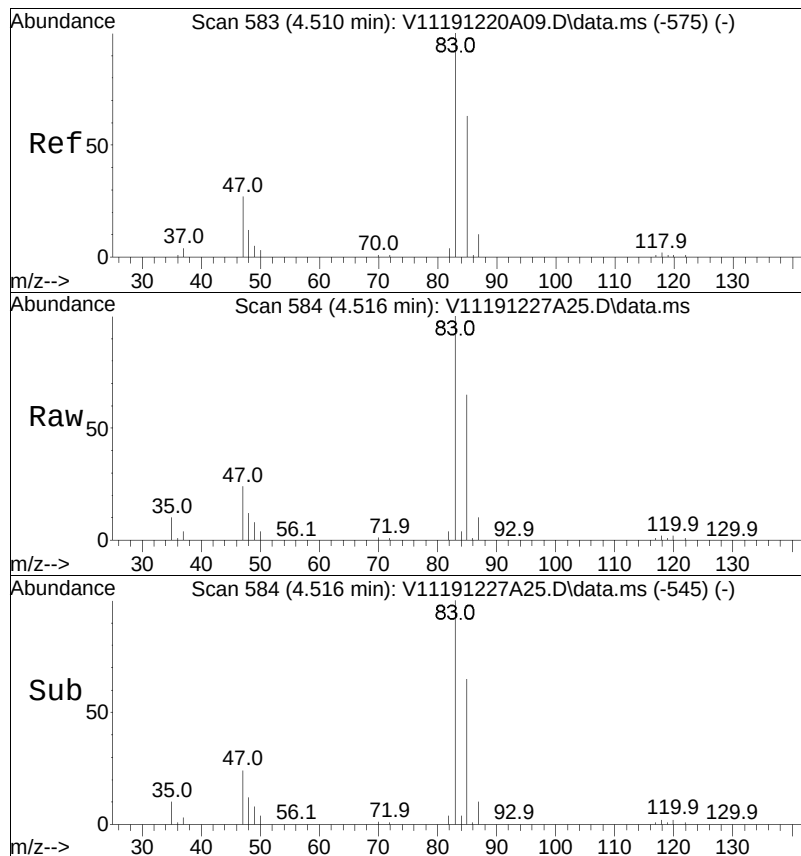




#31  
 Cyclohexane  
 Concen: 89.00 ug/L  
 RT: 4.448 min Scan# 571  
 Delta R.T. 0.006 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

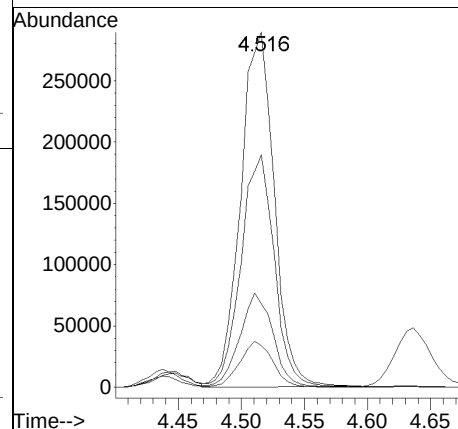
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 56  | 100  |       |       |       |
| 84  | 78.3 | 40.5  | 84.1  |       |

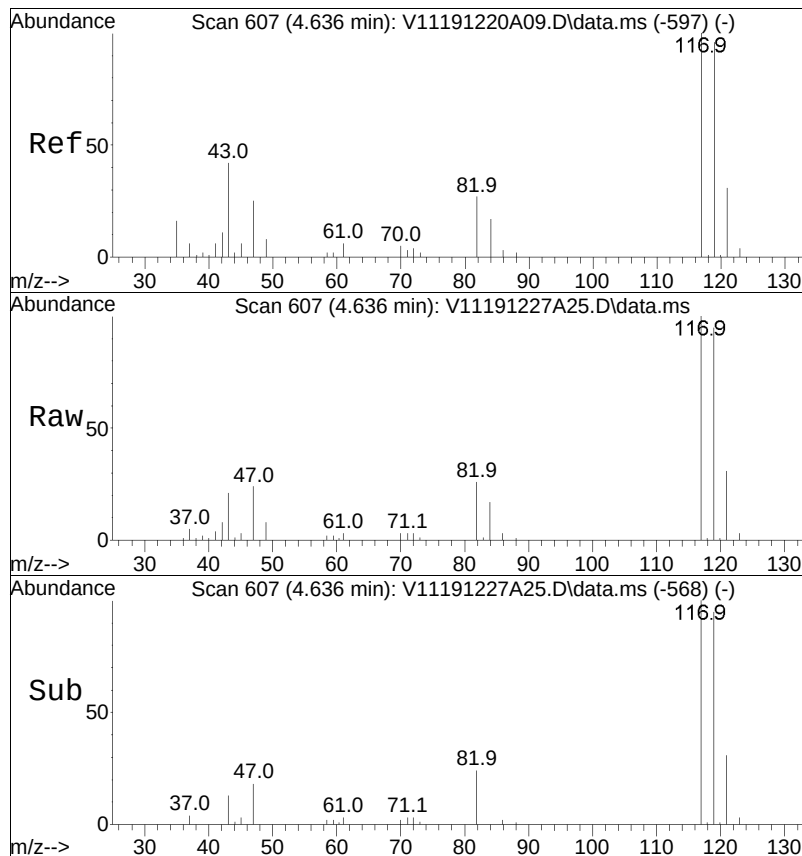




#32  
 Chloroform  
 Concen: 79.67 ug/L  
 RT: 4.516 min Scan# 584  
 Delta R.T. 0.006 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 537237 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.8  | 41.9  | 87.1   |
| 47        | 25.9  | 20.9  | 43.3   |
| 48        | 12.8  | 9.9   | 20.5   |





#34

Carbon tetrachloride

Concen: 87.06 ug/L

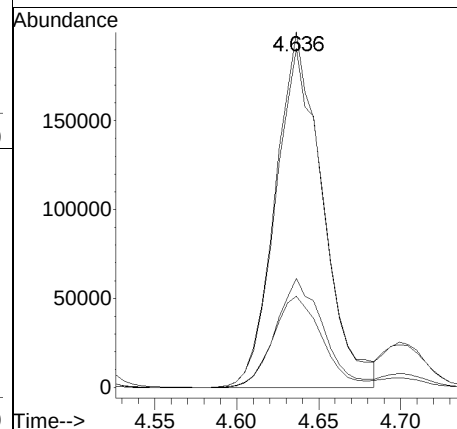
RT: 4.636 min Scan# 607

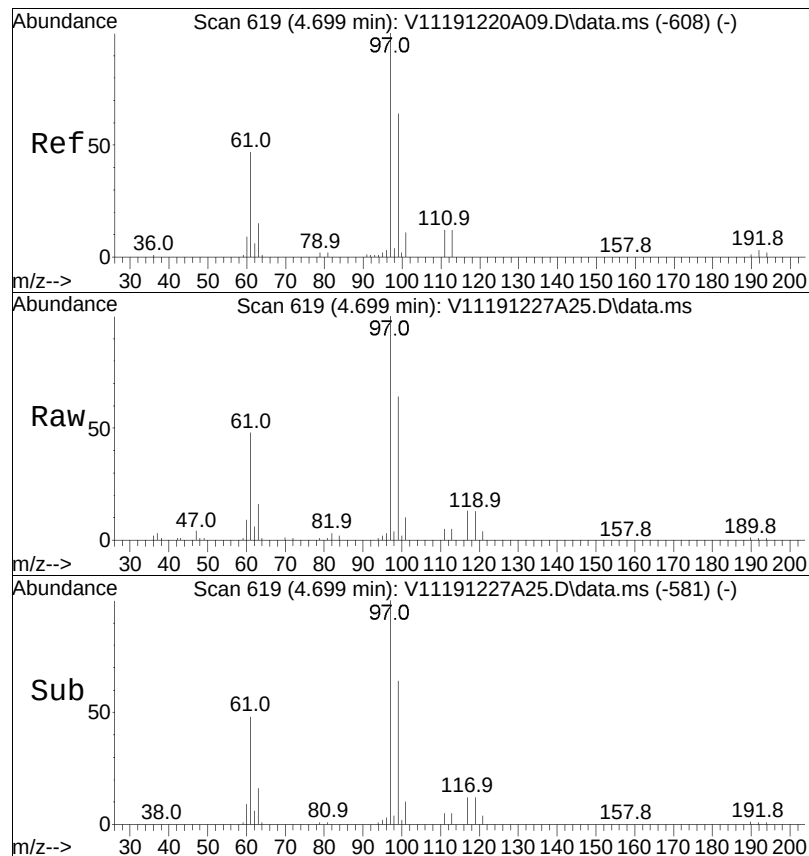
Delta R.T. 0.000 min

Lab File: V11191227A25.D

Acq: 27 Dec 2019 03:25 pm

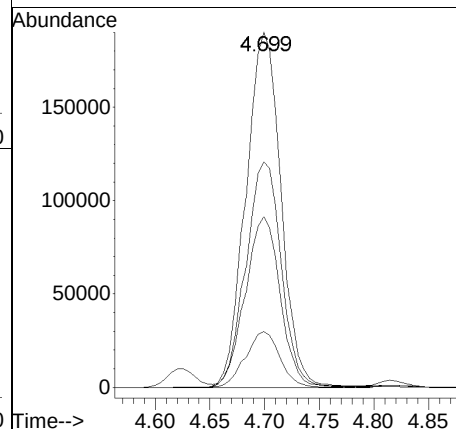
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 400623 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 96.4  | 64.0  | 132.8  |
| 121       | 30.8  | 20.7  | 42.9   |
| 82        | 26.6  | 16.3  | 33.8   |

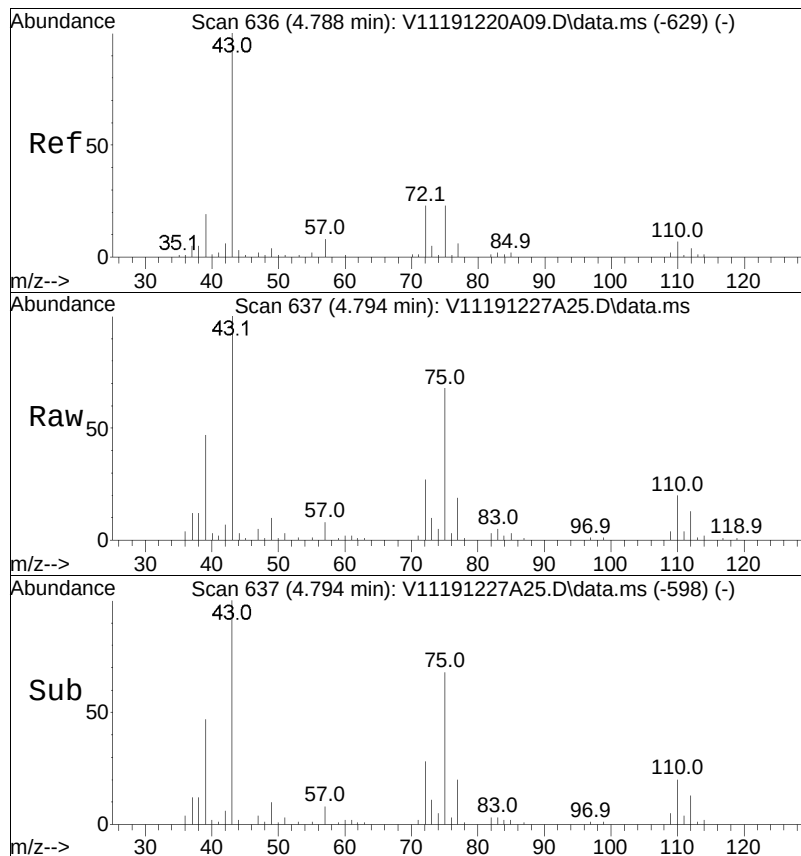




#37  
 1,1,1-Trichloroethane  
 Concen: 78.40 ug/L  
 RT: 4.699 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

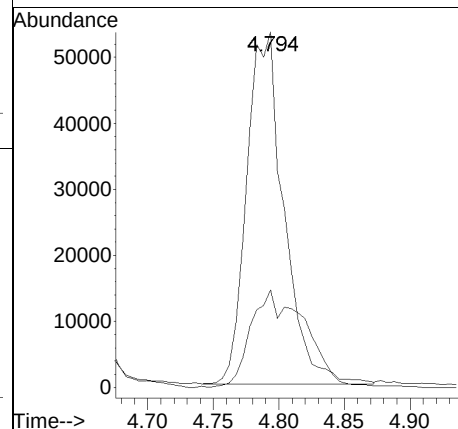
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 426097 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.1  | 41.5  | 86.1   |
| 61        | 48.0  | 32.2  | 67.0   |
| 63        | 15.4  | 10.1  | 20.9   |

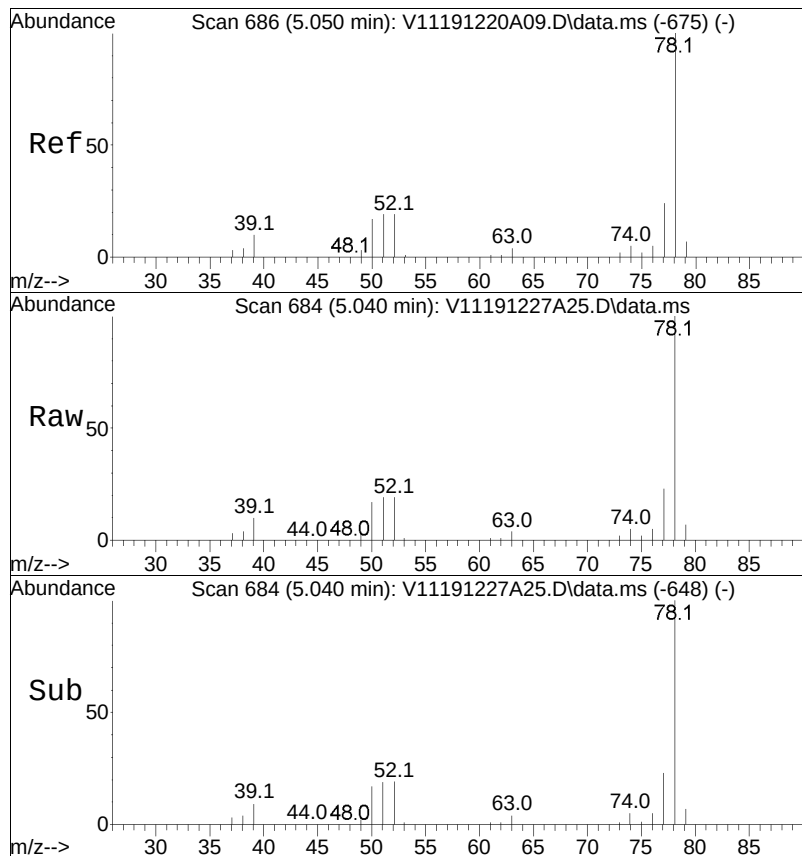




#39  
 2-Butanone  
 Concen: 72.00 ug/L  
 RT: 4.794 min Scan# 637  
 Delta R.T. 0.006 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

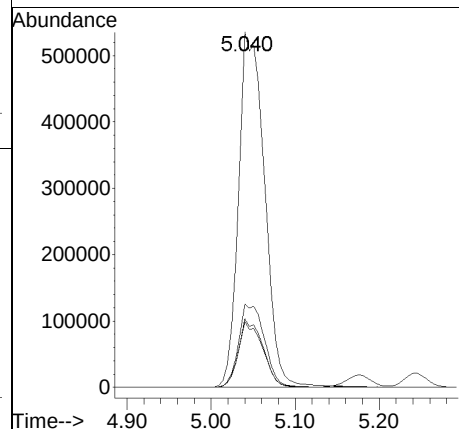
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 43  | 100  |       |       |       |
| 72  | 40.8 | 21.0  | 31.6  |       |

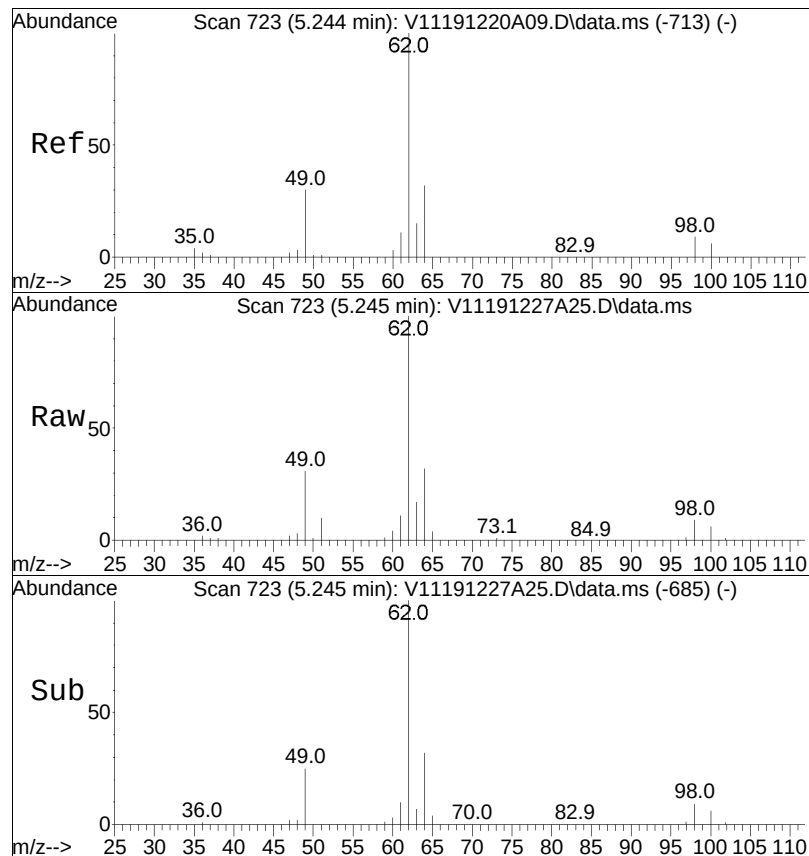




#41  
Benzene  
Concen: 77.15 ug/L  
RT: 5.040 min Scan# 684  
Delta R.T. -0.010 min  
Lab File: V11191227A25.D  
Acq: 27 Dec 2019 03:25 pm

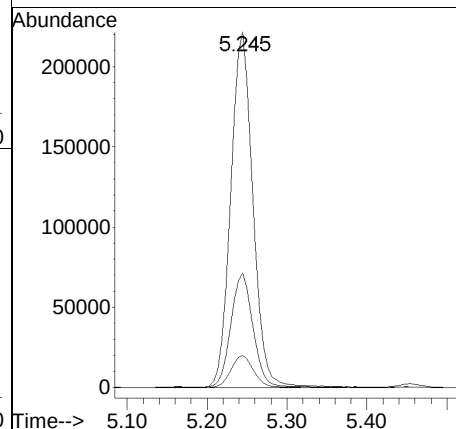
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 78    | Resp: | 1153895 |
| Ion      | Ratio | Lower | Upper   |
| 78       | 100   |       |         |
| 77       | 23.5  | 15.1  | 31.3    |
| 51       | 18.3  | 15.8  | 32.8    |
| 52       | 17.5  | 15.6  | 32.4    |

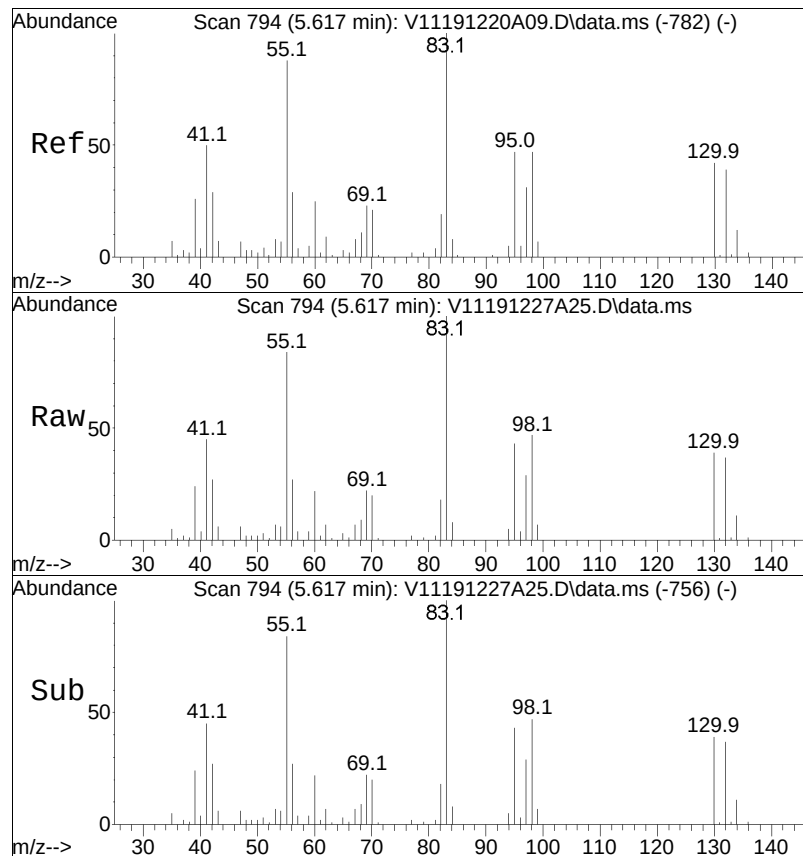




#44  
 1,2-Dichloroethane  
 Concen: 83.38 ug/L  
 RT: 5.245 min Scan# 723  
 Delta R.T. 0.001 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

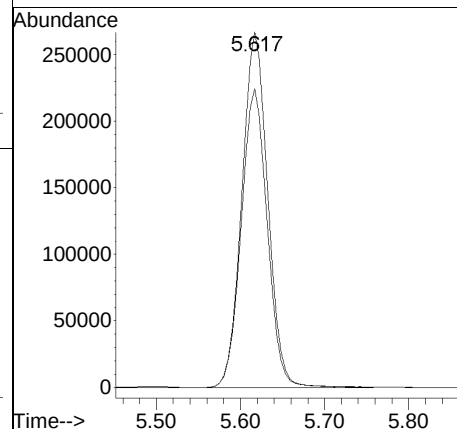
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 62  | 100  |       |       |       |
| 64  | 32.3 | 11.1  | 51.1  |       |
| 98  | 9.1  | 0.0   | 28.0  |       |



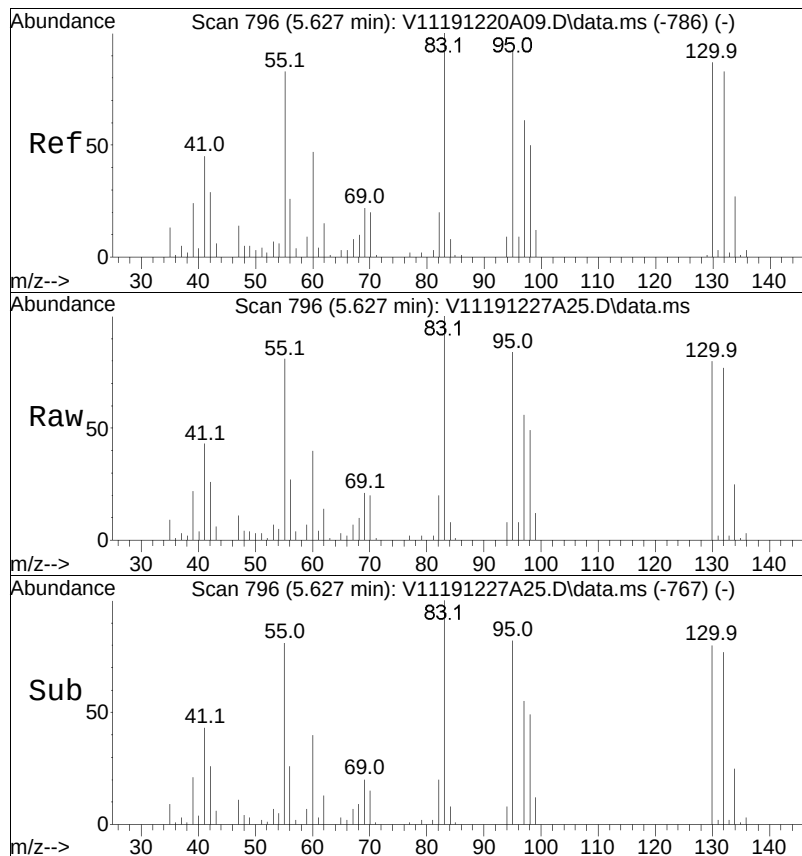


#47  
 Methyl cyclohexane  
 Concen: 102.38 ug/L  
 RT: 5.617 min Scan# 794  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 84.9  | 88.1  | 132.1# |







#48

Trichloroethene

Concen: 90.59 ug/L

RT: 5.627 min Scan# 796

Delta R.T. 0.000 min

Lab File: V11191227A25.D

Acq: 27 Dec 2019 03:25 pm

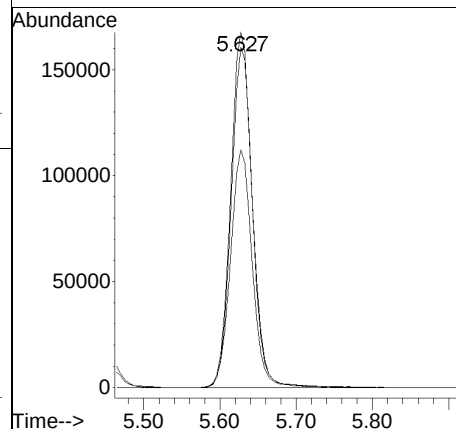
Tgt Ion: 95 Resp: 327998

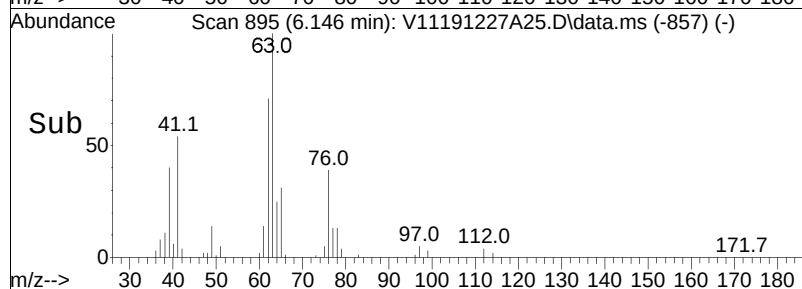
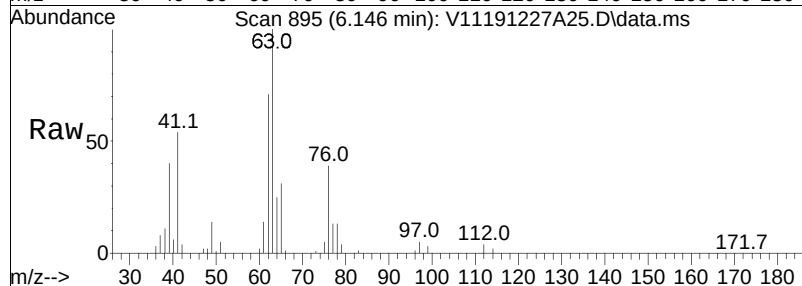
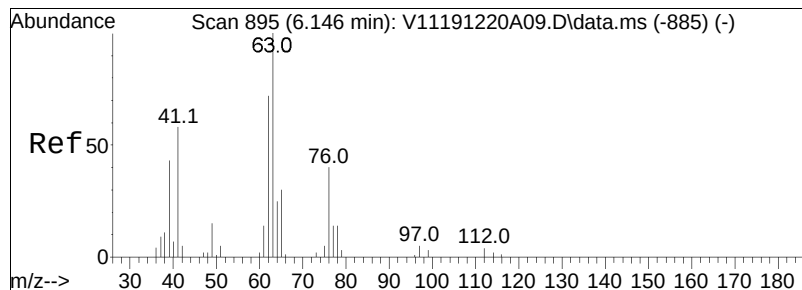
Ion Ratio Lower Upper

95 100

97 67.8 54.3 81.5

130 95.9 84.6 126.8





#51

1,2-Dichloropropane

Concen: 90.89 ug/L

RT: 6.146 min Scan# 895

Delta R.T. 0.000 min

Lab File: V11191227A25.D

Acq: 27 Dec 2019 03:25 pm

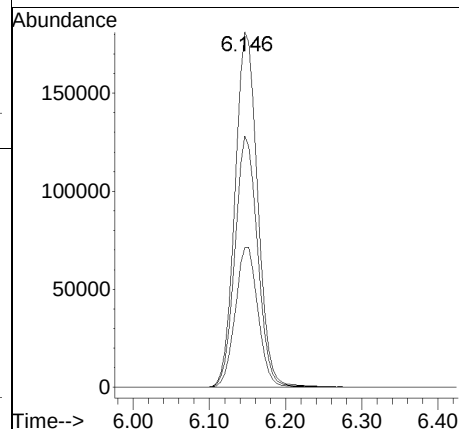
Tgt Ion: 63 Resp: 374944

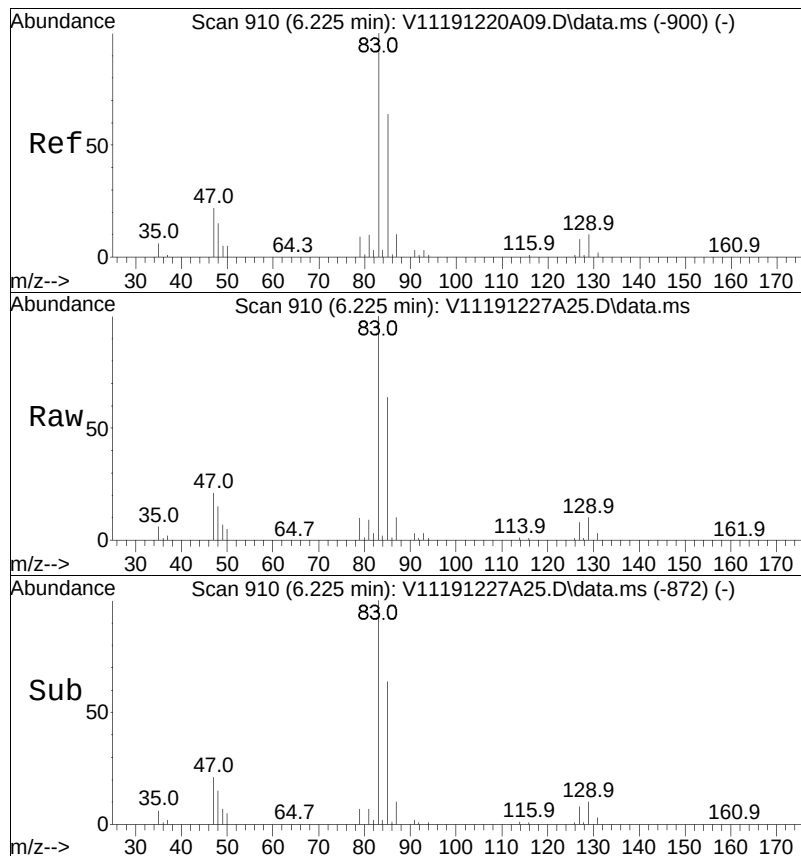
Ion Ratio Lower Upper

63 100

62 70.9 57.9 86.9

76 39.8 30.1 45.1





#54

Bromodichloromethane

Concen: 87.58 ug/L

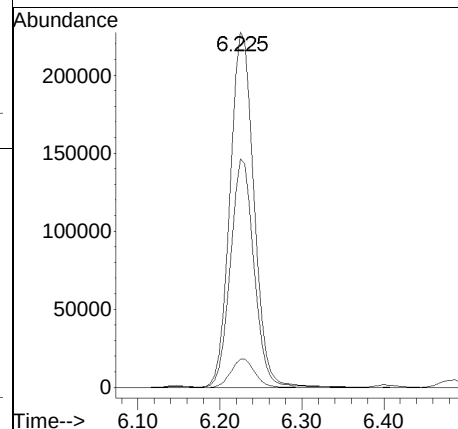
RT: 6.225 min Scan# 910

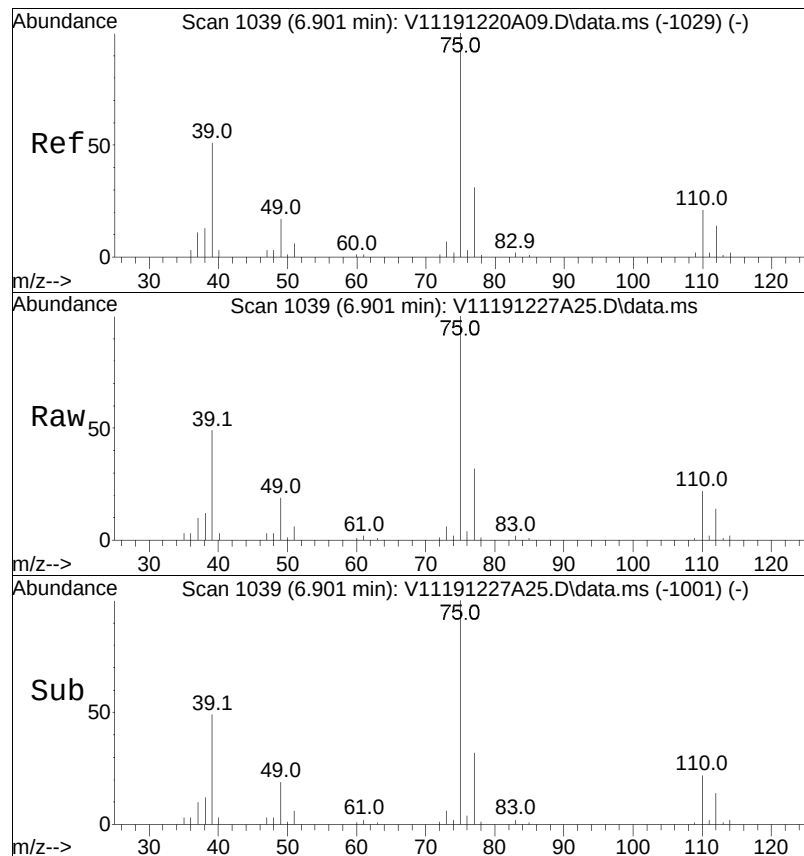
Delta R.T. -0.000 min

Lab File: V11191227A25.D

Acq: 27 Dec 2019 03:25 pm

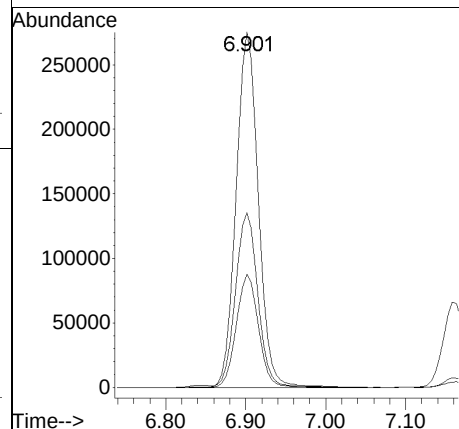
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 83 | Resp: | 463101 |
| Ion | Ratio   | Lower | Upper  |
| 83  | 100     |       |        |
| 85  | 63.2    | 51.6  | 77.4   |
| 127 | 7.9     | 7.1   | 10.7   |

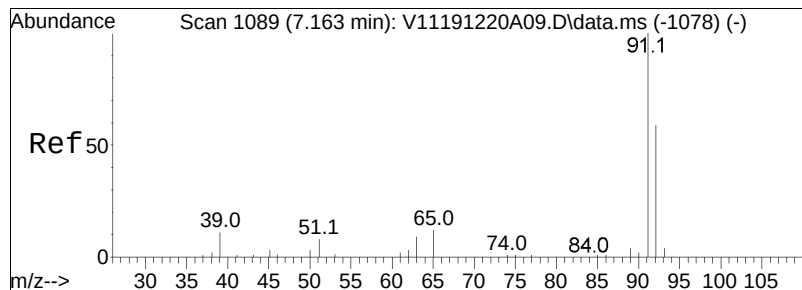




#58  
 cis-1,3-Dichloropropene  
 Concen: 88.81 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

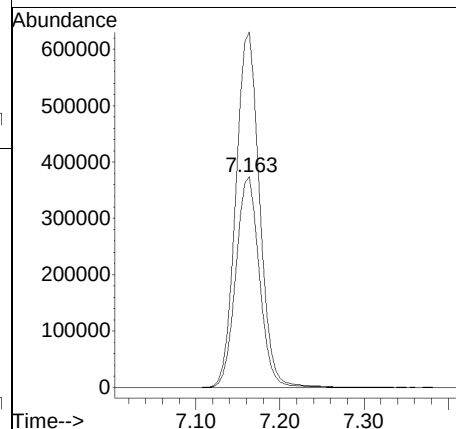
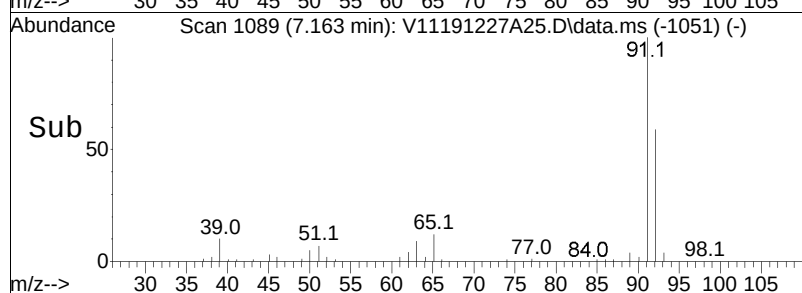
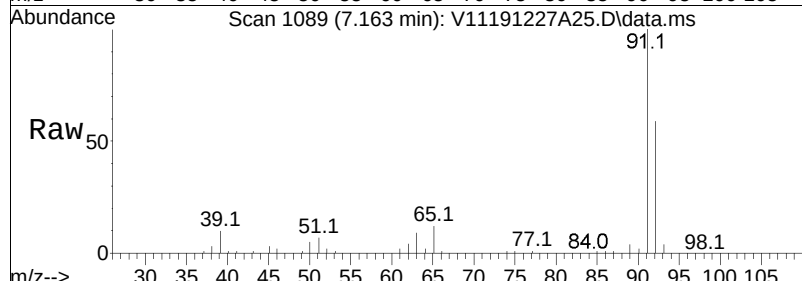
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.9  | 24.9  | 37.3  |
| 39      | 49.6  | 51.8  | 77.8# |

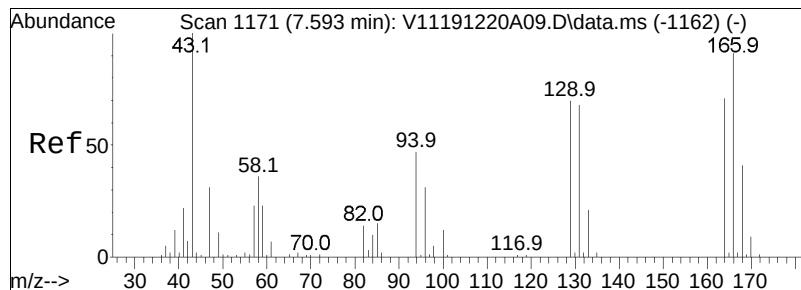




#61  
Toluene  
Concen: 73.49 ug/L  
RT: 7.163 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: V11191227A25.D  
Acq: 27 Dec 2019 03:25 pm

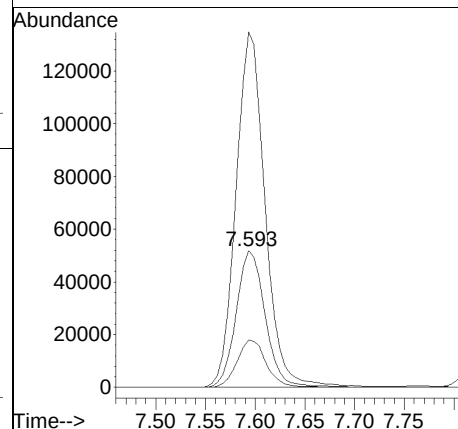
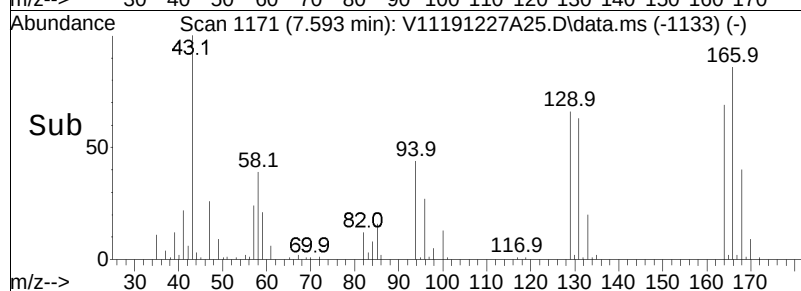
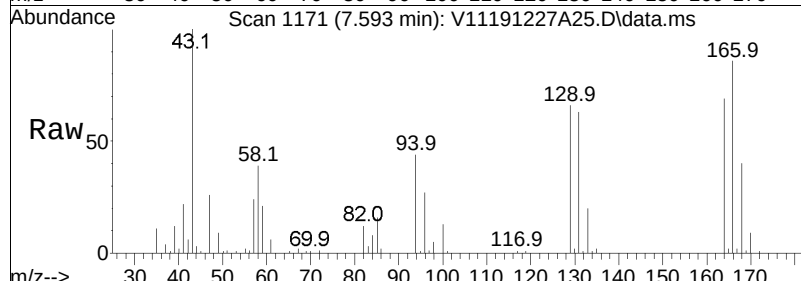
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 169.8 | 133.7 | 200.5 |

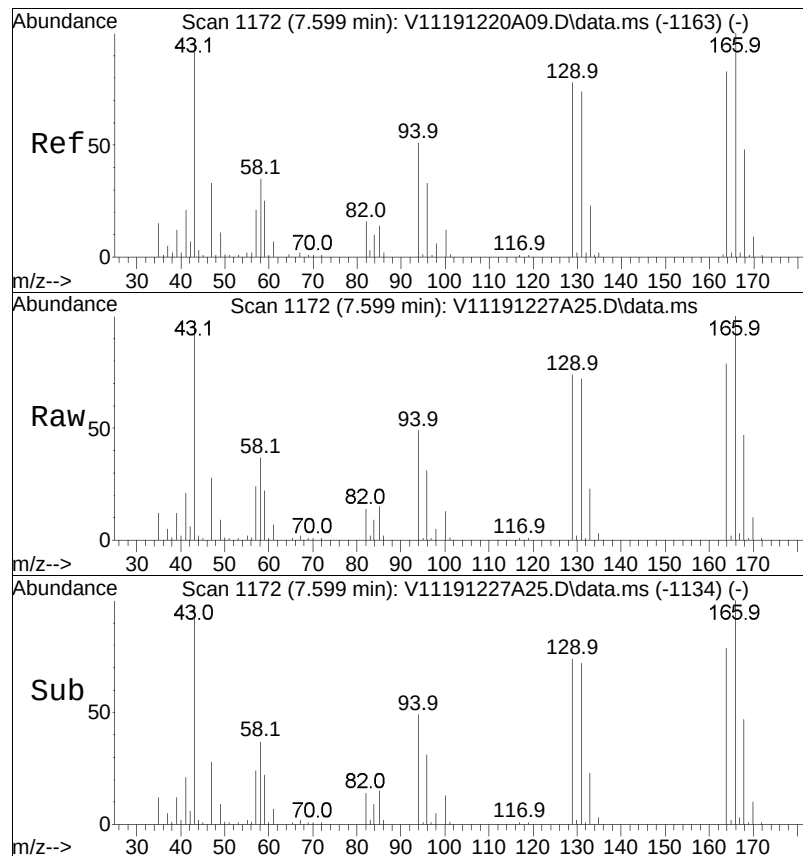




#62  
 4-Methyl-2-pentanone  
 Concen: 84.00 ug/L  
 RT: 7.593 min Scan# 1171  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

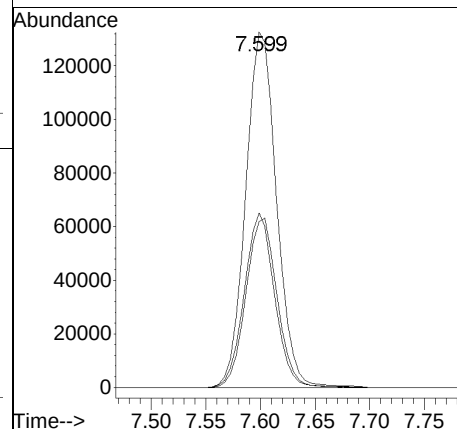
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 58    | Resp: | 105970 |
| Ion Ratio | Lower | Upper |        |
| 58        | 100   |       |        |
| 100       | 34.9  | 22.0  | 33.0#  |
| 43        | 259.6 | 236.9 | 355.3  |

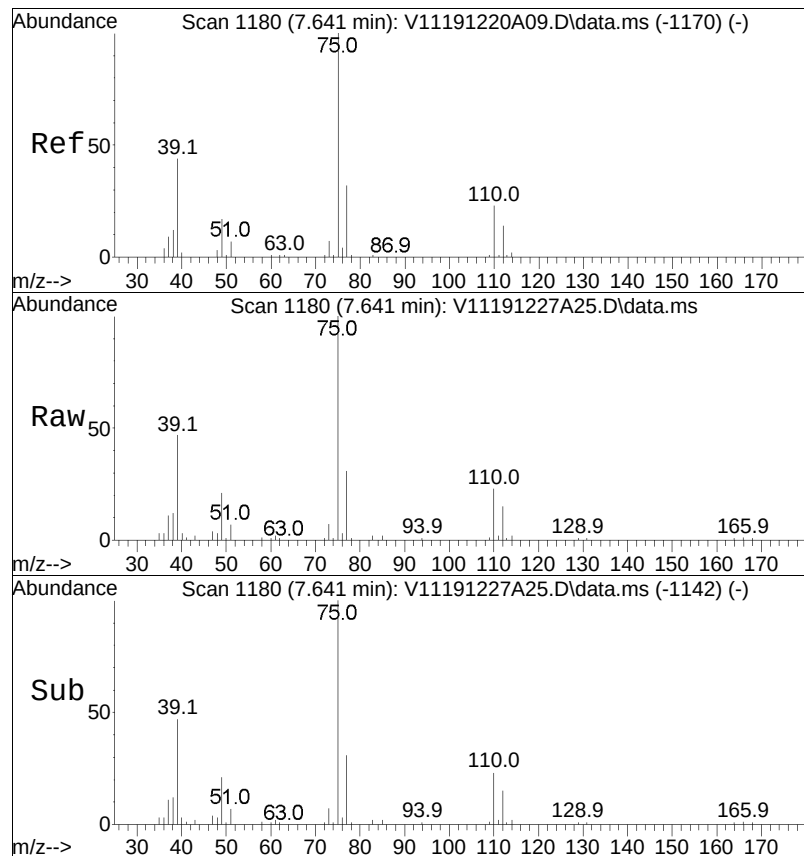




#63  
 Tetrachloroethene  
 Concen: 70.28 ug/L  
 RT: 7.599 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

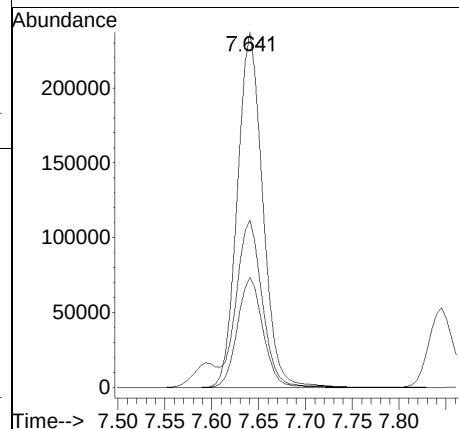
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 260416 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 168 | 48.1    | 28.2  | 68.2   |
| 94  | 48.0    | 26.3  | 66.3   |



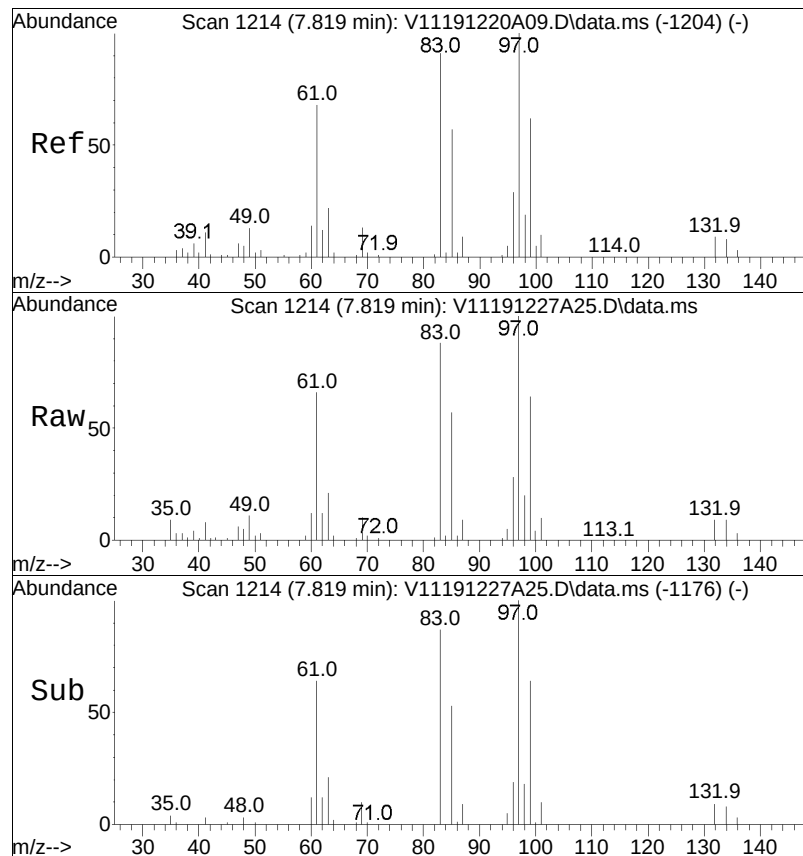


#65  
 trans-1,3-Dichloropropene  
 Concen: 75.61 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.4  | 11.4  | 51.4  |
| 39      | 48.0  | 50.3  | 90.3# |

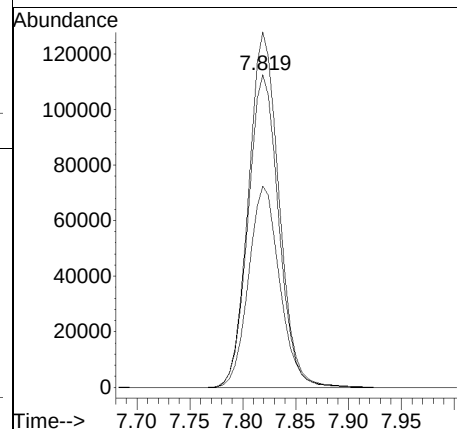


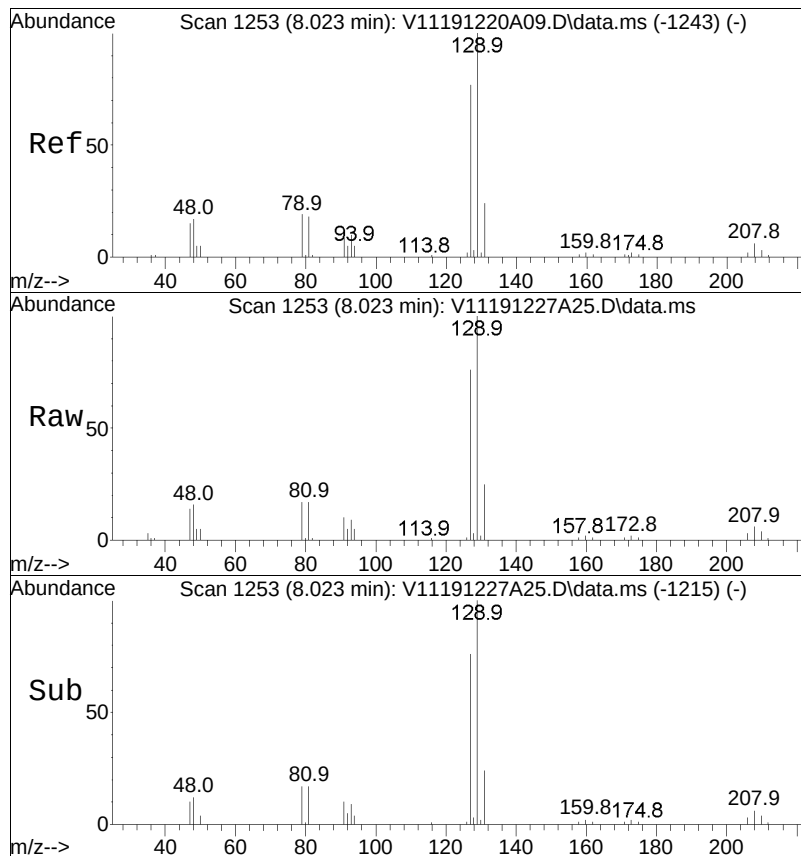




#68  
 1,1,2-Trichloroethane  
 Concen: 76.50 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

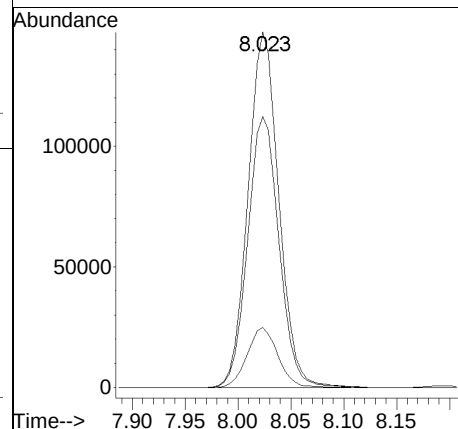
| Tgt Ion:  | 83    | Resp: | 226752 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 112.9 | 97.6  | 137.6  |
| 85        | 65.7  | 46.8  | 86.8   |

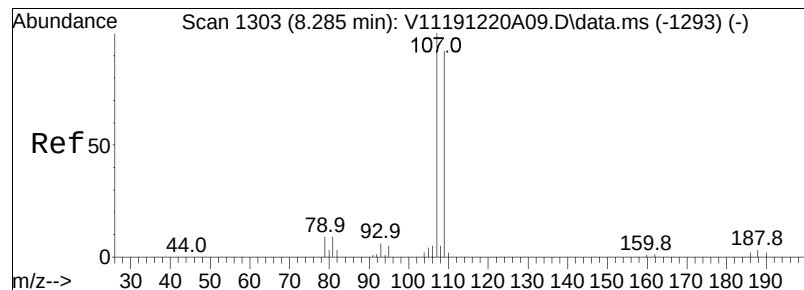




#69  
 Chlorodibromomethane  
 Concen: 77.78 ug/L  
 RT: 8.023 min Scan# 1253  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

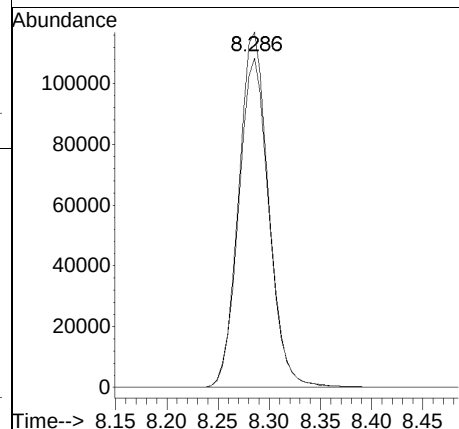
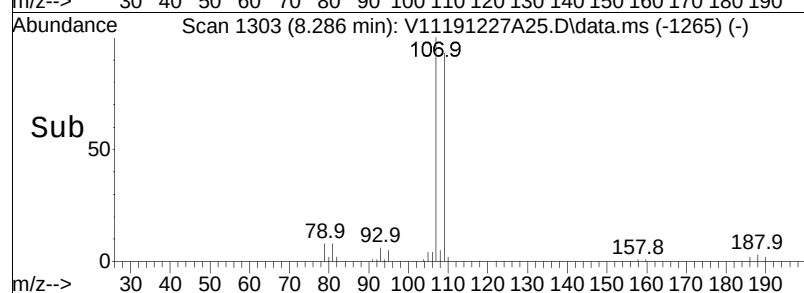
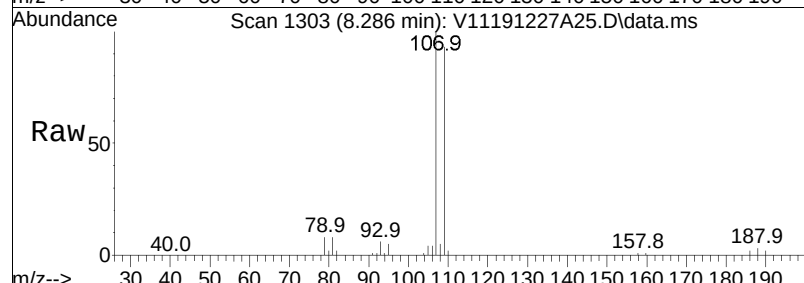
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 129     | 100   | 297951 |       |       |
| 81      | 16.8  |        | 0.0   | 36.0  |
| 127     | 77.5  |        | 56.0  | 96.0  |

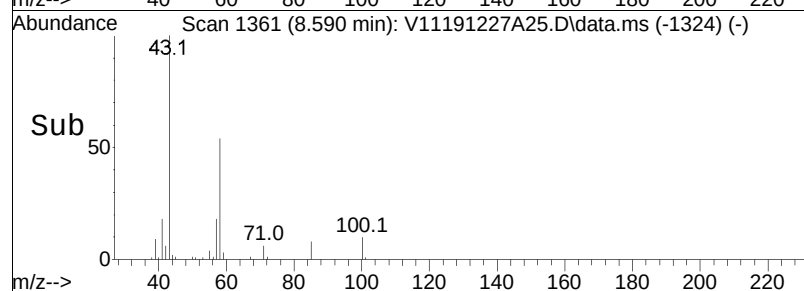
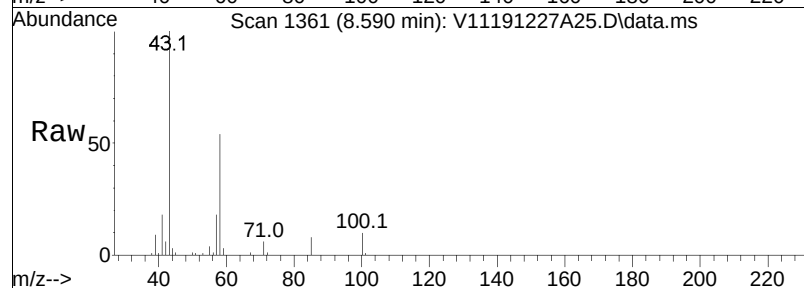
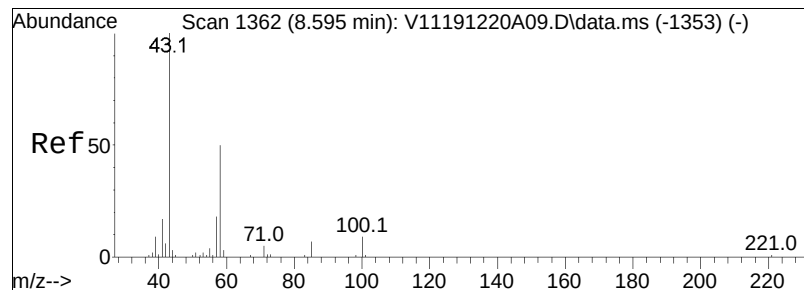




#71  
 1,2-Dibromoethane  
 Concen: 76.22 ug/L  
 RT: 8.286 min Scan# 1303  
 Delta R.T. 0.001 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

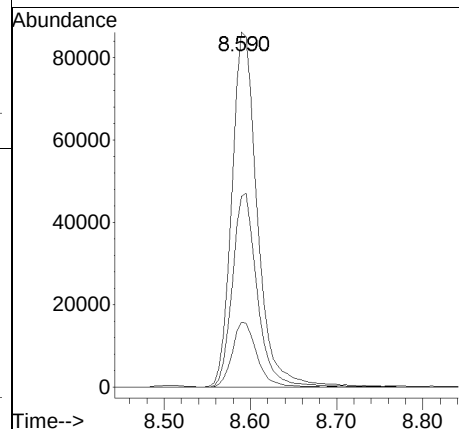
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.6  | 76.2  | 114.4 |

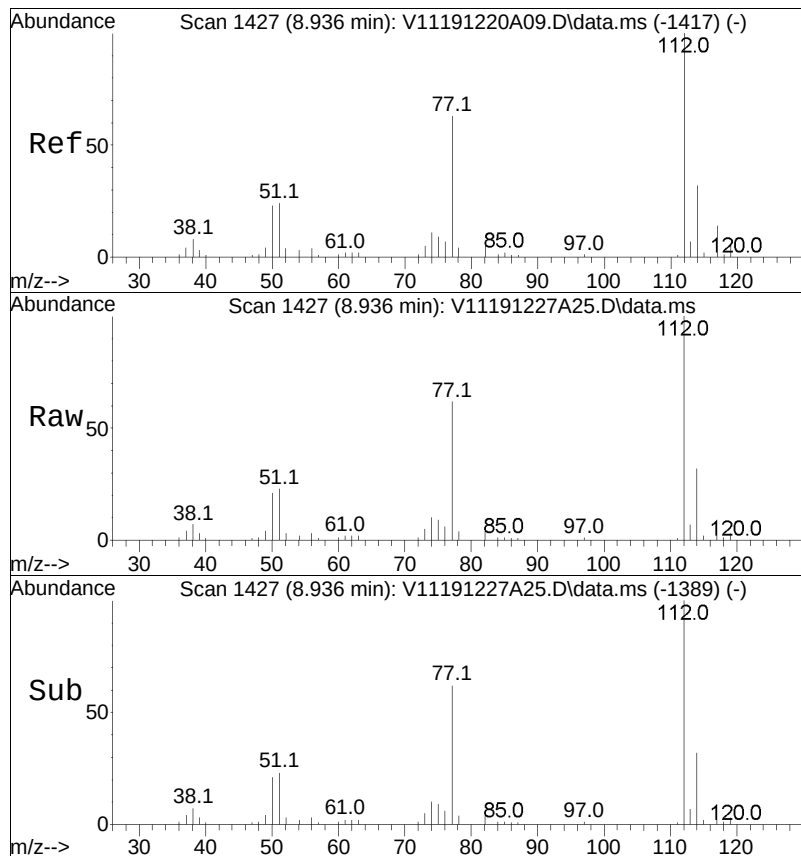




#72  
 2-Hexanone  
 Concen: 80.29 ug/L  
 RT: 8.590 min Scan# 1361  
 Delta R.T. -0.005 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

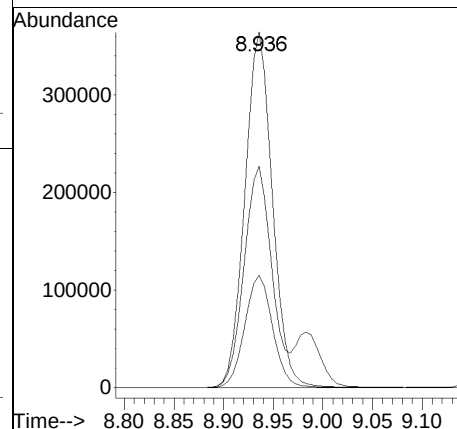
| Tgt Ion:  | 43    | Resp: | 179002 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 53.3  | 37.9  | 56.9   |
| 57        | 17.8  | 12.6  | 19.0   |

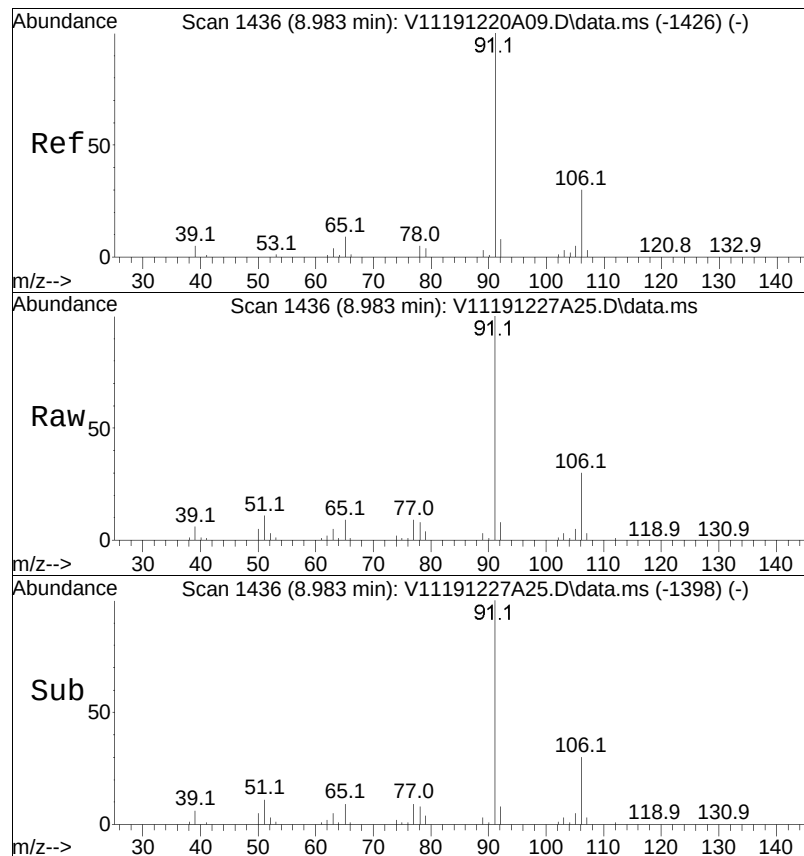




#73  
 Chlorobenzene  
 Concen: 65.41 ug/L  
 RT: 8.936 min Scan# 1427  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

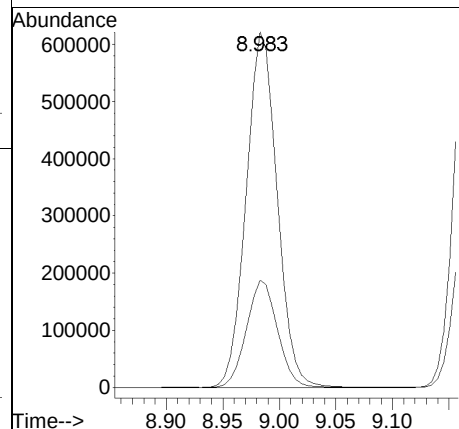
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:112 | Resp: | 702972 |
| Ion | Ratio   | Lower | Upper  |
| 112 | 100     |       |        |
| 77  | 63.6    | 47.0  | 70.4   |
| 114 | 31.9    | 25.9  | 38.9   |

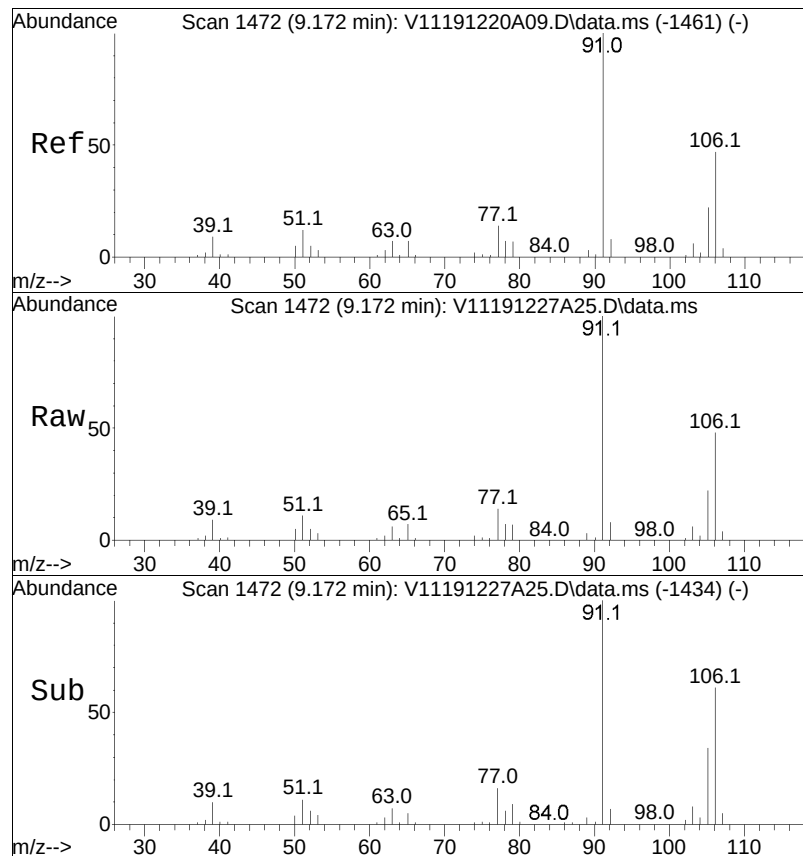




#74  
 Ethylbenzene  
 Concen: 66.51 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

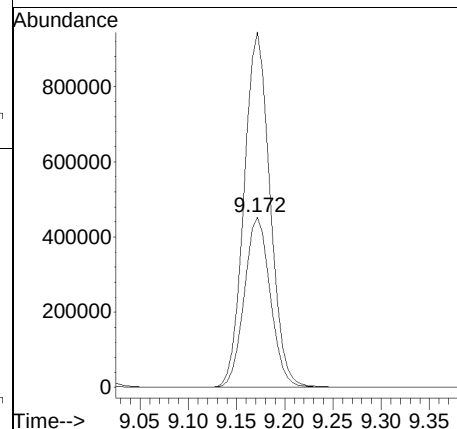
Tgt Ion: 91 Resp: 1184917  
 Ion Ratio Lower Upper  
 91 100  
 106 30.1 25.0 37.4

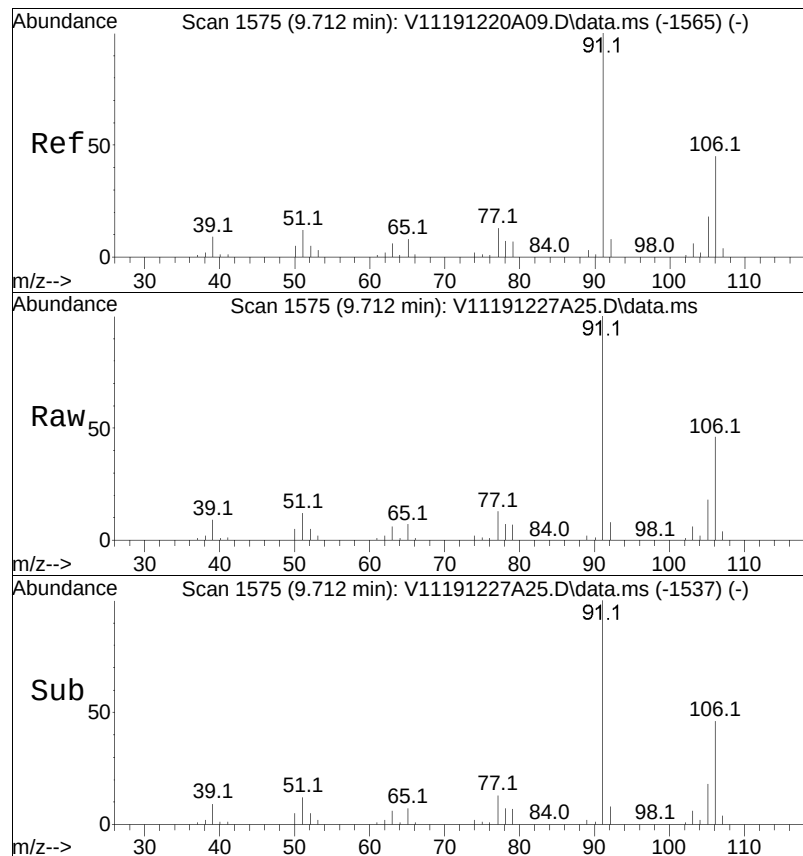




#76  
 p/m Xylene  
 Concen: 133.43 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

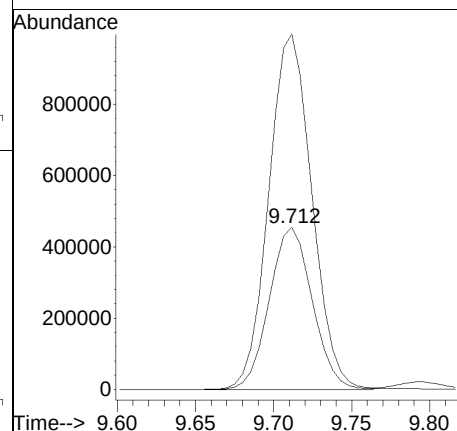
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 207.7 | 159.3 | 238.9 |       |



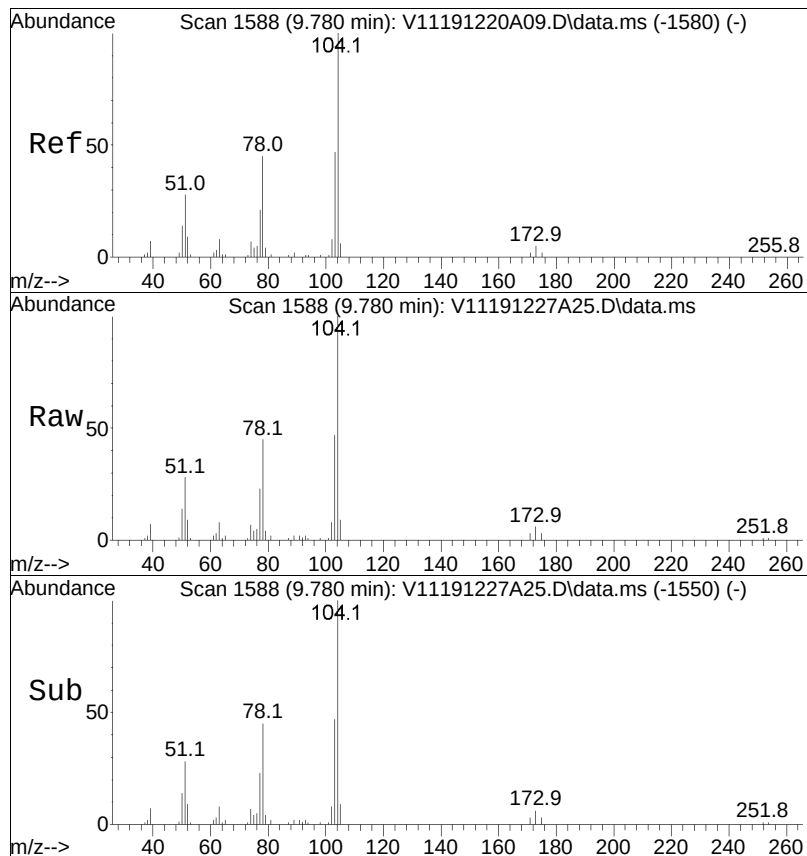


#77  
 o Xylene  
 Concen: 140.84 ug/L  
 RT: 9.712 min Scan# 1575  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 219.9 | 170.2 | 255.2 |       |

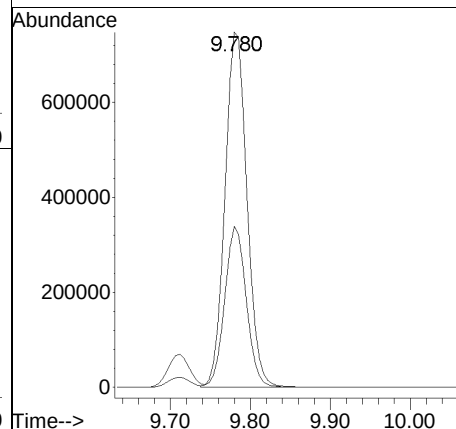


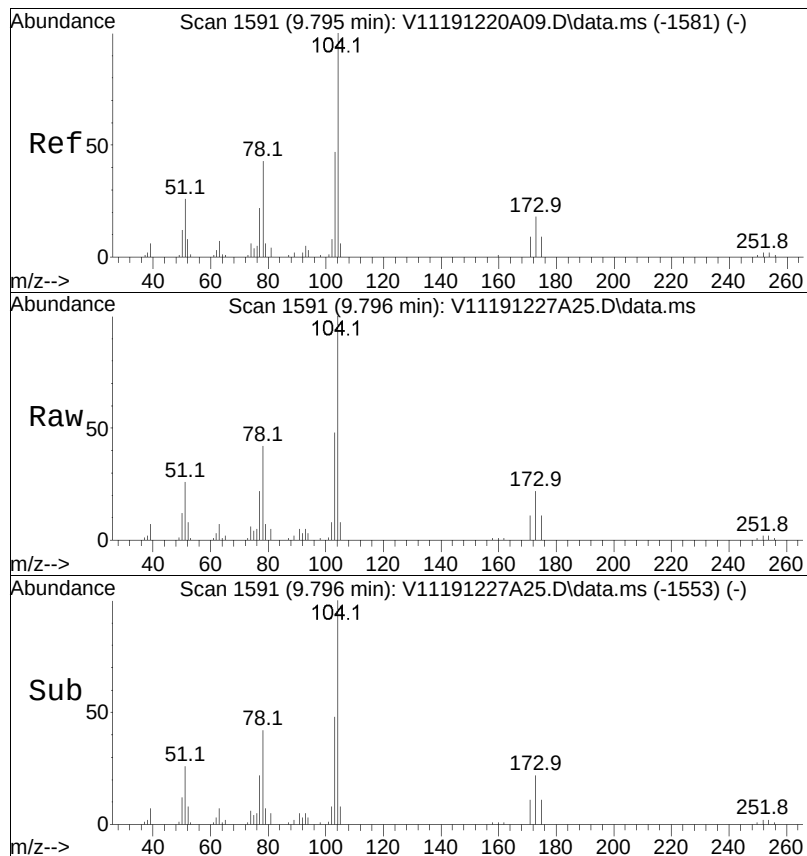




#78  
 Styrene  
 Concen: 138.49 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

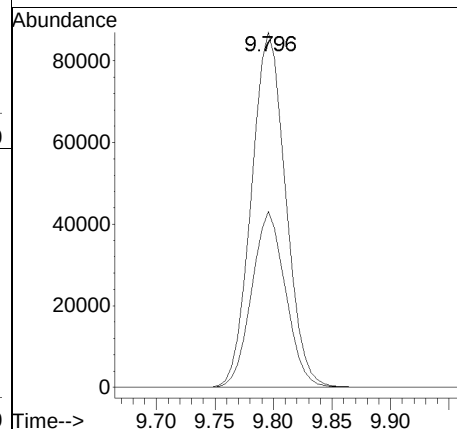
Tgt Ion:104 Resp: 1429644  
 Ion Ratio Lower Upper  
 104 100  
 78 44.4 34.4 51.6

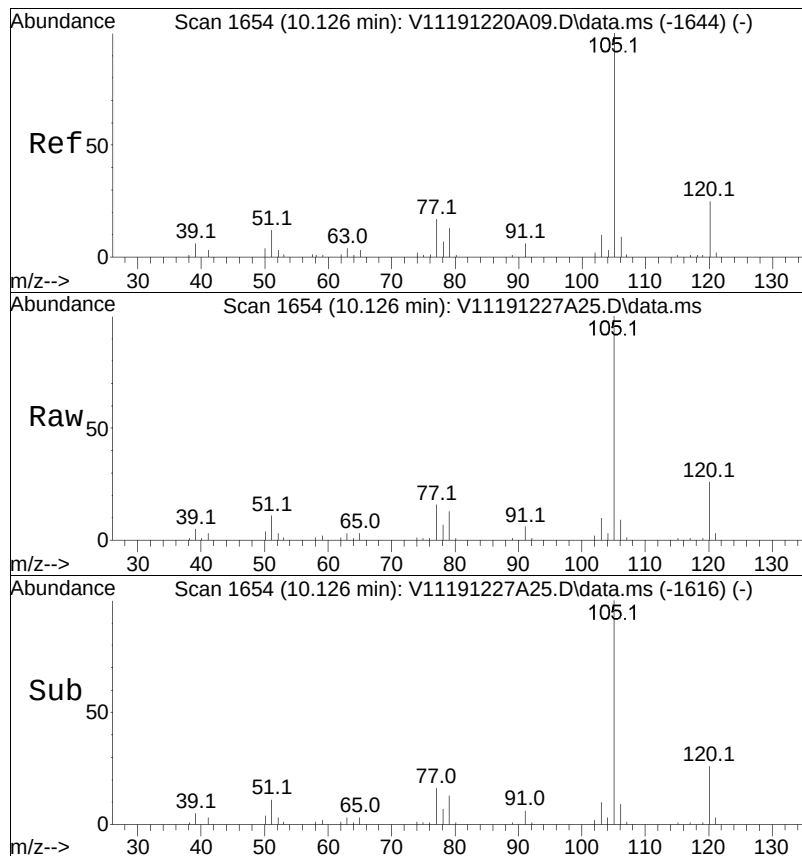




#80  
 Bromoform  
 Concen: 74.07 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

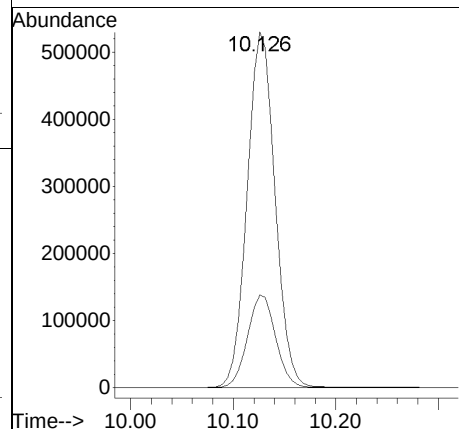
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.9  | 28.1  | 68.1  |

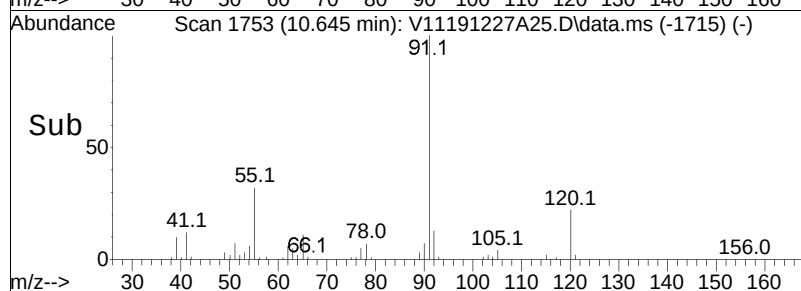
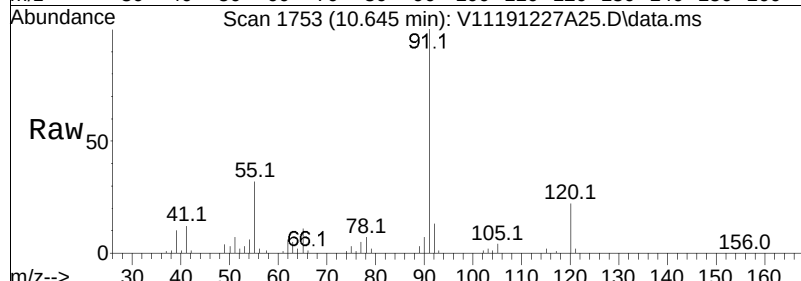
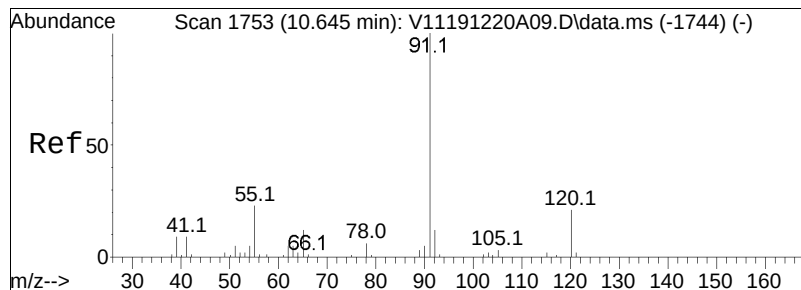




#82  
 Isopropylbenzene  
 Concen: 60.78 ug/L  
 RT: 10.126 min Scan# 1654  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

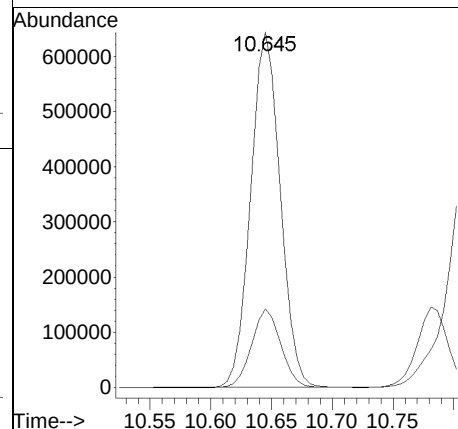
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.2  | 6.9   | 46.9  |

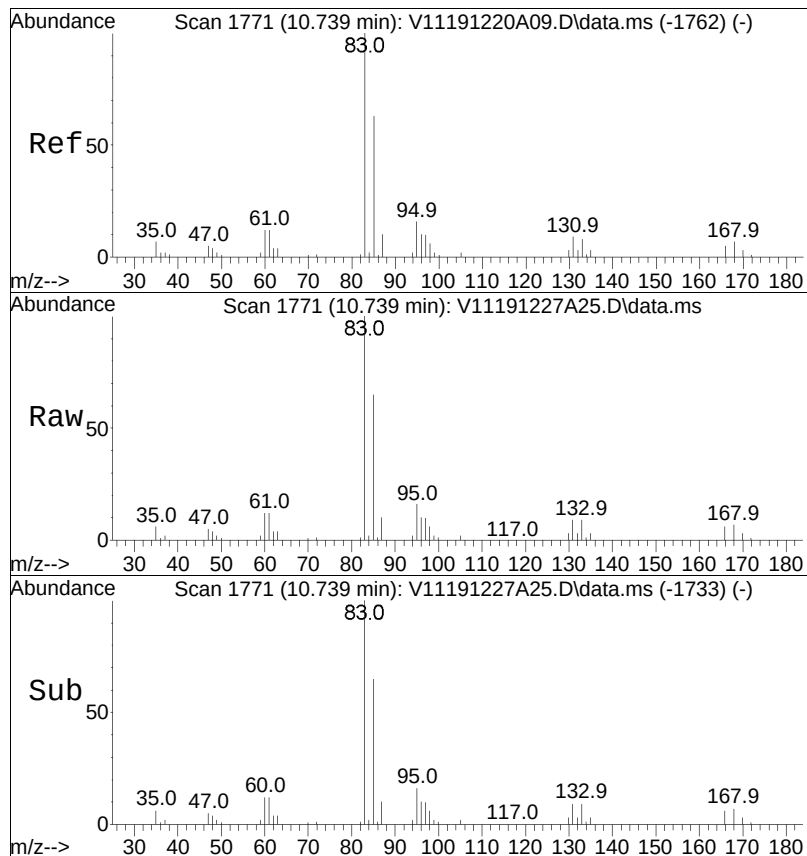




#85  
 n-Propylbenzene  
 Concen: 50.98 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

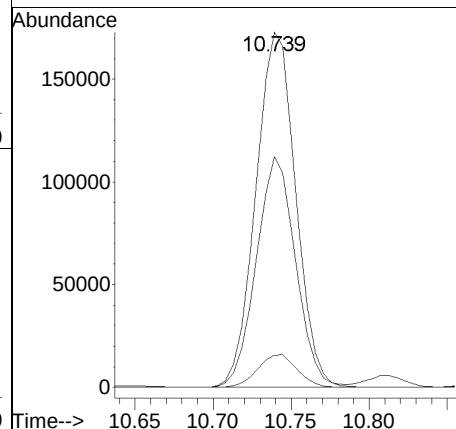
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 120     | 21.8  | 18.6  | 27.8  |

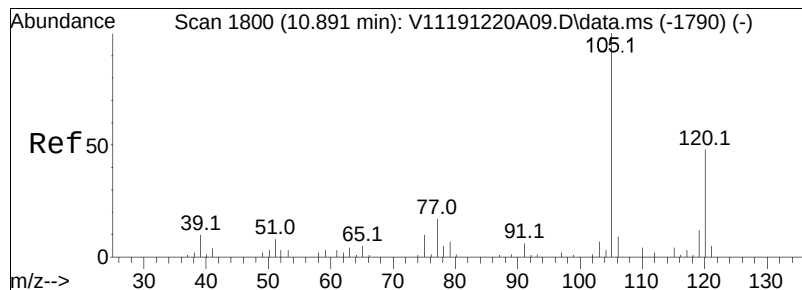




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 67.06 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.2   | 0.0   | 30.1  |
| 85      | 64.2  | 45.8  | 85.8  |





#90

1,3,5-Trimethylbenzene

Concen: 53.90 ug/L

RT: 10.891 min Scan# 1800

Delta R.T. 0.000 min

Lab File: V11191227A25.D

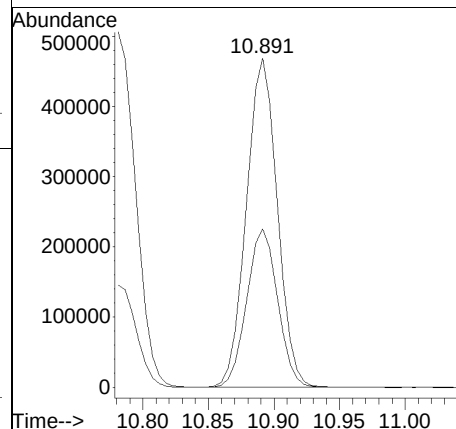
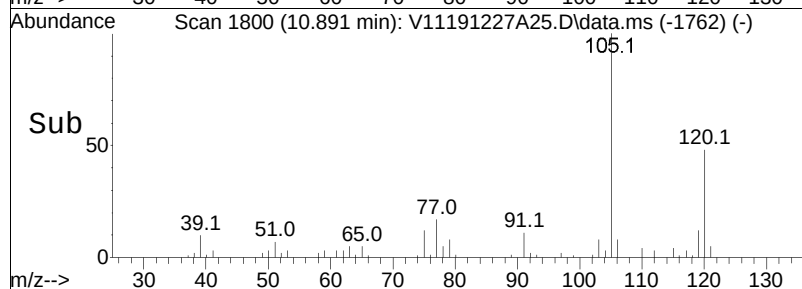
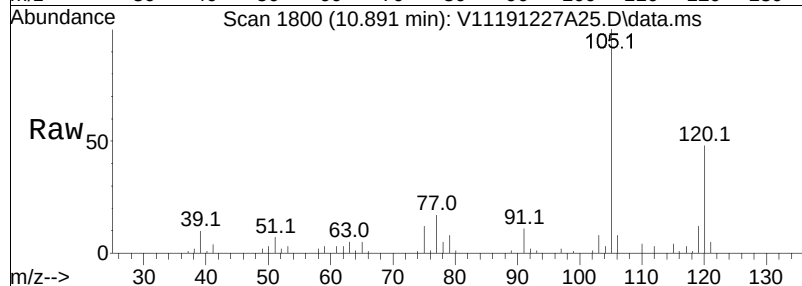
Acq: 27 Dec 2019 03:25 pm

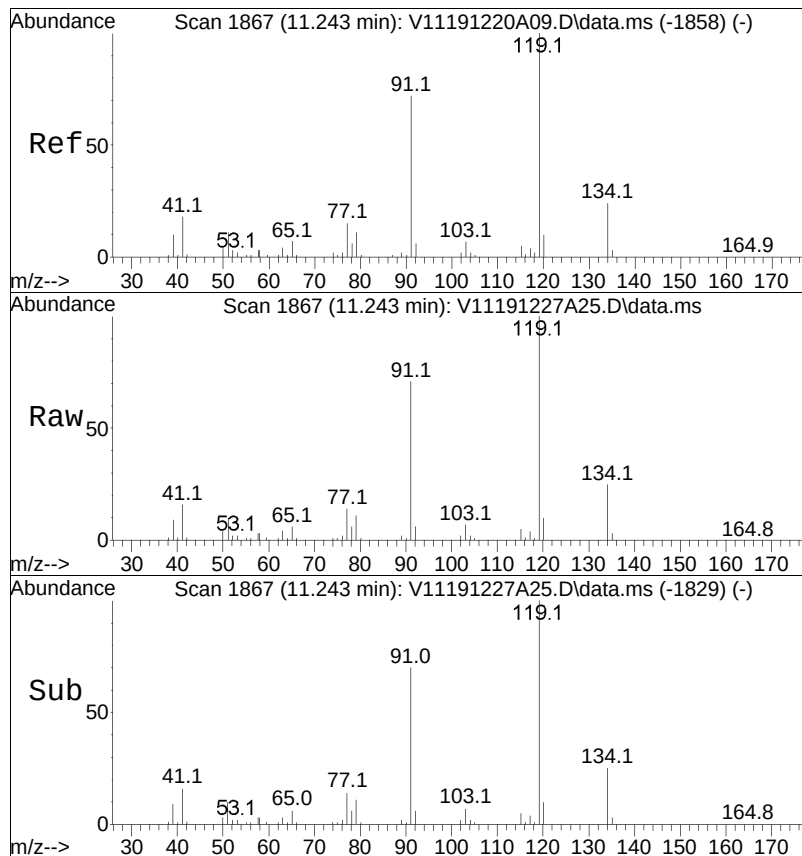
Tgt Ion:105 Resp: 768296

Ion Ratio Lower Upper

105 100

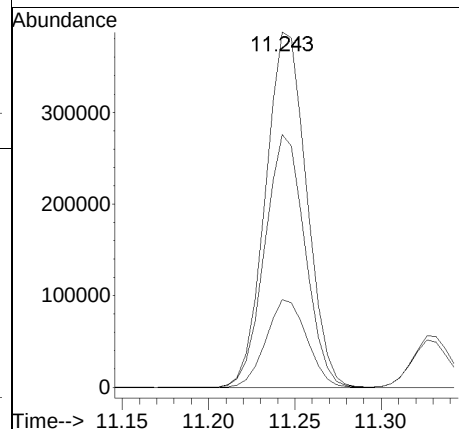
120 48.2 39.8 59.8

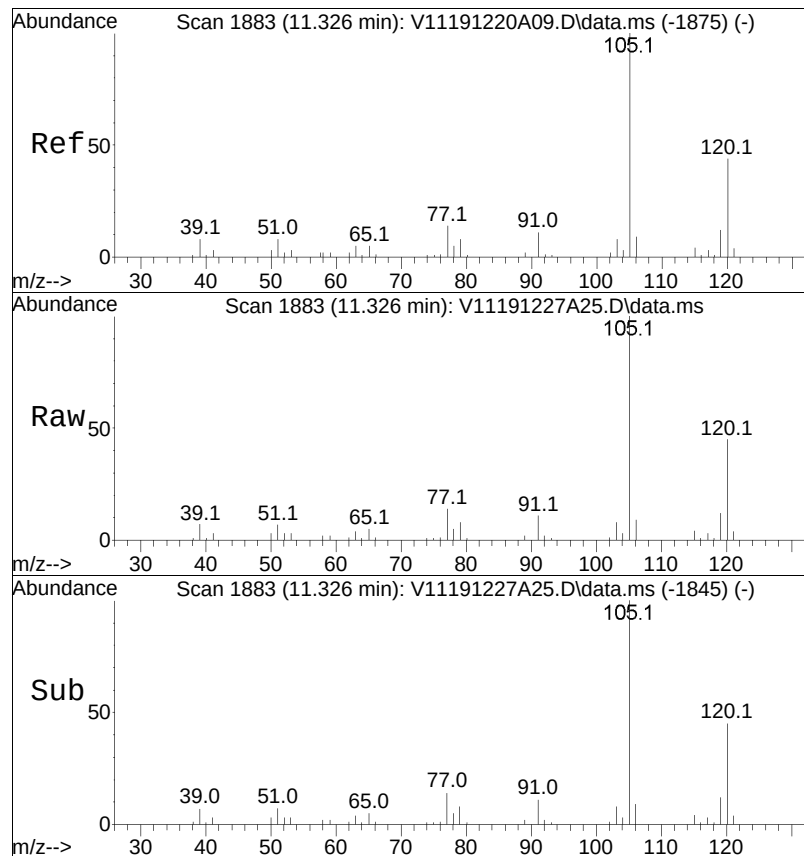




#94  
 tert-Butylbenzene  
 Concen: 56.07 ug/L  
 RT: 11.243 min Scan# 1867  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

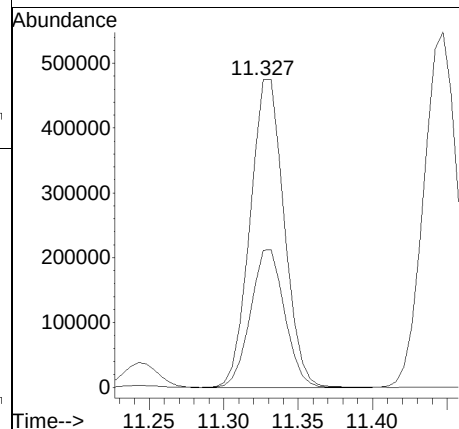
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 69.8  | 53.0  | 79.4  |
| 134     | 24.6  | 19.8  | 29.6  |



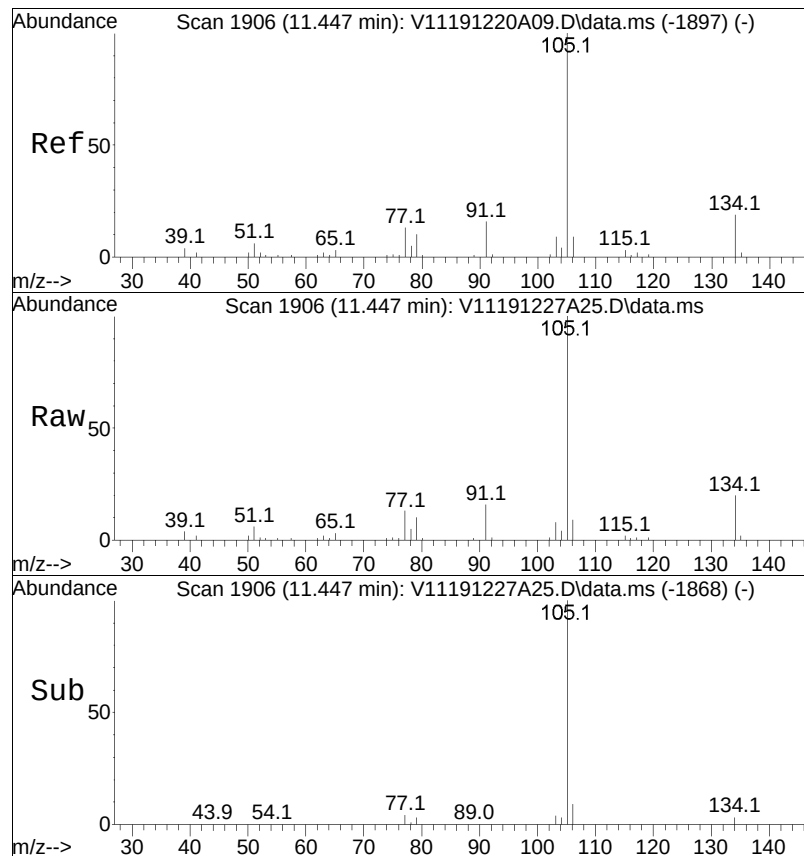


#97  
 1,2,4-Trimethylbenzene  
 Concen: 53.92 ug/L  
 RT: 11.326 min Scan# 1883  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

| Tgt Ion | 105    | 120 | Ratio | Lower | Upper |
|---------|--------|-----|-------|-------|-------|
| Resp    | 754098 |     |       |       |       |
| Ion     | 100    |     |       |       |       |
| Ratio   | 44.9   |     |       |       |       |
| Lower   | 37.4   |     |       |       |       |
| Upper   | 56.0   |     |       |       |       |

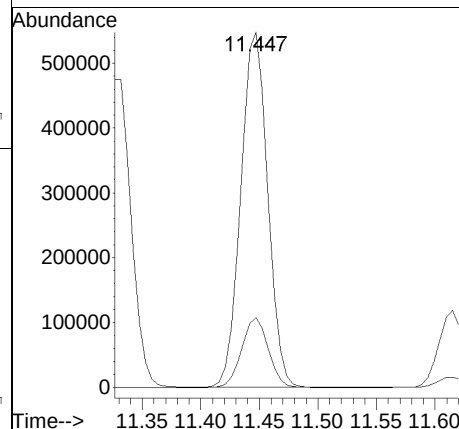


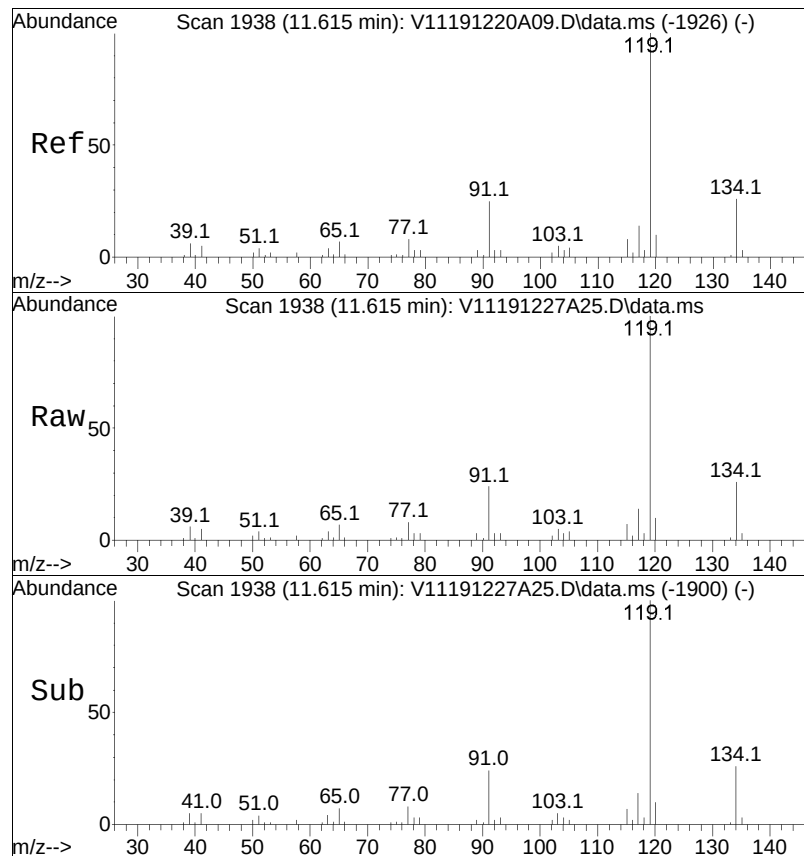




#98  
 sec-Butylbenzene  
 Concen: 49.00 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

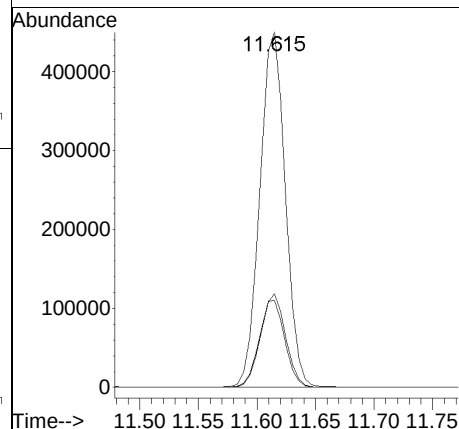
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 134 | 19.3 | 13.2  | 27.4  |       |

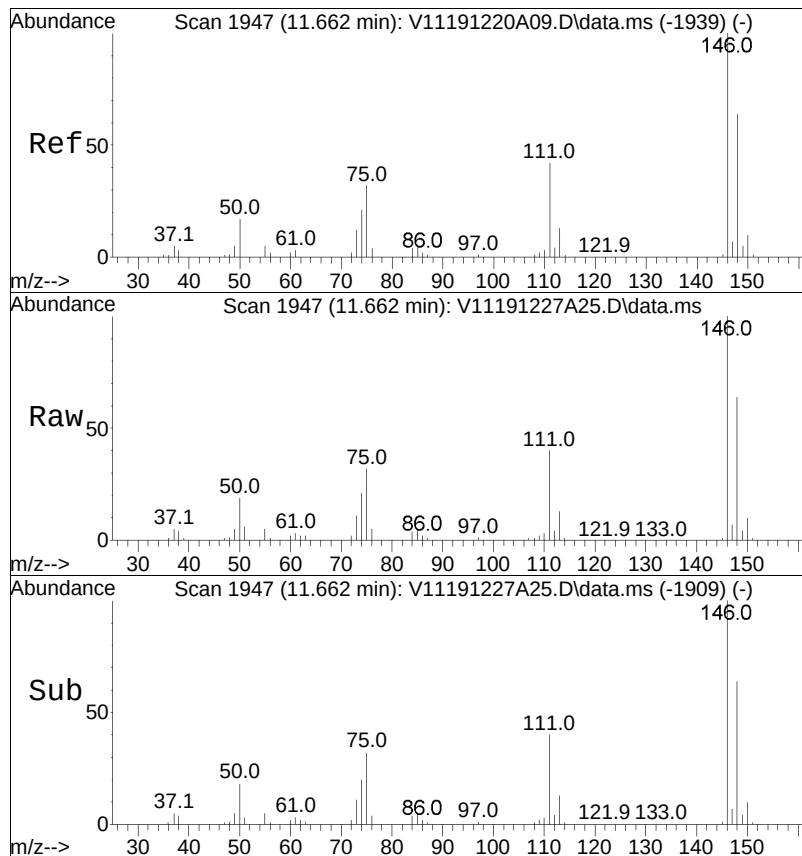




#99  
 p-Isopropyltoluene  
 Concen: 47.76 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

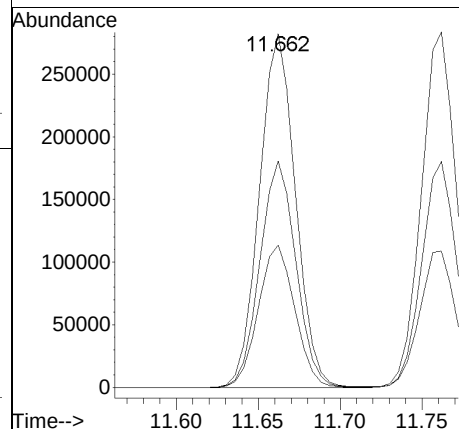
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 119 | 100  |       | 682544 |       |       |
| 134 | 25.8 | 17.1  |        | 35.5  |       |
| 91  | 24.7 | 15.3  |        | 31.9  |       |

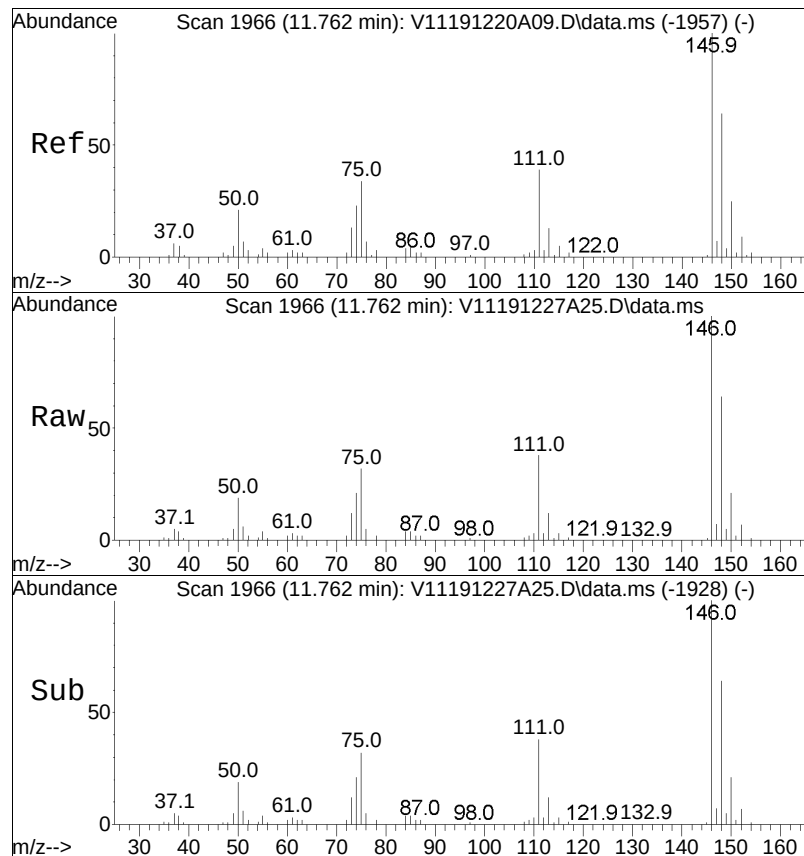




#100  
 1,3-Dichlorobenzene  
 Concen: 49.77 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

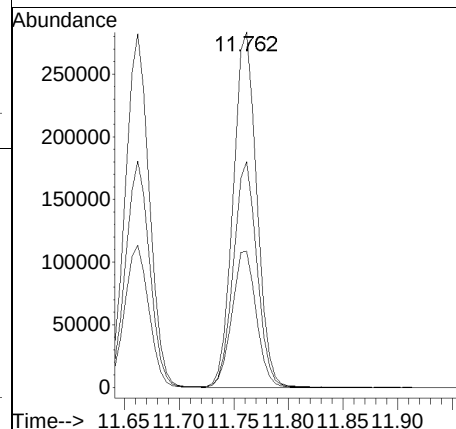
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.8  | 25.6  | 53.2  |
| 148     | 64.1  | 41.3  | 85.9  |

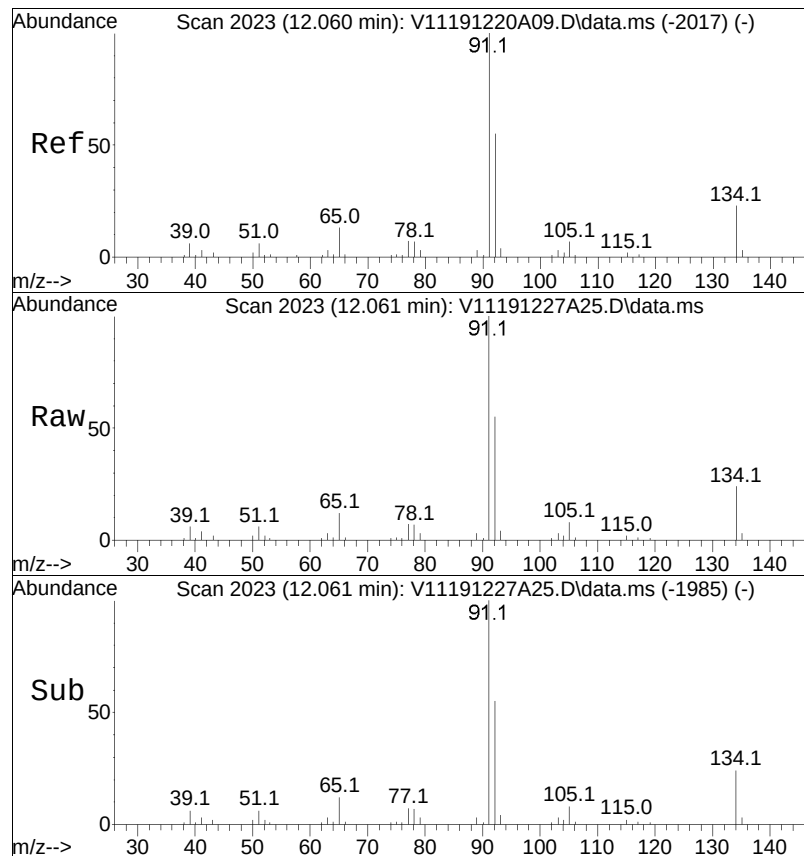




#101  
 1,4-Dichlorobenzene  
 Concen: 48.42 ug/L  
 RT: 11.762 min Scan# 1966  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

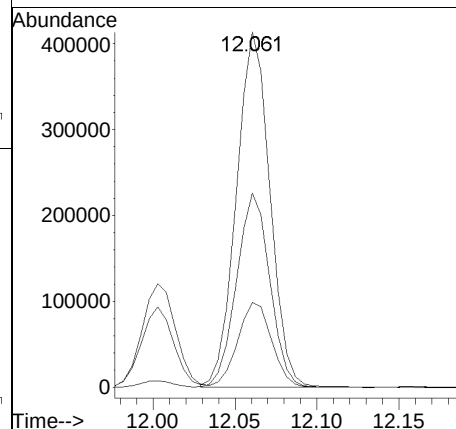
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.5  | 31.4  | 47.0  |
| 148     | 63.1  | 50.7  | 76.1  |

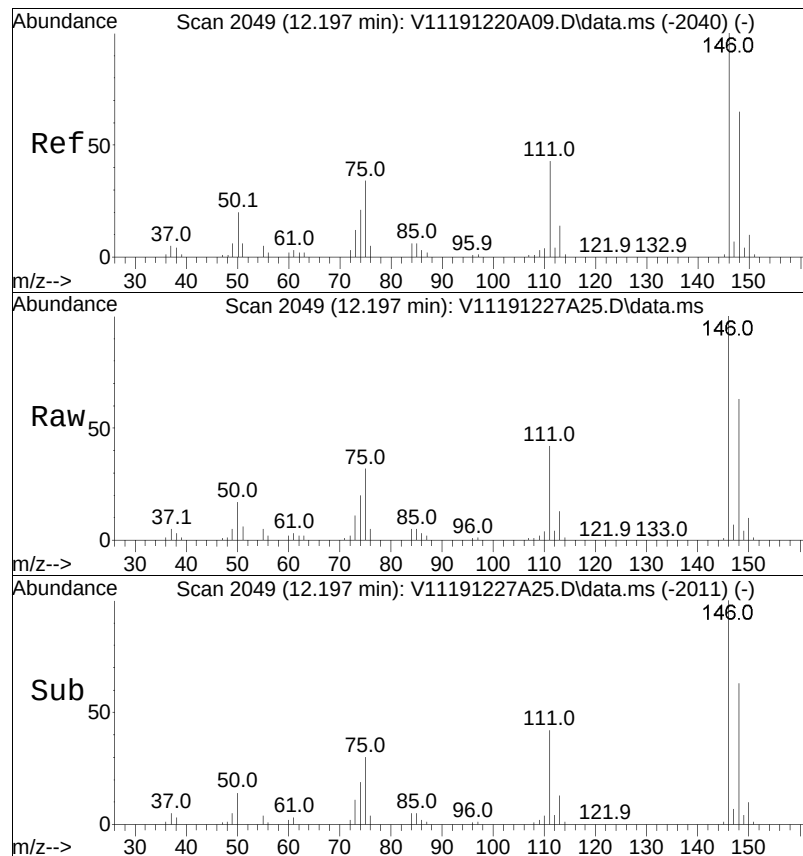




#103  
 n-Butylbenzene  
 Concen: 39.21 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

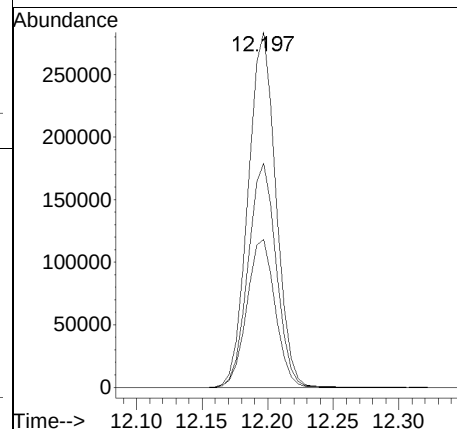
| Tgt Ion:  | 91    | Resp: | 586802 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.6  | 43.3  | 64.9   |
| 134       | 24.4  | 21.4  | 32.0   |

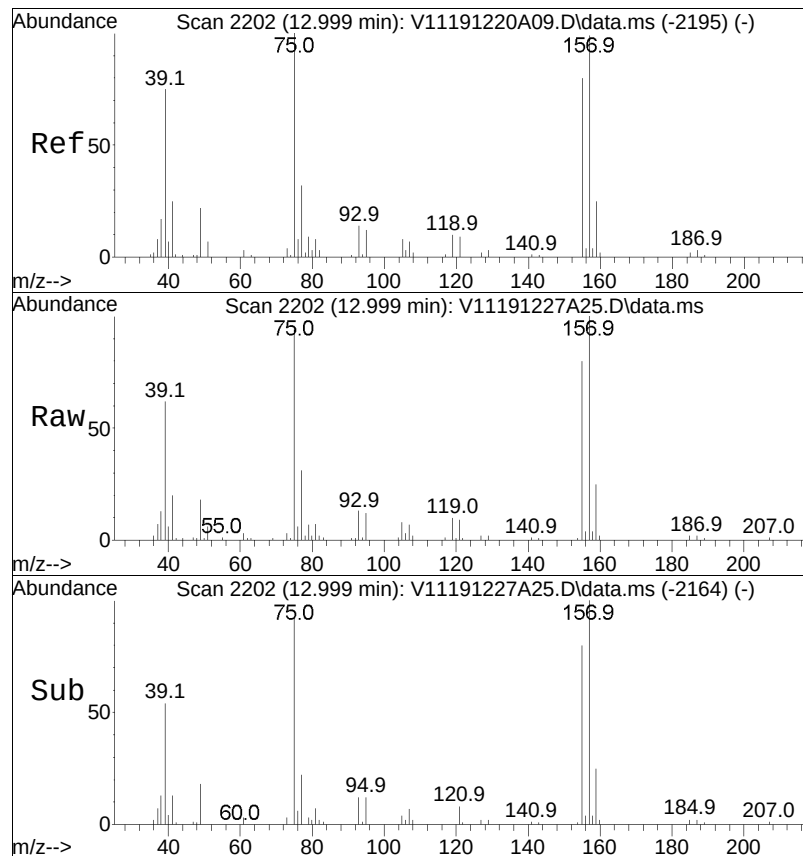




#104  
 1,2-Dichlorobenzene  
 Concen: 52.92 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

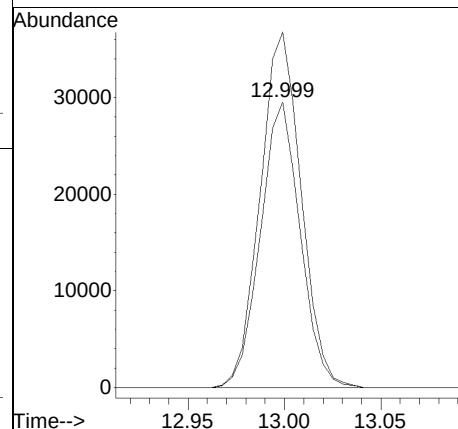
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.5  | 26.9  | 55.9  |
| 148     | 63.6  | 41.2  | 85.6  |

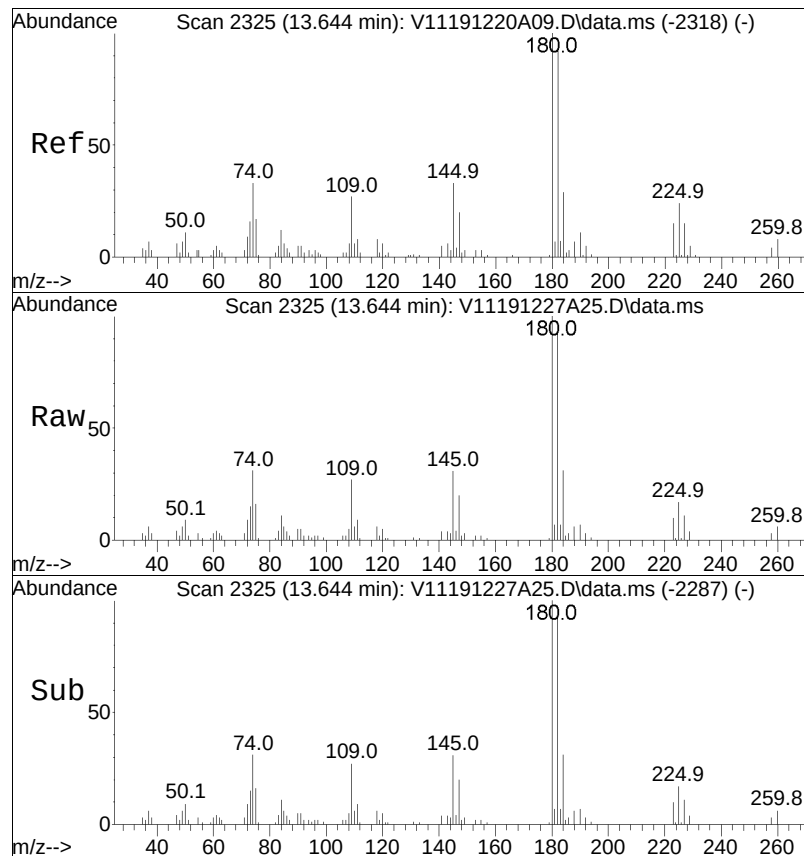




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 74.36 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

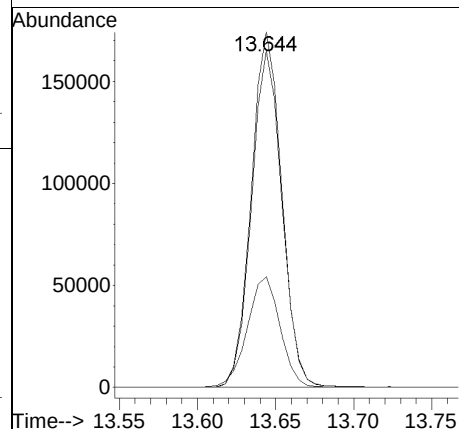
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 155     | 100   |       |       |
| 157     | 128.5 | 100.0 | 150.0 |



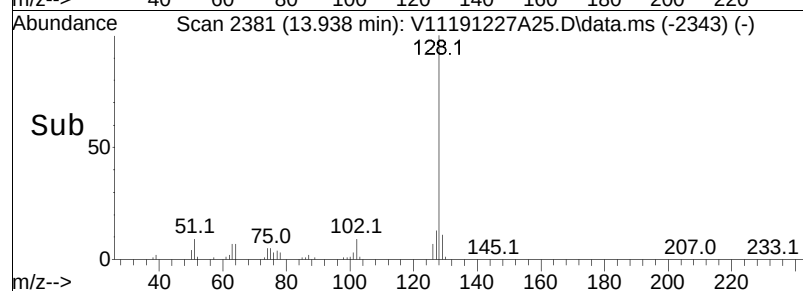
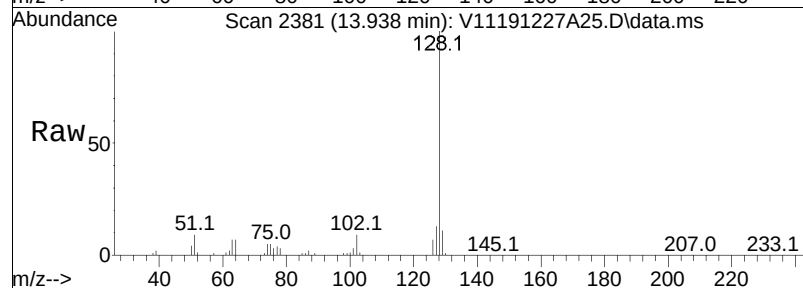
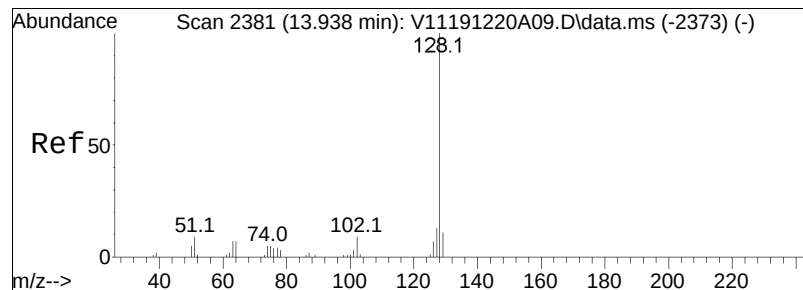


#109  
 1,2,4-Trichlorobenzene  
 Concen: 46.81 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. -0.000 min  
 Lab File: V11191227A25.D  
 Acq: 27 Dec 2019 03:25 pm

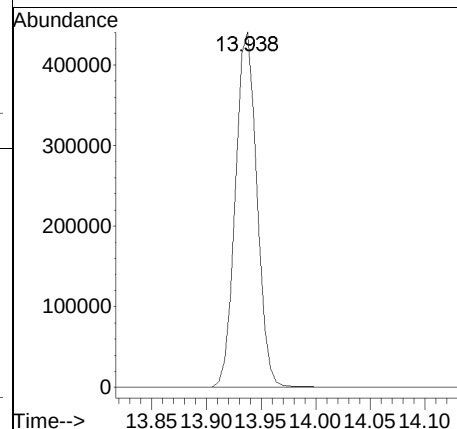
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 237180 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.5  | 75.8  | 113.6  |
| 145       | 33.6  | 29.6  | 44.4   |







#110  
Naphthalene  
Concen: 60.85 ug/L  
RT: 13.938 min Scan# 2381  
Delta R.T. -0.000 min  
Lab File: V11191227A25.D  
Acq: 27 Dec 2019 03:25 pm  
Tgt Ion:128 Resp: 605397



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A25.D Operator : VOA111:JC  
Date Inj'd : 12/27/2019 3:25 pm Instrument : VOA111  
Sample : WG1325768-6,31,7.99,5,,b1 Quant Date : 12/30/2019 9:39 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A26.D  
 Acq On : 27 Dec 2019 03:50 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-7,31,8.16,5,,b2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 30 09:39:09 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

| Compound                     | R.T.           | QIon | Response | Conc    | Units   | Dev(Min) |
|------------------------------|----------------|------|----------|---------|---------|----------|
| -----                        |                |      |          |         |         |          |
| Internal Standards           |                |      |          |         |         |          |
| 1) Fluorobenzene             | 5.454          | 96   | 282748   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 272895     |                |      | Recovery | =       | 103.61% |          |
| 59) Chlorobenzene-d5         | 8.915          | 117  | 257032   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 221514     |                |      | Recovery | =       | 116.03% |          |
| 79) 1,4-Dichlorobenzene-d4   | 11.746         | 152  | 131767   | 20.000  | ug/L    | 0.00     |
| Standard Area 1 = 120351     |                |      | Recovery | =       | 109.49% |          |
| System Monitoring Compounds  |                |      |          |         |         |          |
| 36) Dibromofluoromethane     | 4.678          | 113  | 79058    | 21.005  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 105.02% |          |
| 43) 1,2-Dichloroethane-d4    | 5.182          | 65   | 80299    | 19.966  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 99.83%  |          |
| 60) Toluene-d8               | 7.106          | 98   | 333629   | 18.614  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 93.07%  |          |
| 83) 4-Bromofluorobenzene     | 10.467         | 95   | 138830   | 20.426  | ug/L    | 0.00     |
| Spiked Amount 20.000         | Range 70 - 130 |      | Recovery | =       | 102.13% |          |
| Target Compounds             |                |      |          |         |         |          |
|                              |                |      |          |         |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.485          | 85   | 331956   | 101.104 | ug/L    | 97       |
| 3) Chloromethane             | 1.653          | 50   | 405692   | 89.124  | ug/L    | 98       |
| 4) Vinyl chloride            | 1.695          | 62   | 429246   | 103.184 | ug/L    | 98       |
| 5) Bromomethane              | 1.957          | 94   | 242975   | 108.691 | ug/L    | 99       |
| 6) Chloroethane              | 2.057          | 64   | 244829   | 100.381 | ug/L    | 97       |
| 7) Trichlorofluoromethane    | 2.177          | 101  | 446914   | 90.507  | ug/L    | 99       |
| 10) 1,1-Dichloroethene       | 2.602          | 96   | 296492   | 102.955 | ug/L    | 90       |
| 11) Carbon disulfide         | 2.628          | 76   | 978069   | 82.677  | ug/L    | 100      |
| 12) Freon-113                | 2.639          | 101  | 312154   | 103.362 | ug/L    | 96       |
| 15) Methylene chloride       | 3.100          | 84   | 349323   | 86.404  | ug/L    | 73       |
| 17) Acetone                  | 3.132          | 43   | 83524    | 91.058  | ug/L    | 91       |
| 18) trans-1,2-Dichloroethene | 3.236          | 96   | 331082   | 99.159  | ug/L    | 92       |
| 19) Methyl acetate           | 3.242          | 43   | 350137   | 142.994 | ug/L    | # 91     |
| 20) Methyl tert-butyl ether  | 3.326          | 73   | 920905   | 99.677  | ug/L    | 86       |
| 23) 1,1-Dichloroethane       | 3.771          | 63   | 690034   | 97.915  | ug/L    | 97       |
| 28) cis-1,2-Dichloroethene   | 4.259          | 96   | 363854   | 98.927  | ug/L    | 90       |
| 31) Cyclohexane              | 4.442          | 56   | 622684   | 108.510 | ug/L    | 79       |
| 32) Chloroform               | 4.511          | 83   | 587421   | 89.973  | ug/L    | 95       |
| 34) Carbon tetrachloride     | 4.636          | 117  | 461453   | 103.572 | ug/L    | 98       |
| 37) 1,1,1-Trichloroethane    | 4.699          | 97   | 536888   | 102.030 | ug/L    | 98       |

## Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A26.D  
 Acq On : 27 Dec 2019 03:50 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-7,31,8.16,5,,b2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 30 09:39:09 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |     |
|------|---------------------------|--------|------|----------|---------|-------|----------|-----|
| 39)  | 2-Butanone                | 4.788  | 43   | 124424   | 88.295  | ug/L  | #        | 74  |
| 41)  | Benzene                   | 5.051  | 78   | 1387735  | 95.835  | ug/L  |          | 91  |
| 44)  | 1,2-Dichloroethane        | 5.245  | 62   | 436854   | 88.027  | ug/L  |          | 98  |
| 47)  | Methyl cyclohexane        | 5.617  | 83   | 538695   | 99.871  | ug/L  | #        | 76  |
| 48)  | Trichloroethene           | 5.627  | 95   | 342978   | 97.841  | ug/L  |          | 94  |
| 51)  | 1,2-Dichloropropane       | 6.146  | 63   | 382348   | 95.736  | ug/L  |          | 98  |
| 54)  | Bromodichloromethane      | 6.225  | 83   | 458374   | 89.537  | ug/L  |          | 99  |
| 58)  | cis-1,3-Dichloropropene   | 6.901  | 75   | 553006   | 95.307  | ug/L  | #        | 87  |
| 61)  | Toluene                   | 7.164  | 92   | 811351   | 77.969  | ug/L  |          | 98  |
| 62)  | 4-Methyl-2-pentanone      | 7.593  | 58   | 107926   | 81.446  | ug/L  | #        | 80  |
| 63)  | Tetrachloroethene         | 7.599  | 166  | 309264   | 79.459  | ug/L  |          | 99  |
| 65)  | trans-1,3-Dichloropropene | 7.641  | 75   | 463161   | 74.498  | ug/L  | #        | 81  |
| 68)  | 1,1,2-Trichloroethane     | 7.819  | 83   | 234847   | 75.430  | ug/L  |          | 97  |
| 69)  | Chlorodibromomethane      | 8.023  | 129  | 310938   | 77.279  | ug/L  |          | 99  |
| 71)  | 1,2-Dibromoethane         | 8.286  | 107  | 248636   | 75.740  | ug/L  |          | 98  |
| 72)  | 2-Hexanone                | 8.590  | 43   | 164265   | 70.145  | ug/L  |          | 92  |
| 73)  | Chlorobenzene             | 8.936  | 112  | 788384   | 69.842  | ug/L  |          | 95  |
| 74)  | Ethylbenzene              | 8.983  | 91   | 1401622  | 74.894  | ug/L  |          | 99  |
| 76)  | p/m Xylene                | 9.172  | 106  | 1011983  | 150.892 | ug/L  |          | 95  |
| 77)  | o Xylene                  | 9.712  | 106  | 993295   | 153.344 | ug/L  |          | 95  |
| 78)  | Styrene                   | 9.780  | 104  | 1563993  | 144.237 | ug/L  |          | 97  |
| 80)  | Bromoform                 | 9.796  | 173  | 178728   | 73.029  | ug/L  |          | 100 |
| 82)  | Isopropylbenzene          | 10.126 | 105  | 1237627  | 73.523  | ug/L  |          | 98  |
| 85)  | n-Propylbenzene           | 10.645 | 91   | 1412451  | 64.786  | ug/L  |          | 97  |
| 87)  | 1,1,2,2-Tetrachloroethane | 10.739 | 83   | 310404   | 66.380  | ug/L  |          | 97  |
| 90)  | 1,3,5-Trimethylbenzene    | 10.891 | 105  | 938787   | 64.384  | ug/L  |          | 98  |
| 94)  | tert-Butylbenzene         | 11.248 | 119  | 807527   | 68.959  | ug/L  |          | 96  |
| 97)  | 1,2,4-Trimethylbenzene    | 11.327 | 105  | 882396   | 61.673  | ug/L  |          | 98  |
| 98)  | sec-Butylbenzene          | 11.447 | 105  | 1162855  | 63.707  | ug/L  |          | 98  |
| 99)  | p-Isopropyltoluene        | 11.615 | 119  | 927094   | 63.412  | ug/L  |          | 99  |
| 100) | 1,3-Dichlorobenzene       | 11.662 | 146  | 480912   | 54.298  | ug/L  |          | 99  |
| 101) | 1,4-Dichlorobenzene       | 11.762 | 146  | 472728   | 52.365  | ug/L  |          | 99  |
| 103) | n-Butylbenzene            | 12.061 | 91   | 827734   | 54.067  | ug/L  |          | 98  |
| 104) | 1,2-Dichlorobenzene       | 12.197 | 146  | 441089   | 54.416  | ug/L  |          | 99  |
| 106) | 1,2-Dibromo-3-chloropr... | 12.999 | 155  | 41930    | 72.121  | ug/L  |          | 97  |
| 109) | 1,2,4-Trichlorobenzene    | 13.644 | 180  | 246594   | 47.571  | ug/L  |          | 98  |
| 110) | Naphthalene               | 13.938 | 128  | 492299   | 48.370  | ug/L  |          | 100 |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A26.D  
 Acq On : 27 Dec 2019 03:50 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-7,31,8.16,5,,b2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 30 09:39:09 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2019\191227A\V11191227A01.D  
 Sub List : 8260-CurveSoil - Megamix plus Diox

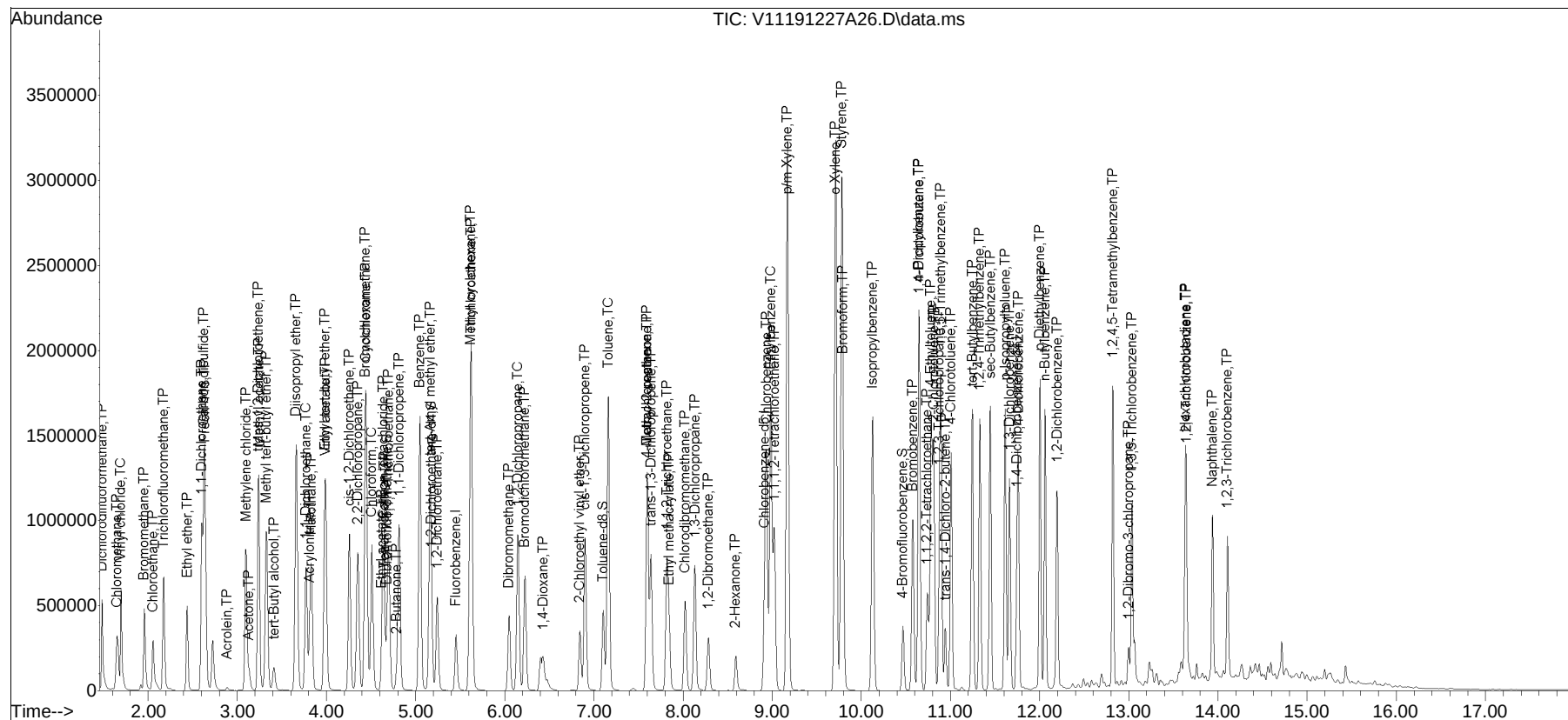
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |

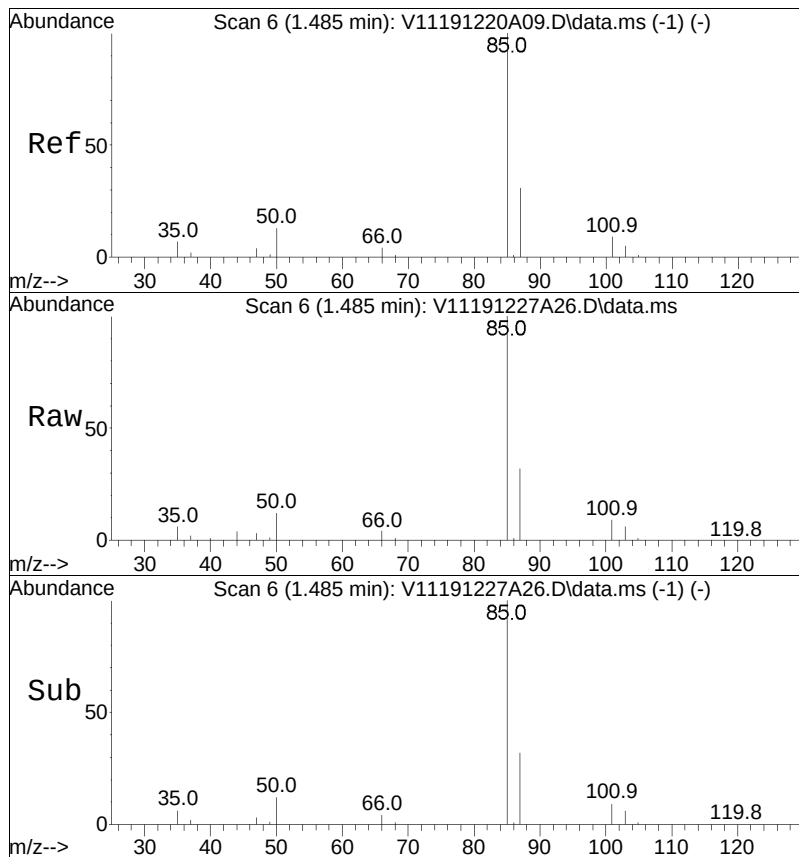
# Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2019\191227A\  
 Data File : V11191227A26.D  
 Acq On : 27 Dec 2019 03:50 pm  
 Operator : VOA111:JC  
 Sample : WG1325768-7,31,8.16,5,,b2  
 Misc : WG1325768,ICAL16383  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 30 09:39:09 2019  
 Quant Method : I:\VOLATILES\VOA111\2019\191227A\V111\_191220A\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Dec 20 14:19:02 2019  
 Response via : Initial Calibration

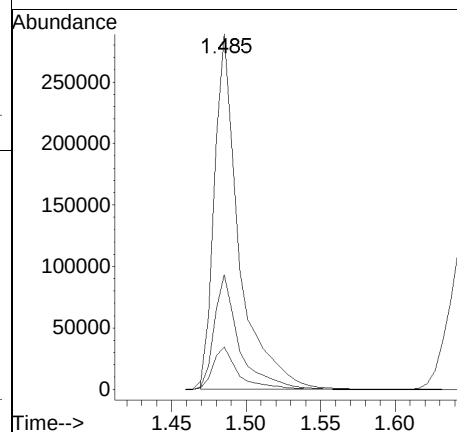
Sub List : 8260-CurveSoil - Megamix plus Diox7A\V11191227A01.D•

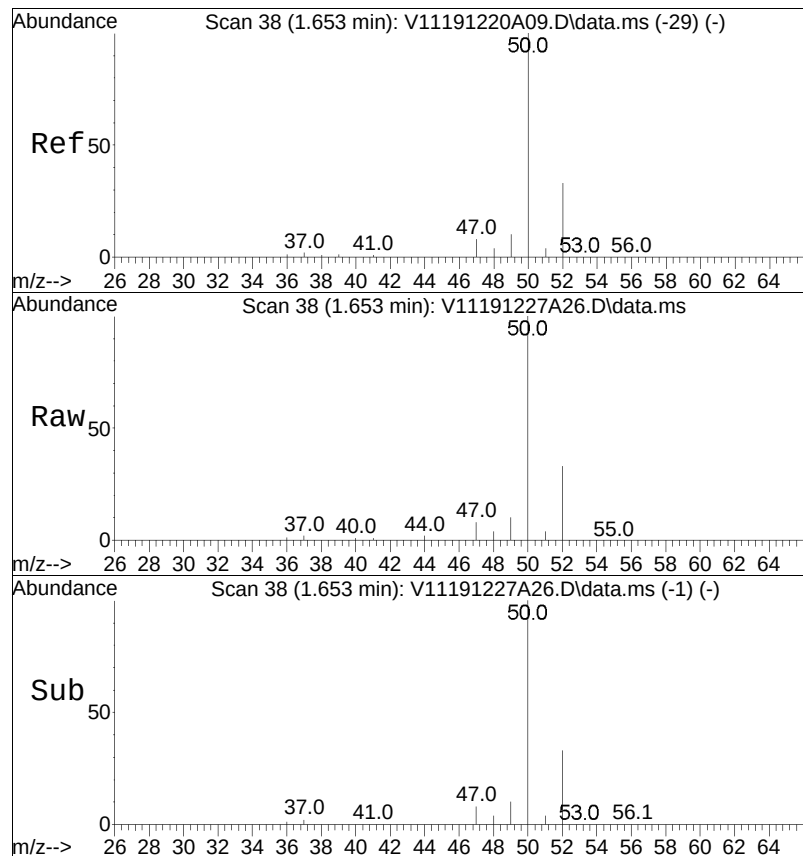




#2  
 Dichlorodifluoromethane  
 Concen: 101.10 ug/L  
 RT: 1.485 min Scan# 6  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

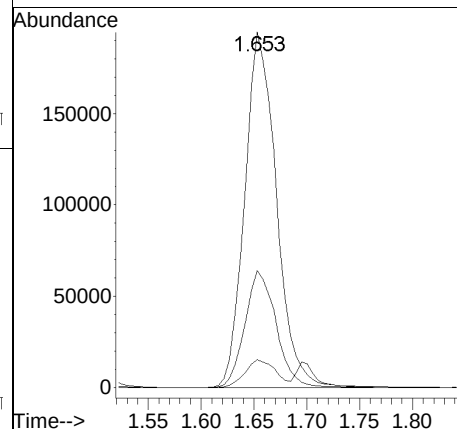
| Tgt Ion | 85  | 87   | 50   | Ratio | 100 | 32.6 | 20.7 | 9.8 | Resp | 331956 | Lower | Upper |
|---------|-----|------|------|-------|-----|------|------|-----|------|--------|-------|-------|
| 85      | 100 |      |      |       |     |      |      |     |      |        |       |       |
| 87      |     | 32.6 |      |       |     |      | 20.7 |     |      |        |       | 43.1  |
| 50      |     |      | 12.3 |       |     |      |      | 9.8 |      |        |       | 20.3  |



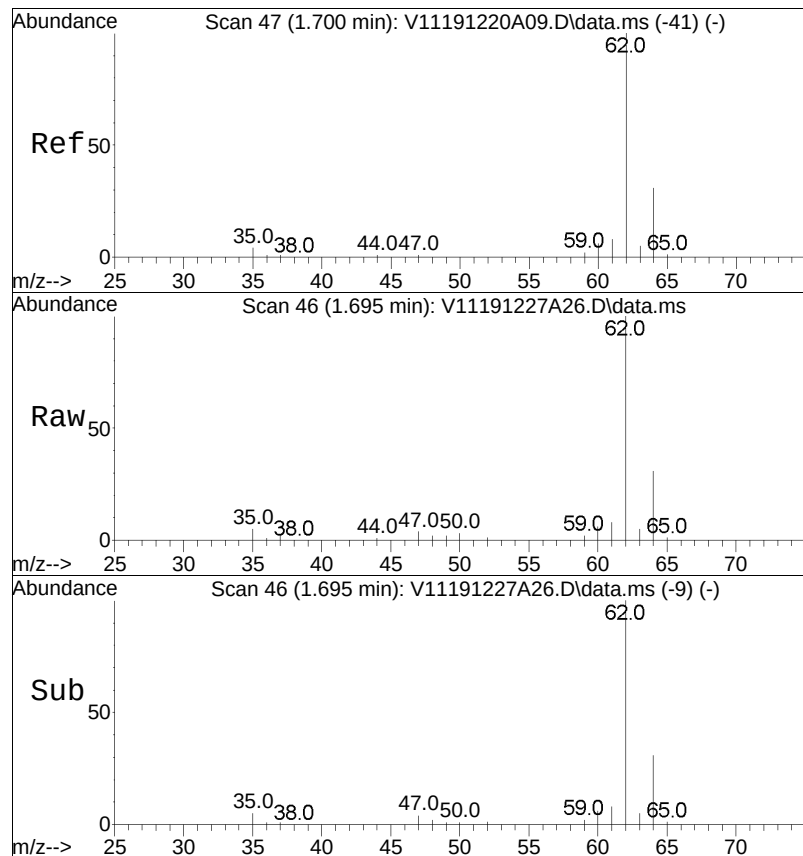


#3  
 Chloromethane  
 Concen: 89.12 ug/L  
 RT: 1.653 min Scan# 38  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 50 | Resp: | 405692 |
| Ion | Ratio   | Lower | Upper  |
| 50  | 100     |       |        |
| 52  | 32.4    | 10.9  | 50.9   |
| 47  | 7.6     | 0.0   | 27.2   |

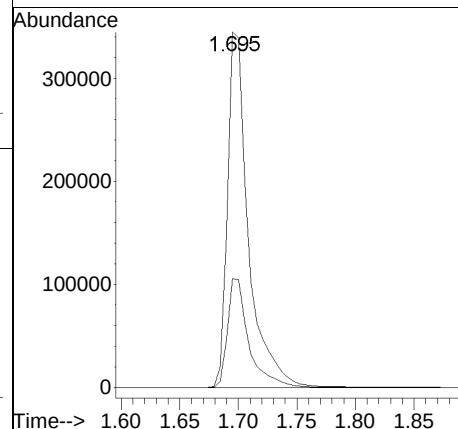


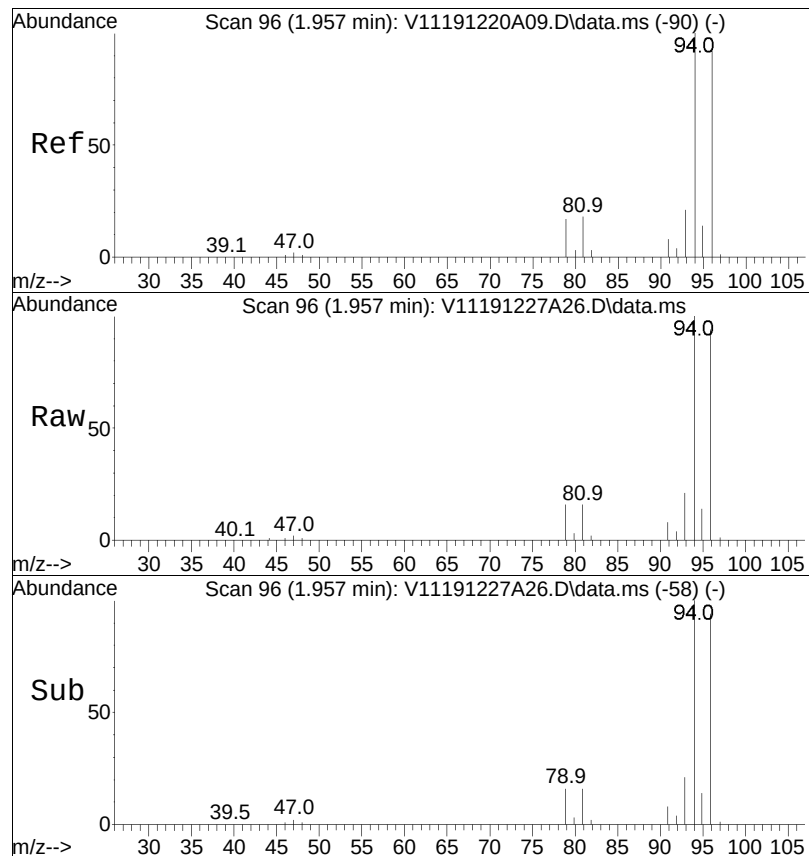




#4  
 Vinyl chloride  
 Concen: 103.18 ug/L  
 RT: 1.695 min Scan# 46  
 Delta R.T. -0.005 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

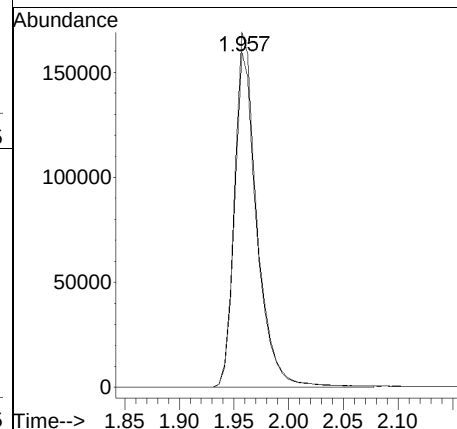
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 64      | 31.2  | 9.9   | 49.9  |

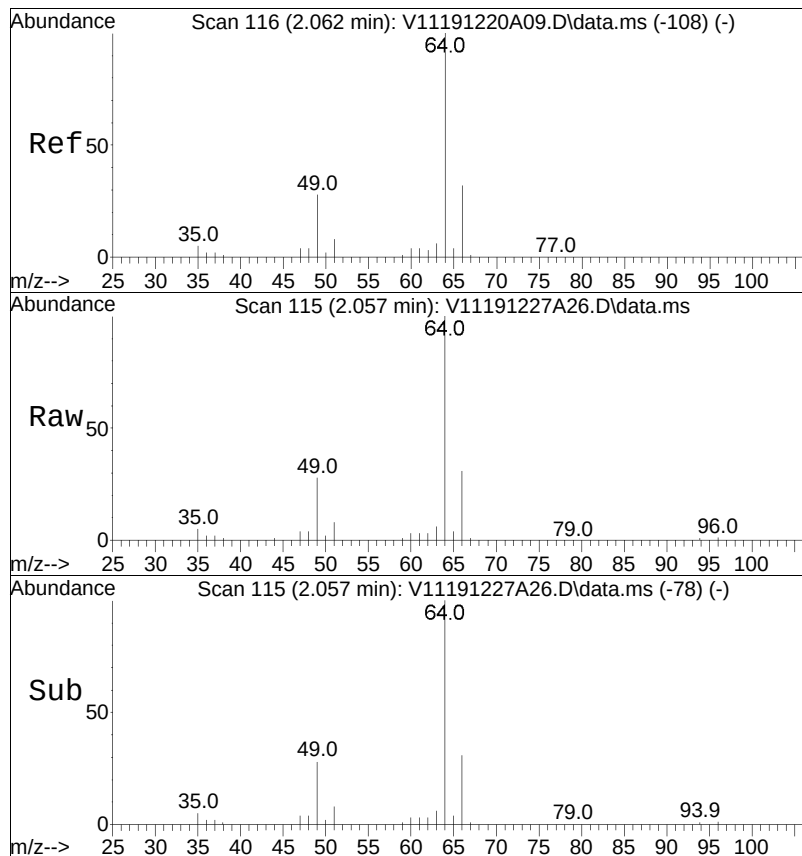




#5  
 Bromomethane  
 Concen: 108.69 ug/L  
 RT: 1.957 min Scan# 96  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

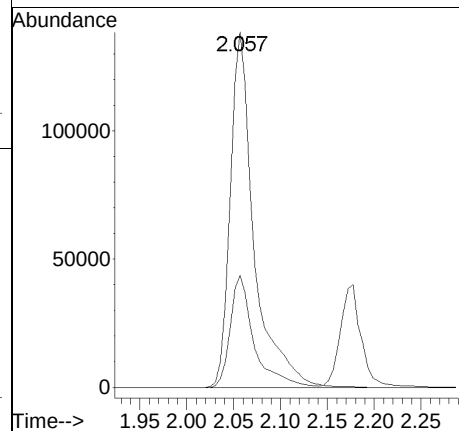
| Tgt | Ion  | Resp | Ratio | Lower | Upper |
|-----|------|------|-------|-------|-------|
| 94  | 100  |      |       |       |       |
| 96  | 93.7 | 72.6 | 112.6 |       |       |

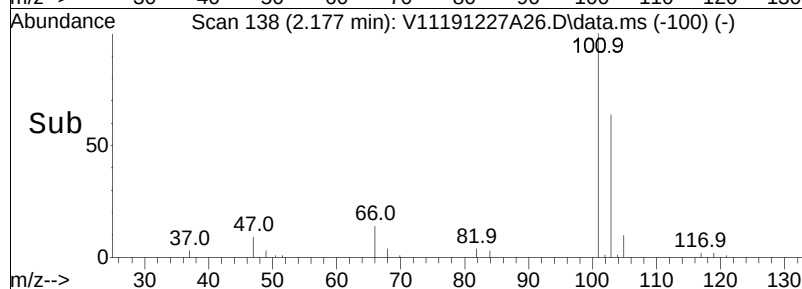
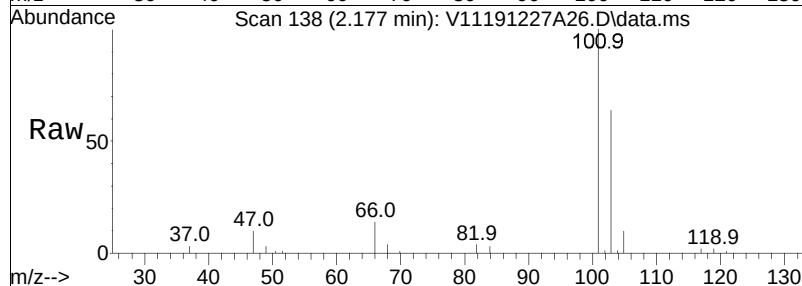
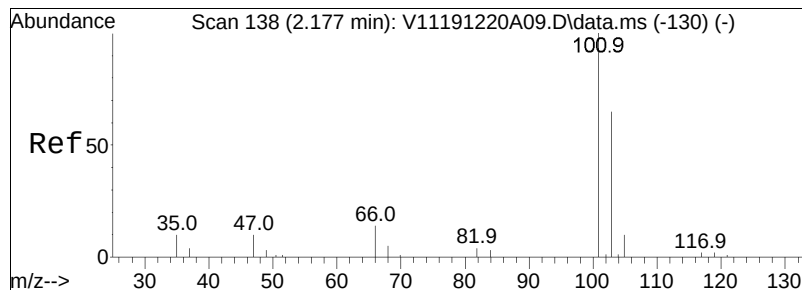




#6  
 Chloroethane  
 Concen: 100.38 ug/L  
 RT: 2.057 min Scan# 115  
 Delta R.T. -0.005 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 31.6  | 10.2  | 50.2  |





#7

Trichlorofluoromethane

Concen: 90.51 ug/L

RT: 2.177 min Scan# 138

Delta R.T. 0.000 min

Lab File: V11191227A26.D

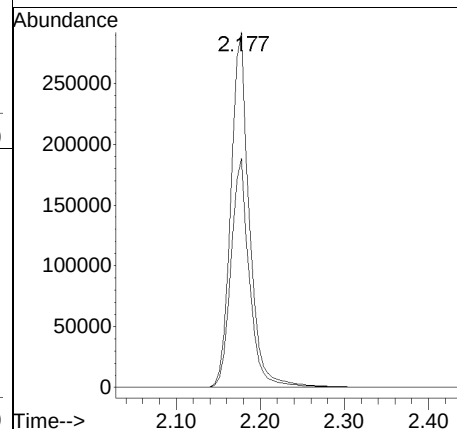
Acq: 27 Dec 2019 03:50 pm

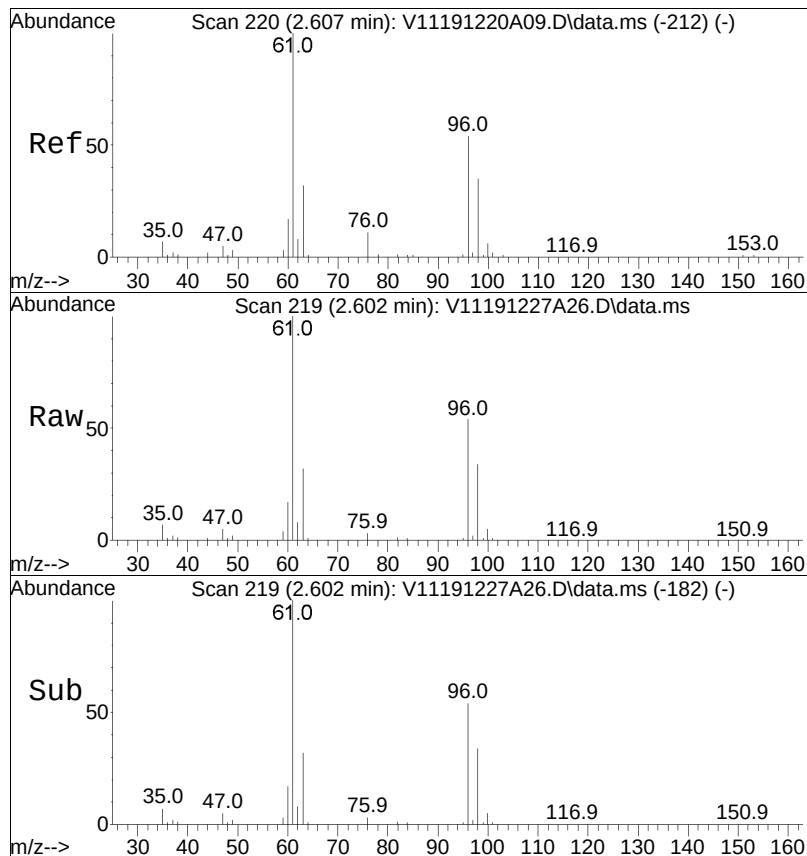
Tgt Ion:101 Resp: 446914

Ion Ratio Lower Upper

101 100

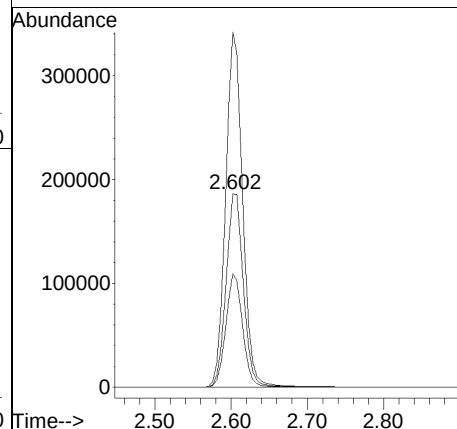
103 64.1 51.8 77.6

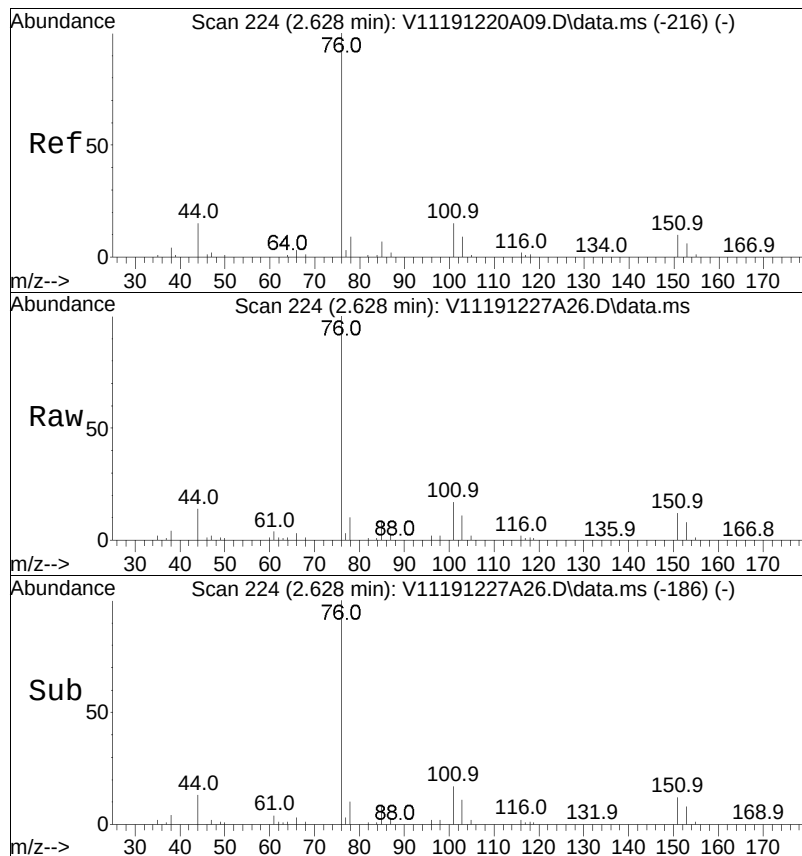




#10  
 1,1-Dichloroethene  
 Concen: 102.95 ug/L  
 RT: 2.602 min Scan# 219  
 Delta R.T. -0.005 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

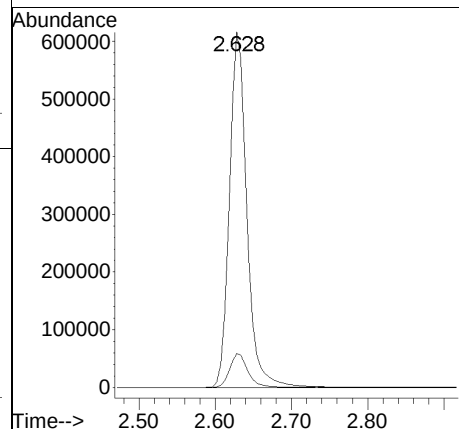
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 96 | Resp: | 296492 |
| Ion | Ratio   | Lower | Upper  |
| 96  | 100     |       |        |
| 61  | 179.0   | 157.7 | 236.5  |
| 63  | 56.9    | 47.9  | 71.9   |

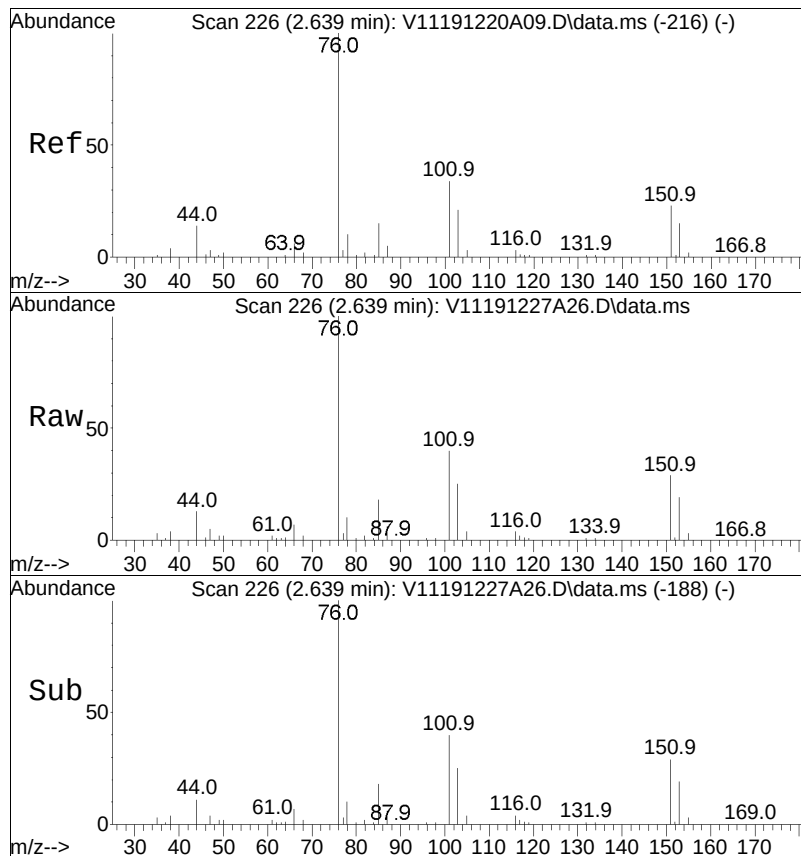




#11  
Carbon disulfide  
Concen: 82.68 ug/L  
RT: 2.628 min Scan# 224  
Delta R.T. 0.000 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

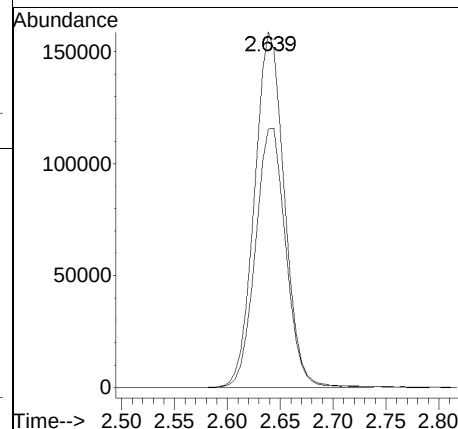
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.9   | 6.4   | 13.4  |

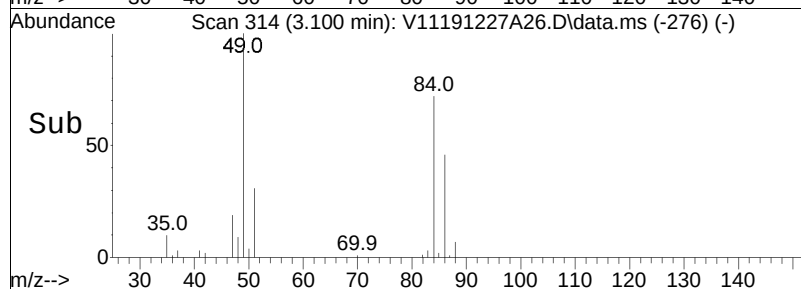
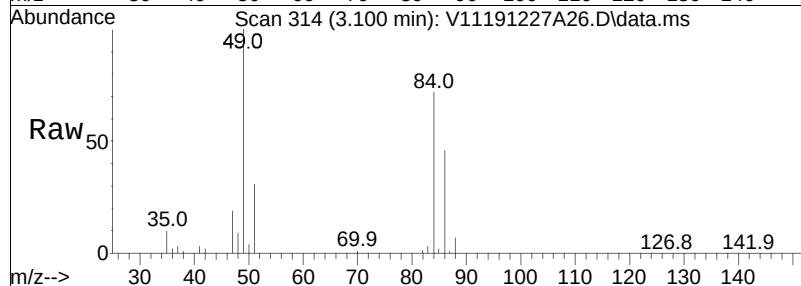
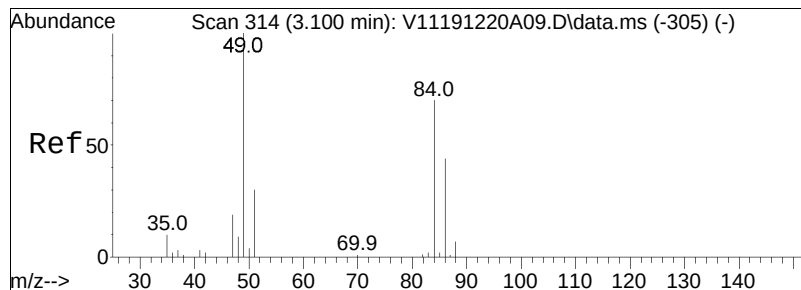




#12  
 Freon-113  
 Concen: 103.36 ug/L  
 RT: 2.639 min Scan# 226  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

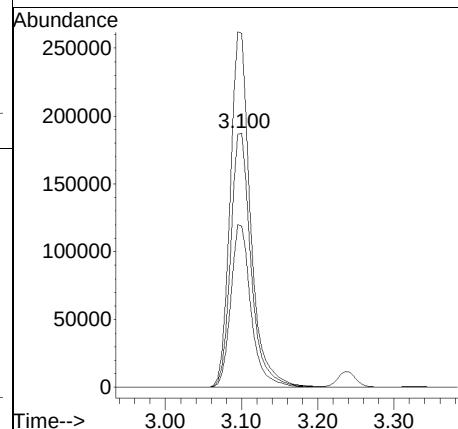
Tgt Ion:101 Resp: 312154  
 Ion Ratio Lower Upper  
 101 100  
 151 74.4 62.2 93.4



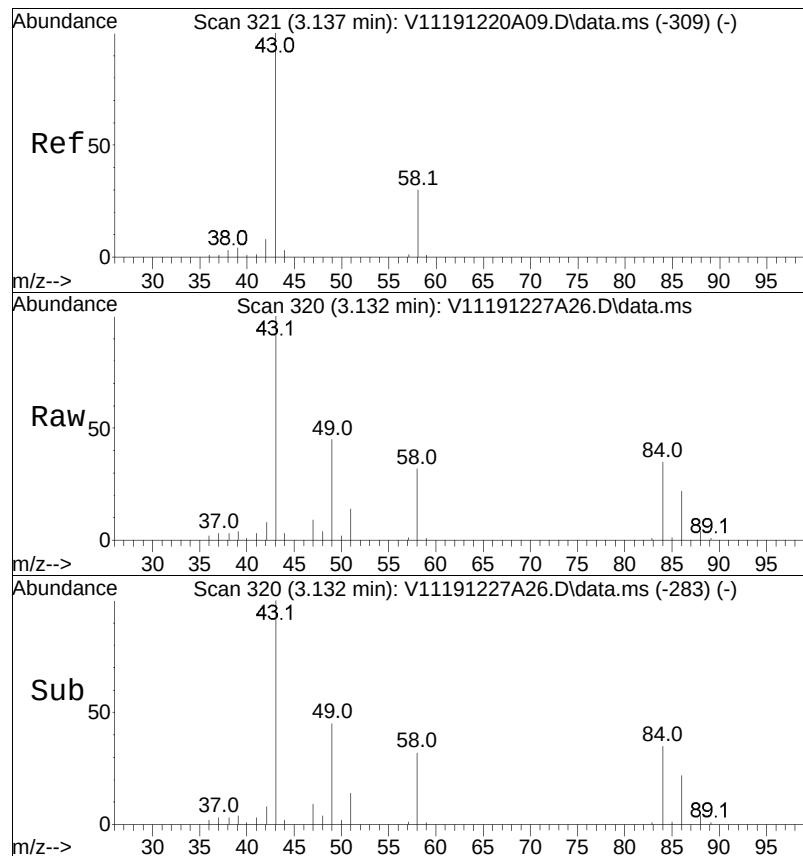


#15  
Methylene chloride  
Concen: 86.40 ug/L  
RT: 3.100 min Scan# 314  
Delta R.T. 0.000 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 86      | 63.8  | 41.1  | 85.3  |
| 49      | 138.7 | 124.2 | 258.0 |

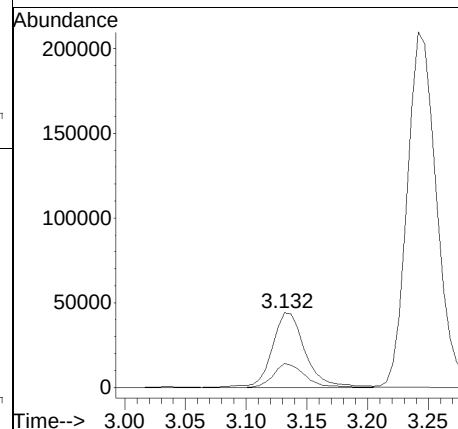


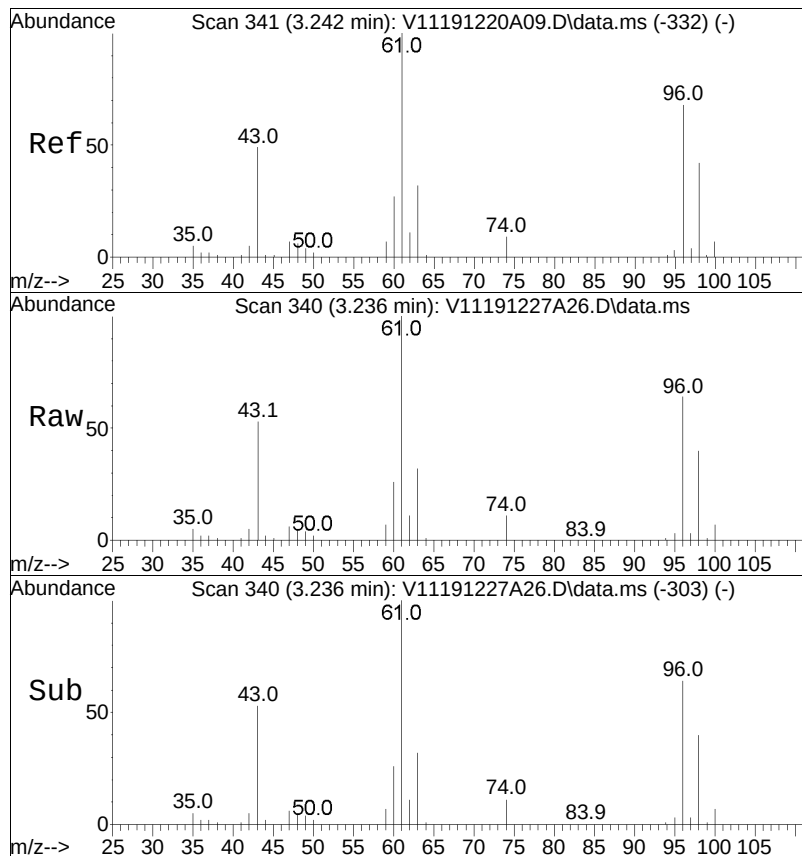




#17  
 Acetone  
 Concen: 91.06 ug/L  
 RT: 3.132 min Scan# 320  
 Delta R.T. -0.005 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

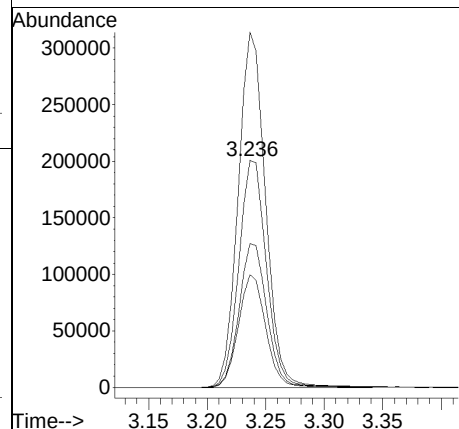
| Tgt Ion: | 43  | 58   | Ratio | 100 | 30.4 | Resp: | 83524 | Lower | Upper |
|----------|-----|------|-------|-----|------|-------|-------|-------|-------|
| 43       | 100 |      |       |     |      |       |       |       |       |
| 58       |     | 30.4 |       |     |      |       |       | 20.8  | 31.2  |

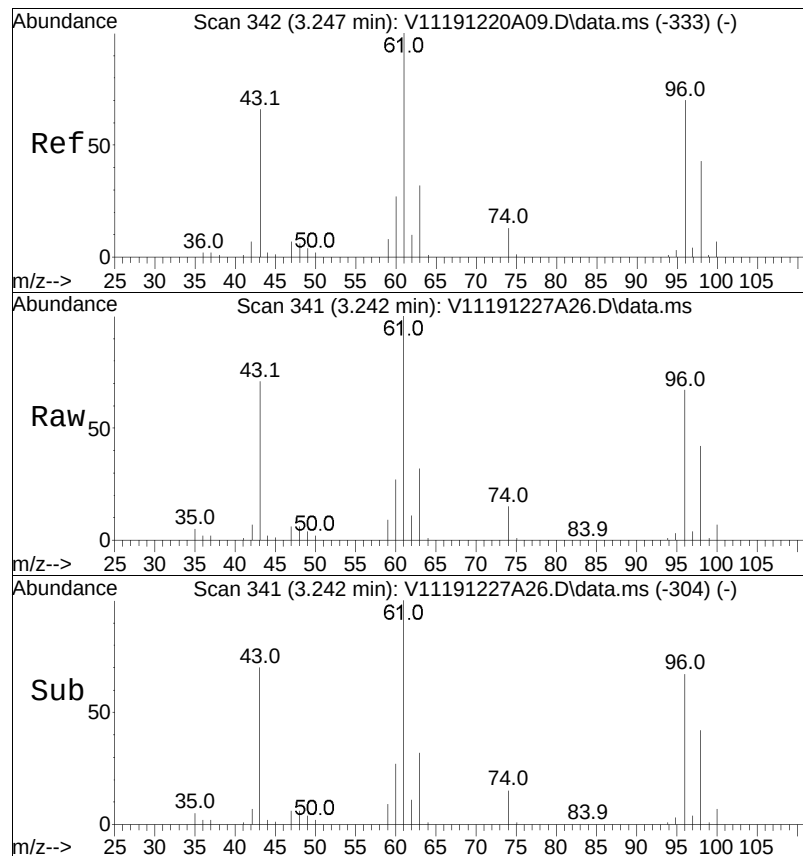




#18  
 trans-1,2-Dichloroethene  
 Concen: 99.16 ug/L  
 RT: 3.236 min Scan# 340  
 Delta R.T. -0.006 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

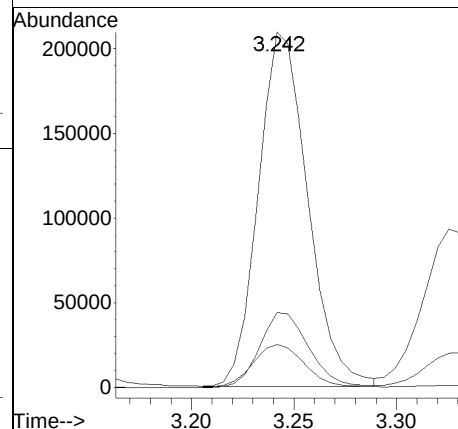
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 331082 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 154.8 | 111.1 | 230.8  |
| 98        | 63.7  | 41.8  | 86.8   |
| 63        | 49.1  | 33.3  | 69.1   |

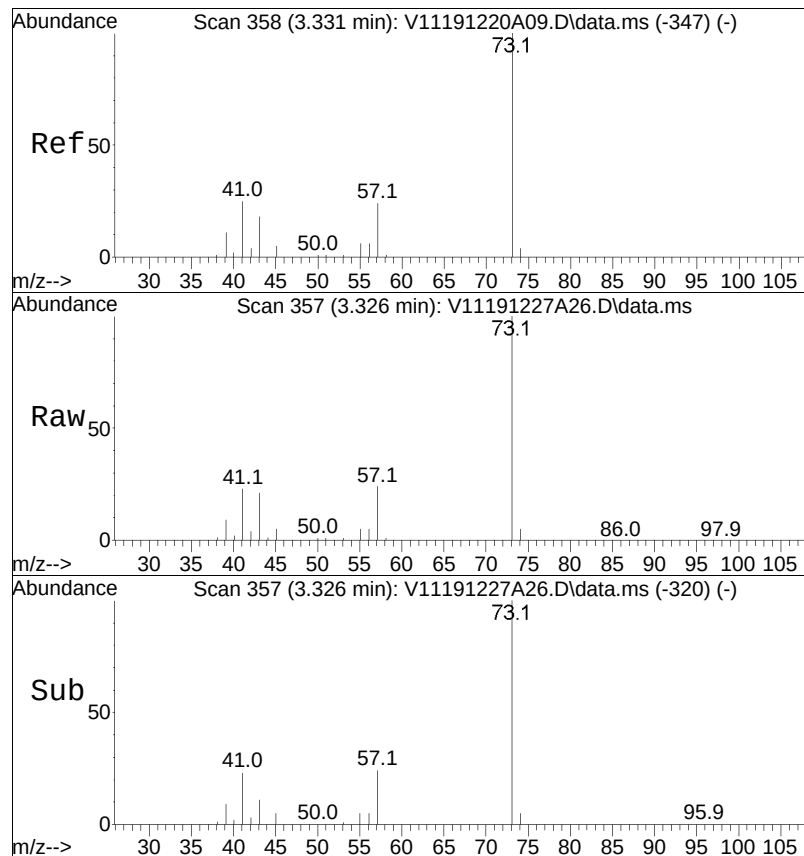




#19  
Methyl acetate  
Concen: 142.99 ug/L  
RT: 3.242 min Scan# 341  
Delta R.T. -0.005 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

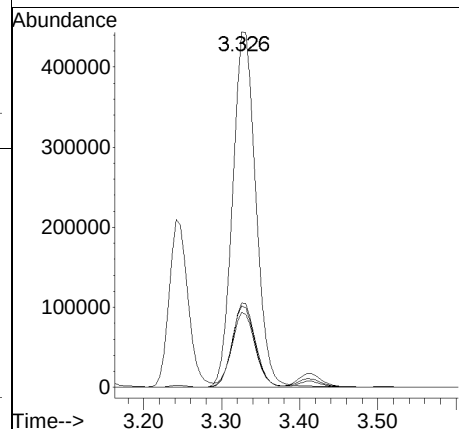
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 21.1  | 11.3  | 16.9# |
| 59      | 12.8  | 10.4  | 15.6  |

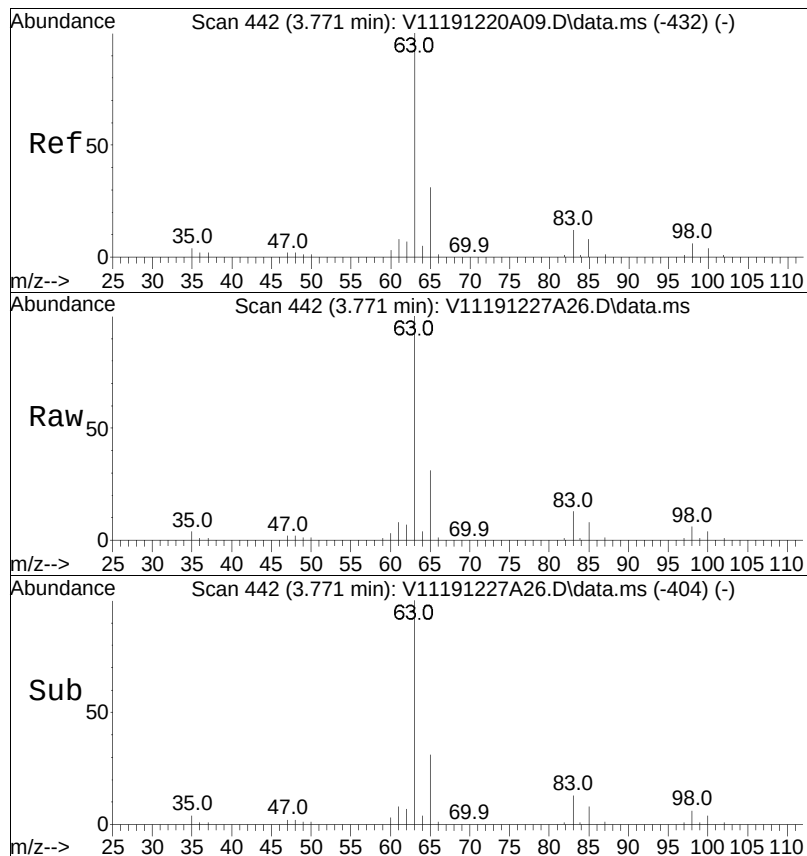




#20  
Methyl tert-butyl ether  
Concen: 99.68 ug/L  
RT: 3.326 min Scan# 357  
Delta R.T. -0.005 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

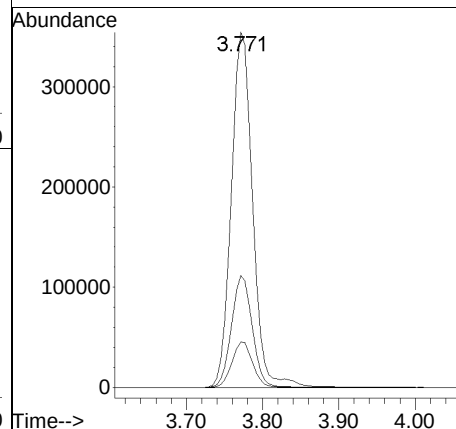
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 73    | Resp: | 920905 |
| Ion Ratio | Lower | Upper |        |
| 73        | 100   |       |        |
| 57        | 23.6  | 19.6  | 40.6   |
| 43        | 21.1  | 18.5  | 38.3   |
| 41        | 22.7  | 20.3  | 42.1   |

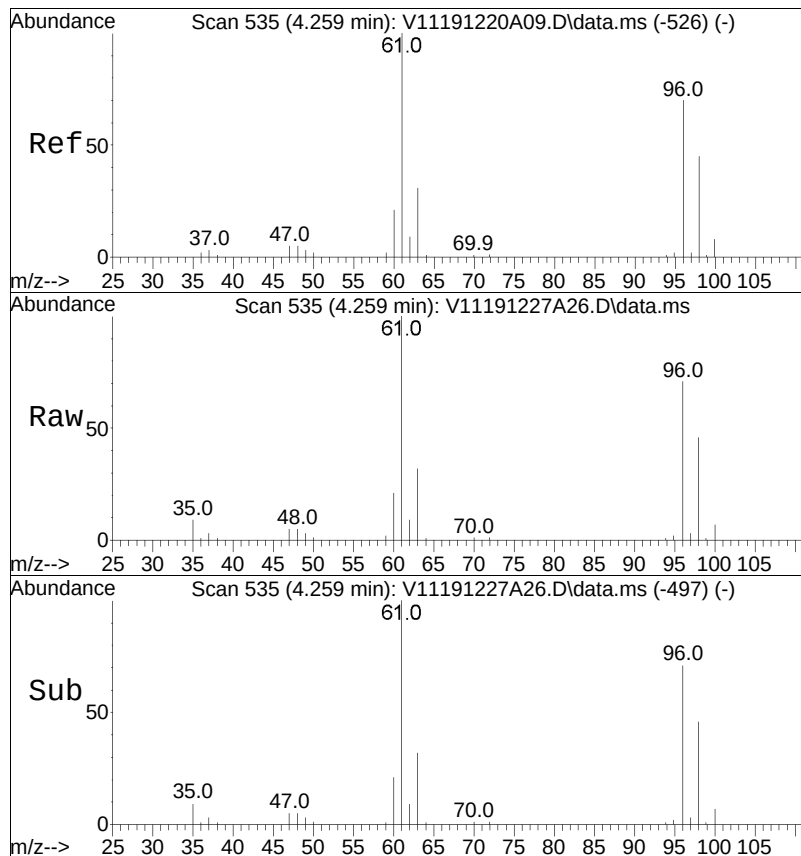




#23  
 1,1-Dichloroethane  
 Concen: 97.92 ug/L  
 RT: 3.771 min Scan# 442  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

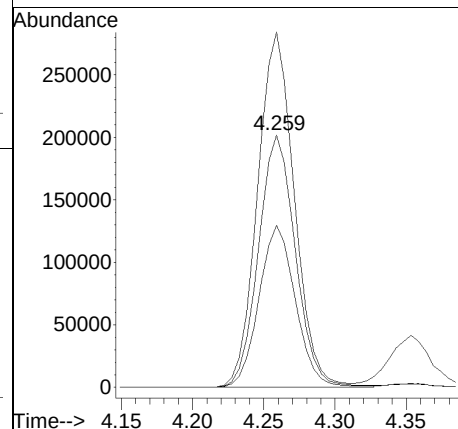
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 63    | Resp: | 690034 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 65        | 30.7  | 9.0   | 49.0   |
| 83        | 12.4  | 0.0   | 31.4   |

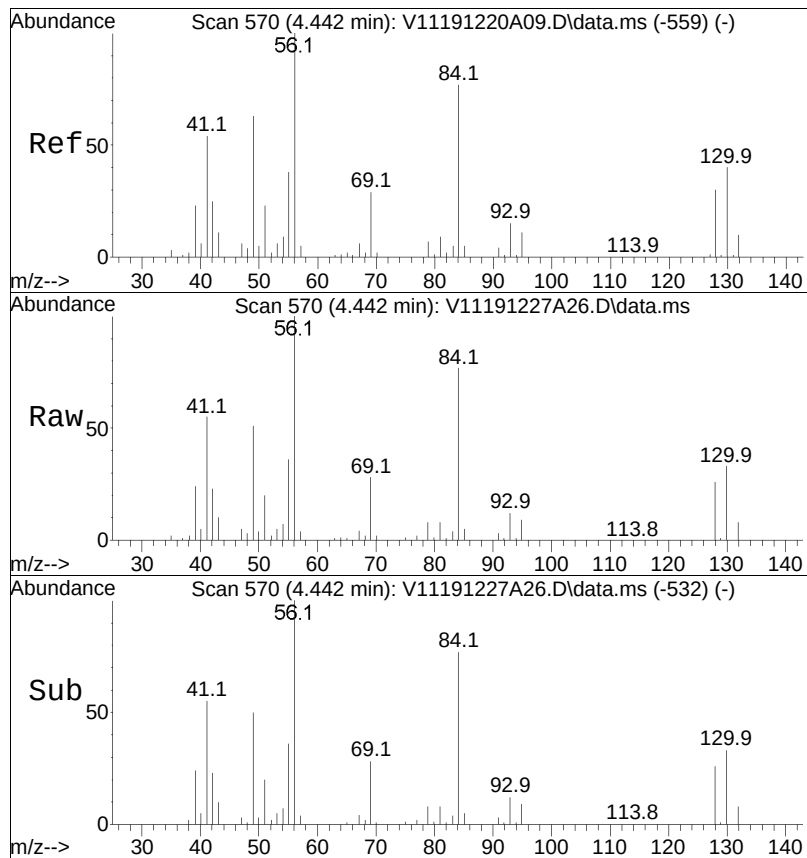




#28  
 cis-1,2-Dichloroethene  
 Concen: 98.93 ug/L  
 RT: 4.259 min Scan# 535  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

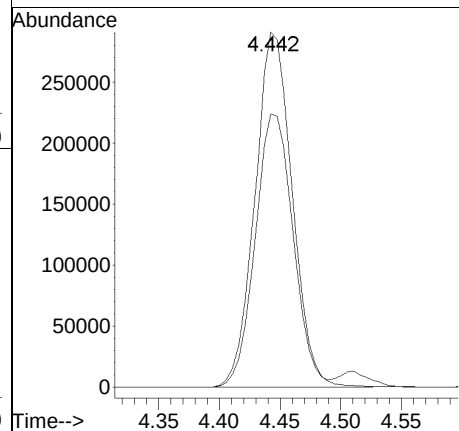
| Tgt Ion:  | 96    | Resp: | 363854 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 139.8 | 126.3 | 189.5  |
| 98        | 63.5  | 51.0  | 76.6   |

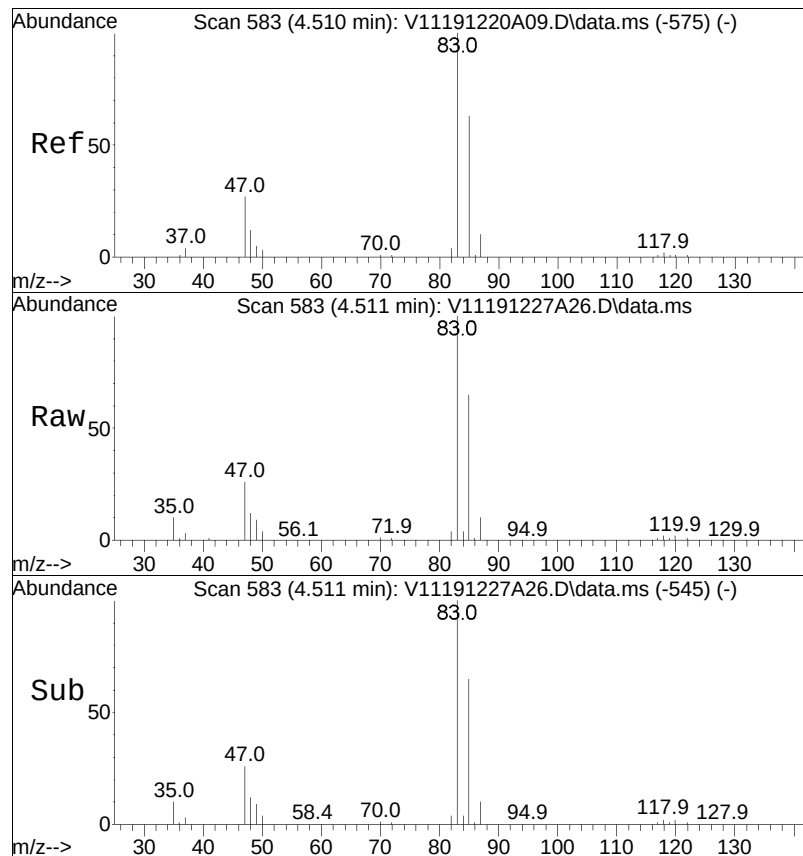




#31  
Cyclohexane  
Concen: 108.51 ug/L  
RT: 4.442 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

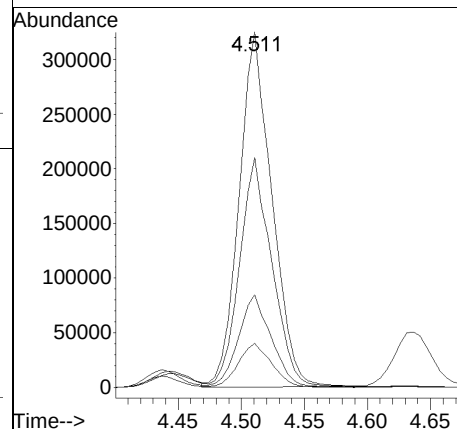
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 84      | 78.3  | 40.5  | 84.1  |



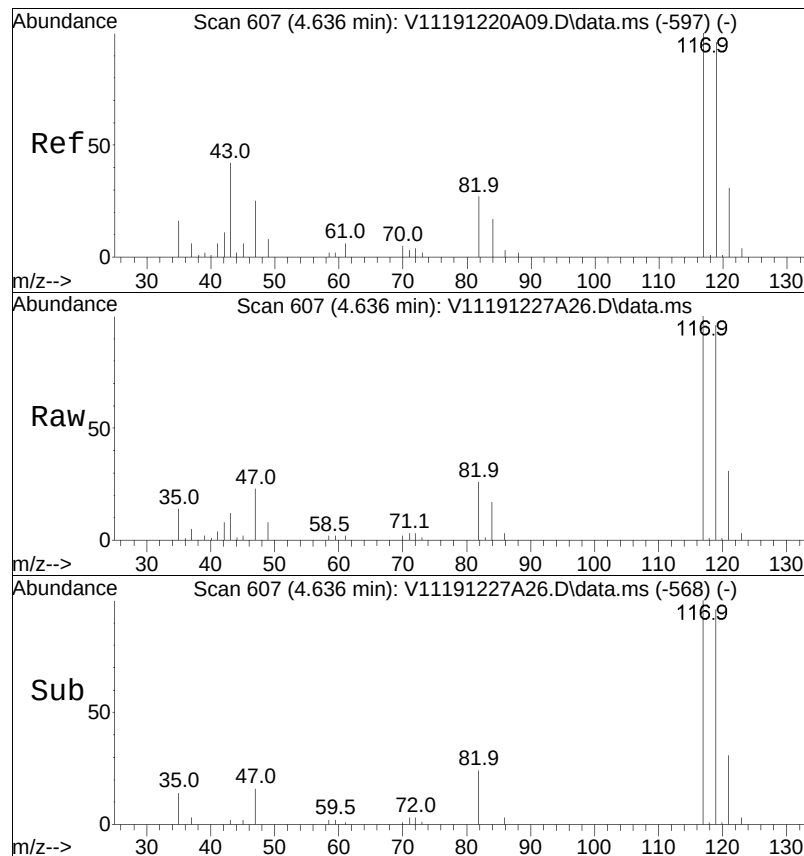


#32  
 Chloroform  
 Concen: 89.97 ug/L  
 RT: 4.511 min Scan# 583  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 587421 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 63.9  | 41.9  | 87.1   |
| 47       | 25.8  | 20.9  | 43.3   |
| 48       | 12.7  | 9.9   | 20.5   |







#34

Carbon tetrachloride

Concen: 103.57 ug/L

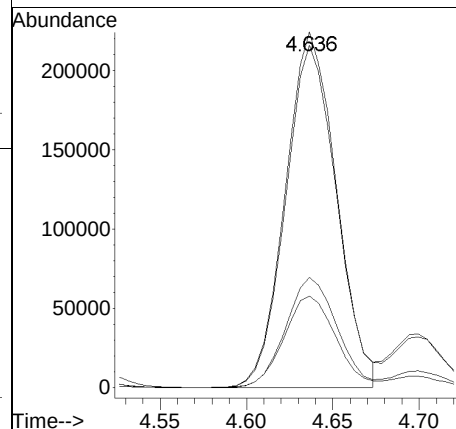
RT: 4.636 min Scan# 607

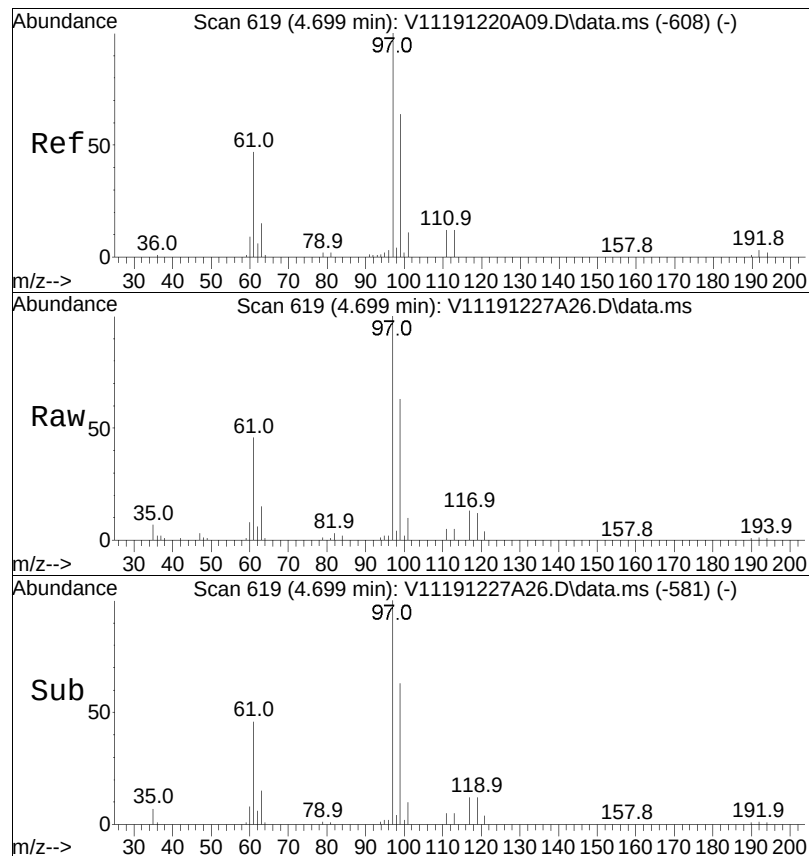
Delta R.T. 0.000 min

Lab File: V11191227A26.D

Acq: 27 Dec 2019 03:50 pm

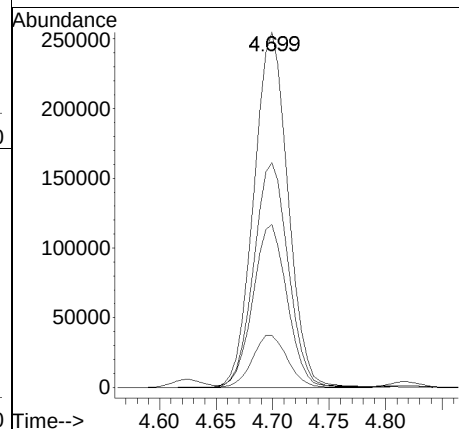
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 461453 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 97.0  | 64.0  | 132.8  |
| 121       | 30.9  | 20.7  | 42.9   |
| 82        | 26.3  | 16.3  | 33.8   |

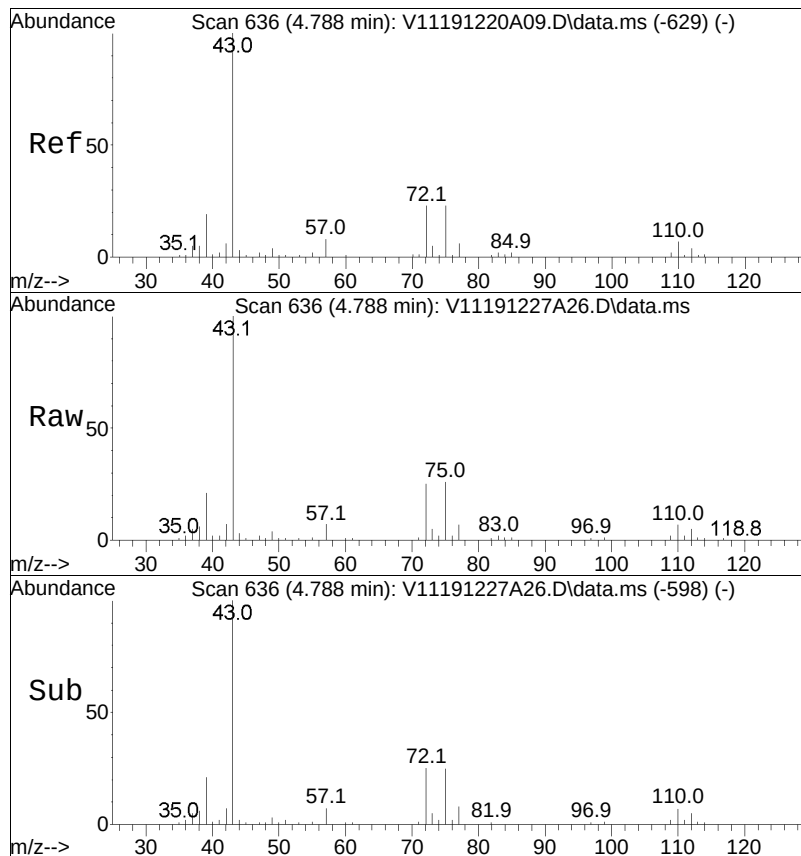




#37  
 1,1,1-Trichloroethane  
 Concen: 102.03 ug/L  
 RT: 4.699 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

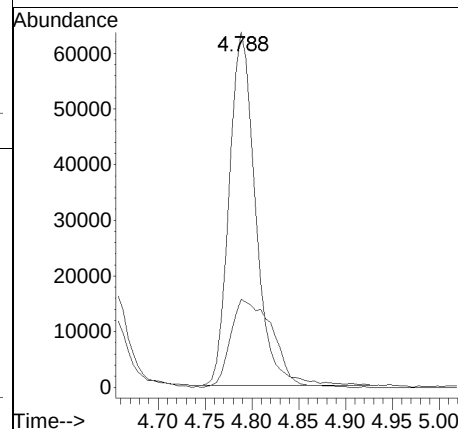
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 536888 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.0  | 41.5  | 86.1   |
| 61        | 46.2  | 32.2  | 67.0   |
| 63        | 14.9  | 10.1  | 20.9   |

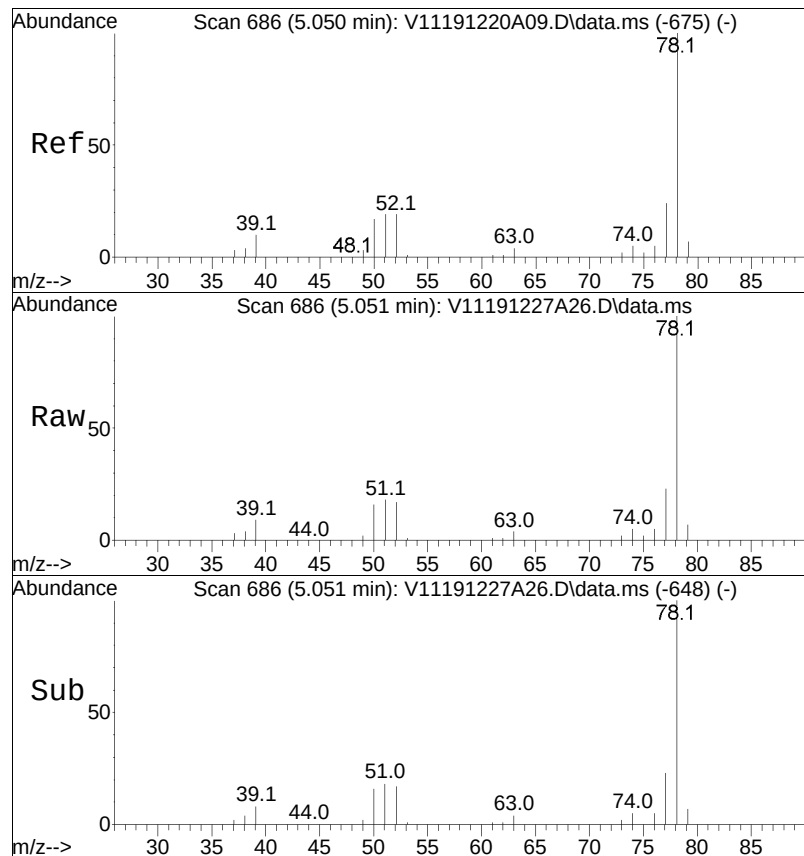




#39  
 2-Butanone  
 Concen: 88.29 ug/L  
 RT: 4.788 min Scan# 636  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

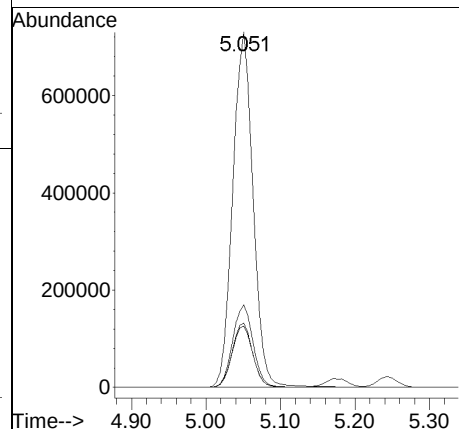
| Tgt Ion:  | 43  | 72   | Resp: | 124424 |
|-----------|-----|------|-------|--------|
| Ion Ratio | 100 | 39.8 | Lower | Upper  |
|           |     |      | 21.0  | 31.6#  |

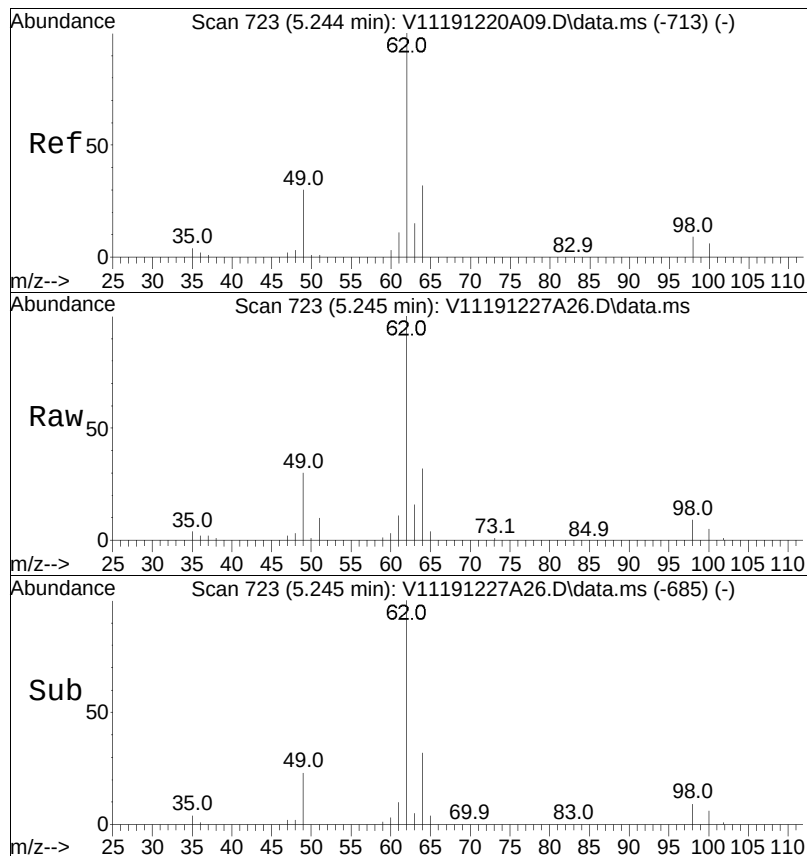




#41  
Benzene  
Concen: 95.83 ug/L  
RT: 5.051 min Scan# 686  
Delta R.T. 0.001 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

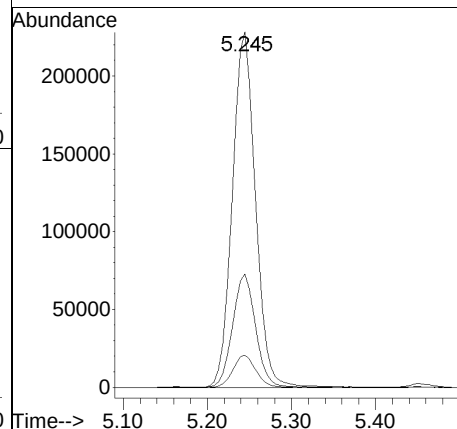
|     |         |               |       |
|-----|---------|---------------|-------|
| Tgt | Ion: 78 | Resp: 1387735 |       |
| Ion | Ratio   | Lower         | Upper |
| 78  | 100     |               |       |
| 77  | 23.5    | 15.1          | 31.3  |
| 51  | 18.2    | 15.8          | 32.8  |
| 52  | 17.6    | 15.6          | 32.4  |

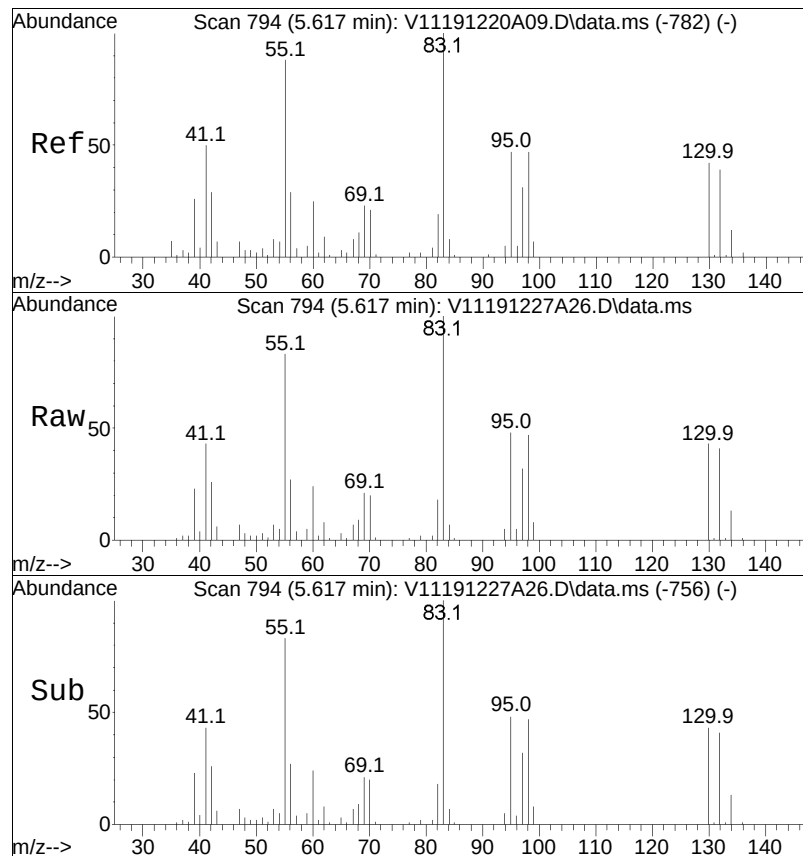




#44  
 1,2-Dichloroethane  
 Concen: 88.03 ug/L  
 RT: 5.245 min Scan# 723  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

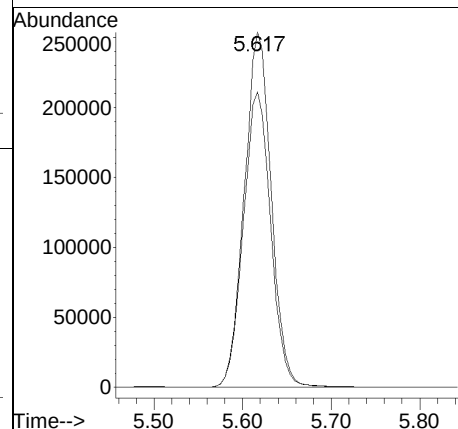
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 62 | Resp: | 436854 |
| Ion | Ratio   | Lower | Upper  |
| 62  | 100     |       |        |
| 64  | 32.0    | 11.1  | 51.1   |
| 98  | 9.0     | 0.0   | 28.0   |

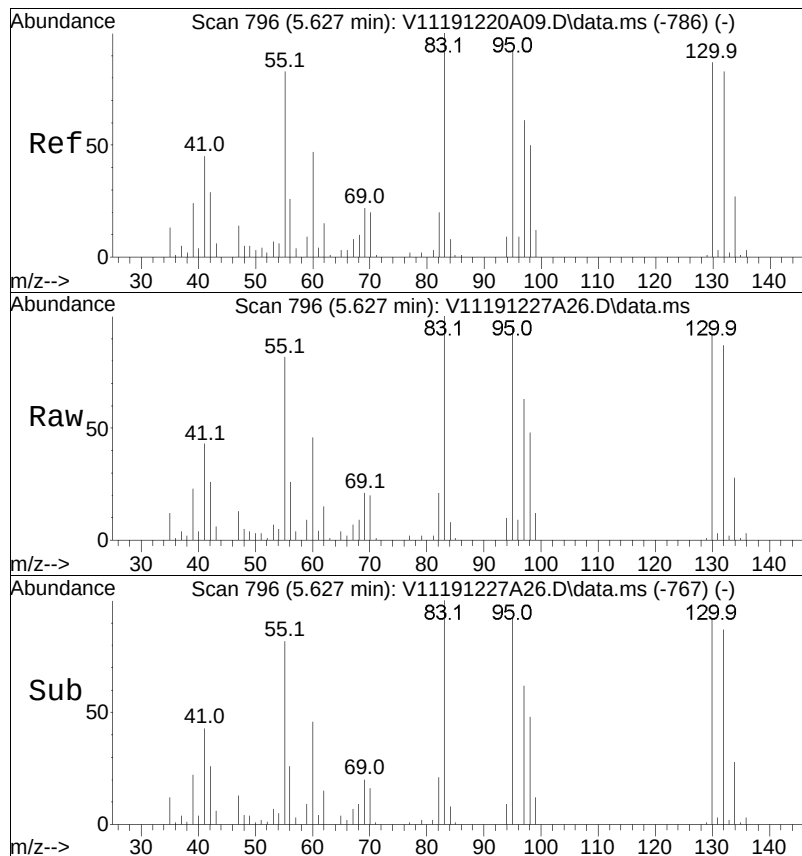




#47  
 Methyl cyclohexane  
 Concen: 99.87 ug/L  
 RT: 5.617 min Scan# 794  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 84.6  | 88.1  | 132.1# |





#48

Trichloroethene

Concen: 97.84 ug/L

RT: 5.627 min Scan# 796

Delta R.T. 0.000 min

Lab File: V11191227A26.D

Acq: 27 Dec 2019 03:50 pm

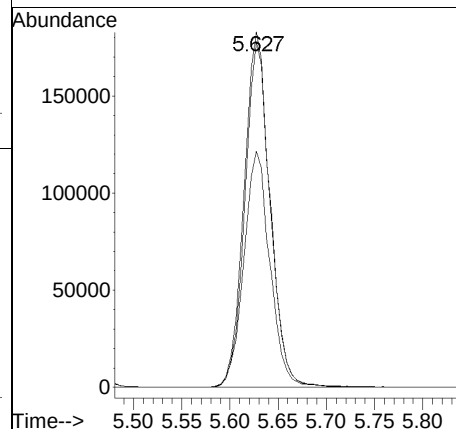
Tgt Ion: 95 Resp: 342978

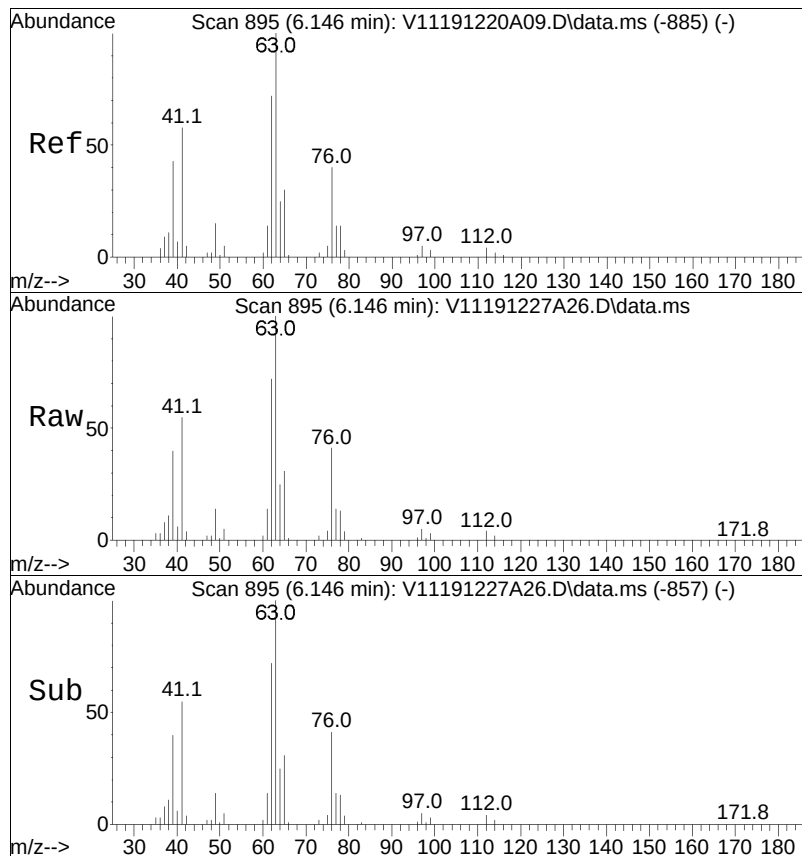
Ion Ratio Lower Upper

95 100

97 67.3 54.3 81.5

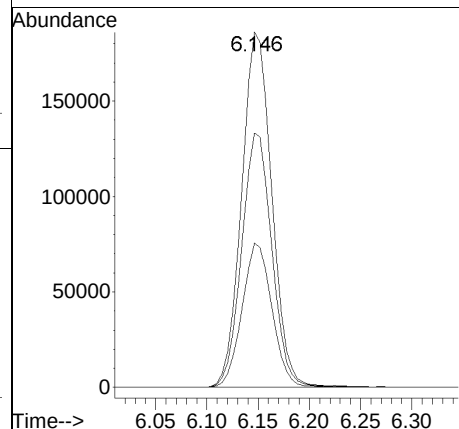
130 95.9 84.6 126.8



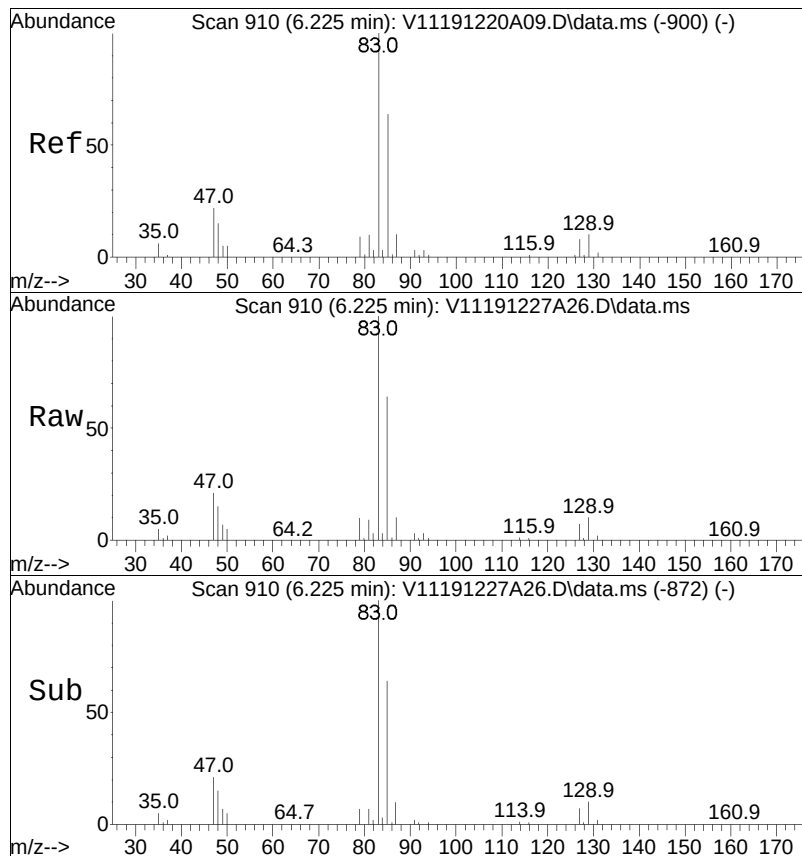


#51  
 1,2-Dichloropropane  
 Concen: 95.74 ug/L  
 RT: 6.146 min Scan# 895  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 63 | Resp: | 382348 |
| Ion | Ratio   | Lower | Upper  |
| 63  | 100     |       |        |
| 62  | 71.6    | 57.9  | 86.9   |
| 76  | 40.2    | 30.1  | 45.1   |







#54

Bromodichloromethane

Concen: 89.54 ug/L

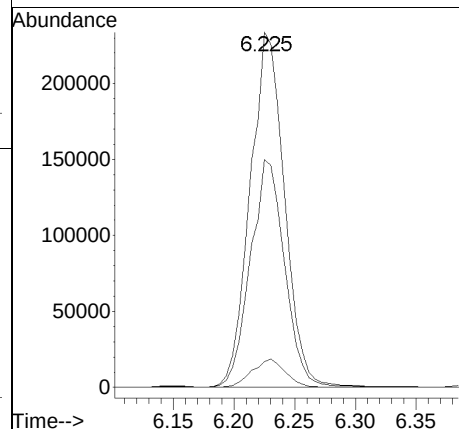
RT: 6.225 min Scan# 910

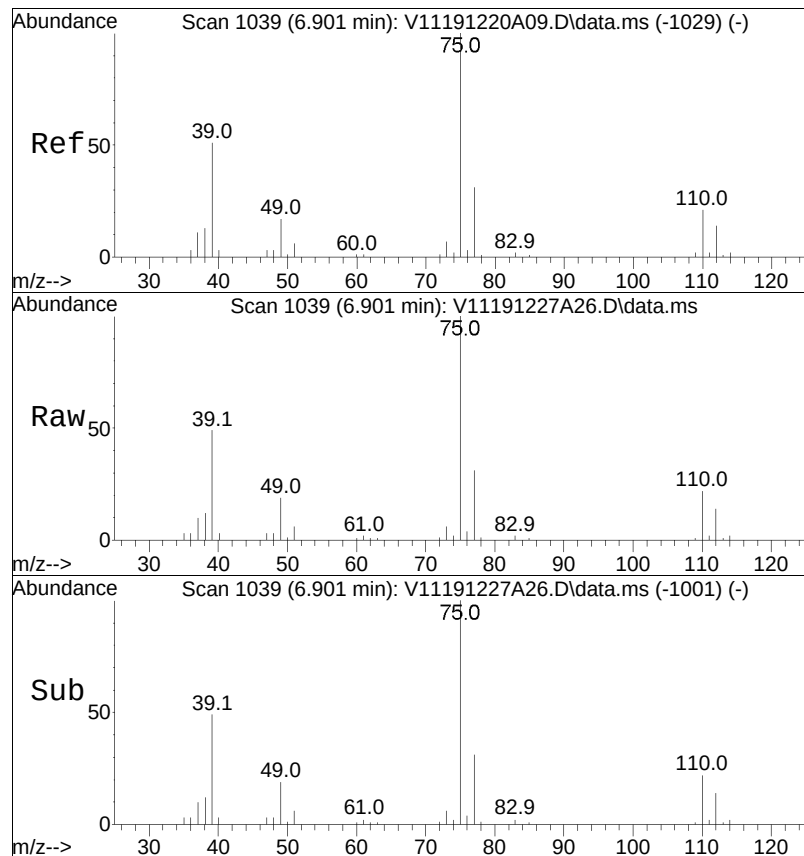
Delta R.T. 0.000 min

Lab File: V11191227A26.D

Acq: 27 Dec 2019 03:50 pm

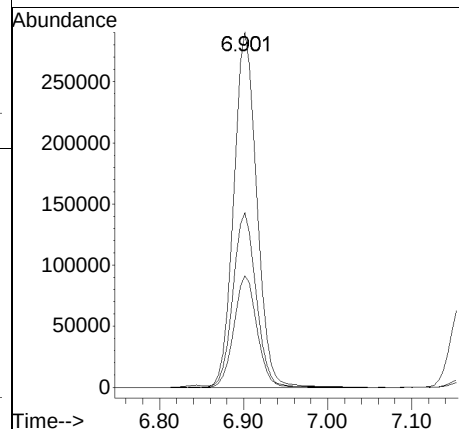
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 83    | Resp: | 458374 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.2  | 51.6  | 77.4   |
| 127       | 7.9   | 7.1   | 10.7   |

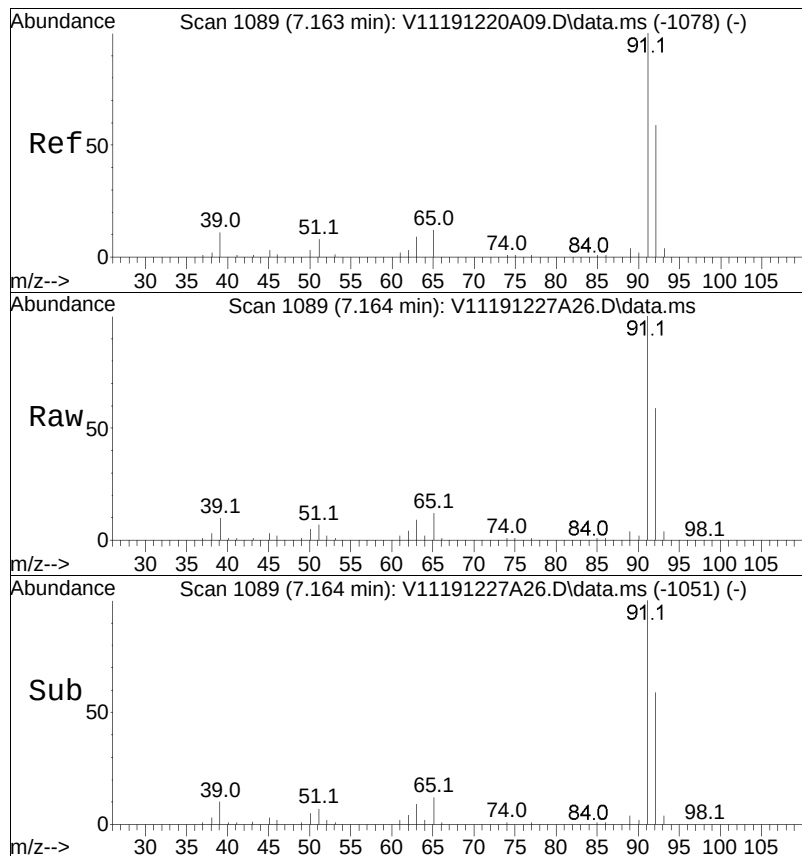




#58  
 cis-1,3-Dichloropropene  
 Concen: 95.31 ug/L  
 RT: 6.901 min Scan# 1039  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

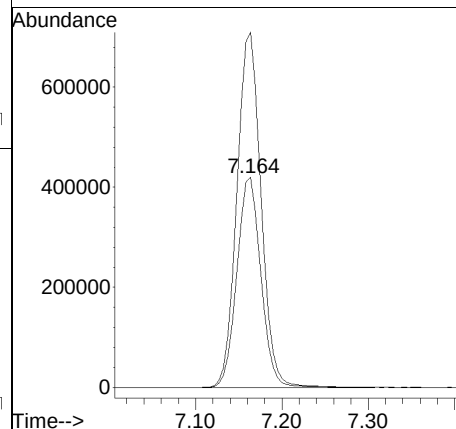
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.6  | 24.9  | 37.3  |
| 39      | 49.6  | 51.8  | 77.8# |

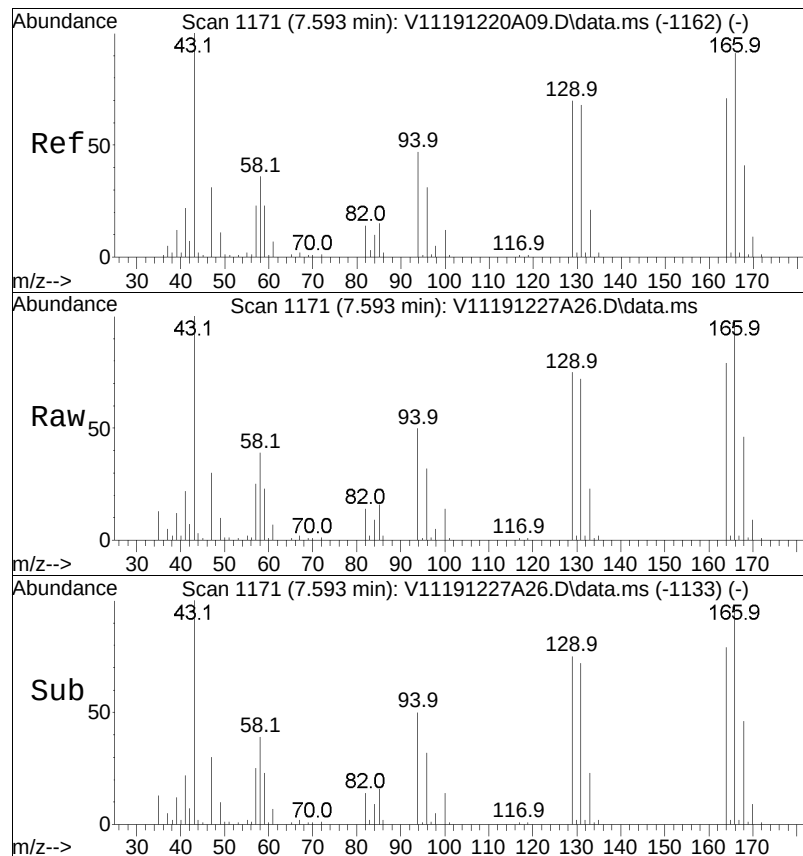




#61  
 Toluene  
 Concen: 77.97 ug/L  
 RT: 7.164 min Scan# 1089  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

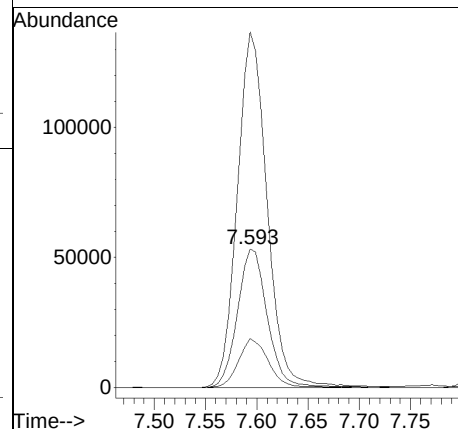
| Tgt | Ion   | Resp   | Ratio | Lower | Upper |
|-----|-------|--------|-------|-------|-------|
| 92  | 100   |        |       |       |       |
| 91  | 169.8 | 811351 | 133.7 | 200.5 |       |

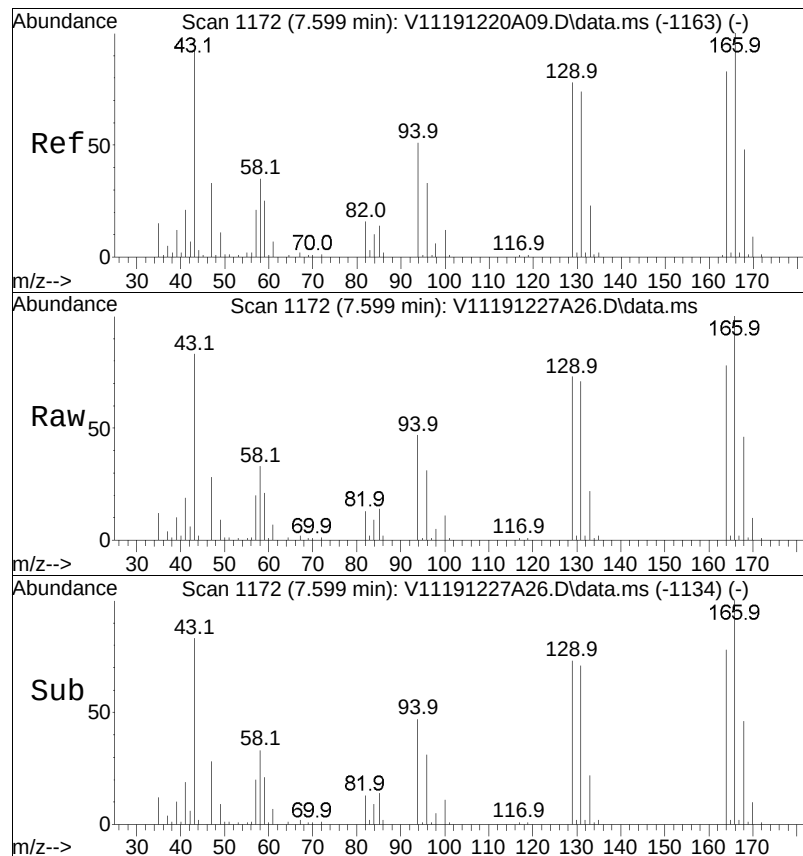




#62  
 4-Methyl-2-pentanone  
 Concen: 81.45 ug/L  
 RT: 7.593 min Scan# 1171  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

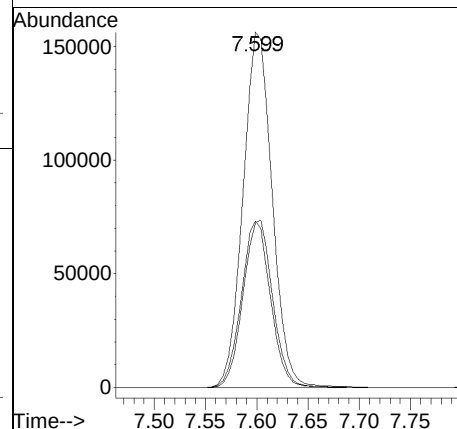
| Tgt | Ion   | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|
| 58  | 100   |       |       |       |
| 100 | 35.0  | 22.0  | 33.0# |       |
| 43  | 256.5 | 236.9 | 355.3 |       |

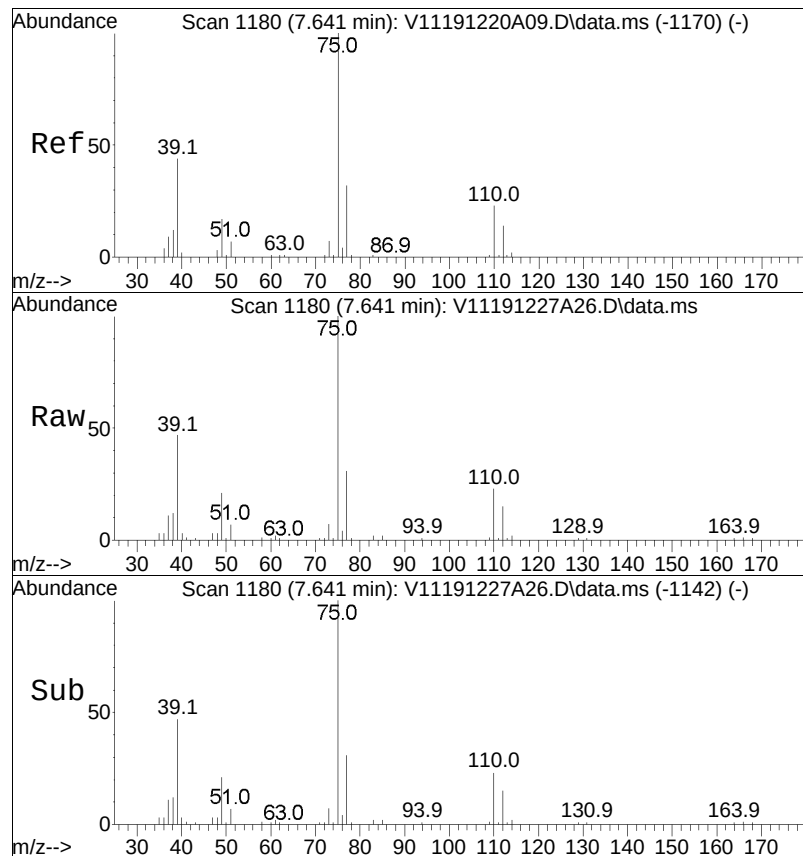




#63  
 Tetrachloroethene  
 Concen: 79.46 ug/L  
 RT: 7.599 min Scan# 1172  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

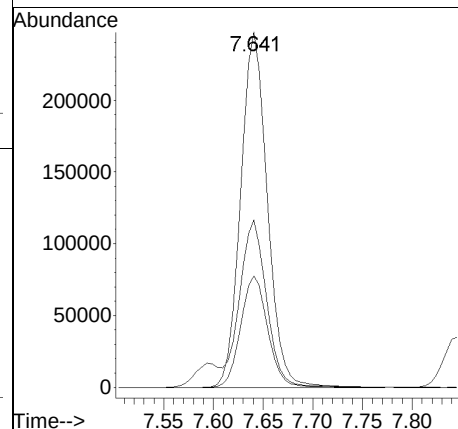
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 309264 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 168 | 47.5    | 28.2  | 68.2   |
| 94  | 46.8    | 26.3  | 66.3   |

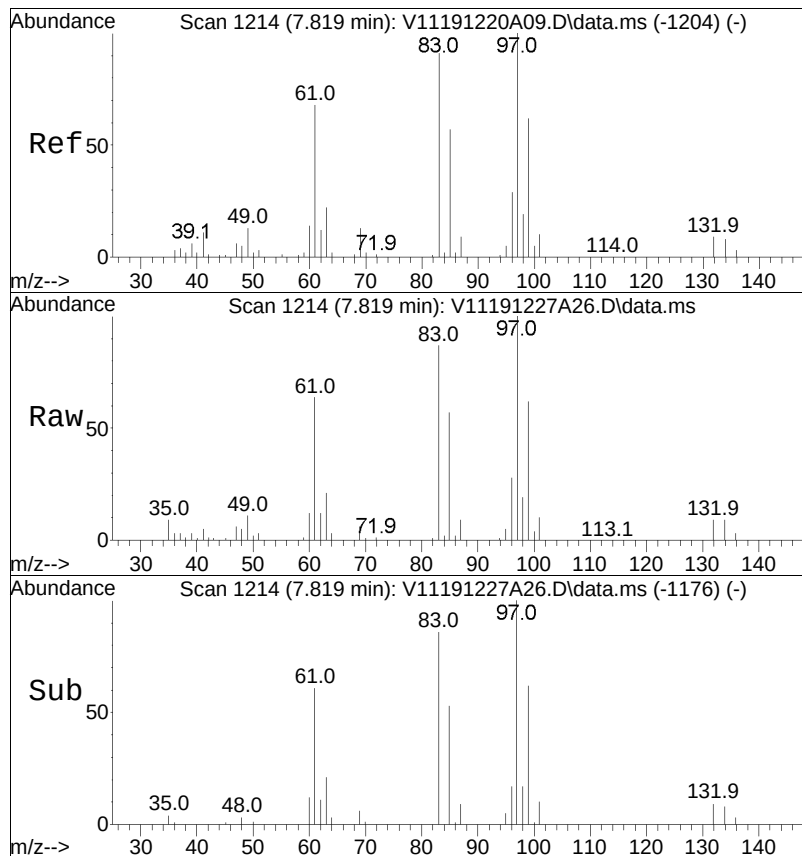




#65  
 trans-1,3-Dichloropropene  
 Concen: 74.50 ug/L  
 RT: 7.641 min Scan# 1180  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

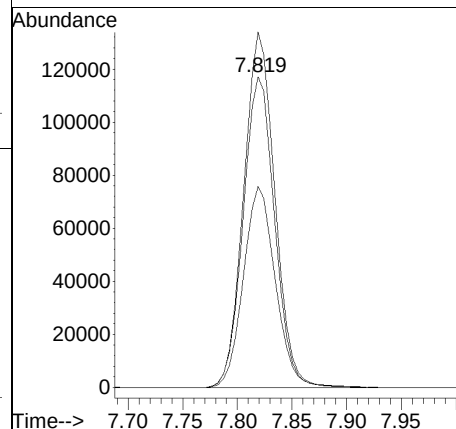
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.8  | 11.4  | 51.4  |
| 39      | 47.5  | 50.3  | 90.3# |

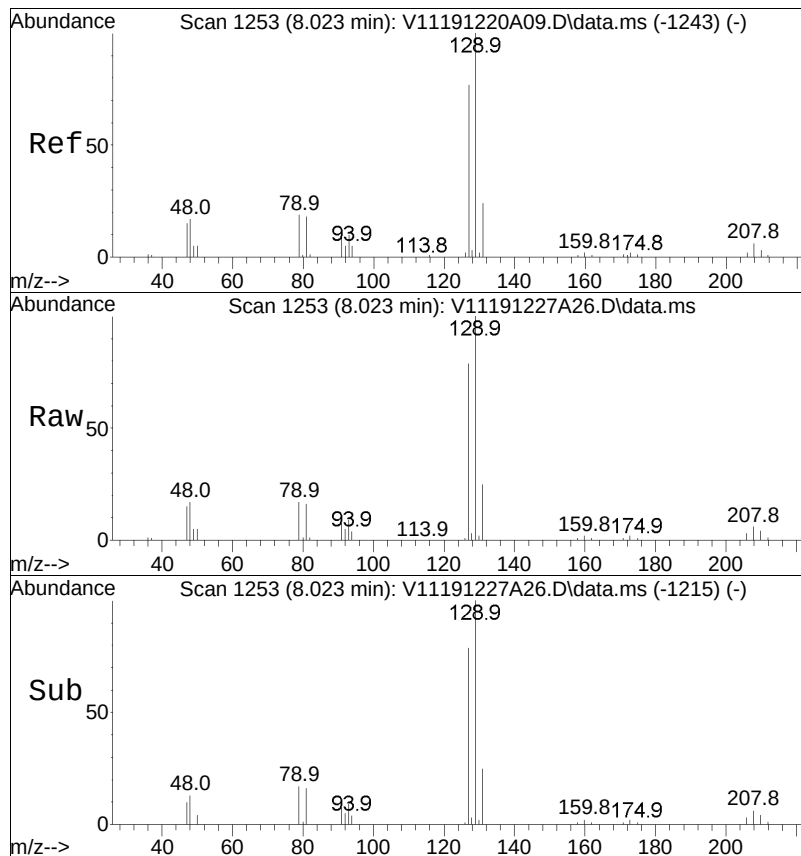




#68  
 1,1,2-Trichloroethane  
 Concen: 75.43 ug/L  
 RT: 7.819 min Scan# 1214  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

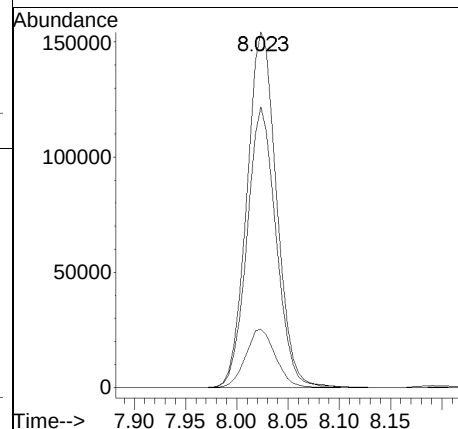
| Tgt Ion:  | 83    | Resp: | 234847 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 97        | 113.2 | 97.6  | 137.6  |
| 85        | 65.6  | 46.8  | 86.8   |



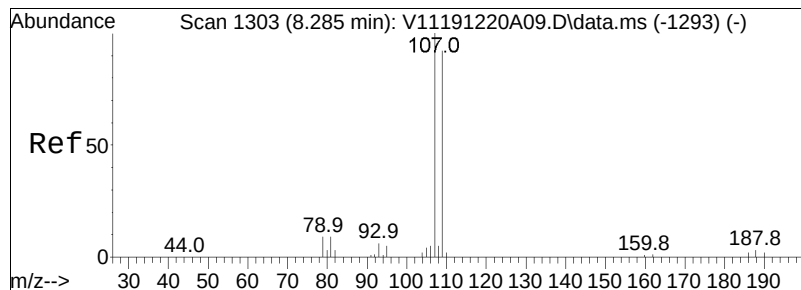


#69  
 Chlorodibromomethane  
 Concen: 77.28 ug/L  
 RT: 8.023 min Scan# 1253  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 129     | 100   | 310938 |       |       |
| 81      | 16.5  |        | 0.0   | 36.0  |
| 127     | 77.3  |        | 56.0  | 96.0  |

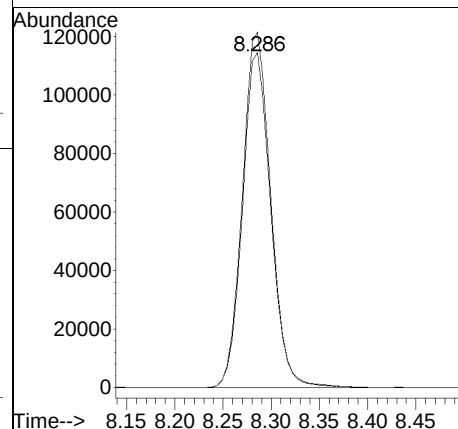
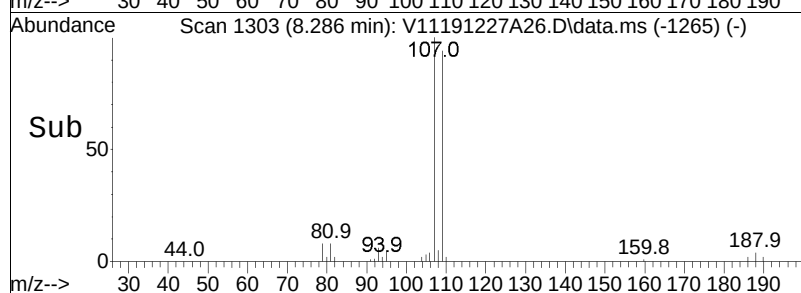
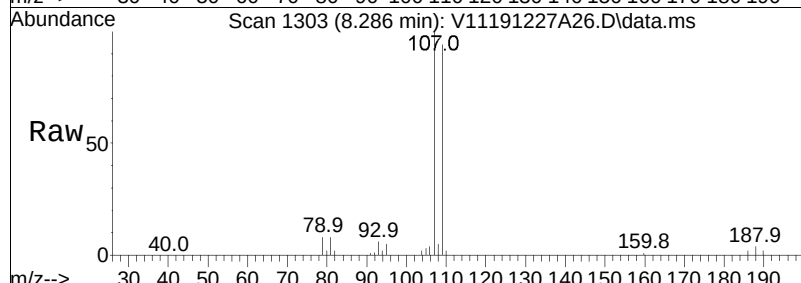


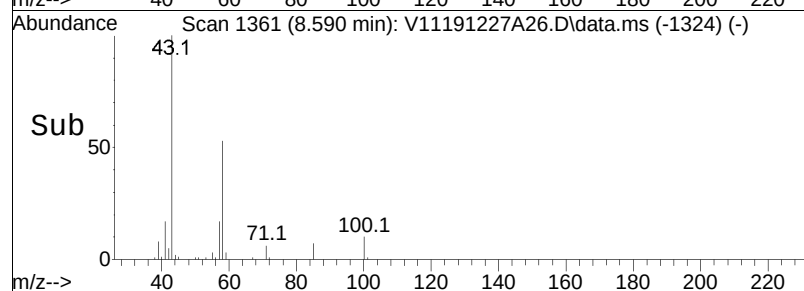
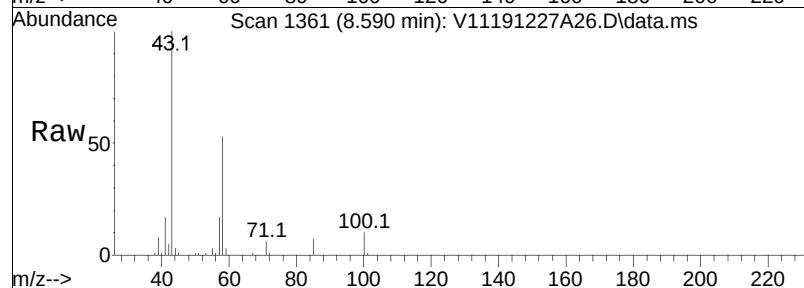
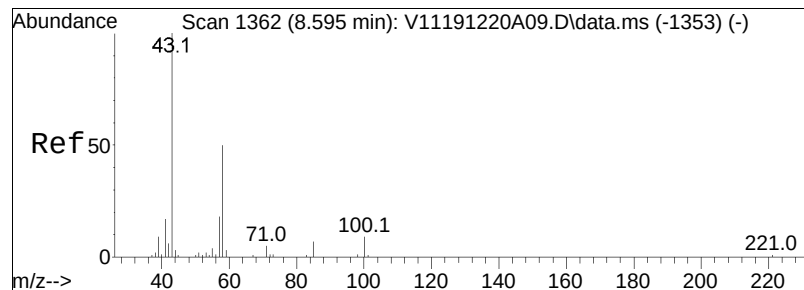




#71  
 1,2-Dibromoethane  
 Concen: 75.74 ug/L  
 RT: 8.286 min Scan# 1303  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 93.7  | 76.2  | 114.4 |





#72

2-Hexanone

Concen: 70.15 ug/L

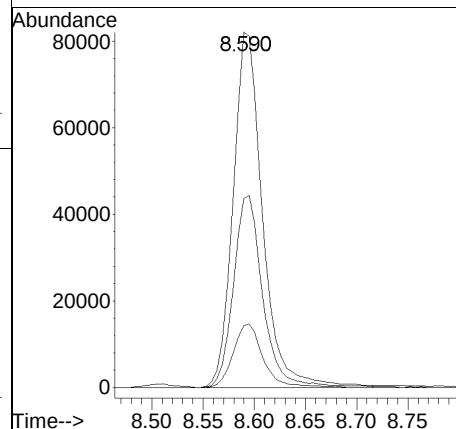
RT: 8.590 min Scan# 1361

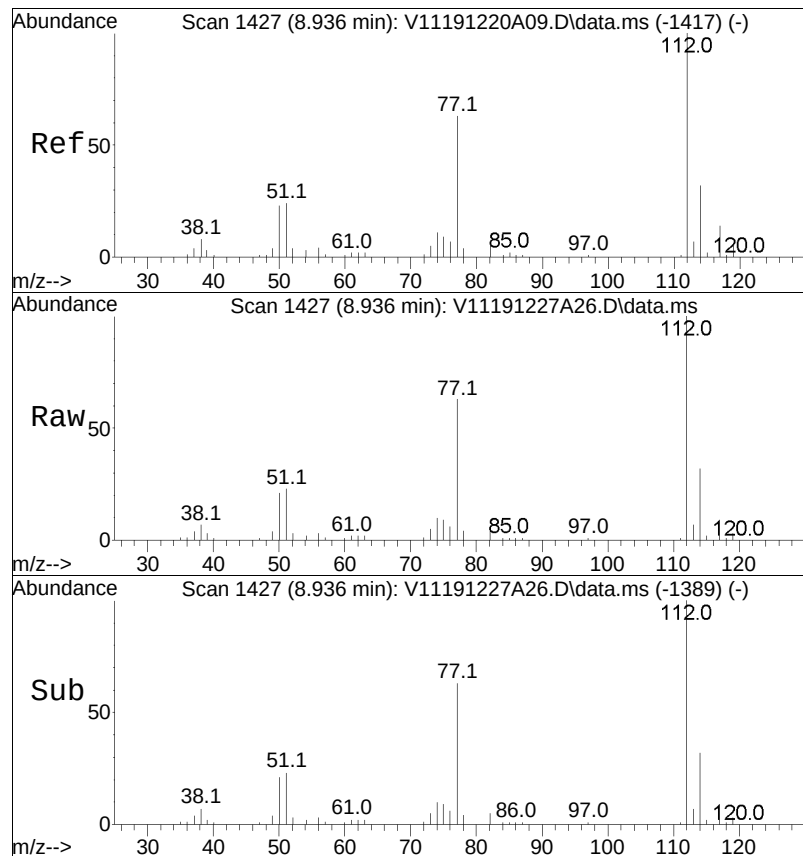
Delta R.T. -0.005 min

Lab File: V11191227A26.D

Acq: 27 Dec 2019 03:50 pm

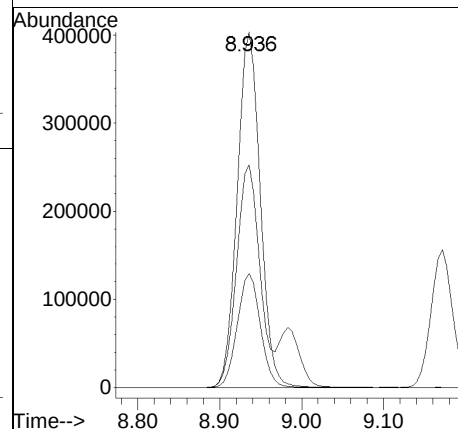
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 164265 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 58        | 53.6  | 37.9  | 56.9   |
| 57        | 18.0  | 12.6  | 19.0   |

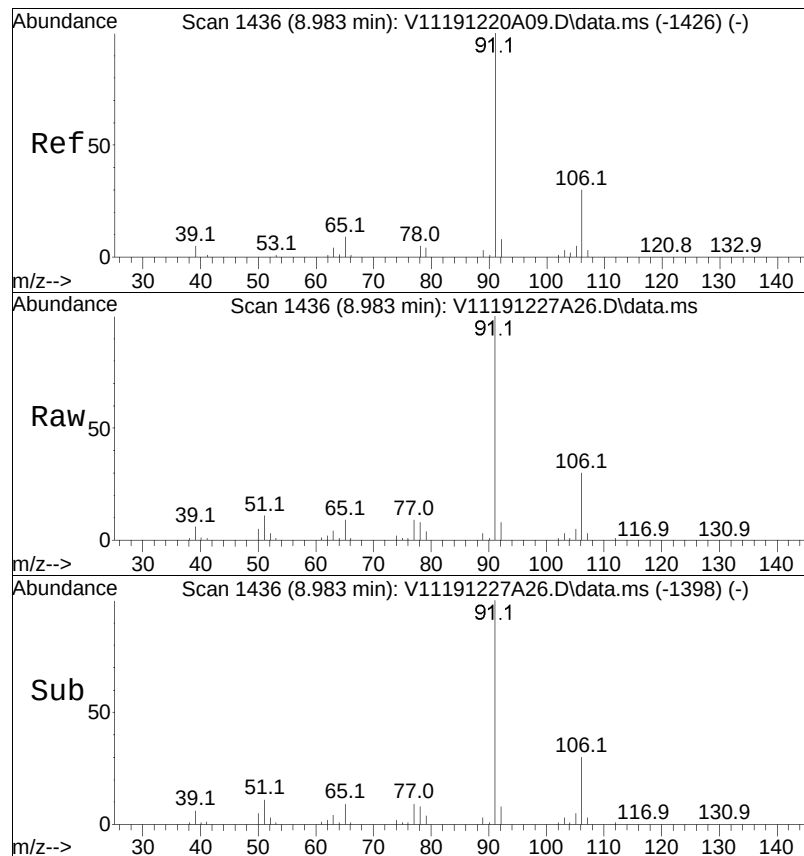




#73  
 Chlorobenzene  
 Concen: 69.84 ug/L  
 RT: 8.936 min Scan# 1427  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

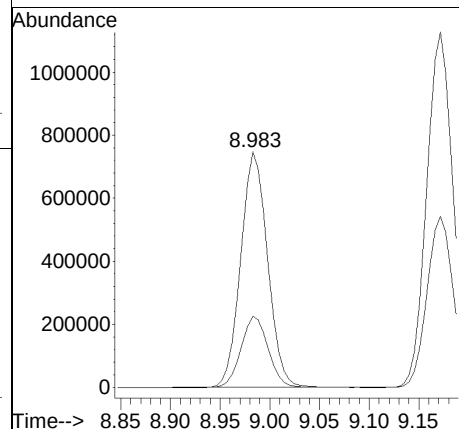
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 788384 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 64.0  | 47.0  | 70.4   |
| 114       | 32.1  | 25.9  | 38.9   |

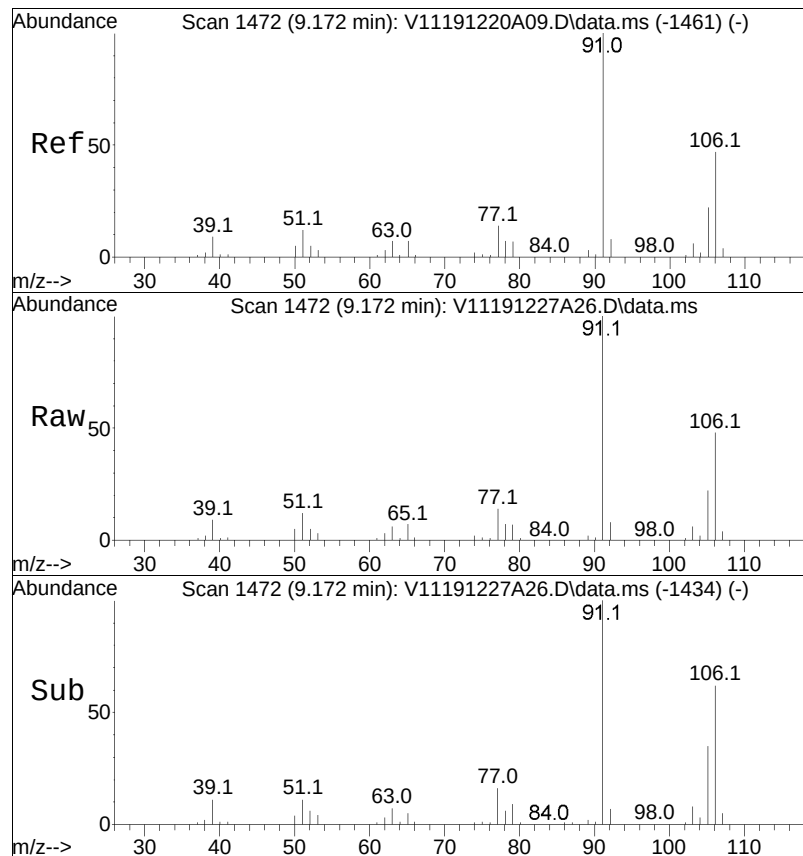




#74  
 Ethylbenzene  
 Concen: 74.89 ug/L  
 RT: 8.983 min Scan# 1436  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

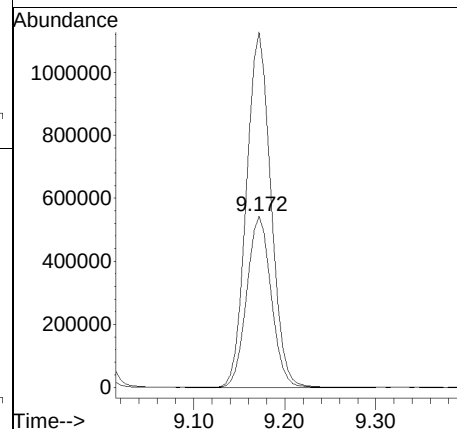
Tgt Ion: 91 Resp: 1401622  
 Ion Ratio Lower Upper  
 91 100  
 106 30.5 25.0 37.4

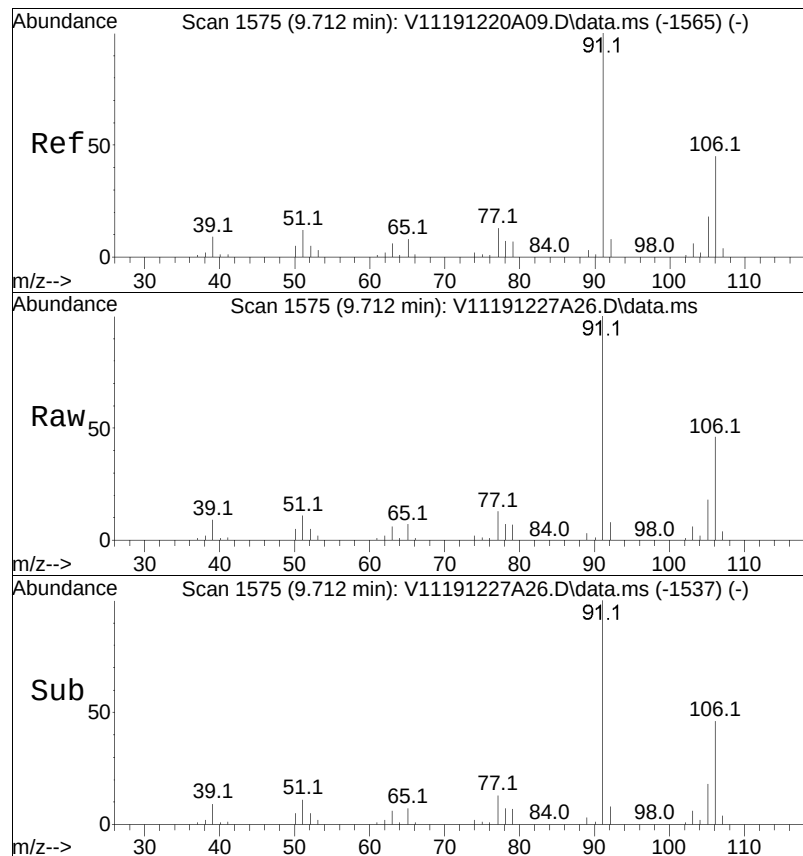




#76  
 p/m Xylene  
 Concen: 150.89 ug/L  
 RT: 9.172 min Scan# 1472  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

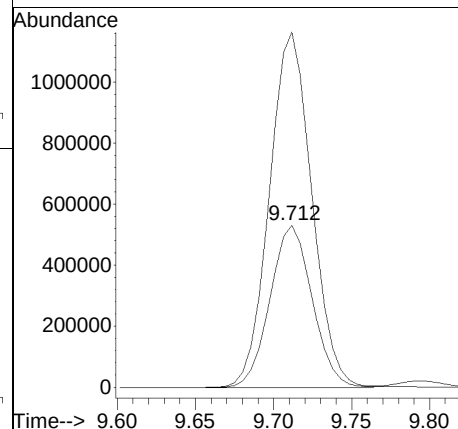
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 207.3 | 159.3 | 238.9 |

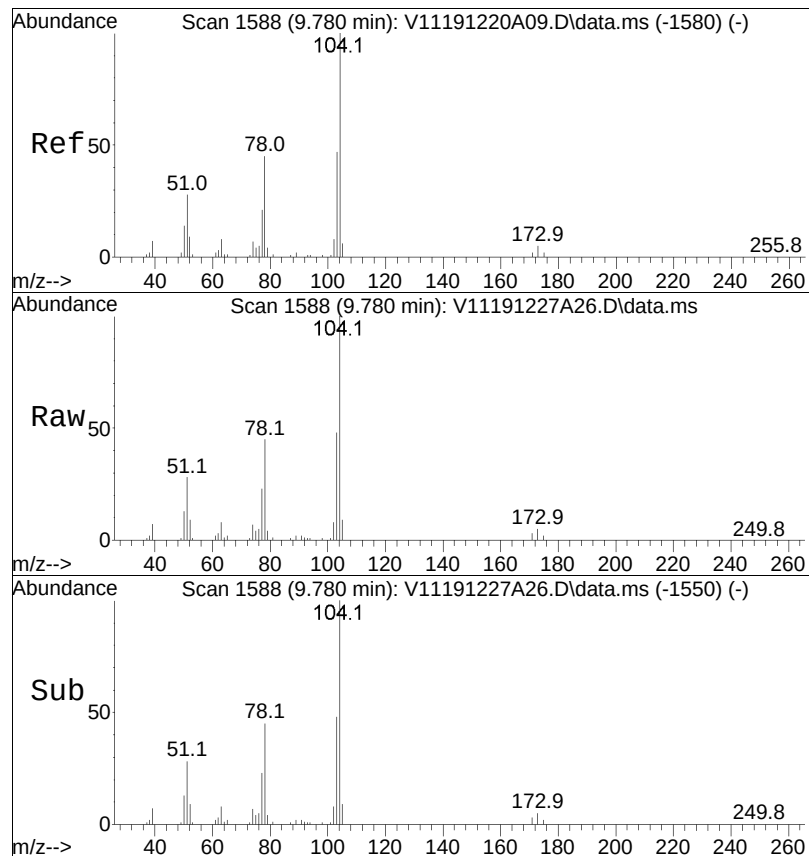




#77  
o Xylene  
Concen: 153.34 ug/L  
RT: 9.712 min Scan# 1575  
Delta R.T. -0.000 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

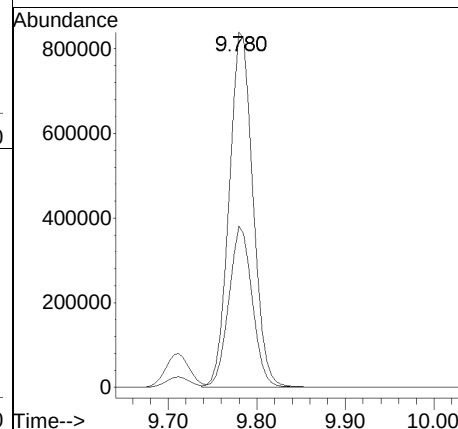
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 106 | 100   |       |       |       |
| 91  | 220.3 | 170.2 | 255.2 |       |

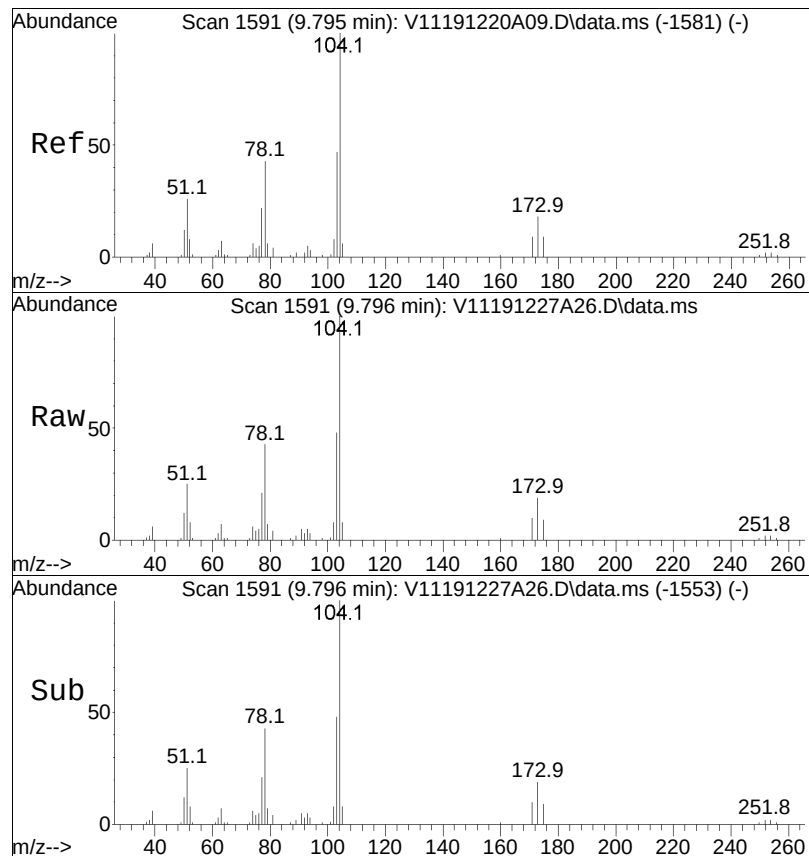




#78  
 Styrene  
 Concen: 144.24 ug/L  
 RT: 9.780 min Scan# 1588  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

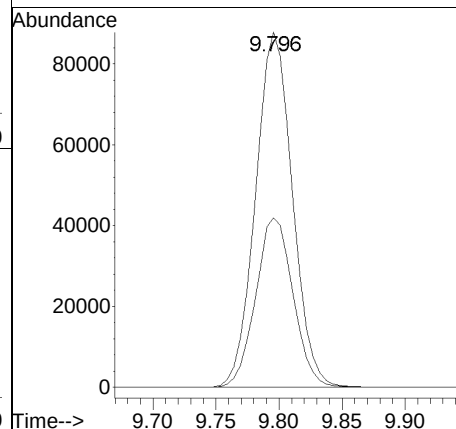
Tgt Ion:104 Resp: 1563993  
 Ion Ratio Lower Upper  
 104 100  
 78 44.7 34.4 51.6



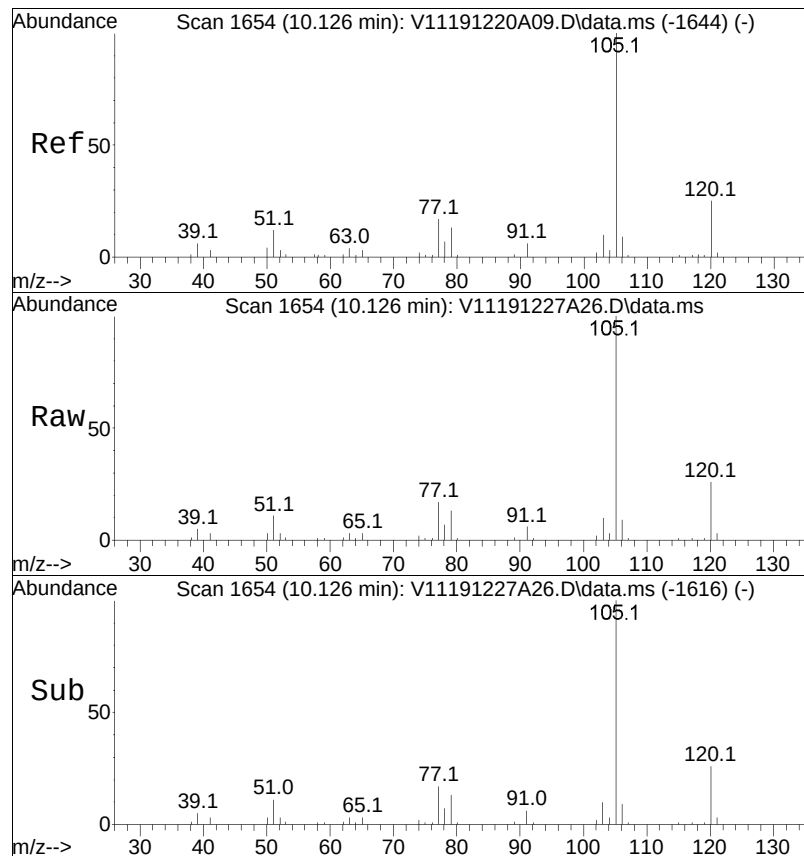


#80  
 Bromoform  
 Concen: 73.03 ug/L  
 RT: 9.796 min Scan# 1591  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.4  | 28.1  | 68.1  |

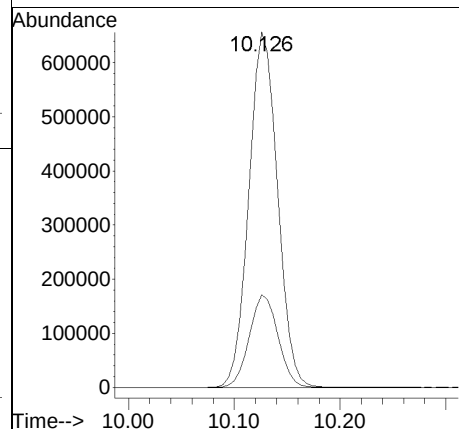


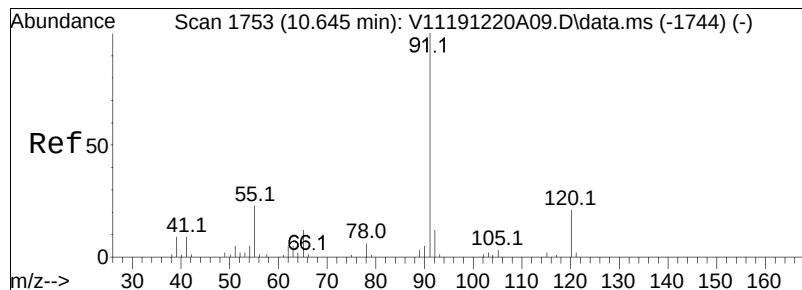




#82  
Isopropylbenzene  
Concen: 73.52 ug/L  
RT: 10.126 min Scan# 1654  
Delta R.T. -0.000 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

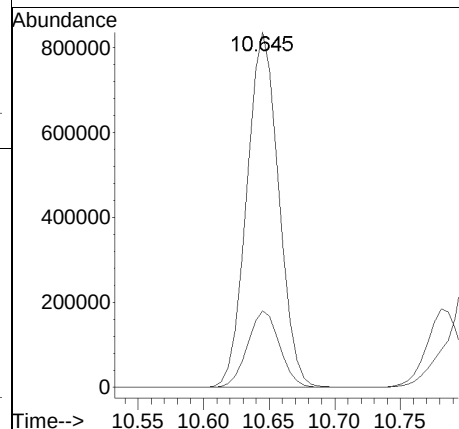
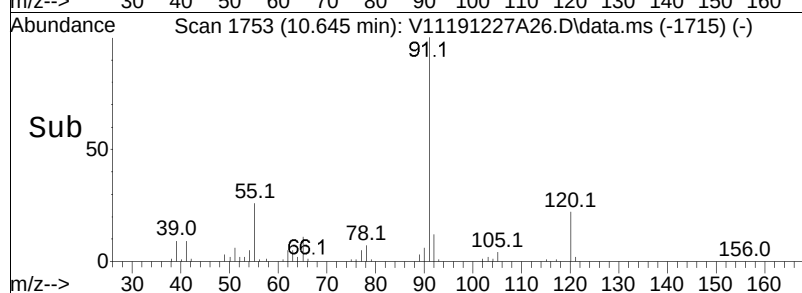
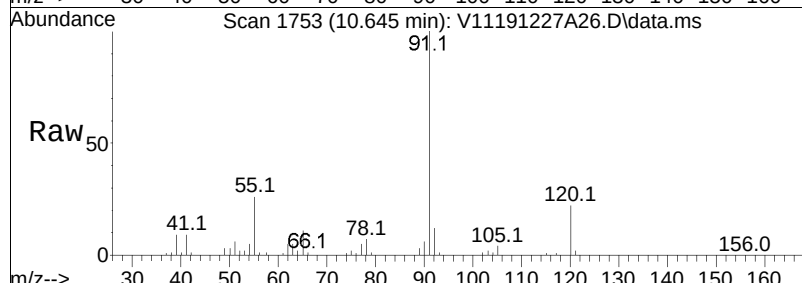
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.0  | 6.9   | 46.9  |

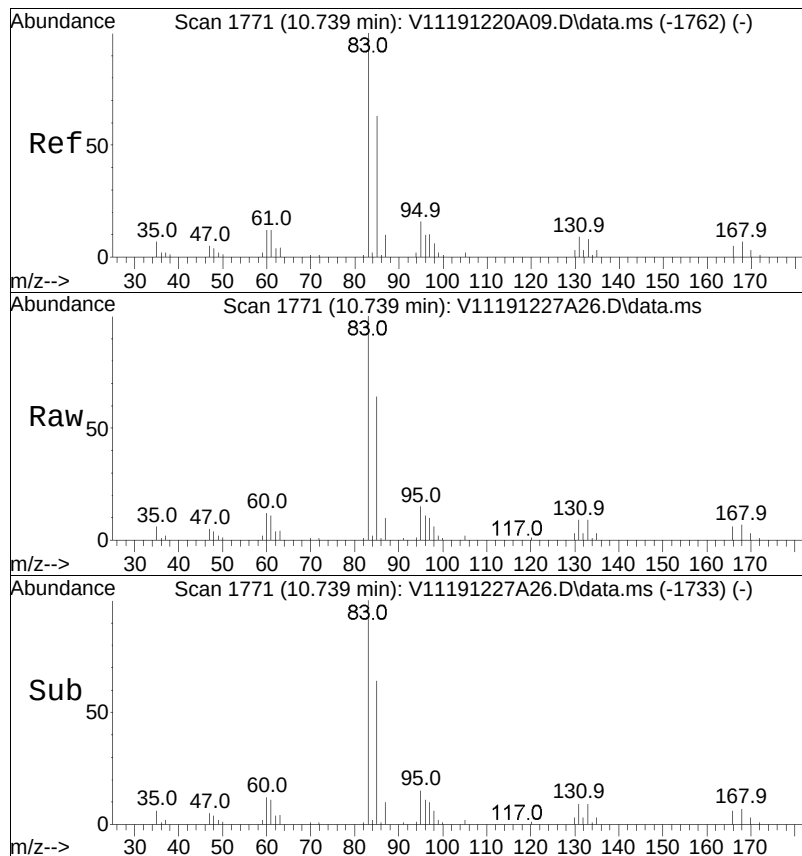




#85  
 n-Propylbenzene  
 Concen: 64.79 ug/L  
 RT: 10.645 min Scan# 1753  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

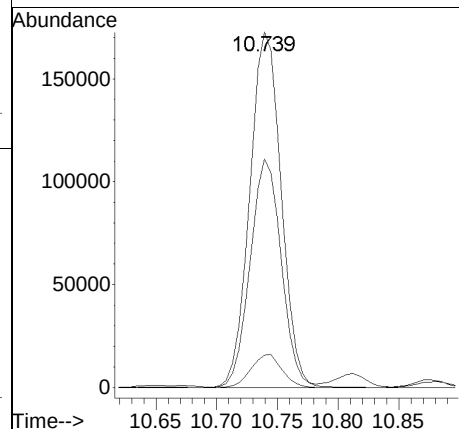
Tgt Ion: 91 Resp: 1412451  
 Ion Ratio Lower Upper  
 91 100  
 120 21.6 18.6 27.8

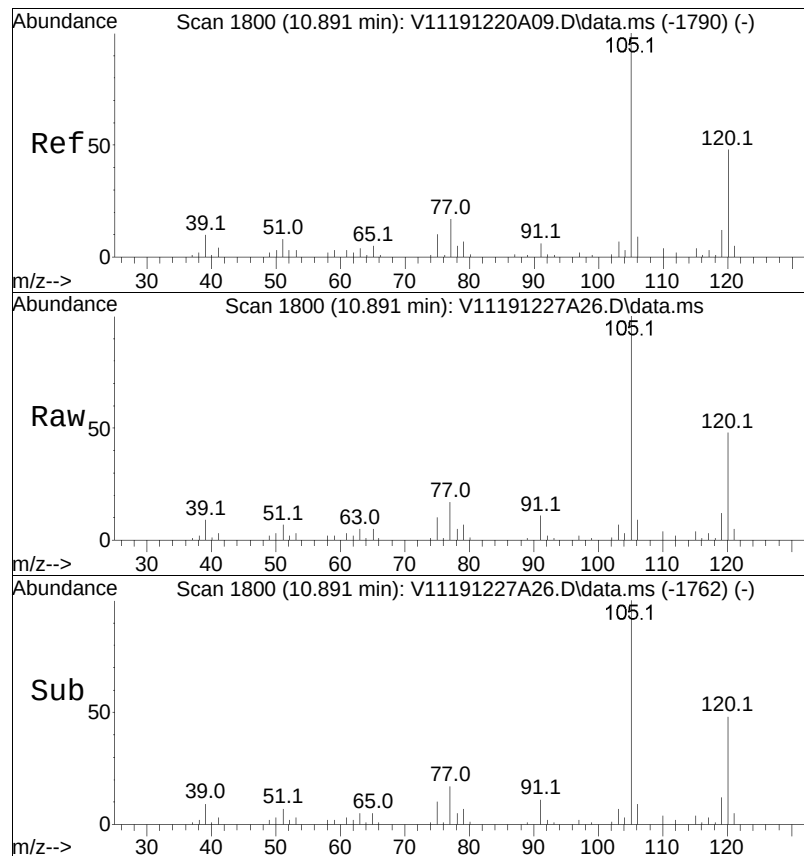




#87  
 1,1,2,2-Tetrachloroethane  
 Concen: 66.38 ug/L  
 RT: 10.739 min Scan# 1771  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

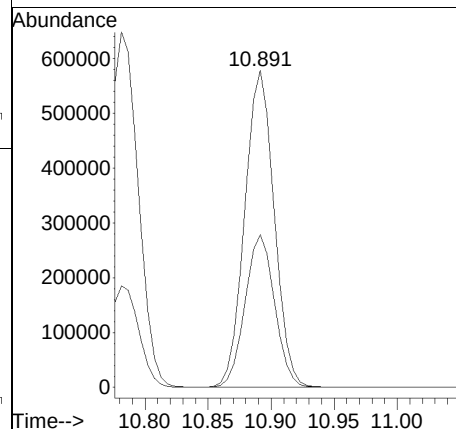
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.1   | 0.0   | 30.1  |
| 85      | 63.4  | 45.8  | 85.8  |

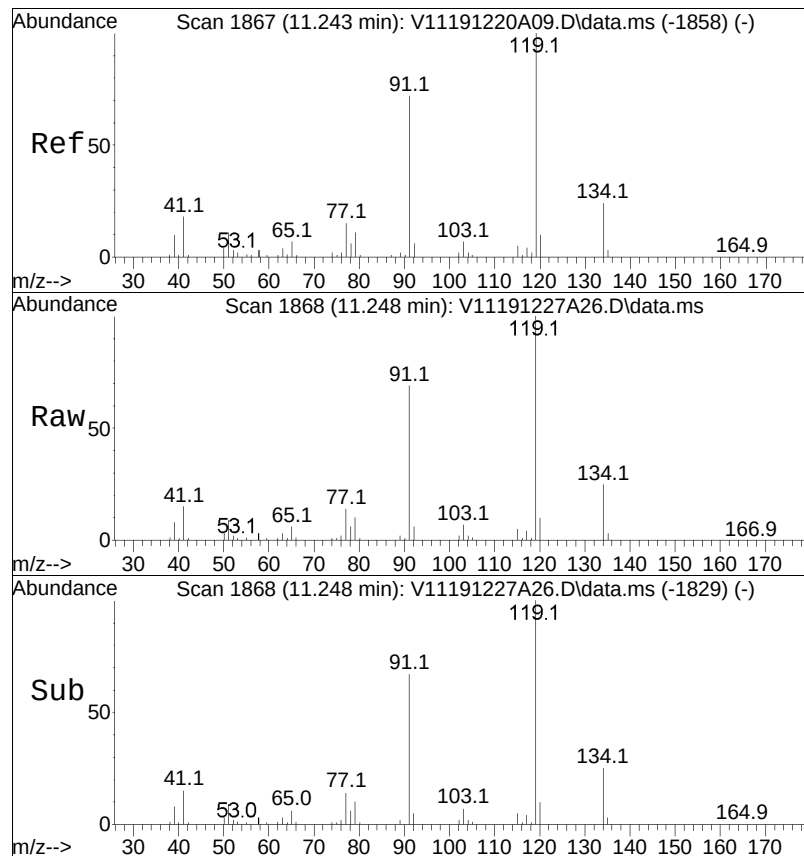




#90  
 1,3,5-Trimethylbenzene  
 Concen: 64.38 ug/L  
 RT: 10.891 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

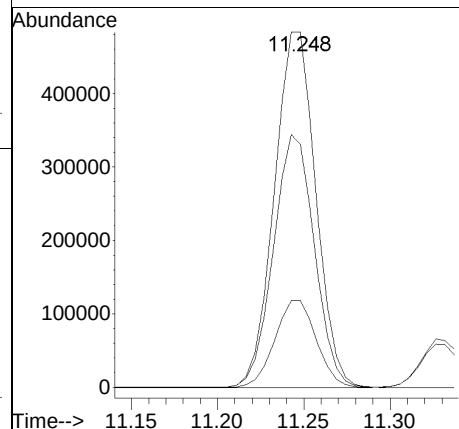
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 120 | 48.3 | 39.8  | 59.8  |       |

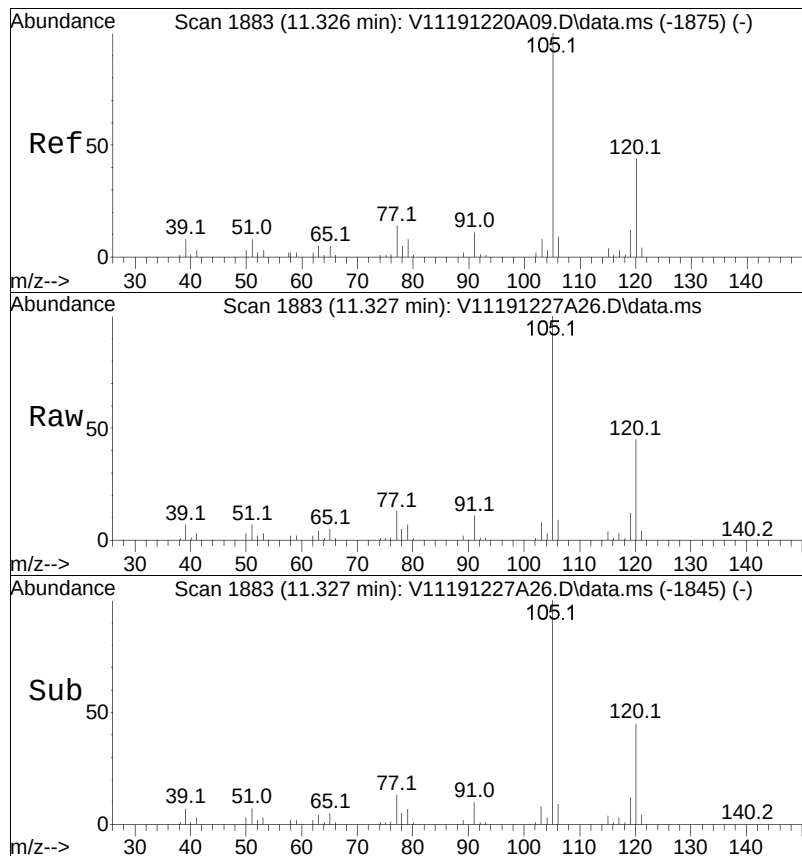




#94  
 tert-Butylbenzene  
 Concen: 68.96 ug/L  
 RT: 11.248 min Scan# 1868  
 Delta R.T. 0.005 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

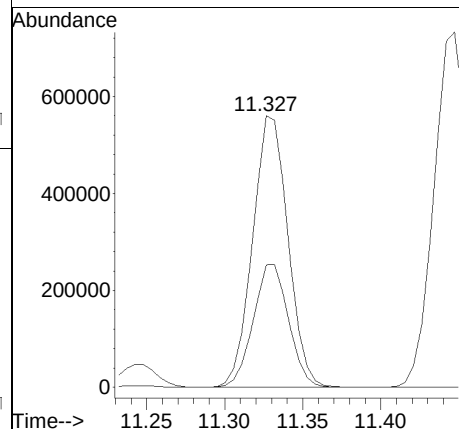
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:119 | Resp: | 807527 |
| Ion | Ratio   | Lower | Upper  |
| 119 | 100     |       |        |
| 91  | 70.2    | 53.0  | 79.4   |
| 134 | 24.5    | 19.8  | 29.6   |

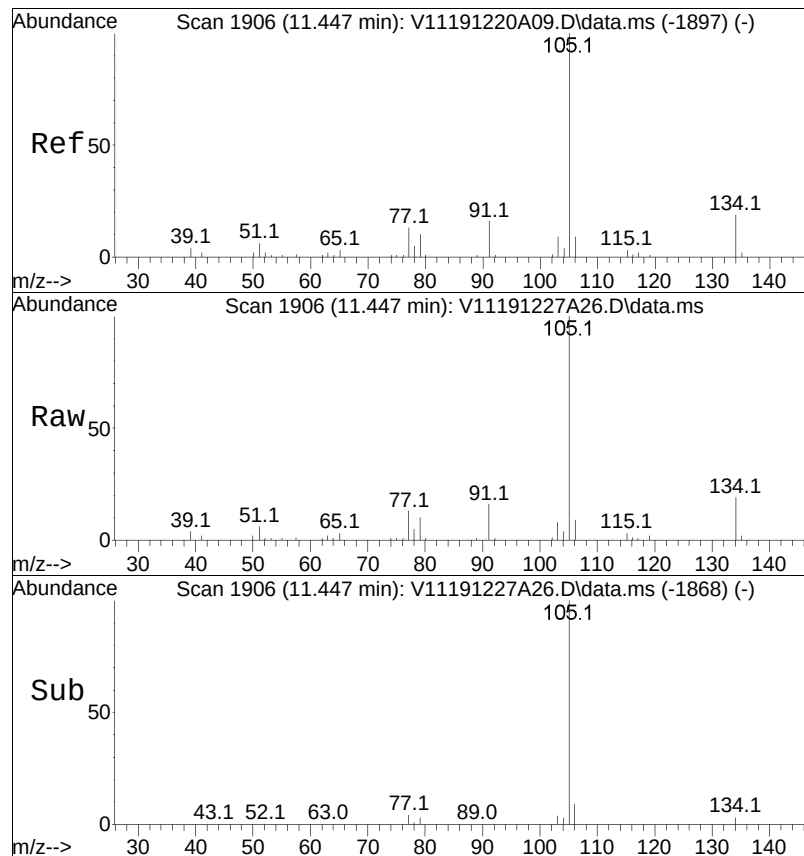




#97  
 1,2,4-Trimethylbenzene  
 Concen: 61.67 ug/L  
 RT: 11.327 min Scan# 1883  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

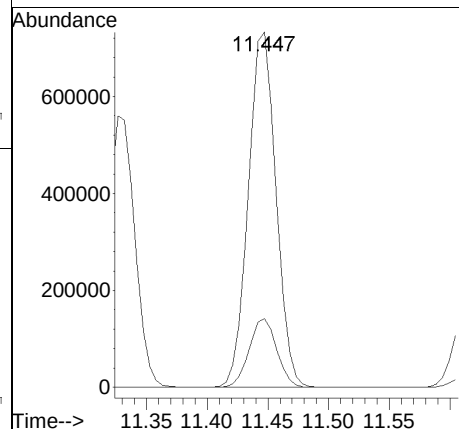
| Tgt Ion | 105  | 120 | Ratio | Lower | Upper |
|---------|------|-----|-------|-------|-------|
| 105     | 100  |     |       |       |       |
| 120     | 45.3 |     | 37.4  | 56.0  |       |

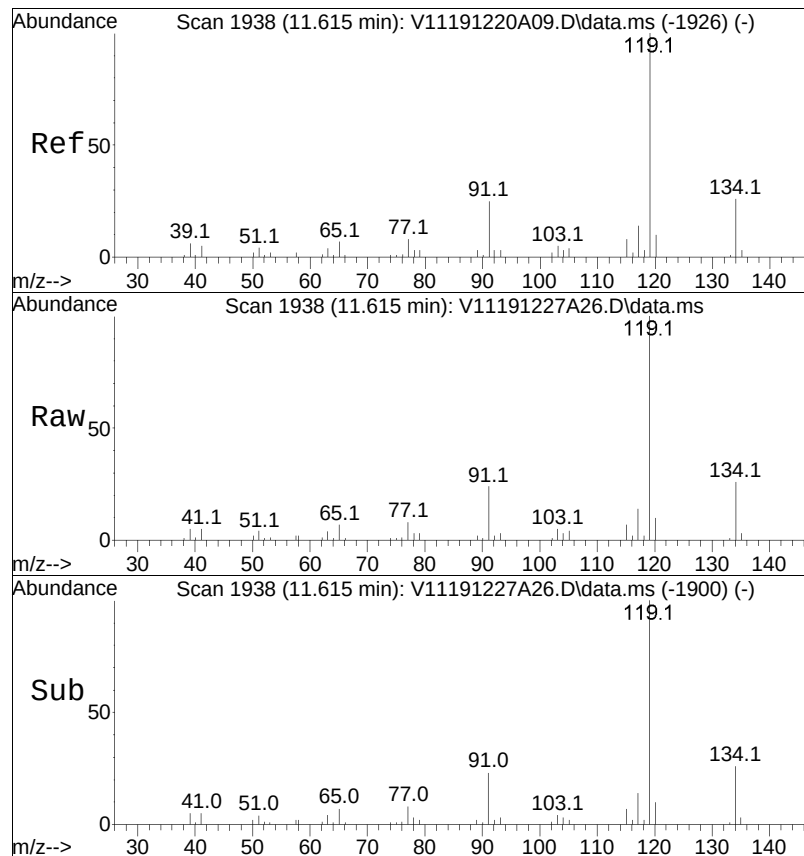




#98  
 sec-Butylbenzene  
 Concen: 63.71 ug/L  
 RT: 11.447 min Scan# 1906  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

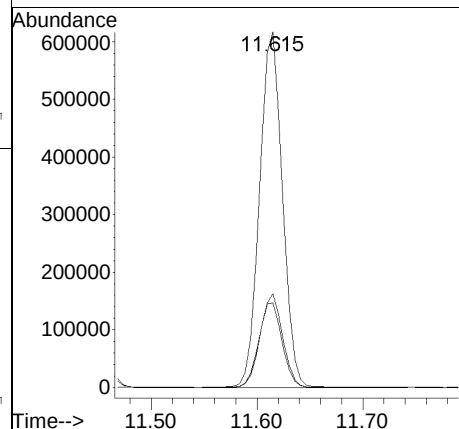
Tgt Ion:105 Resp: 1162855  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 13.2 27.4



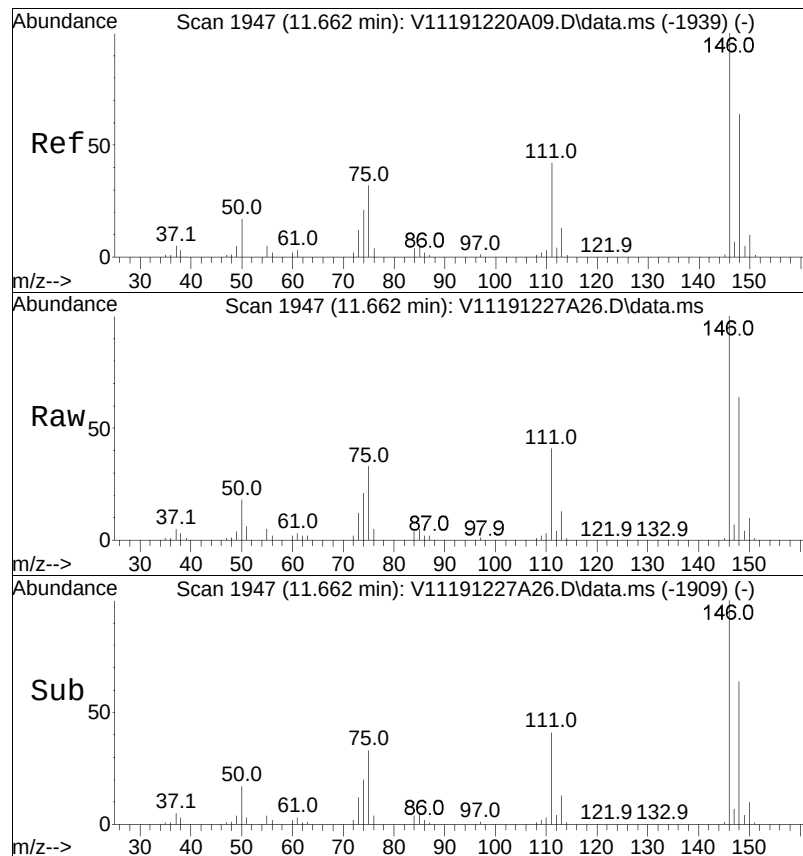


#99  
 p-Isopropyltoluene  
 Concen: 63.41 ug/L  
 RT: 11.615 min Scan# 1938  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.8  | 17.1  | 35.5  |
| 91      | 24.3  | 15.3  | 31.9  |

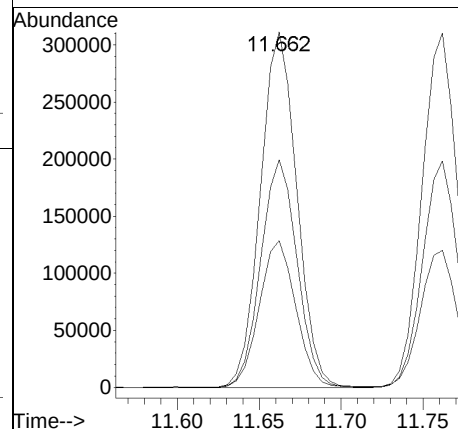


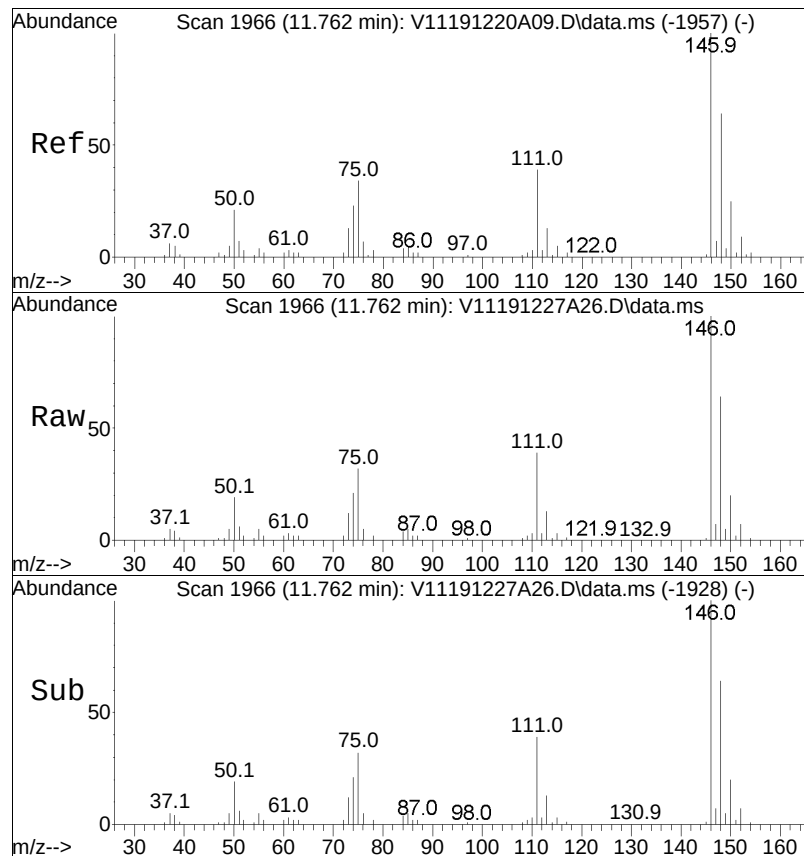




#100  
 1,3-Dichlorobenzene  
 Concen: 54.30 ug/L  
 RT: 11.662 min Scan# 1947  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

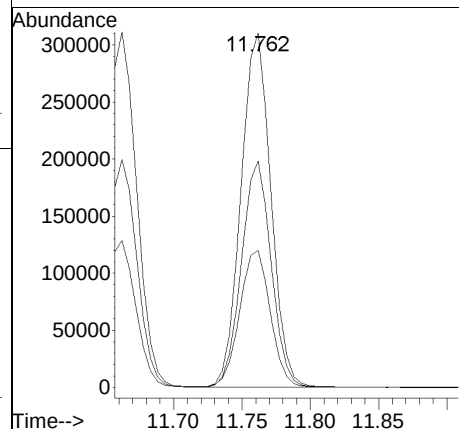
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 25.6  | 53.2  |
| 148     | 63.9  | 41.3  | 85.9  |

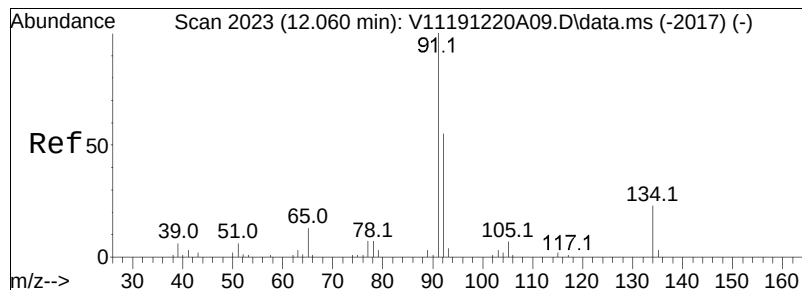




#101  
 1,4-Dichlorobenzene  
 Concen: 52.37 ug/L  
 RT: 11.762 min Scan# 1966  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

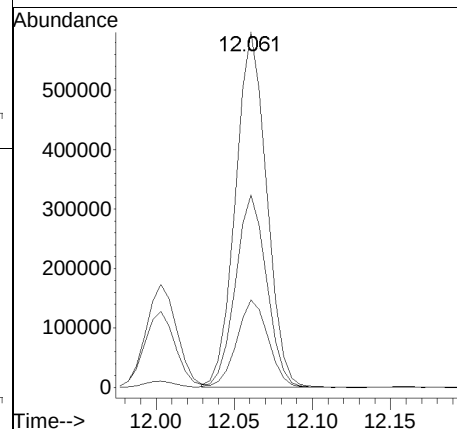
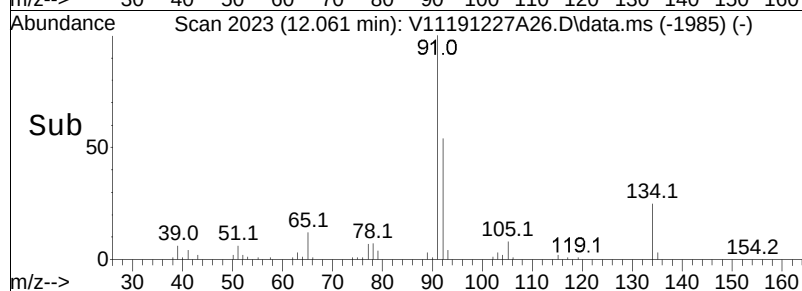
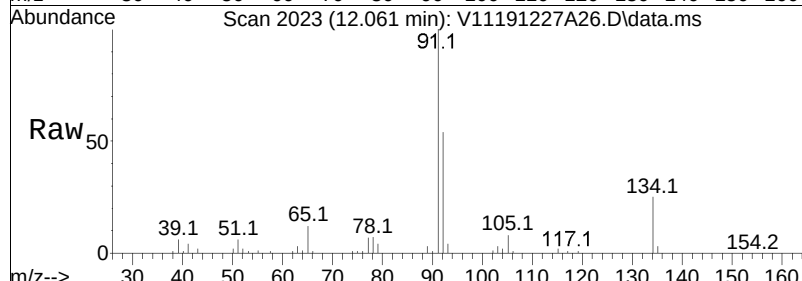
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 31.4  | 47.0  |
| 148     | 63.8  | 50.7  | 76.1  |

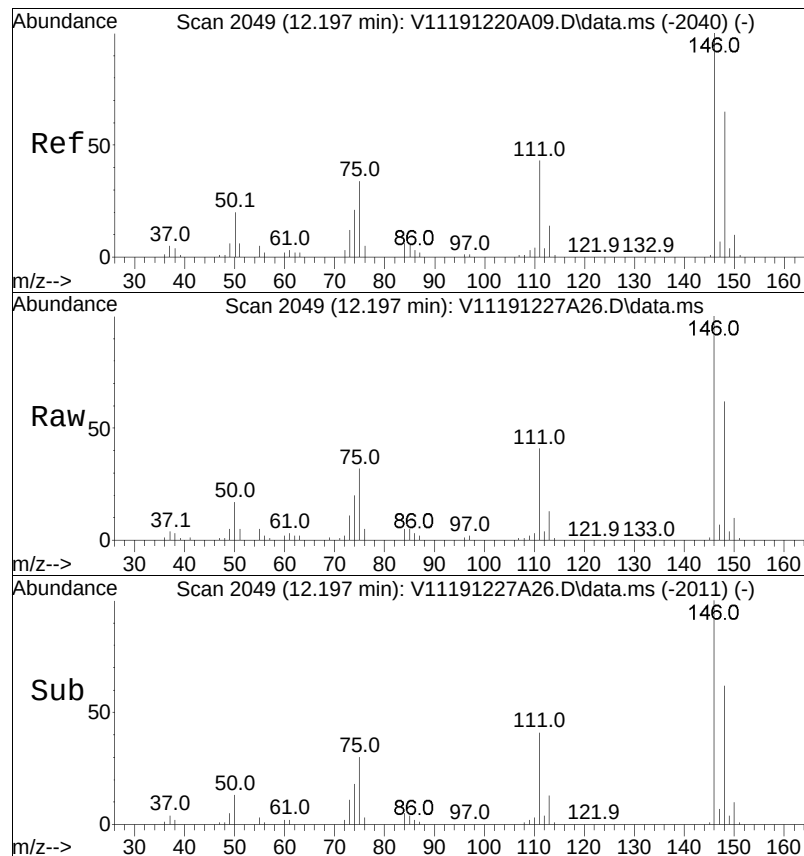




#103  
 n-Butylbenzene  
 Concen: 54.07 ug/L  
 RT: 12.061 min Scan# 2023  
 Delta R.T. 0.001 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

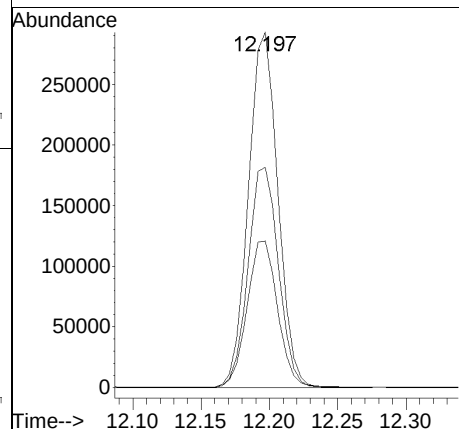
| Tgt Ion:  | 91    | Resp: | 827734 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.4  | 43.3  | 64.9   |
| 134       | 24.8  | 21.4  | 32.0   |

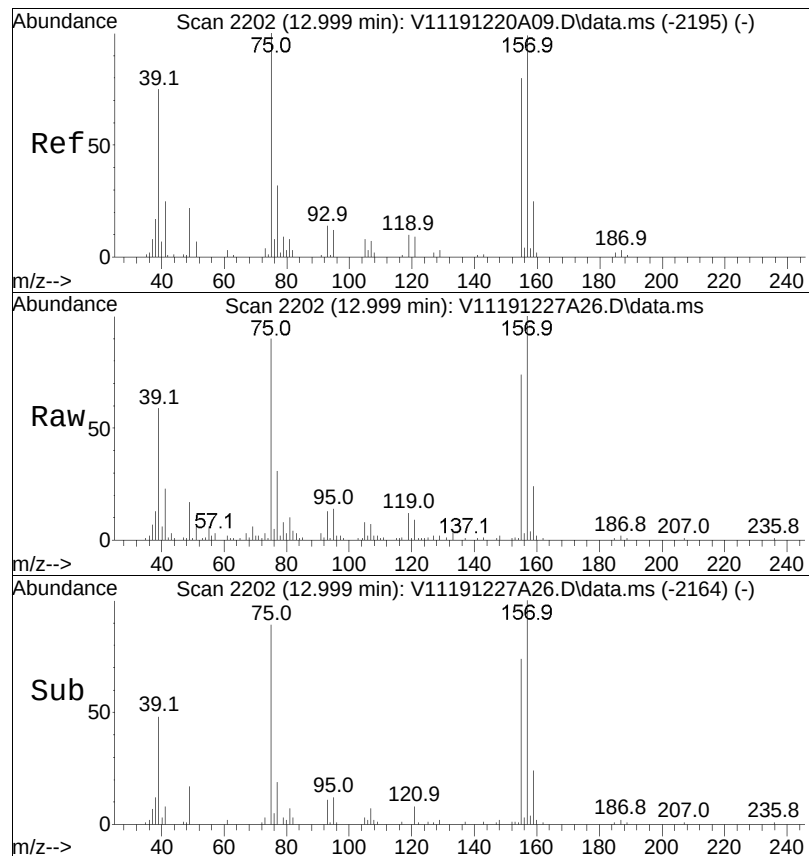




#104  
 1,2-Dichlorobenzene  
 Concen: 54.42 ug/L  
 RT: 12.197 min Scan# 2049  
 Delta R.T. -0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

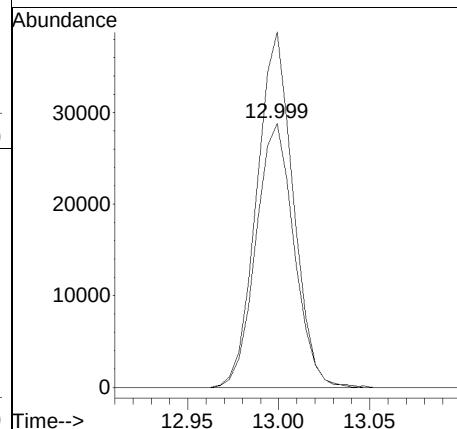
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.8  | 26.9  | 55.9  |
| 148     | 63.6  | 41.2  | 85.6  |

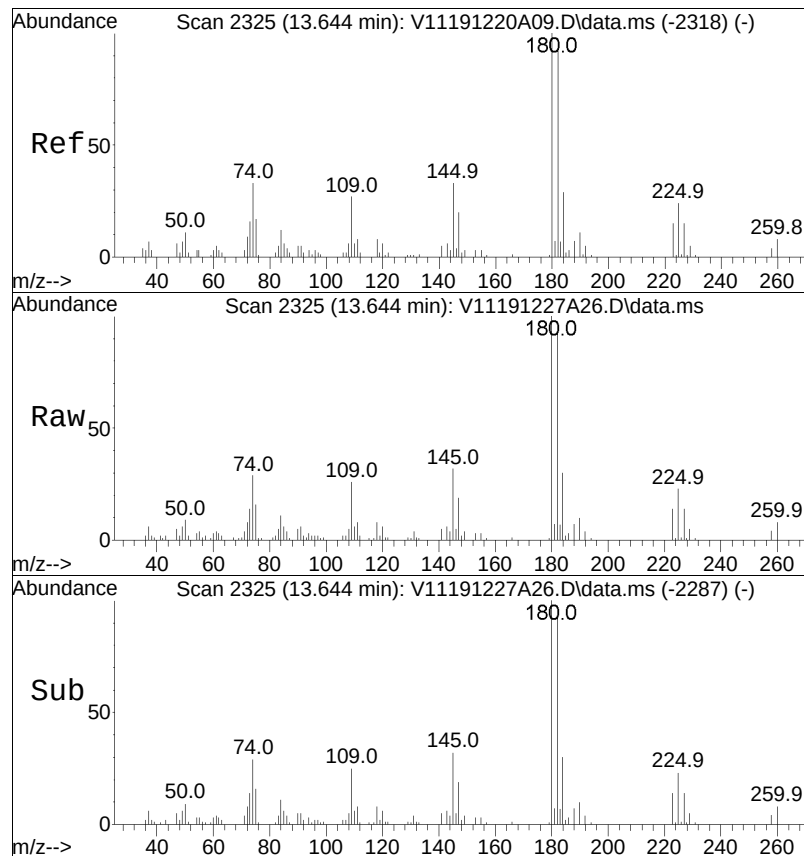




#106  
 1,2-Dibromo-3-chloropropane  
 Concen: 72.12 ug/L  
 RT: 12.999 min Scan# 2202  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

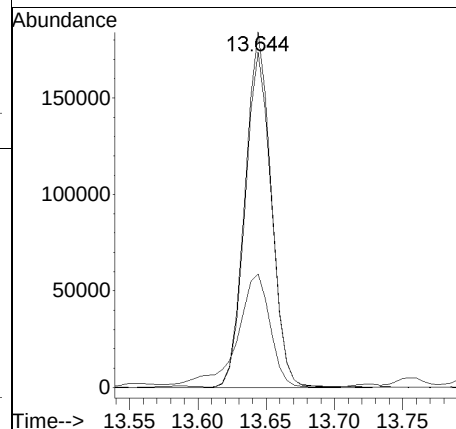
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 155     | 100   |       |       |
| 157     | 128.5 | 100.0 | 150.0 |

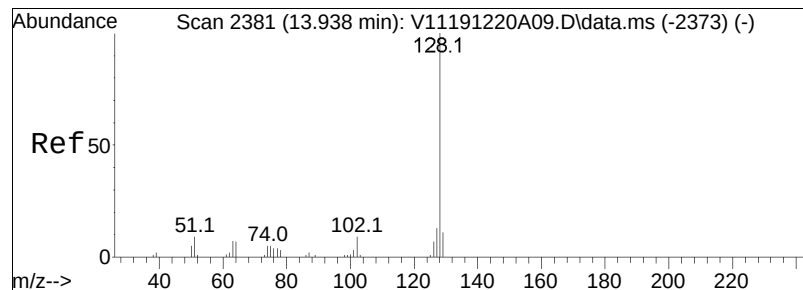




#109  
 1,2,4-Trichlorobenzene  
 Concen: 47.57 ug/L  
 RT: 13.644 min Scan# 2325  
 Delta R.T. 0.000 min  
 Lab File: V11191227A26.D  
 Acq: 27 Dec 2019 03:50 pm

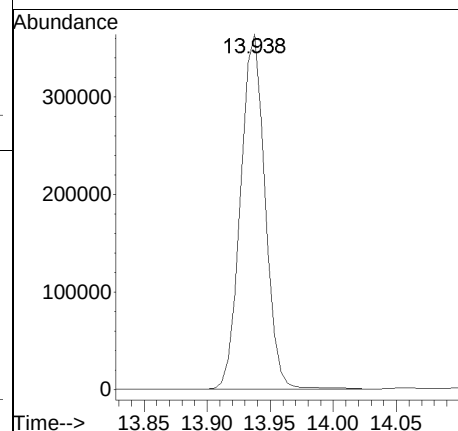
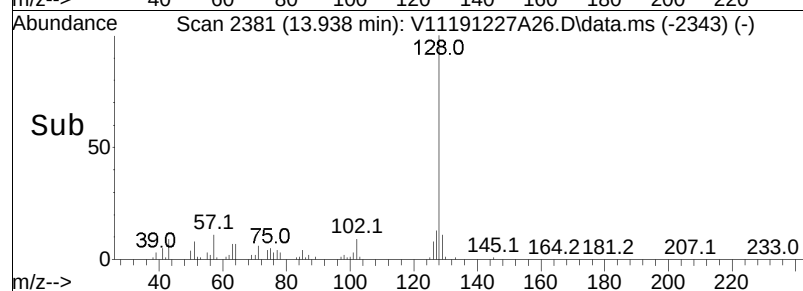
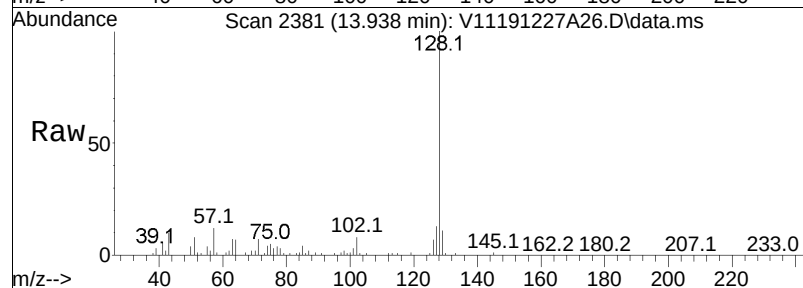
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.2  | 75.8  | 113.6 |
| 145     | 40.1  | 29.6  | 44.4  |





#110  
Naphthalene  
Concen: 48.37 ug/L  
RT: 13.938 min Scan# 2381  
Delta R.T. -0.000 min  
Lab File: V11191227A26.D  
Acq: 27 Dec 2019 03:50 pm

Tgt Ion:128 Resp: 492299



# Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2019\1QMethod : V111\_191220A\_8260.m  
Data File : V11191227A26.D Operator : VOA111:JC  
Date Inj'd : 12/27/2019 3:50 pm Instrument : VOA111  
Sample : WG1325768-7,31,8.16,5,,b2 Quant Date : 12/30/2019 9:39 am

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





## **Calculation of Volatile Organic Compounds**

Aqueous Concentration Formula:  $Amt * DF * Uf * (1/Vo)$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula:  $Amt * DF * (1/Wt)$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)

## ALPHA ANALYTICAL LABORATORIES, INC.

## Alpha WORK GROUP REPORT (wk02)

Dec 30 2019, 01:56 pm

Work Group: WG1325623 for Department: 31 GC/MS - Volatiles

Created: 29-DEC-19 Due: Operator: jc

| Sample      | Client ID              | C Product          | Matrix | Stat | UA | HOLD | DUE  | PR | Location   |
|-------------|------------------------|--------------------|--------|------|----|------|------|----|------------|
| L1961284-01 | TANK-EAST-122019 (10') | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  | 0103 | 1230 | S0 | 8260SET    |
| L1961422-01 | E4-P1                  | S NYTCL-8260-R2    | SOIL   | SEC  | U  | 0106 | 1231 | S0 | Vial-Large |
| L1961422-02 | E4-P2                  | S NYTCL-8260-R2    | SOIL   | SEC  | U  | 0106 | 1231 | S0 | Vial-Large |
| L1961422-03 | B4-P1                  | S NYTCL-8260-R2    | SOIL   | SEC  | U  | 0106 | 1231 | S0 | Vial-Large |
| L1961422-04 | B4-P2                  | S NYTCL-8260-R2    | SOIL   | SEC  | U  | 0106 | 1231 | S0 | Vial-Large |
| L1961422-05 | B3-P                   | S NYTCL-8260-R2    | SOIL   | SEC  | U  | 0106 | 1231 | S0 | Vial-Large |
| L1961572-01 | SB-6 6-8FT             | S NYTCL-8260-R2    | SOIL   | SEC  | U  | 0106 | 0102 | S0 | Vial-Large |
| L1961830-01 | FILL 1 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-02 | FILL 2 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-03 | FILL 3 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-04 | FILL 4 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-05 | FILL 5 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-06 | FILL 6 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-07 | FILL 7 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-08 | FILL 8 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| L1961830-09 | FILL 9 DISCRETE        | S NYTCL-8260HLW    | SOIL   | DONE | U  | 0110 | 1231 | 1B | 8260SET    |
| WG1325623-1 | MS BFB Tune Standard   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-1 | MS BFB Tune Standard   | S NYTCL-8260-R2    | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-1 | MS BFB Tune Standard   | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-2 | Continuing Calibrati   | S NYTCL-8260-R2    | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-2 | Continuing Calibrati   | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-2 | Continuing Calibrati   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-3 | Laboratory Control S   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-3 | Laboratory Control S   | S NYTCL-8260HLW    | SOIL   | DACQ | U  |      |      |    |            |
| WG1325623-3 | Laboratory Control S   | S NYTCL-8260-R2    | SOIL   | DACQ | U  |      |      |    |            |
| WG1325623-4 | LCS Duplicate          | S NYTCL-8260-R2    | SOIL   | DACQ | U  |      |      |    |            |
| WG1325623-4 | LCS Duplicate          | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-4 | LCS Duplicate          | S NYTCL-8260HLW    | SOIL   | DACQ | U  |      |      |    |            |
| WG1325623-5 | Laboratory Method Bl   | S NYTCL-8260-R2    | SOIL   | DACQ | U  |      |      |    |            |
| WG1325623-5 | Laboratory Method Bl   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |            |
| WG1325623-5 | Laboratory Method Bl   | S NYTCL-8260HLW    | SOIL   | DACQ | U  |      |      |    |            |
| Comments:   |                        |                    |        |      |    |      |      |    |            |
| WG1325623-4 | WG1325623-3            |                    |        |      |    |      |      |    |            |

## ALPHA ANALYTICAL LABORATORIES, INC.

## Alpha WORK GROUP REPORT (wk02)

Dec 30 2019, 01:56 pm

Work Group: WG1325768 for Department: 31 GC/MS - Volatiles

Created: 30-DEC-19 Due: Operator: jc

| Sample                             | Client ID   | C Product          | Matrix | Stat | UA | HOLD | DUE  | PR | Location |
|------------------------------------|-------------|--------------------|--------|------|----|------|------|----|----------|
| L1961284-05 TANK-NORTH-122019 (8') |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  | 0103 | 1230 | S0 | 8260SET  |
| L1961394-05 WC-15 (3-5)            |             | S NYTCL-8260HLW    | SOIL   | SEC  | U  | 0106 | 1231 | S0 | 8260SET  |
| WG1325768-1 MS BFB Tune Standard   |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-1 MS BFB Tune Standard   |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-2 Continuing Calibrati   |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-2 Continuing Calibrati   |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-3 Laboratory Control S   |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-3 Laboratory Control S   |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-4 LCS Duplicate          |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-4 LCS Duplicate          |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-5 Laboratory Method Bl   |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-5 Laboratory Method Bl   |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-6 Matrix Spike           |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-6 Matrix Spike           |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-7 Matrix Spike Duplica   |             | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325768-7 Matrix Spike Duplica   |             | S NYTCL-8260HLW    | SOIL   | DONE | U  |      |      |    |          |
| Comments:                          |             |                    |        |      |    |      |      |    |          |
| WG1325768-4                        | WG1325768-3 |                    |        |      |    |      |      |    |          |
| WG1325768-6                        | L1961284-05 |                    |        |      |    |      |      |    |          |
| WG1325768-7                        | L1961284-05 |                    |        |      |    |      |      |    |          |

## ALPHA ANALYTICAL LABORATORIES, INC.

## Alpha WORK GROUP REPORT (wk02)

Dec 30 2019, 01:56 pm

Work Group: WG1325770 for Department: 31 GC/MS - Volatiles

Created: 30-DEC-19 Due: Operator: jc

| Sample      | Client ID             | C Product          | Matrix | Stat | UA | HOLD | DUE  | PR | Location |
|-------------|-----------------------|--------------------|--------|------|----|------|------|----|----------|
| L1961284-02 | TANK-BOT-122019 (11') | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  | 0103 | 1230 | S0 | 8260SET  |
| L1961284-03 | TANK-WEST-122019 (8') | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  | 0103 | 1230 | S0 | 8260SET  |
| L1961284-06 | DUP-01-122019         | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  | 0103 | 1230 | S0 | 8260SET  |
| WG1325770-1 | MS BFB Tune Standard  | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325770-2 | Continuing Calibrati  | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325770-3 | Laboratory Control S  | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325770-4 | LCS Duplicate         | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| WG1325770-5 | Laboratory Method Bl  | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |      |    |          |
| Comments:   |                       |                    |        |      |    |      |      |    |          |
| WG1325770-4 | WG1325770-3           |                    |        |      |    |      |      |    |          |

## ALPHA ANALYTICAL LABORATORIES, INC.

## Alpha WORK GROUP REPORT (wk02)

Dec 30 2019, 01:56 pm

Work Group: WG1325794 for Department: 31 GC/MS - Volatiles

Created: 30-DEC-19 Due: Operator: jc

| Sample      | Client ID              | C Product          | Matrix | Stat | UA | HOLD | DUE       | PR | Location |
|-------------|------------------------|--------------------|--------|------|----|------|-----------|----|----------|
| L1961284-04 | TANK-SOUTH-122019 (8') | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      | 0103 1230 | S0 | 8260SET  |
| WG1325794-1 | MS BFB Tune Standard   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |           |    |          |
| WG1325794-2 | Continuing Calibrati   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |           |    |          |
| WG1325794-3 | Laboratory Control S   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |           |    |          |
| WG1325794-4 | LCS Duplicate          | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |           |    |          |
| WG1325794-5 | Laboratory Method Bl   | S NYTCL-8260HLW-R2 | SOIL   | DONE | U  |      |           |    |          |
| Comments:   |                        |                    |        |      |    |      |           |    |          |
| WG1325794-4 | WG1325794-3            |                    |        |      |    |      |           |    |          |

Inst: CHARLIE  
Initials: AJK  
Date: 12/11/19  
Run: N

BFB V7601  
IS/SS: V7661  
ICAL: V7643,V7637D  
ICV: V7662,V7639,V7663,V7664,V7596,V7613

Method  
GC: 8260  
Autosampler: 8260soil  
Concentrator: 8260



QC: \_\_\_\_\_ Seq: \_\_\_\_\_

| VIAL | DATA FILE   | SAMPLE         |
|------|-------------|----------------|
| 1    | VC191211BF1 | BFBTUNE        |
| 1    | VC191211BF2 | BFBTUNE        |
| 1    | VC191211BF3 | BFBTUNE        |
| 1    | VC191211N01 | BLNK           |
| 2    | VC191211N02 | BLNK           |
| 3    | VC191211N03 | I8260STD0.5PPB |
| 4    | VC191211N04 | I8260STD1PPB   |
| 5    | VC191211N05 | I8260STD2PPB   |
| 6    | VC191211N06 | I8260STD4PPB   |
| 7    | VC191211N07 | I8260STD20PPB  |
| 8    | VC191211N08 | I8260STD40PPB  |
| 9    | VC191211N09 | I8260STD100PPB |
| 10   | VC191211N10 | I8260STD200PPB |
| 11   | VC191211N11 | I8260STD300PPB |
| 12   | VC191211N12 | BLNK           |
| 13   | VC191211N13 | BLNK           |
| 14   | VC191211N14 | BLNK           |
| 15   | VC191211N15 | C8260STD40PPB  |

Inst: VOA111      BFB V7601  
Initials: TAB      IS/SS: V7659  
Date: **12/20/19**      ICAL: V7643,V7678A  
Run: **A**      ICV: V7662,V7639,V7663,V7664,V7676,V7613

Method  
GC: 8260  
Autosampler: 8260soil  
Concentrator: 8260



QC: \_\_\_\_\_ Seq: \_\_\_\_\_

| Vial | Data File    | Sample         |
|------|--------------|----------------|
| 1    | V11191220A01 | BFB TUNE       |
| 1    | V11191220A02 | BLANK          |
| 2    | V11191220A03 | BLANK          |
| 3    | V11191220A04 | I8260STD.5PPB  |
| 4    | V11191220A05 | I8260STD1PPB   |
| 5    | V11191220A06 | I8260STD2PPB   |
| 6    | V11191220A07 | I8260STD4PPB   |
| 7    | V11191220A08 | I8260STD20PPB  |
| 8    | V11191220A09 | I8260STD40PPB  |
| 9    | V11191220A10 | I8260STD100PPB |
| 10   | V11191220A11 | I8260STD200PPB |
| 11   | V11191220A12 | I8260STD300PPB |
| 12   | V11191220A13 | BLANK          |
| 13   | V11191220A14 | BLANK          |
| 14   | V11191220A15 | BLANK          |
| 15   | V11191220A16 | C8260STD40PPB  |

Inst: VOA111

BFB V7601

Initials: MV/RS

IS/SS: V7659

Date: 12/27/19

ICAL: V7643,V7678A

Run: A

ICV: V7662,V7639,V7663,V7664,V7676,V7613

Method

GC: 8260

Autosampler: 8260soil

Concentrator: 8260



QC: \_\_\_\_\_ Seq: \_\_\_\_\_

| Vial | Data File    | Sample                           |             |
|------|--------------|----------------------------------|-------------|
| 1    | V11191227BF2 | BFB TUNE                         |             |
| 1    | V11191227A01 | 8260 CCAL A                      |             |
| 2    | V11191227A02 | 8260 CCAL A                      |             |
| 3    | V11191227A03 | 8260 CCAL A                      |             |
| 4    | V11191227A04 | BLK                              |             |
| 5    | V11191227A05 | MEOH BLK                         |             |
| 6    | V11191227A06 | I1961284-05,31H,6.50,5,0.100,,a  | NY/H CURVE* |
| 7    | V11191227A07 | I1961394-05R,31,2.11,5,,z        | NYHLW       |
| 8    | V11191227A08 | I1961090-02R,31,5.81,5,,z        | PAHLW       |
| 9    | V11191227A09 | I1961059-01,31H,5.70,5,0.100,,a  | PA/H        |
| 10   | V11191227A10 | I1961284-03D,31H,6.29,5,0.025,,a | NY/H CURVE* |
| 11   | V11191227A11 | I1961059-01R,31,6.24,5,,c        | PAHLW       |
| 12   | V11191227A12 | I1961284-02D,31H,6.62,5,0.050,,a | NY/H CURVE* |
| 13   | V11191227A13 | I1961284-04D,31H,7.02,5,0.050,,a | NY/H CURVE* |
| 14   | V11191227A14 | I1961284-06D,31H,6.39,5,0.025,,a | NY/H CURVE* |
| 15   | V11191227A15 | I1961284-05,31,7.20,5,,b         | NYHLW CURVE |
| 16   | V11191227A16 | I1961390-01,31,5.15,5,,b         | PAHLW       |
| 17   | V11191227A17 | I1961390-02,31,4.65,5,,b         | PAHLW       |
| 18   | V11191227A18 | I1961390-03,31,4.96,5,,b         | PAHLW       |
| 19   | V11191227A19 | I1961474-01,31,5.03,5,,b         | NJHLW TBA   |
| 20   | V11191227A20 | I1961474-03,31,4.60,5,,b         | NJHLW TBA   |
| 21   | V11191227A21 | I1961474-05,31,5.17,5,,b         | NJHLW TBA   |
| 22   | V11191227A22 | I1961474-07,31,5.44,5,,b         | NJHLW TBA   |
| 23   | V11191227A23 | I1961474-09,31,5.06,5,,b         | NJHLW TBA   |
| 24   | V11191227A24 | I1961474-11,31,4.62,5,,b         | NJHLW TBA   |
| 25   | V11191227A25 | I1961284-05MS,31,7.99,5,,b1      | NYHLW CURVE |
| 26   | V11191227A26 | I1961284-05MSD,31,8.16,5,,b2     | NYHLW CURVE |
| 27   | V11191227A27 | I1961284-04D,31H,7.02,5,0.005,,a | NY/H CURVE* |



Inst: CHARLIE  
 Initials: JAL  
 Date: 12/28/19  
 Run: A

BFB V7601  
 IS/SS: V7661  
 ICAL: V7643,V7678A  
 ICV: V7662,V7639,V7663,V7664,V7596,V7613

Method  
 GC: 8260  
 Autosampler: 8260soil  
 Concentrator: 8260



QC: \_\_\_\_\_ Seq: \_\_\_\_\_

| VIAL | DATA FILE   | SAMPLE                                        |
|------|-------------|-----------------------------------------------|
| 1    | VC191228BF1 | BFBTUNE                                       |
| 1    | VC191228A01 | 8260 CCAL A                                   |
| 2    | VC191228A02 | 8260 CCAL A                                   |
| 3    | VC191228A03 | 8260 CCAL A                                   |
| 4    | VC191228A04 | BLNK                                          |
| 5    | VC191228A05 | MEOH BLNK                                     |
| 6    | VC191228A06 | I1961284-01,31,6.84,5,,b NYHLW CURVE+10       |
| 7    | VC191228A07 | I1961830-01,31,5.54,5,,b NYHLW                |
| 8    | VC191228A08 | I1961830-02,31,3.14,5,,b NYHLW                |
| 9    | VC191228A09 | I1961830-03,31,5.68,5,,b NYHLW                |
| 10   | VC191228A10 | I1961830-04,31,3.70,5,,b NYHLW                |
| 11   | VC191228A11 | I1961830-05,31,3.34,5,,b NYHLW                |
| 12   | VC191228A12 | I1961830-06,31,3.07,5,,b NYHLW                |
| 13   | VC191228A13 | I1961830-07,31,5.08,5,,b NYHLW                |
| 14   | VC191228A14 | I1961830-08,31,4.52,5,,b NYHLW                |
| 15   | VC191228A15 | I1961830-09,31,4.83,5,,b NYHLW                |
| 16   | VC191228A16 | I1961422-01,31,6.08,5,,y NYTCL CURVE          |
| 17   | VC191228A17 | I1961422-02,31,5.09,5,,z NYTCL CURVE          |
| 18   | VC191228A18 | I1961422-03,31,5.60,5,,y NYTCL CURVE          |
| 19   | VC191228A19 | I1961422-04,31,5.36,5,,y NYTCL CURVE          |
| 20   | VC191228A20 | I1961422-05,31,5.30,5,,y NYTCL CURVE          |
| 21   | VC191228A21 | I1961572-01,31,5.86,5,,y NYTCL CURVE          |
| 22   | VC191228A22 | I1961572-02,31H,5.03,5,0.100,,x NYTCL/H CURVE |
| 23   | VC191228A23 | I1960654-01,31H,4.98,15,0.100,,a NY/H         |
| 24   | VC191228A24 | I1961595-01,31,7.20,5,,b PA/LW BTEX           |
| 25   | VC191228A25 | I1961178-02,31H,3.23,5,0.100,,a NY/H          |
| 26   | VC191228A26 | STD                                           |

Inst: VOA111

BFB V7601

Initials: RS

IS/SS: V7659

Date: 12/30/19

ICAL: V7643,V7678A

Run: A

ICV: V7662,V7639,V7663,V7664,V7676,V7613

Method

GC: 8260

Autosampler: 8260soil

Concentrator: 8260



QC: \_\_\_\_\_ Seq: \_\_\_\_\_

| Vial | Data File    | Sample                                         |
|------|--------------|------------------------------------------------|
| 1    | V11191230BF1 | BFB TUNE                                       |
| 1    | V11191230A01 | 8260 CCAL A                                    |
| 2    | V11191230A02 | 8260 CCAL A                                    |
| 3    | V11191230A03 | 8260 CCAL A                                    |
| 4    | V11191230A04 | BLK                                            |
| 5    | V11191230A05 | MEOH BLK                                       |
| 6    | V11191230A06 | I1961613-01,31H,15.23,15,0.100,,a M/HIGH       |
| 7    | V11191230A07 | I1961619-07D,31H,16.00,15,0.050,,a M/H         |
| 8    | V11191230A08 | I1961541-01,31,4.65,5,,c MLW                   |
| 9    | V11191230A09 | I1961619-08,31,5.67,5,,b MLW                   |
| 10   | V11191230A10 | I1961687-01,31,5.49,5,,b MLW                   |
| 11   | V11191230A11 | I1961687-02,31,6.64,5,,b MLW                   |
| 12   | V11191230A12 | I1961687-03,31,5.69,5,,b MLW                   |
| 13   | V11191230A13 | I1961284-04D,31H,7.02,5,0.050,,a NYTCL/H CURVE |
| 14   | V11191230A14 | I1961687-06,31,4.58,5,,b MLW                   |
| 15   | V11191230A15 | I1961772-05,31,10.81,5,,b MLW                  |
| 16   | V11191230A16 | I1961858-03,31H,16.15,15,0.100,,a M/H          |
| 17   | V11191230A17 | I1961858-01,31,5.08,5,,b MLW                   |
| 18   | V11191230A18 | I1961858-05,31,7.42,5,,b MLW                   |
| 19   | V11191230A19 | I1961858-06,31,6.05,5,,b MLW                   |
| 20   | V11191230A20 | I1961858-08,31,6.03,5,,b MLW                   |
| 21   | V11191230A21 | I1961858-09,31,4.27,5,,b MLW                   |
| 22   | V11191230A22 | BLNK                                           |
| 23   | V11191230A23 | STD                                            |

## **Semivolatiles Data- Method 8270D**

## **Semivolatiles QC Summary**

# Surrogate Recovery Summary

## Form 2

### Semivolatiles

Client: LaBella Associates, P.C.  
Project Name: FORMER WOLLENSACK OPTICAL

Lab Number: L1961284  
Project Number: 2182207  
Matrix: Soil

| CLIENT ID<br>(LAB SAMPLE NO.)         | S1<br>(2FP) | S2<br>(PHL) | S3<br>(NBZ) | S4<br>(FBP) | S5<br>(TBP) | S6<br>(TPH) | TOT<br>OUT |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| TANK-EAST-122019 (10') (L1961284-01)  | 79          | 80          | 73          | 74          | 92          | 68          | 0          |
| TANK-BOT-122019 (11') (L1961284-02)   | 82          | 85          | 78          | 68          | 105         | 69          | 0          |
| TANK-WEST-122019 (8') (L1961284-03D)  | 87          | 91          | 133*        | 101         | 92          | 98          | 1          |
| TANK-SOUTH-122019 (8') (L1961284-04D) | 90          | 91          | 94          | 93          | 93          | 95          | 0          |
| TANK-NORTH-122019 (8') (L1961284-05)  | 93          | 94          | 80          | 78          | 116         | 76          | 0          |
| DUP-01-122019 (L1961284-06D)          | 85          | 91          | 103         | 87          | 74          | 90          | 0          |
| WG1323715-1BLANK                      | 83          | 86          | 65          | 60          | 91          | 65          | 0          |
| WG1323715-2LCS                        | 78          | 84          | 62          | 56          | 82          | 55          | 0          |
| WG1323715-3LCSD                       | 75          | 81          | 62          | 56          | 83          | 57          | 0          |
| TANK-NORTH-122019 (8')MS              | 105         | 104         | 93          | 89          | 125         | 100         | 0          |
| TANK-NORTH-122019 (8')MSD             | 96          | 99          | 89          | 89          | 122         | 94          | 0          |

#### QC LIMITS

(25-120) 2FP = 2-FLUOROPHENOL  
(10-120) PHL = PHENOL-D6  
(23-120) NBZ = NITROBENZENE-D5  
(30-120) FBP = 2-FLUOROBIPHENYL  
(10-136) TBP = 2,4,6-TRIBROMOPHENOL  
(18-120) TPH = 4-TERPHENYL-D14

\* Values outside of QC limits

FORM II NYTCL-8270



# Laboratory Control Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1323715-2      Analysis Date : 12/24/19 01:04      File ID : 323715-2  
 LCSD Sample ID : WG1323715-3      Analysis Date : 12/24/19 01:27      File ID : 323715-3

| Parameter                   | Laboratory Control Sample |               |    | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|-----------------------------|---------------------------|---------------|----|------------------------------|---------------|----|-----|-----------------|-----------|
|                             | True (ug/kg)              | Found (ug/kg) | %R | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| Acenaphthene                | 1300                      | 1000          | 76 | 1300                         | 1000          | 76 | 0   | 31-137          | 50        |
| Hexachlorobenzene           | 1300                      | 980           | 75 | 1300                         | 1000          | 77 | 3   | 40-140          | 50        |
| Bis(2-chloroethyl)ether     | 1300                      | 900           | 69 | 1300                         | 890           | 68 | 1   | 40-140          | 50        |
| 2-Chloronaphthalene         | 1300                      | 980           | 75 | 1300                         | 980           | 75 | 0   | 40-140          | 50        |
| 3,3'-Dichlorobenzidine      | 1300                      | 740           | 57 | 1300                         | 680           | 52 | 9   | 40-140          | 50        |
| 2,4-Dinitrotoluene          | 1300                      | 1100          | 86 | 1300                         | 1200          | 89 | 3   | 40-132          | 50        |
| 2,6-Dinitrotoluene          | 1300                      | 1000          | 78 | 1300                         | 1100          | 82 | 5   | 40-140          | 50        |
| Fluoranthene                | 1300                      | 960           | 73 | 1300                         | 990           | 76 | 4   | 40-140          | 50        |
| 4-Chlorophenyl phenyl ether | 1300                      | 930           | 71 | 1300                         | 930           | 72 | 1   | 40-140          | 50        |
| 4-Bromophenyl phenyl ether  | 1300                      | 940           | 72 | 1300                         | 950           | 73 | 1   | 40-140          | 50        |
| Bis(2-chloroisopropyl)ether | 1300                      | 1300          | 96 | 1300                         | 1200          | 95 | 1   | 40-140          | 50        |
| Bis(2-chloroethoxy)methane  | 1300                      | 1000          | 77 | 1300                         | 970           | 74 | 4   | 40-117          | 50        |
| Hexachlorobutadiene         | 1300                      | 860           | 65 | 1300                         | 860           | 66 | 2   | 40-140          | 50        |
| Hexachlorocyclopentadiene   | 1300                      | 630           | 48 | 1300                         | 640           | 49 | 2   | 40-140          | 50        |
| Hexachloroethane            | 1300                      | 1000          | 78 | 1300                         | 950           | 73 | 7   | 40-140          | 50        |
| Isophorone                  | 1300                      | 1000          | 80 | 1300                         | 1000          | 79 | 1   | 40-140          | 50        |
| Naphthalene                 | 1300                      | 990           | 76 | 1300                         | 1000          | 76 | 0   | 40-140          | 50        |
| Nitrobenzene                | 1300                      | 1000          | 77 | 1300                         | 970           | 74 | 4   | 40-140          | 50        |
| NDPA/DPA                    | 1300                      | 990           | 76 | 1300                         | 990           | 76 | 0   | 36-157          | 50        |
| n-Nitrosodi-n-propylamine   | 1300                      | 1000          | 79 | 1300                         | 1000          | 78 | 1   | 32-121          | 50        |
| Bis(2-ethylhexyl)phthalate  | 1300                      | 1000          | 79 | 1300                         | 1000          | 79 | 0   | 40-140          | 50        |
| Butyl benzyl phthalate      | 1300                      | 1000          | 80 | 1300                         | 1100          | 81 | 1   | 40-140          | 50        |
| Di-n-butylphthalate         | 1300                      | 1000          | 81 | 1300                         | 1000          | 81 | 0   | 40-140          | 50        |
| Di-n-octylphthalate         | 1300                      | 1000          | 78 | 1300                         | 1000          | 78 | 0   | 40-140          | 50        |
| Diethyl phthalate           | 1300                      | 1000          | 77 | 1300                         | 1000          | 79 | 3   | 40-140          | 50        |
| Dimethyl phthalate          | 1300                      | 970           | 74 | 1300                         | 980           | 75 | 1   | 40-140          | 50        |



# Laboratory Control Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1323715-2      Analysis Date : 12/24/19 01:04      File ID : 323715-2  
 LCSD Sample ID : WG1323715-3      Analysis Date : 12/24/19 01:27      File ID : 323715-3

| Parameter                  | Laboratory Control Sample |               |    | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|----------------------------|---------------------------|---------------|----|------------------------------|---------------|----|-----|-----------------|-----------|
|                            | True (ug/kg)              | Found (ug/kg) | %R | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| Benzo(a)anthracene         | 1300                      | 900           | 68 | 1300                         | 900           | 69 | 1   | 40-140          | 50        |
| Benzo(a)pyrene             | 1300                      | 880           | 67 | 1300                         | 910           | 70 | 4   | 40-140          | 50        |
| Benzo(b)fluoranthene       | 1300                      | 900           | 68 | 1300                         | 930           | 71 | 4   | 40-140          | 50        |
| Benzo(k)fluoranthene       | 1300                      | 960           | 74 | 1300                         | 990           | 76 | 3   | 40-140          | 50        |
| Chrysene                   | 1300                      | 920           | 70 | 1300                         | 930           | 71 | 1   | 40-140          | 50        |
| Acenaphthylene             | 1300                      | 1000          | 76 | 1300                         | 1000          | 78 | 3   | 40-140          | 50        |
| Anthracene                 | 1300                      | 1000          | 78 | 1300                         | 1000          | 78 | 0   | 40-140          | 50        |
| Benzo(ghi)perylene         | 1300                      | 1000          | 80 | 1300                         | 1100          | 83 | 4   | 40-140          | 50        |
| Fluorene                   | 1300                      | 1000          | 77 | 1300                         | 1000          | 79 | 3   | 40-140          | 50        |
| Phenanthrene               | 1300                      | 960           | 74 | 1300                         | 980           | 75 | 1   | 40-140          | 50        |
| Dibenzo(a,h)anthracene     | 1300                      | 1000          | 78 | 1300                         | 1000          | 81 | 4   | 40-140          | 50        |
| Indeno(1,2,3-cd)pyrene     | 1300                      | 980           | 75 | 1300                         | 990           | 76 | 1   | 40-140          | 50        |
| Pyrene                     | 1300                      | 940           | 71 | 1300                         | 970           | 74 | 4   | 35-142          | 50        |
| Biphenyl                   | 1300                      | 990           | 76 | 1300                         | 990           | 76 | 0   | 37-127          | 50        |
| 4-Chloroaniline            | 1300                      | 780           | 60 | 1300                         | 670           | 51 | 16  | 40-140          | 50        |
| 2-Nitroaniline             | 1300                      | 1100          | 85 | 1300                         | 1100          | 88 | 3   | 47-134          | 50        |
| 3-Nitroaniline             | 1300                      | 920           | 70 | 1300                         | 830           | 64 | 9   | 26-129          | 50        |
| 4-Nitroaniline             | 1300                      | 940           | 71 | 1300                         | 950           | 73 | 3   | 41-125          | 50        |
| Dibenzofuran               | 1300                      | 1000          | 77 | 1300                         | 1000          | 77 | 0   | 40-140          | 50        |
| 2-Methylnaphthalene        | 1300                      | 1100          | 81 | 1300                         | 1000          | 78 | 4   | 40-140          | 50        |
| 1,2,4,5-Tetrachlorobenzene | 1300                      | 890           | 68 | 1300                         | 890           | 68 | 0   | 40-117          | 50        |
| Acetophenone               | 1300                      | 1000          | 78 | 1300                         | 1000          | 77 | 1   | 14-144          | 50        |
| 2,4,6-Trichlorophenol      | 1300                      | 890           | 68 | 1300                         | 920           | 71 | 4   | 30-130          | 50        |
| p-Chloro-m-cresol          | 1300                      | 1100          | 84 | 1300                         | 1100          | 85 | 1   | 26-103          | 50        |
| 2-Chlorophenol             | 1300                      | 1000          | 81 | 1300                         | 1000          | 79 | 3   | 25-102          | 50        |
| 2,4-Dichlorophenol         | 1300                      | 1100          | 81 | 1300                         | 1000          | 80 | 1   | 30-130          | 50        |



# Laboratory Control Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.      Lab Number : L1961284  
 Project Name : FORMER WOLLENSACK OPTICAL      Project Number : 2182207  
 Matrix : SOIL  
 LCS Sample ID : WG1323715-2      Analysis Date : 12/24/19 01:04      File ID : 323715-2  
 LCSD Sample ID : WG1323715-3      Analysis Date : 12/24/19 01:27      File ID : 323715-3

| Parameter                     | Laboratory Control Sample |               |    | Laboratory Control Duplicate |               |    | RPD | Recovery Limits | RPD Limit |
|-------------------------------|---------------------------|---------------|----|------------------------------|---------------|----|-----|-----------------|-----------|
|                               | True (ug/kg)              | Found (ug/kg) | %R | True (ug/kg)                 | Found (ug/kg) | %R |     |                 |           |
| 2,4-Dimethylphenol            | 1300                      | 1000          | 81 | 1300                         | 1000          | 78 | 4   | 30-130          | 50        |
| 2-Nitrophenol                 | 1300                      | 1200          | 92 | 1300                         | 1200          | 91 | 1   | 30-130          | 50        |
| 4-Nitrophenol                 | 1300                      | 1100          | 86 | 1300                         | 1200          | 90 | 5   | 11-114          | 50        |
| 2,4-Dinitrophenol             | 1300                      | 300           | 22 | 1300                         | 320           | 25 | 13  | 4-130           | 50        |
| 4,6-Dinitro-o-cresol          | 1300                      | 880           | 68 | 1300                         | 960           | 74 | 8   | 10-130          | 50        |
| Pentachlorophenol             | 1300                      | 660           | 50 | 1300                         | 710           | 54 | 8   | 17-109          | 50        |
| Phenol                        | 1300                      | 1000          | 80 | 1300                         | 1000          | 79 | 1   | 26-90           | 50        |
| 2-Methylphenol                | 1300                      | 1100          | 83 | 1300                         | 1100          | 82 | 1   | 30-130.         | 50        |
| 3-Methylphenol/4-Methylphenol | 1300                      | 1100          | 82 | 1300                         | 1000          | 80 | 2   | 30-130          | 50        |
| 2,4,5-Trichlorophenol         | 1300                      | 1000          | 77 | 1300                         | 1000          | 78 | 1   | 30-130          | 50        |
| Carbazole                     | 1300                      | 1000          | 76 | 1300                         | 1000          | 78 | 3   | 54-128          | 50        |
| Atrazine                      | 1300                      | 880           | 67 | 1300                         | 890           | 68 | 1   | 40-140          | 50        |
| Benzaldehyde                  | 1300                      | 800           | 61 | 1300                         | 830           | 64 | 5   | 40-140          | 50        |
| Caprolactam                   | 1300                      | 1200          | 89 | 1300                         | 1200          | 92 | 3   | 15-130          | 50        |
| 2,3,4,6-Tetrachlorophenol     | 1300                      | 910           | 70 | 1300                         | 970           | 74 | 6   | 40-140          | 50        |





# Matrix Spike Sample Summary

## Form 3

### Semivolatiles

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Client Sample ID</b> : TANK-NORTH-122019 (8')<br><b>Lab Sample ID</b> : L1961284-05<br><b>Matrix Spike</b> : WG1323715-4<br><b>Matrix Spike Dup</b> : WG1323715-5 | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Matrix</b> : SOIL<br><b>Analysis Date</b> : 12/24/19 07:27<br><b>MS Analysis Date</b> : 12/24/19 06:42<br><b>MSD Analysis Date</b> : 12/24/19 07:04 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Parameter                   | Sample Conc.<br>(ug/kg) | Matrix Spike Sample    |                        |     | Matrix Spike Duplicate |                        |     | RPD | Recovery Limits | RPD Limit |
|-----------------------------|-------------------------|------------------------|------------------------|-----|------------------------|------------------------|-----|-----|-----------------|-----------|
|                             |                         | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R  | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R  |     |                 |           |
| Acenaphthene                | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 31-137          | 50        |
| Hexachlorobenzene           | ND                      | 1560                   | 1800                   | 120 | 1570                   | 1800                   | 110 | 0   | 40-140          | 50        |
| Bis(2-chloroethyl)ether     | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1300                   | 83  | 7   | 40-140          | 50        |
| 2-Chloronaphthalene         | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| 3,3'-Dichlorobenzidine      | ND                      | 1560                   | 1200                   | 77  | 1570                   | 1300                   | 83  | 8   | 40-140          | 50        |
| 2,4-Dinitrotoluene          | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1700                   | 110 | 6   | 40-132          | 50        |
| 2,6-Dinitrotoluene          | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1700                   | 110 | 6   | 40-140          | 50        |
| Fluoranthene                | 130                     | 1560                   | 1700                   | 100 | 1570                   | 1600                   | 93  | 6   | 40-140          | 50        |
| 4-Chlorophenyl phenyl ether | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| 4-Bromophenyl phenyl ether  | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1700                   | 110 | 0   | 40-140          | 50        |
| Bis(2-chloroisopropyl)ether | ND                      | 1560                   | 1200                   | 77  | 1570                   | 1100                   | 70  | 9   | 40-140          | 50        |
| Bis(2-chloroethoxy)methane  | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1400                   | 89  | 0   | 40-117          | 50        |
| Hexachlorobutadiene         | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1400                   | 89  | 13  | 40-140          | 50        |
| Hexachlorocyclopentadiene   | ND                      | 1560                   | 790                    | 51  | 1570                   | 650                    | 41  | 19  | 40-140          | 50        |
| Hexachloroethane            | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1300                   | 83  | 7   | 40-140          | 50        |
| Isophorone                  | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1400                   | 89  | 0   | 40-140          | 50        |
| Naphthalene                 | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1500                   | 95  | 6   | 40-140          | 50        |
| Nitrobenzene                | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1400                   | 89  | 0   | 40-140          | 50        |
| NDPA/DPA                    | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 36-157          | 50        |
| n-Nitrosodi-n-propylamine   | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1400                   | 89  | 0   | 32-121          | 50        |
| Bis(2-ethylhexyl)phthalate  | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1500                   | 95  | 7   | 40-140          | 50        |
| Butyl benzyl phthalate      | ND                      | 1560                   | 1700                   | 110 | 1570                   | 1600                   | 100 | 6   | 40-140          | 50        |



# Matrix Spike Sample Summary

## Form 3

### Semivolatiles

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Client Sample ID</b> : TANK-NORTH-122019 (8')<br><b>Lab Sample ID</b> : L1961284-05<br><b>Matrix Spike</b> : WG1323715-4<br><b>Matrix Spike Dup</b> : WG1323715-5 | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Matrix</b> : SOIL<br><b>Analysis Date</b> : 12/24/19 07:27<br><b>MS Analysis Date</b> : 12/24/19 06:42<br><b>MSD Analysis Date</b> : 12/24/19 07:04 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Parameter              | Sample Conc.<br>(ug/kg) | Matrix Spike Sample    |                        |     | Matrix Spike Duplicate |                        |     | RPD | Recovery Limits | RPD Limit |
|------------------------|-------------------------|------------------------|------------------------|-----|------------------------|------------------------|-----|-----|-----------------|-----------|
|                        |                         | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R  | Spike Added<br>(ug/kg) | Spike Conc.<br>(ug/kg) | %R  |     |                 |           |
| Di-n-butylphthalate    | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| Di-n-octylphthalate    | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| Diethyl phthalate      | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| Dimethyl phthalate     | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1600                   | 100 | 13  | 40-140          | 50        |
| Benzo(a)anthracene     | 64J                     | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| Benzo(a)pyrene         | ND                      | 1560                   | 1400                   | 90  | 1570                   | 1300                   | 83  | 7   | 40-140          | 50        |
| Benzo(b)fluoranthene   | 62J                     | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| Benzo(k)fluoranthene   | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1300                   | 83  | 14  | 40-140          | 50        |
| Chrysene               | 53J                     | 1560                   | 1400                   | 90  | 1570                   | 1400                   | 89  | 0   | 40-140          | 50        |
| Acenaphthylene         | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1600                   | 100 | 6   | 40-140          | 50        |
| Anthracene             | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1500                   | 95  | 6   | 40-140          | 50        |
| Benzo(ghi)perylene     | 33J                     | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| Fluorene               | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| Phenanthrene           | 79J                     | 1560                   | 1500                   | 96  | 1570                   | 1500                   | 95  | 0   | 40-140          | 50        |
| Dibenzo(a,h)anthracene | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| Indeno(1,2,3-cd)pyrene | 35J                     | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 40-140          | 50        |
| Pyrene                 | 110J                    | 1560                   | 1600                   | 100 | 1570                   | 1500                   | 95  | 6   | 35-142          | 50        |
| Biphenyl               | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1600                   | 100 | 0   | 37-127          | 50        |
| 4-Chloroaniline        | ND                      | 1560                   | 1200                   | 77  | 1570                   | 1400                   | 89  | 15  | 40-140          | 50        |
| 2-Nitroaniline         | ND                      | 1560                   | 1800                   | 120 | 1570                   | 1900                   | 120 | 5   | 47-134          | 50        |
| 3-Nitroaniline         | ND                      | 1560                   | 1500                   | 96  | 1570                   | 1600                   | 100 | 6   | 26-129          | 50        |
| 4-Nitroaniline         | ND                      | 1560                   | 1600                   | 100 | 1570                   | 1700                   | 110 | 6   | 41-125          | 50        |



# Matrix Spike Sample Summary

## Form 3

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Client Sample ID : TANK-NORTH-122019 (8')  
 Lab Sample ID : L1961284-05  
 Matrix Spike : WG1323715-4  
 Matrix Spike Dup : WG1323715-5

Lab Number : L1961284  
 Project Number : 2182207  
 Matrix : SOIL  
 Analysis Date : 12/24/19 07:27  
 MS Analysis Date : 12/24/19 06:42  
 MSD Analysis Date : 12/24/19 07:04

| Parameter                     | Sample Conc. (ug/kg) | Matrix Spike Sample |                     |       | Matrix Spike Duplicate |                     |       | RPD | Recovery Limits | RPD Limit |
|-------------------------------|----------------------|---------------------|---------------------|-------|------------------------|---------------------|-------|-----|-----------------|-----------|
|                               |                      | Spike Added (ug/kg) | Spike Conc. (ug/kg) | %R    | Spike Added (ug/kg)    | Spike Conc. (ug/kg) | %R    |     |                 |           |
| Dibenzofuran                  | ND                   | 1560                | 1600                | 100   | 1570                   | 1600                | 100   | 0   | 40-140          | 50        |
| 2-Methylnaphthalene           | ND                   | 1560                | 1600                | 100   | 1570                   | 1600                | 100   | 0   | 40-140          | 50        |
| 1,2,4,5-Tetrachlorobenzene    | ND                   | 1560                | 1600                | 100   | 1570                   | 1700                | 110   | 6   | 40-117          | 50        |
| Acetophenone                  | ND                   | 1560                | 1600                | 100   | 1570                   | 1600                | 100   | 0   | 14-144          | 50        |
| 2,4,6-Trichlorophenol         | ND                   | 1560                | 1700                | 110   | 1570                   | 1800                | 110   | 6   | 30-130          | 50        |
| p-Chloro-m-cresol             | ND                   | 1560                | 1600                | 100   | 1570                   | 1600                | 100   | 0   | 26-103          | 50        |
| 2-Chlorophenol                | ND                   | 1560                | 1700                | 110 Q | 1570                   | 1700                | 110 Q | 0   | 25-102          | 50        |
| 2,4-Dichlorophenol            | ND                   | 1560                | 1700                | 110   | 1570                   | 1800                | 110   | 6   | 30-130          | 50        |
| 2,4-Dimethylphenol            | ND                   | 1560                | 1400                | 90    | 1570                   | 1400                | 89    | 0   | 30-130          | 50        |
| 2-Nitrophenol                 | ND                   | 1560                | 1500                | 96    | 1570                   | 1400                | 89    | 7   | 30-130          | 50        |
| 4-Nitrophenol                 | ND                   | 1560                | 1500                | 96    | 1570                   | 1500                | 95    | 0   | 11-114          | 50        |
| 2,4-Dinitrophenol             | ND                   | 1560                | 160J                | 10    | 1570                   | 140J                | 9     | 13  | 4-130           | 50        |
| 4,6-Dinitro-o-cresol          | ND                   | 1560                | 260J                | 17    | 1570                   | 190J                | 12    | 31  | 10-130          | 50        |
| Pentachlorophenol             | ND                   | 1560                | 1900                | 120 Q | 1570                   | 1700                | 110 Q | 11  | 17-109          | 50        |
| Phenol                        | ND                   | 1560                | 1500                | 96 Q  | 1570                   | 1500                | 95 Q  | 0   | 26-90           | 50        |
| 2-Methylphenol                | ND                   | 1560                | 1600                | 100   | 1570                   | 1600                | 100   | 0   | 30-130.         | 50        |
| 3-Methylphenol/4-Methylphenol | ND                   | 1560                | 1700                | 110   | 1570                   | 1700                | 110   | 0   | 30-130          | 50        |
| 2,4,5-Trichlorophenol         | ND                   | 1560                | 1800                | 120   | 1570                   | 1900                | 120   | 5   | 30-130          | 50        |
| Carbazole                     | ND                   | 1560                | 1600                | 100   | 1570                   | 1500                | 95    | 6   | 54-128          | 50        |
| Atrazine                      | ND                   | 1560                | 1500                | 96    | 1570                   | 1500                | 95    | 0   | 40-140          | 50        |
| Benzaldehyde                  | ND                   | 1560                | 1700                | 110   | 1570                   | 1600                | 100   | 6   | 40-140          | 50        |
| Caprolactam                   | ND                   | 1560                | 1500                | 96    | 1570                   | 1600                | 100   | 6   | 15-130          | 50        |



# Matrix Spike Sample Summary

## Form 3

### Semivolatiles

|                  |                             |                   |                  |
|------------------|-----------------------------|-------------------|------------------|
| Client           | : LaBella Associates, P.C.  | Lab Number        | : L1961284       |
| Project Name     | : FORMER WOLLENSACK OPTICAL | Project Number    | : 2182207        |
| Client Sample ID | : TANK-NORTH-122019 (8')    | Matrix            | : SOIL           |
| Lab Sample ID    | : L1961284-05               | Analysis Date     | : 12/24/19 07:27 |
| Matrix Spike     | : WG1323715-4               | MS Analysis Date  | : 12/24/19 06:42 |
| Matrix Spike Dup | : WG1323715-5               | MSD Analysis Date | : 12/24/19 07:04 |

| Parameter                 | Sample<br>Conc.<br>(ug/kg) | Matrix Spike Sample       |                           |     | Matrix Spike Duplicate    |                           |     | RPD | Recovery<br>Limits | RPD<br>Limit |
|---------------------------|----------------------------|---------------------------|---------------------------|-----|---------------------------|---------------------------|-----|-----|--------------------|--------------|
|                           |                            | Spike<br>Added<br>(ug/kg) | Spike<br>Conc.<br>(ug/kg) | %R  | Spike<br>Added<br>(ug/kg) | Spike<br>Conc.<br>(ug/kg) | %R  |     |                    |              |
| 2,3,4,6-Tetrachlorophenol | ND                         | 1560                      | 1800                      | 120 | 1570                      | 1800                      | 110 | 0   | 40-140             | 50           |



**Method Blank Summary  
Form 4  
Semivolatiles**

|               |                             |                 |                  |
|---------------|-----------------------------|-----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number      | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number  | : 2182207        |
| Lab Sample ID | : WG1323715-1               | Lab File ID     | : 323715-1       |
| Instrument ID | : BUFFY                     | Extraction Date | : 12/22/19       |
| Matrix        | : SOIL                      | Analysis Date   | : 12/24/19 00:41 |
| Level         | : LOW                       |                 |                  |

| Client Sample No.         | Lab Sample ID | Analysis Date  |
|---------------------------|---------------|----------------|
| WG1323715-2LCS            | WG1323715-2   | 12/24/19 01:04 |
| WG1323715-3LCSD           | WG1323715-3   | 12/24/19 01:27 |
| TANK-EAST-122019 (10')    | L1961284-01   | 12/24/19 02:09 |
| TANK-BOT-122019 (11')     | L1961284-02   | 12/24/19 02:54 |
| TANK-NORTH-122019 (8')MS  | WG1323715-4   | 12/24/19 06:42 |
| TANK-NORTH-122019 (8')MSD | WG1323715-5   | 12/24/19 07:04 |
| TANK-NORTH-122019 (8')    | L1961284-05   | 12/24/19 07:27 |
| TANK-WEST-122019 (8')     | L1961284-03D  | 12/26/19 17:59 |
| TANK-SOUTH-122019 (8')    | L1961284-04D  | 12/26/19 18:23 |
| DUP-01-122019             | L1961284-06D  | 12/26/19 18:48 |



# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

### Decafluorotriphenylphosphine (DFTPP)

|                                          |                                |
|------------------------------------------|--------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284          |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207       |
| Instrument ID : GCMS5                    | Analysis Date : 06/09/19 14:11 |
| Tune Standard : R1195495-34              | Tune File ID : Tune1_tune      |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 36.5                |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 47.7                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.7                 |
| 275 | 10.0 - 60.0% of Base Peak              | 23.6                |
| 365 | Greater than 1.0% of mass 198          | 2.7                 |
| 441 | Present, but less than 24% of mass 442 | 17.1                |
| 442 | Base Peak, or >50% of mass 198         | 72                  |
| 443 | 15.0 - 24.0% of mass 442               | 14.4 (20 )2         |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ABNL10               | R1195495-3    | ABNL10  | 06/09/19 14:39     |
| ABNL9                | R1195495-10   | ABNL9   | 06/09/19 15:04     |
| ABNL8                | R1195495-9    | ABNL8   | 06/09/19 15:30     |
| ABNL7                | R1195495-8    | ABNL7   | 06/09/19 15:56     |
| ABNL6                | R1195495-7    | ABNL6   | 06/09/19 16:22     |
| ABNL5                | R1195495-6    | ABNL5   | 06/09/19 16:47     |
| ABNL4                | R1195495-5    | ABNL4   | 06/09/19 17:13     |
| ABNL3                | R1195495-4    | ABNL3   | 06/09/19 17:39     |
| ABNL2                | R1195495-2    | ABNL2   | 06/09/19 18:05     |
| ABNL1                | R1195495-1    | ABNL1   | 06/09/19 18:30     |
| AP9L10               | R1195495-22   | AP9L10  | 06/09/19 18:56     |
| AP9L9                | R1195495-30   | AP9L9   | 06/09/19 19:22     |
| AP9L8                | R1195495-29   | AP9L8   | 06/09/19 19:47     |
| AP9L7                | R1195495-28   | AP9L7   | 06/09/19 20:13     |
| AP9L6                | R1195495-27   | AP9L6   | 06/09/19 20:39     |
| AP9L5                | R1195495-26   | AP9L5   | 06/09/19 21:05     |
| AP9L4                | R1195495-25   | AP9L4   | 06/09/19 21:31     |
| AP9L3                | R1195495-24   | AP9L3   | 06/09/19 21:56     |
| AP9L2                | R1195495-23   | AP9L2   | 06/09/19 22:22     |
| AP9L1                | R1195495-21   | AP9L1   | 06/09/19 22:48     |
| ABN ICV Quant Report | R1195495-31   | ABNICV  | 06/09/19 23:14     |
| AP9 ICV Quant Report | R1195495-33   | AP9ICV  | 06/09/19 23:40     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

#### Decafluorotriphenylphosphine (DFTPP)

|                                          |                                |
|------------------------------------------|--------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284          |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207       |
| Instrument ID : GCMS5                    | Analysis Date : 06/10/19 00:05 |
| Tune Standard : R1195495-35              | Tune File ID : Tune2_tune      |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 32.3                |
| 68  | Less than 2.0% of mass 69              | 0.1 (.3 )1          |
| 70  | Less than 2.0% of mass 69              | 0.2 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 45.6                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 24.5                |
| 365 | Greater than 1.0% of mass 198          | 2.7                 |
| 441 | Present, but less than 24% of mass 442 | 16.8                |
| 442 | Base Peak, or >50% of mass 198         | 81.4                |
| 443 | 15.0 - 24.0% of mass 442               | 15.3 (18.8)2        |

1-Value is % of mass 69    2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ADPL10               | R1195495-12   | ADPL10  | 06/10/19 00:31     |
| ADPL9                | R1195495-20   | ADPL9   | 06/10/19 00:57     |
| ADPL8                | R1195495-18   | ADPL8   | 06/10/19 01:22     |
| ADPL7                | R1195495-19   | ADPL7   | 06/10/19 01:48     |
| ADPL6                | R1195495-17   | ADPL6   | 06/10/19 02:14     |
| ADPL5                | R1195495-16   | ADPL5   | 06/10/19 02:39     |
| ADPL4                | R1195495-15   | ADPL4   | 06/10/19 03:05     |
| ADPL3                | R1195495-14   | ADPL3   | 06/10/19 03:31     |
| ADPL2                | R1195495-13   | ADPL2   | 06/10/19 03:57     |
| ADPL1                | R1195495-11   | ADPL1   | 06/10/19 04:22     |
| ADP ICV Quant Report | R1195495-32   | ADPICV  | 06/10/19 04:48     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

#### Decafluorotriphenylphosphine (DFTPP)

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : GCMS5                     | Analysis Date  | : 12/24/19 00:15 |
| Tune Standard | : WG1324236-1               | Tune File ID   | : Deg1223n_tune  |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 31                  |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.3 (.7 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 47.1                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 24.7                |
| 365 | Greater than 1.0% of mass 198          | 2.5                 |
| 441 | Present, but less than 24% of mass 442 | 16                  |
| 442 | Base Peak, or >50% of mass 198         | 83.5                |
| 443 | 15.0 - 24.0% of mass 442               | 16 (19.1)2          |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID       | Lab Sample ID | File ID  | Analysis Date/Time |
|------------------------|---------------|----------|--------------------|
| WG1324236-3CCAL        | WG1324236-3   | ABN1223N | 12/24/19 00:38     |
| WG1324236-4CCAL        | WG1324236-4   | AP91223N | 12/24/19 01:01     |
| WG1324236-5CCAL        | WG1324236-5   | ADP1223N | 12/24/19 01:23     |
| TANK-EAST-122019 (10') | L1961284-01   | 61284-01 | 12/24/19 02:09     |
| TANK-BOT-122019 (11')  | L1961284-02   | 61284-02 | 12/24/19 02:54     |
| WG1323715-4MS          | WG1323715-4   | 323715-4 | 12/24/19 06:42     |
| WG1323715-5MSD         | WG1323715-5   | 323715-5 | 12/24/19 07:04     |
| TANK-NORTH-122019 (8') | L1961284-05   | 61284-05 | 12/24/19 07:27     |





# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

### Decafluorotriphenylphosphine (DFTPP)

|                                          |                                |
|------------------------------------------|--------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284          |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207       |
| Instrument ID : BUFFY                    | Analysis Date : 10/06/19 17:36 |
| Tune Standard : R1239473-34              | Tune File ID : Tune1_tune      |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 36.7                |
| 68  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 70  | Less than 2.0% of mass 69              | 0.3 (.7 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 54                  |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 25.2                |
| 365 | Greater than 1.0% of mass 198          | 3                   |
| 441 | Present, but less than 24% of mass 442 | 17.4                |
| 442 | Base Peak, or >50% of mass 198         | 75.4                |
| 443 | 15.0 - 24.0% of mass 442               | 14.5 (19.2)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ABNL10               | R1239473-3    | ABNL10  | 10/06/19 18:00     |
| ABNL9                | R1239473-10   | ABNL9   | 10/06/19 18:23     |
| ABNL8                | R1239473-9    | ABNL8   | 10/06/19 18:46     |
| ABNL7                | R1239473-8    | ABNL7   | 10/06/19 19:09     |
| ABNL6                | R1239473-6    | ABNL6   | 10/06/19 19:32     |
| ABNL5                | R1239473-7    | ABNL5   | 10/06/19 19:55     |
| ABNL4                | R1239473-4    | ABNL4   | 10/06/19 20:18     |
| ABNL3                | R1239473-5    | ABNL3   | 10/06/19 20:42     |
| ABNL2                | R1239473-2    | ABNL2   | 10/06/19 21:05     |
| ABNL1                | R1239473-1    | ABNL1   | 10/06/19 21:28     |
| AP9L10               | R1239473-21   | AP9L10  | 10/06/19 21:51     |
| AP9L9                | R1239473-29   | AP9L9   | 10/06/19 22:14     |
| AP9L8                | R1239473-28   | AP9L8   | 10/06/19 22:37     |
| AP9L7                | R1239473-30   | AP9L7   | 10/06/19 23:00     |
| AP9L6                | R1239473-25   | AP9L6   | 10/06/19 23:23     |
| AP9L5                | R1239473-27   | AP9L5   | 10/06/19 23:46     |
| AP9L4                | R1239473-26   | AP9L4   | 10/07/19 00:09     |
| AP9L3                | R1239473-24   | AP9L3   | 10/07/19 00:32     |
| AP9L2                | R1239473-23   | AP9L2   | 10/07/19 00:55     |
| AP9L1                | R1239473-22   | AP9L1   | 10/07/19 01:18     |
| ABN ICV Quant Report | R1239473-31   | ABNICV  | 10/07/19 01:41     |
| AP9 ICV Summary Form | R1239473-33   | AP9ICV  | 10/07/19 02:05     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

### Decafluorotriphenylphosphine (DFTPP)

|                                          |                                |
|------------------------------------------|--------------------------------|
| Client : LaBella Associates, P.C.        | Lab Number : L1961284          |
| Project Name : FORMER WOLLENSACK OPTICAL | Project Number : 2182207       |
| Instrument ID : BUFFY                    | Analysis Date : 10/07/19 07:39 |
| Tune Standard : R1239473-35              | Tune File ID : Tune2_tune      |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 38.1                |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.2 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 53.7                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.6                 |
| 275 | 10.0 - 60.0% of Base Peak              | 27                  |
| 365 | Greater than 1.0% of mass 198          | 3.1                 |
| 441 | Present, but less than 24% of mass 442 | 17.3                |
| 442 | Base Peak, or >50% of mass 198         | 75                  |
| 443 | 15.0 - 24.0% of mass 442               | 14.4 (19.1)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ADPL10               | R1239473-13   | ADPL10  | 10/07/19 08:02     |
| ADPL9                | R1239473-19   | ADPL9   | 10/07/19 08:25     |
| ADPL8                | R1239473-17   | ADPL8   | 10/07/19 08:48     |
| ADPL7                | R1239473-18   | ADPL7   | 10/07/19 09:11     |
| ADPL6                | R1239473-20   | ADPL6   | 10/07/19 09:35     |
| ADPL5                | R1239473-14   | ADPL5   | 10/07/19 09:58     |
| ADPL4                | R1239473-15   | ADPL4   | 10/07/19 10:21     |
| ADPL3                | R1239473-12   | ADPL3   | 10/07/19 10:44     |
| ADPL2                | R1239473-16   | ADPL2   | 10/07/19 11:07     |
| ADPL1                | R1239473-11   | ADPL1   | 10/07/19 11:31     |
| ADP ICV Quant Report | R1239473-32   | ADPICV  | 10/07/19 11:54     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

#### Decafluorotriphenylphosphine (DFTPP)

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : BUFFY                     | Analysis Date  | : 12/23/19 22:45 |
| Tune Standard | : WG1324233-1               | Tune File ID   | : Deg1223n_tune  |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 46.5                |
| 68  | Less than 2.0% of mass 69              | 0 (0 )1             |
| 70  | Less than 2.0% of mass 69              | 0.3 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 55.4                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 7                   |
| 275 | 10.0 - 60.0% of Base Peak              | 25.8                |
| 365 | Greater than 1.0% of mass 198          | 2.8                 |
| 441 | Present, but less than 24% of mass 442 | 18.8                |
| 442 | Base Peak, or >50% of mass 198         | 99.4                |
| 443 | 15.0 - 24.0% of mass 442               | 18.6 (18.7)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID | Lab Sample ID | File ID  | Analysis Date/Time |
|------------------|---------------|----------|--------------------|
| WG1324233-3CCAL  | WG1324233-3   | ABN1223N | 12/23/19 23:08     |
| WG1324233-4CCAL  | WG1324233-4   | AP91223N | 12/23/19 23:31     |
| WG1324233-5CCAL  | WG1324233-5   | ADP1223N | 12/23/19 23:54     |
| WG1323715-1BLANK | WG1323715-1   | 323715-1 | 12/24/19 00:41     |
| WG1323715-2LCS   | WG1323715-2   | 323715-2 | 12/24/19 01:04     |
| WG1323715-3LCSD  | WG1323715-3   | 323715-3 | 12/24/19 01:27     |

# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

#### Decafluorotriphenylphosphine (DFTPP)

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/01/19 11:07 |
| Tune Standard | : R1261247-34               | Tune File ID   | : Tune1_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 48.3                |
| 68  | Less than 2.0% of mass 69              | 0.6 (1.6 )1         |
| 70  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 49.1                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.5                 |
| 275 | 10.0 - 60.0% of Base Peak              | 23.1                |
| 365 | Greater than 1.0% of mass 198          | 2.8                 |
| 441 | Present, but less than 24% of mass 442 | 16.7                |
| 442 | Base Peak, or >50% of mass 198         | 81.8                |
| 443 | 15.0 - 24.0% of mass 442               | 15.4 (18.9)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ABNL10               | R1261247-3    | ABNL10  | 12/01/19 11:31     |
| ABNL9                | R1261247-9    | ABNL9   | 12/01/19 11:55     |
| ABNL8                | R1261247-11   | ABNL8   | 12/01/19 12:19     |
| ABNL7                | R1261247-8    | ABNL7   | 12/01/19 12:43     |
| ABNL6                | R1261247-6    | ABNL6   | 12/01/19 13:07     |
| ABNL5                | R1261247-7    | ABNL5   | 12/01/19 13:31     |
| ABNL4                | R1261247-5    | ABNL4   | 12/01/19 13:56     |
| ABNL3                | R1261247-2    | ABNL3   | 12/01/19 14:20     |
| ABNL2                | R1261247-4    | ABNL2   | 12/01/19 14:44     |
| ABNL1                | R1261247-1    | ABNL1   | 12/01/19 15:08     |
| AP9L10               | R1261247-22   | AP9L10  | 12/01/19 15:32     |
| AP9L9                | R1261247-30   | AP9L9   | 12/01/19 15:57     |
| AP9L8                | R1261247-26   | AP9L8   | 12/01/19 16:21     |
| AP9L7                | R1261247-28   | AP9L7   | 12/01/19 16:45     |
| AP9L6                | R1261247-29   | AP9L6   | 12/01/19 17:09     |
| AP9L5                | R1261247-25   | AP9L5   | 12/01/19 17:33     |
| AP9L4                | R1261247-27   | AP9L4   | 12/01/19 17:57     |
| AP9L3                | R1261247-20   | AP9L3   | 12/01/19 18:22     |
| AP9L2                | R1261247-23   | AP9L2   | 12/01/19 18:46     |
| AP9L1                | R1261247-24   | AP9L1   | 12/01/19 19:10     |
| ABN ICV Quant Report | R1261247-31   | ABNICV  | 12/01/19 19:34     |
| AP9 ICV Quant Report | R1261247-33   | AP9ICV  | 12/01/19 19:58     |



# Instrument Performance Check (Tune) Summary

## Form 5

### Semivolatiles

#### Decafluorotriphenylphosphine (DFTPP)

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/01/19 20:22 |
| Tune Standard | : R1261247-35               | Tune File ID   | : Tune2_tune     |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 47.7                |
| 68  | Less than 2.0% of mass 69              | 0.6 (1.5 )1         |
| 70  | Less than 2.0% of mass 69              | 0.2 (.6 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 50.3                |
| 197 | Less than 2.0% of mass 198             | 0.3                 |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.8                 |
| 275 | 10.0 - 60.0% of Base Peak              | 23.4                |
| 365 | Greater than 1.0% of mass 198          | 2.7                 |
| 441 | Present, but less than 24% of mass 442 | 16.3                |
| 442 | Base Peak, or >50% of mass 198         | 79.5                |
| 443 | 15.0 - 24.0% of mass 442               | 16.4 (20.7)2        |

1-Value is % of mass 69    2-Value is % of mass 442

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

| Client Sample ID     | Lab Sample ID | File ID | Analysis Date/Time |
|----------------------|---------------|---------|--------------------|
| ADPL10               | R1261247-13   | ADPL10  | 12/01/19 20:47     |
| ADPL9                | R1261247-21   | ADPL9   | 12/01/19 21:11     |
| ADPL8                | R1261247-17   | ADPL8   | 12/01/19 21:35     |
| ADPL7                | R1261247-19   | ADPL7   | 12/01/19 21:59     |
| ADPL6                | R1261247-16   | ADPL6   | 12/01/19 22:23     |
| ADPL5                | R1261247-15   | ADPL5   | 12/01/19 22:48     |
| ADPL4                | R1261247-18   | ADPL4   | 12/01/19 23:12     |
| ADPL3                | R1261247-14   | ADPL3   | 12/01/19 23:36     |
| ADPL2                | R1261247-12   | ADPL2   | 12/02/19 00:00     |
| ADPL1                | R1261247-10   | ADPL1   | 12/02/19 00:25     |
| ADP ICV Quant Report | R1261247-32   | ADPICV  | 12/02/19 00:49     |

**Instrument Performance Check (Tune) Summary**  
**Form 5**  
**Semivolatiles**  
**Decafluorotriphenylphosphine (DFTPP)**

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/26/19 09:23 |
| Tune Standard | : WG1324867-1               | Tune File ID   | : Deg1226_tune   |

| m/e | Ion Abundance Criteria                 | %Relative Abundance |
|-----|----------------------------------------|---------------------|
| 51  | 10.0 - 80.0% of Base Peak              | 52                  |
| 68  | Less than 2.0% of mass 69              | 0.6 (1.3 )1         |
| 70  | Less than 2.0% of mass 69              | 0.2 (.5 )1          |
| 127 | 10.0 - 80.0% of Base Peak              | 55.3                |
| 197 | Less than 2.0% of mass 198             | 0                   |
| 198 | Base Peak, or >50% of mass 442         | 100                 |
| 199 | 5.0 - 9.0% of mass 198                 | 6.9                 |
| 275 | 10.0 - 60.0% of Base Peak              | 22.9                |
| 365 | Greater than 1.0% of mass 198          | 2.2                 |
| 441 | Present, but less than 24% of mass 442 | 18.4                |
| 442 | Base Peak, or >50% of mass 198         | 81.2                |
| 443 | 15.0 - 24.0% of mass 442               | 15.7 (19.3)2        |

1-Value is % of mass 69 2-Value is % of mass 442

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

| Client Sample ID       | Lab Sample ID | File ID  | Analysis Date/Time |
|------------------------|---------------|----------|--------------------|
| WG1324867-3CCAL        | WG1324867-3   | ABN1226  | 12/26/19 09:52     |
| WG1324867-4CCAL        | WG1324867-4   | AP91226  | 12/26/19 10:17     |
| WG1324867-5CCAL        | WG1324867-5   | ADP1226  | 12/26/19 10:41     |
| TANK-WEST-122019 (8')  | L1961284-03D  | 61284-03 | 12/26/19 17:59     |
| TANK-SOUTH-122019 (8') | L1961284-04D  | 61284-04 | 12/26/19 18:23     |
| DUP-01-122019          | L1961284-06D  | 61284-06 | 12/26/19 18:48     |



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Sample No : WG1324233-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/23/19 23:08  
 Lab File ID : ABN1223N

|                   | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |      | Acenaphthene-d10 |      |
|-------------------|------------------------|------|----------------|------|------------------|------|
|                   | Area                   | RT   | Area           | RT   | Area             | RT   |
| WG1324233-3       | 159664                 | 3.99 | 632580         | 5.06 | 336073           | 6.56 |
| Upper Limit       | 319328                 | 4.49 | 1265160        | 5.56 | 672146           | 7.06 |
| Lower Limit       | 79832                  | 3.49 | 316290         | 4.56 | 168037           | 6.06 |
| Sample ID         |                        |      |                |      |                  |      |
| WG1324233-4 CCAL  | 177213                 | 3.99 | 704834         | 5.06 | 375542           | 6.56 |
| WG1324233-5 CCAL  | 166995                 | 3.98 | -              | -    | 358199           | 6.56 |
| WG1323715-1 BLANK | 117263                 | 3.98 | 462179         | 5.06 | 240778           | 6.56 |
| WG1323715-2 LCS   | 121147                 | 3.99 | 497558         | 5.06 | 266407           | 6.56 |
| WG1323715-3 LCSD  | 115236                 | 3.99 | 468342         | 5.06 | 252898           | 6.56 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : BUFFY                     | Analysis Date  | : 12/23/19 23:08 |
| Sample No     | : WG1324233-3               | Lab File ID    | : ABN1223N       |

|                   | Phenanthrene-d10 |      | Chrysene-d12 |       | Perylene-d12 |       |
|-------------------|------------------|------|--------------|-------|--------------|-------|
|                   | Area             | RT   | Area         | RT    | Area         | RT    |
| WG1324233-3       | 621349           | 7.84 | 640997       | 10.41 | 708691       | 12.49 |
| Upper Limit       | 1242698          | 8.34 | 1281994      | 10.91 | 1417382      | 12.99 |
| Lower Limit       | 310675           | 7.34 | 320499       | 9.91  | 354346       | 11.99 |
| Sample ID         |                  |      |              |       |              |       |
| WG1324233-4 CCAL  | 715781           | 7.84 | -            | -     | -            | -     |
| WG1324233-5 CCAL  | 703501           | 7.83 | -            | -     | -            | -     |
| WG1323715-1 BLANK | 461068           | 7.83 | 447457       | 10.39 | 515994       | 12.49 |
| WG1323715-2 LCS   | 502202           | 7.84 | 495888       | 10.40 | 535057       | 12.49 |
| WG1323715-3 LCSD  | 483296           | 7.83 | 494636       | 10.40 | 545616       | 12.49 |

Area Upper Limit = +100% of internal standard area  
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits





# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Sample No : WG1324236-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/24/19 00:38  
 Lab File ID : ABN1223N

|                            | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |      | Acenaphthene-d10 |      |
|----------------------------|------------------------|------|----------------|------|------------------|------|
|                            | Area                   | RT   | Area           | RT   | Area             | RT   |
| WG1324236-3                | 230273                 | 3.59 | 837477         | 4.70 | 496701           | 6.14 |
| Upper Limit                | 460546                 | 4.09 | 1674954        | 5.20 | 993402           | 6.64 |
| Lower Limit                | 115137                 | 3.09 | 418739         | 4.20 | 248351           | 5.64 |
| Sample ID                  |                        |      |                |      |                  |      |
| WG1324236-4 CCAL           | 218924                 | 3.59 | 792530         | 4.69 | 449723           | 6.14 |
| WG1324236-5 CCAL           | 228352                 | 3.59 | -              | -    | 468017           | 6.14 |
| TANK-EAST-122019 (10')     | 138543                 | 3.59 | 493004         | 4.69 | 281956           | 6.14 |
| TANK-BOT-122019 (11')      | 125716                 | 3.59 | 473442         | 4.69 | 272254           | 6.14 |
| TANK-NORTH-122019 (8') MS  | 135729                 | 3.59 | 499333         | 4.70 | 291678           | 6.14 |
| TANK-NORTH-122019 (8') MSD | 136866                 | 3.59 | 504857         | 4.70 | 312670           | 6.14 |
| TANK-NORTH-122019 (8')     | 130013                 | 3.59 | 525429         | 4.70 | 332877           | 6.14 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : GCMS5                     | Analysis Date  | : 12/24/19 00:38 |
| Sample No     | : WG1324236-3               | Lab File ID    | : ABN1223N       |

|                            | Phenanthrene-d10 |      | Chrysene-d12 |       | Perylene-d12 |       |
|----------------------------|------------------|------|--------------|-------|--------------|-------|
|                            | Area             | RT   | Area         | RT    | Area         | RT    |
| WG1324236-3                | 1076593          | 7.33 | 1191633      | 9.67  | 1381786      | 10.90 |
| Upper Limit                | 2153186          | 7.83 | 2383266      | 10.17 | 2763572      | 11.40 |
| Lower Limit                | 538297           | 6.83 | 595817       | 9.17  | 690893       | 10.40 |
| Sample ID                  |                  |      |              |       |              |       |
| WG1324236-4 CCAL           | 942519           | 7.32 | -            | -     | -            | -     |
| WG1324236-5 CCAL           | 989066           | 7.32 | -            | -     | -            | -     |
| TANK-EAST-122019 (10')     | 583869           | 7.32 | 611086       | 9.66  | 724692       | 10.90 |
| TANK-BOT-122019 (11')      | 587069           | 7.32 | 709120       | 9.66  | 865342       | 10.90 |
| TANK-NORTH-122019 (8') MS  | 619896           | 7.33 | 739820       | 9.66  | 818346       | 10.91 |
| TANK-NORTH-122019 (8') MSD | 700728           | 7.33 | 762402       | 9.67  | 800644       | 10.91 |
| TANK-NORTH-122019 (8')     | 776679           | 7.33 | 960433       | 9.66  | 962108       | 10.90 |

Area Upper Limit = +100% of internal standard area  
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Sample No : WG1324867-3

Lab Number : L1961284  
 Project Number : 2182207  
 Analysis Date : 12/26/19 09:52  
 Lab File ID : ABN1226

|                        | 1,4-Dichlorobenzene-d4 |      | Naphthalene-d8 |      | Acenaphthene-d10 |      |
|------------------------|------------------------|------|----------------|------|------------------|------|
|                        | Area                   | RT   | Area           | RT   | Area             | RT   |
| WG1324867-3            | 124940                 | 4.03 | 510434         | 5.28 | 284683           | 6.97 |
| Upper Limit            | 249880                 | 4.53 | 1020868        | 5.78 | 569366           | 7.47 |
| Lower Limit            | 62470                  | 3.53 | 255217         | 4.78 | 142342           | 6.47 |
| Sample ID              |                        |      |                |      |                  |      |
| WG1324867-4 CCAL       | 107713                 | 4.03 | 448385         | 5.28 | 253761           | 6.97 |
| WG1324867-5 CCAL       | 117782                 | 4.03 | -              | -    | 268914           | 6.97 |
| TANK-WEST-122019 (8')  | 104722                 | 4.03 | 424211         | 5.28 | 244363           | 6.98 |
| TANK-SOUTH-122019 (8') | 110839                 | 4.04 | 457696         | 5.28 | 262859           | 6.98 |
| DUP-01-122019          | 106617                 | 4.04 | 447164         | 5.28 | 257851           | 6.98 |

Area Upper Limit = +100% of internal standard area  
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
 RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits



# Internal Standard Area and RT Summary

## Form 8a

### Semivolatiles

|               |                             |                |                  |
|---------------|-----------------------------|----------------|------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number     | : L1961284       |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number | : 2182207        |
| Instrument ID | : SV103                     | Analysis Date  | : 12/26/19 09:52 |
| Sample No     | : WG1324867-3               | Lab File ID    | : ABN1226        |

|                        | Phenanthrene-d10 |      | Chrysene-d12 |       | Perylene-d12 |       |
|------------------------|------------------|------|--------------|-------|--------------|-------|
|                        | Area             | RT   | Area         | RT    | Area         | RT    |
| WG1324867-3            | 550424           | 8.38 | 503667       | 10.99 | 526137       | 12.84 |
| Upper Limit            | 1100848          | 8.88 | 1007334      | 11.49 | 1052274      | 13.34 |
| Lower Limit            | 275212           | 7.88 | 251834       | 10.49 | 263069       | 12.34 |
| Sample ID              |                  |      |              |       |              |       |
| WG1324867-4 CCAL       | 488152           | 8.38 | -            | -     | -            | -     |
| WG1324867-5 CCAL       | 514565           | 8.38 | -            | -     | -            | -     |
| TANK-WEST-122019 (8')  | 472428           | 8.39 | 408413       | 10.99 | 422270       | 12.85 |
| TANK-SOUTH-122019 (8') | 501143           | 8.39 | 436227       | 10.99 | 453179       | 12.85 |
| DUP-01-122019          | 499294           | 8.39 | 438813       | 10.99 | 455930       | 12.85 |

Area Upper Limit = +100% of internal standard area  
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT  
RT Lower Limit = -0.50 minutes of internal standard RT

\* Values outside of QC limits





Date Created: 07/26/18  
Created By: Jason Hebert  
File: PM5244-1  
Page: 1

ABN Extractables - EPA 8270D (WATER)

Holding Time: 7 days  
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

| Analyte                        | CAS #     | RL | MDL   | Units | LCS Criteria | LCS RPD | MS Criteria | MS RPD | Duplicate RPD | Surrogate Criteria |  |  |
|--------------------------------|-----------|----|-------|-------|--------------|---------|-------------|--------|---------------|--------------------|--|--|
| Acenaphthene                   | 83-32-9   | 2  | 0.591 | ug/l  | 37-111       | 30      | 37-111      | 30     | 30            |                    |  |  |
| Benzidine                      | 92-87-5   | 20 | 8.14  | ug/l  | 10-75        | 30      | 10-75       | 30     | 30            |                    |  |  |
| 1,2,4-Trichlorobenzene         | 120-82-1  | 5  | 0.661 | ug/l  | 39-98        | 30      | 39-98       | 30     | 30            |                    |  |  |
| Hexachlorobenzene              | 118-74-1  | 2  | 0.579 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Bis(2-chloroethyl)ether        | 111-44-4  | 2  | 0.669 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 2-Chloronaphthalene            | 91-58-7   | 2  | 0.64  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 1,2-Dichlorobenzene            | 95-50-1   | 2  | 0.732 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 1,3-Dichlorobenzene            | 541-73-1  | 2  | 0.688 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 1,4-Dichlorobenzene            | 106-46-7  | 2  | 0.708 | ug/l  | 36-97        | 30      | 36-97       | 30     | 30            |                    |  |  |
| 3,3'-Dichlorobenzidine         | 91-94-1   | 5  | 1.39  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 2,4-Dinitrotoluene             | 121-14-2  | 5  | 0.845 | ug/l  | 48-143       | 30      | 48-143      | 30     | 30            |                    |  |  |
| 2,6-Dinitrotoluene             | 606-20-2  | 5  | 1.12  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Azobenzene                     | 122-66-7  | 2  | 0.749 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Fluoranthene                   | 206-44-0  | 2  | 0.568 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 4-Chlorophenyl phenyl ether    | 7005-72-3 | 2  | 0.625 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| 4-Bromophenyl phenyl ether     | 101-55-3  | 2  | 0.731 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Bis(2-chloroisopropyl)ether    | 108-60-1  | 2  | 0.696 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Bis(2-chloroethoxy)methane     | 111-91-1  | 5  | 0.626 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Hexachlorobutadiene            | 87-68-3   | 2  | 0.717 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Hexachlorocyclopentadiene      | 77-47-4   | 20 | 7.84  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Hexachloroethane               | 67-72-1   | 2  | 0.682 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Isophorone                     | 78-59-1   | 5  | 0.601 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Naphthalene                    | 91-20-3   | 2  | 0.68  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Nitrobenzene                   | 98-95-3   | 2  | 0.753 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| NitrosoDiPhenylAmine(NDPA)/DPA | 86-30-6   | 2  | 0.644 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| n-Nitrosodi-n-propylamine      | 621-64-7  | 5  | 0.7   | ug/l  | 29-132       | 30      | 29-132      | 30     | 30            |                    |  |  |
| Bis(2-Ethylhexyl)phthalate     | 117-81-7  | 3  | 0.91  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Butyl benzyl phthalate         | 85-68-7   | 5  | 1.26  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Di-n-butylphthalate            | 84-74-2   | 5  | 0.689 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Di-n-octylphthalate            | 117-84-0  | 5  | 1.14  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Diethyl phthalate              | 84-66-2   | 5  | 0.628 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Dimethyl phthalate             | 131-11-3  | 5  | 0.65  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Benzo(a)anthracene             | 56-55-3   | 2  | 0.61  | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Benzo(a)pyrene                 | 50-32-8   | 2  | 0.539 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Benzo(b)fluoranthene           | 205-99-2  | 2  | 0.635 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Benzo(k)fluoranthene           | 207-08-9  | 2  | 0.597 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Chrysene                       | 218-01-9  | 2  | 0.543 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Acenaphthylene                 | 208-96-8  | 2  | 0.658 | ug/l  | 45-123       | 30      | 45-123      | 30     | 30            |                    |  |  |
| Anthracene                     | 120-12-7  | 2  | 0.645 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Benzo(ghi)perylene             | 191-24-2  | 2  | 0.611 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Fluorene                       | 86-73-7   | 2  | 0.619 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |
| Phenanthrene                   | 85-01-8   | 2  | 0.613 | ug/l  | 40-140       | 30      | 40-140      | 30     | 30            |                    |  |  |

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



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**Date Created:** 07/26/18  
**Created By:** Jason Hebert  
**File:** PM5244-1  
**Page:** 2

**ABN Extractables - EPA 8270D (WATER)**

**Holding Time:** 7 days  
**Container/Sample Preservation:** 2 - Amber 1000ml unpreserved

[illegible]

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



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## **Semivolatile Sample Data**

# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-01  
 Sample Amount : 30.39 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:09  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 89  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | ND      | 150 | 19. | U         |
| 118-74-1  | Hexachlorobenzene           | ND      | 110 | 21. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 170 | 25. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 180 | 18. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 180 | 49. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 180 | 37. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 180 | 32. | U         |
| 206-44-0  | Fluoranthene                | ND      | 110 | 21. | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 180 | 20. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 180 | 28. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 220 | 32. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 200 | 18. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 180 | 27. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 530 | 170 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 150 | 30. | U         |
| 78-59-1   | Isophorone                  | ND      | 170 | 24. | U         |
| 91-20-3   | Naphthalene                 | ND      | 180 | 22. | U         |
| 98-95-3   | Nitrobenzene                | ND      | 170 | 27. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 150 | 21. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 180 | 28. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 180 | 64. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 180 | 47. | U         |





# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-01  
 Sample Amount : 30.39 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:09  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 89  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 180 | 35. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 180 | 63. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 180 | 17. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 180 | 39. | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 110 | 21. | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 150 | 45. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 110 | 31. | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 110 | 30. | U         |
| 218-01-9 | Chrysene               | ND      | 110 | 19. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 150 | 28. | U         |
| 120-12-7 | Anthracene             | ND      | 110 | 36. | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 150 | 22. | U         |
| 86-73-7  | Fluorene               | ND      | 180 | 18. | U         |
| 85-01-8  | Phenanthrene           | ND      | 110 | 22. | U         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 110 | 21. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 150 | 26. | U         |
| 129-00-0 | Pyrene                 | ND      | 110 | 18. | U         |
| 92-52-4  | Biphenyl               | ND      | 420 | 43. | U         |
| 106-47-8 | 4-Chloroaniline        | ND      | 180 | 34. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 180 | 36. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 180 | 35. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 180 | 77. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-01  
 Client ID : TANK-EAST-122019 (10')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-01  
 Sample Amount : 30.39 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:10  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:09  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 89  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | ND      | 180 | 18. | U         |
| 91-57-6           | 2-Methylnaphthalene           | ND      | 220 | 22. | U         |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 180 | 19. | U         |
| 98-86-2           | Acetophenone                  | ND      | 180 | 23. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 110 | 35. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 180 | 28. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 180 | 22. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 170 | 30. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 180 | 61. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 400 | 70. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 260 | 76. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 890 | 86. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 480 | 89. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 150 | 41. | U         |
| 108-95-2          | Phenol                        | ND      | 180 | 28. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 180 | 29. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 270 | 29. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 180 | 35. | U         |
| 86-74-8           | Carbazole                     | ND      | 180 | 18. | U         |
| 1912-24-9         | Atrazine                      | ND      | 150 | 65. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 240 | 50. | U         |
| 105-60-2          | Caprolactam                   | ND      | 180 | 56. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-01                   | Date Collected   | : 12/20/19 10:10 |
| Client ID         | : TANK-EAST-122019 (10')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 02:09 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-01                      | Analyst          | : EK             |
| Sample Amount     | : 30.39 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 89             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 180 | 37. | U         |



**Tentatively Identified Compounds**  
**Form 1**  
**Semivolatile Organics by GC/MS**

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-01                   | Date Collected   | : 12/20/19 10:10 |
| Client ID         | : TANK-EAST-122019 (10')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 02:09 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-01                      | Analyst          | : EK             |
| Sample Amount     | : 30.39 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | :                |
| Extract Volume    | : 1000 uL                       | %Solids          | : 89             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-02  
 Sample Amount : 30.59 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:54  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 81  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | 42      | 160 | 21. | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 120 | 22. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 180 | 27. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 200 | 20. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 200 | 53. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 200 | 40. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 200 | 34. | U         |
| 206-44-0  | Fluoranthene                | ND      | 120 | 23. | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 200 | 21. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 200 | 31. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 240 | 34. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 220 | 20. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 200 | 29. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 570 | 180 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 160 | 32. | U         |
| 78-59-1   | Isophorone                  | ND      | 180 | 26. | U         |
| 91-20-3   | Naphthalene                 | 210     | 200 | 24. |           |
| 98-95-3   | Nitrobenzene                | ND      | 180 | 30. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 160 | 23. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 200 | 31. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 200 | 69. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 200 | 51. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-02  
 Sample Amount : 30.59 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:54  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 81  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 200 | 38. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 200 | 68. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 200 | 18. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 200 | 42. | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 120 | 23. | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 160 | 49. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 120 | 34. | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 120 | 32. | U         |
| 218-01-9 | Chrysene               | ND      | 120 | 21. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 160 | 31. | U         |
| 120-12-7 | Anthracene             | ND      | 120 | 39. | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 160 | 24. | U         |
| 86-73-7  | Fluorene               | 98      | 200 | 20. | J         |
| 85-01-8  | Phenanthrene           | 220     | 120 | 24. |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 120 | 23. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 160 | 28. | U         |
| 129-00-0 | Pyrene                 | 20      | 120 | 20. | J         |
| 92-52-4  | Biphenyl               | 160     | 460 | 46. | J         |
| 106-47-8 | 4-Chloroaniline        | ND      | 200 | 36. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 200 | 39. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 200 | 38. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 200 | 83. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-02  
 Client ID : TANK-BOT-122019 (11')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-02  
 Sample Amount : 30.59 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 02:54  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 81  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | 74      | 200 | 19. | J         |
| 91-57-6           | 2-Methylnaphthalene           | 1200    | 240 | 24. |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 200 | 21. | U         |
| 98-86-2           | Acetophenone                  | ND      | 200 | 25. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 120 | 38. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 200 | 30. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 200 | 24. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 180 | 32. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 200 | 66. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 430 | 76. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 280 | 82. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 960 | 94. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 520 | 96. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 160 | 44. | U         |
| 108-95-2          | Phenol                        | ND      | 200 | 30. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 200 | 31. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 290 | 31. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 200 | 38. | U         |
| 86-74-8           | Carbazole                     | ND      | 200 | 20. | U         |
| 1912-24-9         | Atrazine                      | ND      | 160 | 70. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 260 | 54. | U         |
| 105-60-2          | Caprolactam                   | ND      | 200 | 61. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-02                   | Date Collected   | : 12/20/19 10:30 |
| Client ID         | : TANK-BOT-122019 (11')         | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 02:54 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-02                      | Analyst          | : EK             |
| Sample Amount     | : 30.59 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 81             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 200 | 40. | U         |





# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Lab ID</b> : L1961284-02<br><b>Client ID</b> : TANK-BOT-122019 (11')<br><b>Sample Location</b> : 872 HUDSON AVE, ROCHESTER, NY<br><b>Sample Matrix</b> : SOIL<br><b>Analytical Method</b> : 1,8270D<br><b>Lab File ID</b> : 61284-02<br><b>Sample Amount</b> : 30.59 g<br><b>Extraction Method</b> : EPA 3546<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Date Collected</b> : 12/20/19 10:30<br><b>Date Received</b> : 12/20/19<br><b>Date Analyzed</b> : 12/24/19 02:54<br><b>Date Extracted</b> : 12/22/19<br><b>Dilution Factor</b> : 1<br><b>Analyst</b> : EK<br><b>Instrument ID</b> : GCMS5<br><b>GC Column</b> :<br><b>%Solids</b> : 81<br><b>Injection Volume</b> : 1 uL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number          | Compound Name       | RT   | EST. CONC. | Qualifier |
|---------------------|---------------------|------|------------|-----------|
|                     | Unknown             | 4.20 | 1280       | J         |
|                     | Unknown             | 4.78 | 2190       | J         |
|                     | Unknown             | 5.15 | 1250       | J         |
|                     | Unknown Cycloalkane | 5.52 | 941        | J         |
|                     | Unknown Alkane      | 5.76 | 3630       | J         |
|                     | Unknown Naphthalene | 5.82 | 1340       | J         |
|                     | Unknown Naphthalene | 5.87 | 1530       | J         |
|                     | Unknown Alkane      | 6.01 | 1040       | J         |
|                     | Unknown Naphthalene | 6.24 | 1070       | J         |
|                     | Unknown PAH         | 6.35 | 814        | J         |
|                     | Unknown Naphthalene | 6.41 | 977        | J         |
|                     | Unknown PAH         | 6.43 | 975        | J         |
|                     | Unknown PAH         | 6.48 | 1000       | J         |
|                     | Unknown Alkane      | 6.97 | 4300       | J         |
|                     | Unknown Alkane      | 7.70 | 920        | J         |
| Total TIC Compounds |                     |      | 23300J     | J         |

# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-03  
 Sample Amount : 30.21 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 17:59  
 Date Extracted : 12/22/19  
 Dilution Factor : 10  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |      |      | Qualifier |
|-----------|-----------------------------|---------|------|------|-----------|
|           |                             | Results | RL   | MDL  |           |
| 83-32-9   | Acenaphthene                | 1300    | 1600 | 210  | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 1200 | 220  | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 1800 | 270  | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 2000 | 200  | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 2000 | 530  | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 2000 | 400  | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 2000 | 340  | U         |
| 206-44-0  | Fluoranthene                | ND      | 1200 | 230  | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 2000 | 210  | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 2000 | 300  | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 2400 | 340  | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 2200 | 200  | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 2000 | 290  | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 5700 | 1800 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 1600 | 320  | U         |
| 78-59-1   | Isophorone                  | ND      | 1800 | 260  | U         |
| 91-20-3   | Naphthalene                 | 5500    | 2000 | 240  |           |
| 98-95-3   | Nitrobenzene                | ND      | 1800 | 300  | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 1600 | 230  | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 2000 | 310  | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 2000 | 690  | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 2000 | 500  | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-03  
 Sample Amount : 30.21 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 17:59  
 Date Extracted : 12/22/19  
 Dilution Factor : 10  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 2000 | 380 | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 2000 | 680 | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 2000 | 180 | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 2000 | 420 | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 1200 | 220 | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 1600 | 490 | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 1200 | 340 | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 1200 | 320 | U         |
| 218-01-9 | Chrysene               | ND      | 1200 | 210 | U         |
| 208-96-8 | Acenaphthylene         | ND      | 1600 | 310 | U         |
| 120-12-7 | Anthracene             | 520     | 1200 | 390 | J         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 1600 | 230 | U         |
| 86-73-7  | Fluorene               | 2500    | 2000 | 190 |           |
| 85-01-8  | Phenanthrene           | 5100    | 1200 | 240 |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 1200 | 230 | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 1600 | 280 | U         |
| 129-00-0 | Pyrene                 | 400     | 1200 | 200 | J         |
| 92-52-4  | Biphenyl               | 3700    | 4600 | 460 | J         |
| 106-47-8 | 4-Chloroaniline        | ND      | 2000 | 360 | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 2000 | 380 | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 2000 | 380 | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 2000 | 830 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-03D  
 Client ID : TANK-WEST-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-03  
 Sample Amount : 30.21 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 10:40  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 17:59  
 Date Extracted : 12/22/19  
 Dilution Factor : 10  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |      |     | Qualifier |
|-------------------|-------------------------------|---------|------|-----|-----------|
|                   |                               | Results | RL   | MDL |           |
| 132-64-9          | Dibenzofuran                  | 1500    | 2000 | 190 | J         |
| 91-57-6           | 2-Methylnaphthalene           | 30000   | 2400 | 240 |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 2000 | 210 | U         |
| 98-86-2           | Acetophenone                  | ND      | 2000 | 250 | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 1200 | 380 | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 2000 | 300 | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 2000 | 240 | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 1800 | 320 | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 2000 | 660 | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 4300 | 750 | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 2800 | 810 | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 9600 | 930 | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 5200 | 960 | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 1600 | 440 | U         |
| 108-95-2          | Phenol                        | ND      | 2000 | 300 | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 2000 | 310 | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 2900 | 310 | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 2000 | 380 | U         |
| 86-74-8           | Carbazole                     | ND      | 2000 | 190 | U         |
| 1912-24-9         | Atrazine                      | ND      | 1600 | 700 | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 2600 | 540 | U         |
| 105-60-2          | Caprolactam                   | ND      | 2000 | 610 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Lab ID</b> : L1961284-03D<br><b>Client ID</b> : TANK-WEST-122019 (8')<br><b>Sample Location</b> : 872 HUDSON AVE, ROCHESTER, NY<br><b>Sample Matrix</b> : SOIL<br><b>Analytical Method</b> : 1,8270D<br><b>Lab File ID</b> : 61284-03<br><b>Sample Amount</b> : 30.21 g<br><b>Extraction Method</b> : EPA 3546<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Date Collected</b> : 12/20/19 10:40<br><b>Date Received</b> : 12/20/19<br><b>Date Analyzed</b> : 12/26/19 17:59<br><b>Date Extracted</b> : 12/22/19<br><b>Dilution Factor</b> : 10<br><b>Analyst</b> : EK<br><b>Instrument ID</b> : SV103<br><b>GC Column</b> : RTX5-MS<br><b>%Solids</b> : 83<br><b>Injection Volume</b> : 1 uL |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| CAS NO. | Parameter                 | ug/Kg   |      |     | Qualifier |
|---------|---------------------------|---------|------|-----|-----------|
|         |                           | Results | RL   | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 2000 | 400 | U         |

# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.               | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL        | Project Number : 2182207        |
| Lab ID : L1961284-03D                           | Date Collected : 12/20/19 10:40 |
| Client ID : TANK-WEST-122019 (8')               | Date Received : 12/20/19        |
| Sample Location : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed : 12/26/19 17:59  |
| Sample Matrix : SOIL                            | Date Extracted : 12/22/19       |
| Analytical Method : 1,8270D                     | Dilution Factor : 10            |
| Lab File ID : 61284-03                          | Analyst : EK                    |
| Sample Amount : 30.21 g                         | Instrument ID : SV103           |
| Extraction Method : EPA 3546                    | GC Column :                     |
| Extract Volume : 1000 uL                        | %Solids : 83                    |
| GPC Cleanup : N                                 | Injection Volume : 1 uL         |

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number          | Compound Name       | RT   | EST. CONC. | Qualifier |
|---------------------|---------------------|------|------------|-----------|
|                     | Unknown Alkane      | 3.94 | 25700      | J         |
|                     | Unknown Alkane      | 4.45 | 22200      | J         |
|                     | Unknown             | 4.55 | 27800      | J         |
|                     | Unknown Alkane      | 4.72 | 37600      | J         |
|                     | Unknown Alkane      | 5.38 | 50500      | J         |
|                     | Unknown Alkane      | 5.46 | 18900      | J         |
|                     | Unknown Alkane      | 5.77 | 20000      | J         |
|                     | Unknown             | 5.81 | 25200      | J         |
|                     | Unknown Alkane      | 6.53 | 79300      | J         |
|                     | Unknown Naphthalene | 6.60 | 25300      | J         |
|                     | Unknown Naphthalene | 6.67 | 27600      | J         |
|                     | Unknown Alkane      | 6.84 | 24600      | J         |
|                     | Unknown Alkane      | 7.98 | 167000     | J         |
|                     | Unknown Alkane      | 8.83 | 61400      | J         |
|                     | Unknown Alkane      | 9.22 | 33200      | J         |
| Total TIC Compounds |                     |      | 646000J    | J         |

# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-04  
 Sample Amount : 30.26 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:23  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 87  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |      |     | Qualifier |
|-----------|-----------------------------|---------|------|-----|-----------|
|           |                             | Results | RL   | MDL |           |
| 83-32-9   | Acenaphthene                | 460     | 760  | 98. | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 570  | 110 | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 850  | 130 | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 950  | 94. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 950  | 250 | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 950  | 190 | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 950  | 160 | U         |
| 206-44-0  | Fluoranthene                | ND      | 570  | 110 | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 950  | 100 | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 950  | 140 | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 1100 | 160 | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 1000 | 95. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 950  | 140 | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 2700 | 860 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 760  | 150 | U         |
| 78-59-1   | Isophorone                  | ND      | 850  | 120 | U         |
| 91-20-3   | Naphthalene                 | 2600    | 950  | 120 |           |
| 98-95-3   | Nitrobenzene                | ND      | 850  | 140 | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 760  | 110 | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 950  | 150 | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 950  | 330 | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 950  | 240 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-04  
 Sample Amount : 30.26 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:23  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 87  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 950  | 180 | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 950  | 320 | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 950  | 88. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 950  | 200 | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 570  | 110 | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 760  | 230 | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 570  | 160 | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 570  | 150 | U         |
| 218-01-9 | Chrysene               | ND      | 570  | 99. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 760  | 150 | U         |
| 120-12-7 | Anthracene             | ND      | 570  | 180 | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 760  | 110 | U         |
| 86-73-7  | Fluorene               | 980     | 950  | 92. |           |
| 85-01-8  | Phenanthrene           | 2300    | 570  | 120 |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 570  | 110 | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 760  | 130 | U         |
| 129-00-0 | Pyrene                 | 96      | 570  | 94. | J         |
| 92-52-4  | Biphenyl               | 1700    | 2200 | 220 | J         |
| 106-47-8 | 4-Chloroaniline        | ND      | 950  | 170 | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 950  | 180 | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 950  | 180 | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 950  | 390 | U         |





# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-04D  
 Client ID : TANK-SOUTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-04  
 Sample Amount : 30.26 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:15  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:23  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 87  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |      |     | Qualifier |
|-------------------|-------------------------------|---------|------|-----|-----------|
|                   |                               | Results | RL   | MDL |           |
| 132-64-9          | Dibenzofuran                  | 730     | 950  | 90. | J         |
| 91-57-6           | 2-Methylnaphthalene           | 15000   | 1100 | 110 |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 950  | 99. | U         |
| 98-86-2           | Acetophenone                  | ND      | 950  | 120 | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 570  | 180 | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 950  | 140 | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 950  | 110 | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 850  | 150 | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 950  | 310 | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 2000 | 360 | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 1300 | 390 | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 4600 | 440 | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 2500 | 460 | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 760  | 210 | U         |
| 108-95-2          | Phenol                        | ND      | 950  | 140 | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 950  | 150 | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 1400 | 150 | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 950  | 180 | U         |
| 86-74-8           | Carbazole                     | ND      | 950  | 92. | U         |
| 1912-24-9         | Atrazine                      | ND      | 760  | 330 | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 1200 | 260 | U         |
| 105-60-2          | Caprolactam                   | ND      | 950  | 290 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| Client : LaBella Associates, P.C.               | Lab Number : L1961284           |
| Project Name : FORMER WOLLENSACK OPTICAL        | Project Number : 2182207        |
| Lab ID : L1961284-04D                           | Date Collected : 12/20/19 11:15 |
| Client ID : TANK-SOUTH-122019 (8')              | Date Received : 12/20/19        |
| Sample Location : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed : 12/26/19 18:23  |
| Sample Matrix : SOIL                            | Date Extracted : 12/22/19       |
| Analytical Method : 1,8270D                     | Dilution Factor : 5             |
| Lab File ID : 61284-04                          | Analyst : EK                    |
| Sample Amount : 30.26 g                         | Instrument ID : SV103           |
| Extraction Method : EPA 3546                    | GC Column : RTX5-MS             |
| Extract Volume : 1000 uL                        | %Solids : 87                    |
| GPC Cleanup : N                                 | Injection Volume : 1 uL         |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 950 | 190 | U         |



# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Lab ID</b> : L1961284-04D<br><b>Client ID</b> : TANK-SOUTH-122019 (8')<br><b>Sample Location</b> : 872 HUDSON AVE, ROCHESTER, NY<br><b>Sample Matrix</b> : SOIL<br><b>Analytical Method</b> : 1,8270D<br><b>Lab File ID</b> : 61284-04<br><b>Sample Amount</b> : 30.26 g<br><b>Extraction Method</b> : EPA 3546<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Date Collected</b> : 12/20/19 11:15<br><b>Date Received</b> : 12/20/19<br><b>Date Analyzed</b> : 12/26/19 18:23<br><b>Date Extracted</b> : 12/22/19<br><b>Dilution Factor</b> : 5<br><b>Analyst</b> : EK<br><b>Instrument ID</b> : SV103<br><b>GC Column</b> :<br><b>%Solids</b> : 87<br><b>Injection Volume</b> : 1 uL |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number | Compound Name       | RT   | EST. CONC. | Qualifier |
|------------|---------------------|------|------------|-----------|
|            | Unknown Alkane      | 4.72 | 14100      | J         |
|            | Unknown Benzene     | 5.07 | 6760       | J         |
|            | Unknown Alkane      | 5.38 | 21400      | J         |
|            | Unknown Alkane      | 5.46 | 7880       | J         |
|            | Unknown Alkane      | 5.76 | 7070       | J         |
|            | Unknown Alkane      | 5.81 | 11000      | J         |
|            | Unknown             | 6.24 | 8380       | J         |
|            | Unknown Alkane      | 6.53 | 28900      | J         |
|            | Unknown Naphthalene | 6.60 | 12100      | J         |
|            | Unknown Naphthalene | 6.67 | 12900      | J         |
|            | Unknown Alkane      | 6.84 | 10900      | J         |
|            | Unknown Naphthalene | 7.11 | 7020       | J         |
|            | Unknown PAH         | 7.31 | 6550       | J         |
|            | Unknown Alkane      | 7.98 | 36000      | J         |
|            | Unknown Alkane      | 8.82 | 7330       | J         |
|            | Total TIC Compounds |      | 198000J    | J         |

# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-05  
 Sample Amount : 30.91 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 07:27  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | ND      | 160 | 20. | U         |
| 118-74-1  | Hexachlorobenzene           | ND      | 120 | 22. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 170 | 26. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 190 | 19. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 190 | 52. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 190 | 39. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 190 | 33. | U         |
| 206-44-0  | Fluoranthene                | 130     | 120 | 22. |           |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 190 | 21. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 190 | 30. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 230 | 33. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 210 | 19. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 190 | 28. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 560 | 180 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 160 | 31. | U         |
| 78-59-1   | Isophorone                  | ND      | 170 | 25. | U         |
| 91-20-3   | Naphthalene                 | ND      | 190 | 24. | U         |
| 98-95-3   | Nitrobenzene                | ND      | 170 | 29. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 160 | 22. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 190 | 30. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 190 | 67. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 190 | 49. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-05  
 Sample Amount : 30.91 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 07:27  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 190 | 37. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 190 | 66. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 190 | 18. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 190 | 41. | U         |
| 56-55-3  | Benzo(a)anthracene     | 64      | 120 | 22. | J         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 160 | 47. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | 62      | 120 | 33. | J         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 120 | 31. | U         |
| 218-01-9 | Chrysene               | 53      | 120 | 20. | J         |
| 208-96-8 | Acenaphthylene         | ND      | 160 | 30. | U         |
| 120-12-7 | Anthracene             | ND      | 120 | 38. | U         |
| 191-24-2 | Benzo(ghi)perylene     | 33      | 160 | 23. | J         |
| 86-73-7  | Fluorene               | ND      | 190 | 19. | U         |
| 85-01-8  | Phenanthrene           | 79      | 120 | 24. | J         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 120 | 22. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 35      | 160 | 27. | J         |
| 129-00-0 | Pyrene                 | 110     | 120 | 19. | J         |
| 92-52-4  | Biphenyl               | ND      | 440 | 45. | U         |
| 106-47-8 | 4-Chloroaniline        | ND      | 190 | 35. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 190 | 37. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 190 | 37. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 190 | 80. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-05  
 Client ID : TANK-NORTH-122019 (8')  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-05  
 Sample Amount : 30.91 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 11:30  
 Date Received : 12/20/19  
 Date Analyzed : 12/24/19 07:27  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : EK  
 Instrument ID : GCMS5  
 GC Column : RTX5-MS  
 %Solids : 83  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | ND      | 190 | 18. | U         |
| 91-57-6           | 2-Methylnaphthalene           | ND      | 230 | 23. | U         |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 190 | 20. | U         |
| 98-86-2           | Acetophenone                  | ND      | 190 | 24. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 120 | 37. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 190 | 29. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 190 | 23. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 170 | 31. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 190 | 64. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 420 | 73. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 270 | 79. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 930 | 90. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 500 | 93. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 160 | 43. | U         |
| 108-95-2          | Phenol                        | ND      | 190 | 29. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 190 | 30. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 280 | 30. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 190 | 37. | U         |
| 86-74-8           | Carbazole                     | ND      | 190 | 19. | U         |
| 1912-24-9         | Atrazine                      | ND      | 160 | 68. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 260 | 52. | U         |
| 105-60-2          | Caprolactam                   | ND      | 190 | 59. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-05                   | Date Collected   | : 12/20/19 11:30 |
| Client ID         | : TANK-NORTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 07:27 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-05                      | Analyst          | : EK             |
| Sample Amount     | : 30.91 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                       | %Solids          | : 83             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 190 | 39. | U         |

**Tentatively Identified Compounds**  
**Form 1**  
**Semivolatile Organics by GC/MS**

|                   |                                 |                  |                  |
|-------------------|---------------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number   | : 2182207        |
| Lab ID            | : L1961284-05                   | Date Collected   | : 12/20/19 11:30 |
| Client ID         | : TANK-NORTH-122019 (8')        | Date Received    | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed    | : 12/24/19 07:27 |
| Sample Matrix     | : SOIL                          | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                       | Dilution Factor  | : 1              |
| Lab File ID       | : 61284-05                      | Analyst          | : EK             |
| Sample Amount     | : 30.91 g                       | Instrument ID    | : GCMS5          |
| Extraction Method | : EPA 3546                      | GC Column        | :                |
| Extract Volume    | : 1000 uL                       | %Solids          | : 83             |
| GPC Cleanup       | : N                             | Injection Volume | : 1 uL           |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |





# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 88  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |      |     | Qualifier |
|-----------|-----------------------------|---------|------|-----|-----------|
|           |                             | Results | RL   | MDL |           |
| 83-32-9   | Acenaphthene                | 500     | 740  | 96. | J         |
| 118-74-1  | Hexachlorobenzene           | ND      | 550  | 100 | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 830  | 120 | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 920  | 92. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 920  | 250 | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 920  | 180 | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 920  | 160 | U         |
| 206-44-0  | Fluoranthene                | ND      | 550  | 110 | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 920  | 99. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 920  | 140 | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 1100 | 160 | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 1000 | 93. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 920  | 140 | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 2600 | 840 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 740  | 150 | U         |
| 78-59-1   | Isophorone                  | ND      | 830  | 120 | U         |
| 91-20-3   | Naphthalene                 | 3200    | 920  | 110 |           |
| 98-95-3   | Nitrobenzene                | ND      | 830  | 140 | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 740  | 100 | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 920  | 140 | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 920  | 320 | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 920  | 230 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 88  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |      |     | Qualifier |
|----------|------------------------|---------|------|-----|-----------|
|          |                        | Results | RL   | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 920  | 180 | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 920  | 310 | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 920  | 86. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 920  | 190 | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 550  | 100 | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 740  | 220 | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 550  | 160 | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 550  | 150 | U         |
| 218-01-9 | Chrysene               | ND      | 550  | 96. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 740  | 140 | U         |
| 120-12-7 | Anthracene             | ND      | 550  | 180 | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 740  | 110 | U         |
| 86-73-7  | Fluorene               | 1200    | 920  | 90. |           |
| 85-01-8  | Phenanthrene           | 2600    | 550  | 110 |           |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 550  | 110 | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 740  | 130 | U         |
| 129-00-0 | Pyrene                 | 130     | 550  | 92. | J         |
| 92-52-4  | Biphenyl               | 2100    | 2100 | 210 |           |
| 106-47-8 | 4-Chloroaniline        | ND      | 920  | 170 | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 920  | 180 | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 920  | 170 | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 920  | 380 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : L1961284-06D  
 Client ID : DUP-01-122019  
 Sample Location : 872 HUDSON AVE, ROCHESTER, NY  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 61284-06  
 Sample Amount : 30.68 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : 12/20/19 00:00  
 Date Received : 12/20/19  
 Date Analyzed : 12/26/19 18:48  
 Date Extracted : 12/22/19  
 Dilution Factor : 5  
 Analyst : EK  
 Instrument ID : SV103  
 GC Column : RTX5-MS  
 %Solids : 88  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |      |     | Qualifier |
|-------------------|-------------------------------|---------|------|-----|-----------|
|                   |                               | Results | RL   | MDL |           |
| 132-64-9          | Dibenzofuran                  | 870     | 920  | 87. | J         |
| 91-57-6           | 2-Methylnaphthalene           | 18000   | 1100 | 110 |           |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 920  | 96. | U         |
| 98-86-2           | Acetophenone                  | ND      | 920  | 110 | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 550  | 180 | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 920  | 140 | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 920  | 110 | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 830  | 150 | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 920  | 300 | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 2000 | 350 | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 1300 | 380 | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 4400 | 430 | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 2400 | 440 | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 740  | 200 | U         |
| 108-95-2          | Phenol                        | ND      | 920  | 140 | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 920  | 140 | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 1300 | 140 | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 920  | 180 | U         |
| 86-74-8           | Carbazole                     | ND      | 920  | 90. | U         |
| 1912-24-9         | Atrazine                      | ND      | 740  | 320 | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 1200 | 250 | U         |
| 105-60-2          | Caprolactam                   | ND      | 920  | 280 | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Lab ID</b> : L1961284-06D<br><b>Client ID</b> : DUP-01-122019<br><b>Sample Location</b> : 872 HUDSON AVE, ROCHESTER, NY<br><b>Sample Matrix</b> : SOIL<br><b>Analytical Method</b> : 1,8270D<br><b>Lab File ID</b> : 61284-06<br><b>Sample Amount</b> : 30.68 g<br><b>Extraction Method</b> : EPA 3546<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Date Collected</b> : 12/20/19 00:00<br><b>Date Received</b> : 12/20/19<br><b>Date Analyzed</b> : 12/26/19 18:48<br><b>Date Extracted</b> : 12/22/19<br><b>Dilution Factor</b> : 5<br><b>Analyst</b> : EK<br><b>Instrument ID</b> : SV103<br><b>GC Column</b> : RTX5-MS<br><b>%Solids</b> : 88<br><b>Injection Volume</b> : 1 uL |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 920 | 190 | U         |

# Tentatively Identified Compounds

## Form 1

### Semivolatile Organics by GC/MS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Lab ID</b> : L1961284-06D<br><b>Client ID</b> : DUP-01-122019<br><b>Sample Location</b> : 872 HUDSON AVE, ROCHESTER, NY<br><b>Sample Matrix</b> : SOIL<br><b>Analytical Method</b> : 1,8270D<br><b>Lab File ID</b> : 61284-06<br><b>Sample Amount</b> : 30.68 g<br><b>Extraction Method</b> : EPA 3546<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Date Collected</b> : 12/20/19 00:00<br><b>Date Received</b> : 12/20/19<br><b>Date Analyzed</b> : 12/26/19 18:48<br><b>Date Extracted</b> : 12/22/19<br><b>Dilution Factor</b> : 5<br><b>Analyst</b> : EK<br><b>Instrument ID</b> : SV103<br><b>GC Column</b> :<br><b>%Solids</b> : 88<br><b>Injection Volume</b> : 1 uL |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Number TICS found: 16

Concentration Units: ug/Kg

| CAS Number          | Compound Name       | RT   | EST. CONC. | Qualifier |
|---------------------|---------------------|------|------------|-----------|
|                     | Unknown Alkane      | 4.72 | 15700      | J         |
|                     | Unknown Alkane      | 5.38 | 22400      | J         |
|                     | Unknown Alkane      | 5.81 | 12400      | J         |
|                     | Unknown Cycloalkane | 6.24 | 14600      | J         |
|                     | Unknown Alkane      | 6.53 | 51200      | J         |
|                     | Unknown Naphthalene | 6.60 | 22100      | J         |
|                     | Unknown Naphthalene | 6.67 | 23600      | J         |
|                     | Unknown Naphthalene | 6.69 | 9520       | J         |
|                     | Unknown Naphthalene | 6.78 | 10700      | J         |
|                     | Unknown             | 6.79 | 11000      | J         |
|                     | Unknown Alkane      | 6.84 | 19800      | J         |
|                     | Unknown Naphthalene | 6.85 | 11700      | J         |
|                     | Unknown Naphthalene | 7.11 | 12500      | J         |
|                     | Unknown PAH         | 7.31 | 11400      | J         |
|                     | Unknown Alkane      | 7.98 | 27000      | J         |
| Total TIC Compounds |                     |      | 276000J    | J         |

# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1323715-1  
 Client ID : WG1323715-1BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 323715-1  
 Sample Amount : 30.2 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/24/19 00:41  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : JG  
 Instrument ID : BUFFY  
 GC Column : RTX5-MS  
 %Solids : NA  
 Injection Volume : 1 uL

| CAS NO.   | Parameter                   | ug/Kg   |     |     | Qualifier |
|-----------|-----------------------------|---------|-----|-----|-----------|
|           |                             | Results | RL  | MDL |           |
| 83-32-9   | Acenaphthene                | ND      | 130 | 17. | U         |
| 118-74-1  | Hexachlorobenzene           | ND      | 99  | 18. | U         |
| 111-44-4  | Bis(2-chloroethyl)ether     | ND      | 150 | 22. | U         |
| 91-58-7   | 2-Chloronaphthalene         | ND      | 160 | 16. | U         |
| 91-94-1   | 3,3'-Dichlorobenzidine      | ND      | 160 | 44. | U         |
| 121-14-2  | 2,4-Dinitrotoluene          | ND      | 160 | 33. | U         |
| 606-20-2  | 2,6-Dinitrotoluene          | ND      | 160 | 28. | U         |
| 206-44-0  | Fluoranthene                | ND      | 99  | 19. | U         |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND      | 160 | 18. | U         |
| 101-55-3  | 4-Bromophenyl phenyl ether  | ND      | 160 | 25. | U         |
| 108-60-1  | Bis(2-chloroisopropyl)ether | ND      | 200 | 28. | U         |
| 111-91-1  | Bis(2-chloroethoxy)methane  | ND      | 180 | 16. | U         |
| 87-68-3   | Hexachlorobutadiene         | ND      | 160 | 24. | U         |
| 77-47-4   | Hexachlorocyclopentadiene   | ND      | 470 | 150 | U         |
| 67-72-1   | Hexachloroethane            | ND      | 130 | 27. | U         |
| 78-59-1   | Isophorone                  | ND      | 150 | 21. | U         |
| 91-20-3   | Naphthalene                 | ND      | 160 | 20. | U         |
| 98-95-3   | Nitrobenzene                | ND      | 150 | 24. | U         |
| 86-30-6   | NDPA/DPA                    | ND      | 130 | 19. | U         |
| 621-64-7  | n-Nitrosodi-n-propylamine   | ND      | 160 | 26. | U         |
| 117-81-7  | Bis(2-ethylhexyl)phthalate  | ND      | 160 | 57. | U         |
| 85-68-7   | Butyl benzyl phthalate      | ND      | 160 | 42. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1323715-1  
 Client ID : WG1323715-1BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 323715-1  
 Sample Amount : 30.2 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/24/19 00:41  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : JG  
 Instrument ID : BUFFY  
 GC Column : RTX5-MS  
 %Solids : NA  
 Injection Volume : 1 uL

| CAS NO.  | Parameter              | ug/Kg   |     |     | Qualifier |
|----------|------------------------|---------|-----|-----|-----------|
|          |                        | Results | RL  | MDL |           |
| 84-74-2  | Di-n-butylphthalate    | ND      | 160 | 31. | U         |
| 117-84-0 | Di-n-octylphthalate    | ND      | 160 | 56. | U         |
| 84-66-2  | Diethyl phthalate      | ND      | 160 | 15. | U         |
| 131-11-3 | Dimethyl phthalate     | ND      | 160 | 35. | U         |
| 56-55-3  | Benzo(a)anthracene     | ND      | 99  | 19. | U         |
| 50-32-8  | Benzo(a)pyrene         | ND      | 130 | 40. | U         |
| 205-99-2 | Benzo(b)fluoranthene   | ND      | 99  | 28. | U         |
| 207-08-9 | Benzo(k)fluoranthene   | ND      | 99  | 26. | U         |
| 218-01-9 | Chrysene               | ND      | 99  | 17. | U         |
| 208-96-8 | Acenaphthylene         | ND      | 130 | 26. | U         |
| 120-12-7 | Anthracene             | ND      | 99  | 32. | U         |
| 191-24-2 | Benzo(ghi)perylene     | ND      | 130 | 19. | U         |
| 86-73-7  | Fluorene               | ND      | 160 | 16. | U         |
| 85-01-8  | Phenanthrene           | ND      | 99  | 20. | U         |
| 53-70-3  | Dibenzo(a,h)anthracene | ND      | 99  | 19. | U         |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND      | 130 | 23. | U         |
| 129-00-0 | Pyrene                 | ND      | 99  | 16. | U         |
| 92-52-4  | Biphenyl               | ND      | 380 | 38. | U         |
| 106-47-8 | 4-Chloroaniline        | ND      | 160 | 30. | U         |
| 88-74-4  | 2-Nitroaniline         | ND      | 160 | 32. | U         |
| 99-09-2  | 3-Nitroaniline         | ND      | 160 | 31. | U         |
| 100-01-6 | 4-Nitroaniline         | ND      | 160 | 68. | U         |



# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Lab ID : WG1323715-1  
 Client ID : WG1323715-1BLANK  
 Sample Location :  
 Sample Matrix : SOIL  
 Analytical Method : 1,8270D  
 Lab File ID : 323715-1  
 Sample Amount : 30.2 g  
 Extraction Method : EPA 3546  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L1961284  
 Project Number : 2182207  
 Date Collected : NA  
 Date Received : NA  
 Date Analyzed : 12/24/19 00:41  
 Date Extracted : 12/22/19  
 Dilution Factor : 1  
 Analyst : JG  
 Instrument ID : BUFFY  
 GC Column : RTX5-MS  
 %Solids : NA  
 Injection Volume : 1 uL

| CAS NO.           | Parameter                     | ug/Kg   |     |     | Qualifier |
|-------------------|-------------------------------|---------|-----|-----|-----------|
|                   |                               | Results | RL  | MDL |           |
| 132-64-9          | Dibenzofuran                  | ND      | 160 | 16. | U         |
| 91-57-6           | 2-Methylnaphthalene           | ND      | 200 | 20. | U         |
| 95-94-3           | 1,2,4,5-Tetrachlorobenzene    | ND      | 160 | 17. | U         |
| 98-86-2           | Acetophenone                  | ND      | 160 | 20. | U         |
| 88-06-2           | 2,4,6-Trichlorophenol         | ND      | 99  | 31. | U         |
| 59-50-7           | p-Chloro-m-cresol             | ND      | 160 | 25. | U         |
| 95-57-8           | 2-Chlorophenol                | ND      | 160 | 20. | U         |
| 120-83-2          | 2,4-Dichlorophenol            | ND      | 150 | 27. | U         |
| 105-67-9          | 2,4-Dimethylphenol            | ND      | 160 | 55. | U         |
| 88-75-5           | 2-Nitrophenol                 | ND      | 360 | 62. | U         |
| 100-02-7          | 4-Nitrophenol                 | ND      | 230 | 68. | U         |
| 51-28-5           | 2,4-Dinitrophenol             | ND      | 790 | 77. | U         |
| 534-52-1          | 4,6-Dinitro-o-cresol          | ND      | 430 | 79. | U         |
| 87-86-5           | Pentachlorophenol             | ND      | 130 | 36. | U         |
| 108-95-2          | Phenol                        | ND      | 160 | 25. | U         |
| 95-48-7           | 2-Methylphenol                | ND      | 160 | 26. | U         |
| 108-39-4/106-44-5 | 3-Methylphenol/4-Methylphenol | ND      | 240 | 26. | U         |
| 95-95-4           | 2,4,5-Trichlorophenol         | ND      | 160 | 32. | U         |
| 86-74-8           | Carbazole                     | ND      | 160 | 16. | U         |
| 1912-24-9         | Atrazine                      | ND      | 130 | 58. | U         |
| 100-52-7          | Benzaldehyde                  | ND      | 220 | 45. | U         |
| 105-60-2          | Caprolactam                   | ND      | 160 | 50. | U         |





# Results Summary

## Form 1

### Semivolatile Organics by GC/MS

|                   |                             |                  |                  |
|-------------------|-----------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID            | : WG1323715-1               | Date Collected   | : NA             |
| Client ID         | : WG1323715-1BLANK          | Date Received    | : NA             |
| Sample Location   | :                           | Date Analyzed    | : 12/24/19 00:41 |
| Sample Matrix     | : SOIL                      | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                   | Dilution Factor  | : 1              |
| Lab File ID       | : 323715-1                  | Analyst          | : JG             |
| Sample Amount     | : 30.2 g                    | Instrument ID    | : BUFFY          |
| Extraction Method | : EPA 3546                  | GC Column        | : RTX5-MS        |
| Extract Volume    | : 1000 uL                   | %Solids          | : NA             |
| GPC Cleanup       | : N                         | Injection Volume | : 1 uL           |

| CAS NO. | Parameter                 | ug/Kg   |     |     | Qualifier |
|---------|---------------------------|---------|-----|-----|-----------|
|         |                           | Results | RL  | MDL |           |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | ND      | 160 | 33. | U         |



**Tentatively Identified Compounds**  
**Form 1**  
**Semivolatile Organics by GC/MS**

|                   |                             |                  |                  |
|-------------------|-----------------------------|------------------|------------------|
| Client            | : LaBella Associates, P.C.  | Lab Number       | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL | Project Number   | : 2182207        |
| Lab ID            | : WG1323715-1               | Date Collected   | : NA             |
| Client ID         | : WG1323715-1BLANK          | Date Received    | : NA             |
| Sample Location   | :                           | Date Analyzed    | : 12/24/19 00:41 |
| Sample Matrix     | : SOIL                      | Date Extracted   | : 12/22/19       |
| Analytical Method | : 1,8270D                   | Dilution Factor  | : 1              |
| Lab File ID       | : 323715-1                  | Analyst          | : JG             |
| Sample Amount     | : 30.2 g                    | Instrument ID    | : BUFFY          |
| Extraction Method | : EPA 3546                  | GC Column        | :                |
| Extract Volume    | : 1000 uL                   | %Solids          | : NA             |
| GPC Cleanup       | : N                         | Injection Volume | : 1 uL           |

Number TICS found: 0

Concentration Units: ug/Kg

| CAS Number                          | Compound Name | RT | EST. CONC. | Qualifier |
|-------------------------------------|---------------|----|------------|-----------|
| NO TENTATIVELY IDENTIFIED COMPOUNDS |               |    |            |           |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 26 13:04:50 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response   | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|-------|----------|
| Internal Standards            |                |      |            |        |       |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.587          | 152  | 138543     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 230273      |                |      | Recovery = | 60.16% |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.587          | 152  | 138543     | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 218924      |                |      | Recovery = | 63.28% |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.587          | 152  | 138543     | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 228352      |                |      | Recovery = | 60.67% |       |          |
| 35) IS1_Naphthalene-d8        | 4.693          | 136  | 493004     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 837477      |                |      | Recovery = | 58.87% |       |          |
| 55) IS2_Naphthalene-d8        | 4.693          | 136  | 493004     | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 792530      |                |      | Recovery = | 62.21% |       |          |
| 63) IS1_Acenaphthene-d10      | 6.135          | 164  | 281956     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 496701      |                |      | Recovery = | 56.77% |       |          |
| 83) IS2_Acenaphthene-d10      | 6.135          | 164  | 281956     | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 449723      |                |      | Recovery = | 62.70% |       |          |
| 86) IS3_Acenaphthene-d10      | 6.135          | 164  | 281956     | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 468017      |                |      | Recovery = | 60.24% |       |          |
| 88) IS1_Phenanthrene-d10      | 7.321          | 188  | 583869     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 1076593     |                |      | Recovery = | 54.23% |       |          |
| 100) IS3_Phenanthrene-d10     | 7.321          | 188  | 583869     | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 989066      |                |      | Recovery = | 59.03% |       |          |
| 104) IS1_Chrysene-d12         | 9.656          | 240  | 611086     | 40.000 | ug/ml | #-0.01   |
| Standard Area 1 = 1191633     |                |      | Recovery = | 51.28% |       |          |
| 113) IS1_Perylene-d12         | 10.895         | 264  | 724692     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 1381786     |                |      | Recovery = | 52.45% |       |          |
| System Monitoring Compounds   |                |      |            |        |       |          |
| 4) 2-Fluorophenol             | 2.305          | 112  | 150748     | 39.351 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 78.70% |       |          |
| 7) Phenol-d6                  | 3.309          | 99   | 184845     | 39.863 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 79.73% |       |          |
| 19) Nitrobenzene-d5           | 4.084          | 82   | 75871      | 18.256 | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 73.02% |       |          |
| 46) 2-Fluorobiphenyl          | 5.617          | 172  | 196153     | 18.455 | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 73.82% |       |          |
| 79) 2,4,6-Tribromophenol      | 6.771          | 330  | 85306      | 45.921 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 91.84% |       |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 26 13:04:50 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| 96) 4-Terphenyl-d14           | 8.737  | 244   | 222076   | 17.102   | ug/ml | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 68.41%   |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        |          | N.D.  |          |
| 8) Phenol                     | 0.000  |       | 0        |          | N.D.  |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        |          | N.D.  |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        |          | N.D.  |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        |          | N.D.  |          |
| 16) Hexachloroethane          | 0.000  |       | 0        |          | N.D.  |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        |          | N.D.  | d        |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        |          | N.D.  |          |
| 20) Nitrobenzene              | 0.000  |       | 0        |          | N.D.  |          |
| 21) Isophorone                | 0.000  |       | 0        |          | N.D.  |          |
| 22) 2-Nitrophenol             | 0.000  |       | 0        |          | N.D.  |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        |          | N.D.  |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        |          | N.D.  |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        |          | N.D.  |          |
| 28) Benzaldehyde              | 0.000  |       | 0        |          | N.D.  |          |
| 29) Acetophenone              | 0.000  |       | 0        |          | N.D.  |          |
| 36) Naphthalene               | 0.000  |       | 0        |          | N.D.  |          |
| 38) 4-Chloroaniline           | 0.000  |       | 0        |          | N.D.  |          |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        |          | N.D.  |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        |          | N.D.  |          |
| 41) 2-Methylnaphthalene       | 0.000  |       | 0        |          | N.D.  |          |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        |          | N.D.  |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        |          | N.D.  |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        |          | N.D.  |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        |          | N.D.  |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        |          | N.D.  |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        |          | N.D.  | d        |
| 52) Acenaphthylene            | 0.000  |       | 0        |          | N.D.  |          |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        |          | N.D.  |          |
| 60) Caprolactam               | 0.000  |       | 0        |          | N.D.  |          |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        |          | N.D.  |          |
| 62) Biphenyl                  | 0.000  |       | 0        |          | N.D.  |          |
| 64) 3-Nitroaniline            | 0.000  |       | 0        |          | N.D.  |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 26 13:04:50 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

|      | Compound                  | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|------|-------|----------|
| 65)  | Acenaphthene              | 0.000 |      | 0        | N.D. | d     |          |
| 66)  | 2,4-Dinitrophenol         | 0.000 |      | 0        | N.D. |       |          |
| 67)  | Dibenzofuran              | 0.000 |      | 0        | N.D. |       |          |
| 68)  | 2,4-Dinitrotoluene        | 0.000 |      | 0        | N.D. |       |          |
| 69)  | 4-Nitrophenol             | 0.000 |      | 0        | N.D. |       |          |
| 71)  | 2,3,4,6-Tetrachlorophenol | 0.000 |      | 0        | N.D. |       |          |
| 72)  | Diethyl phthalate         | 0.000 |      | 0        | N.D. |       |          |
| 73)  | Fluorene                  | 0.000 |      | 0        | N.D. |       |          |
| 74)  | 4-Chlorophenyl phenyl ... | 0.000 |      | 0        | N.D. |       |          |
| 75)  | 4-Nitroaniline            | 0.000 |      | 0        | N.D. |       |          |
| 76)  | 4,6-Dinitro-o-cresol      | 0.000 |      | 0        | N.D. |       |          |
| 77)  | NDPA/DPA                  | 0.000 |      | 0        | N.D. | d     |          |
| 80)  | 4-Bromophenyl phenyl e... | 0.000 |      | 0        | N.D. |       |          |
| 81)  | Hexachlorobenzene         | 0.000 |      | 0        | N.D. |       |          |
| 82)  | Pentachlorophenol         | 0.000 |      | 0        | N.D. |       |          |
| 87)  | Atrazine                  | 0.000 |      | 0        | N.D. |       |          |
| 89)  | Phenanthrene              | 0.000 |      | 0        | N.D. |       |          |
| 90)  | Anthracene                | 0.000 |      | 0        | N.D. |       |          |
| 91)  | Carbazole                 | 0.000 |      | 0        | N.D. |       |          |
| 92)  | Di-n-butylphthalate       | 0.000 |      | 0        | N.D. |       |          |
| 93)  | Fluoranthene              | 0.000 |      | 0        | N.D. |       |          |
| 95)  | Pyrene                    | 0.000 |      | 0        | N.D. | d     |          |
| 97)  | Butyl benzyl phthalate    | 0.000 |      | 0        | N.D. |       |          |
| 105) | Benzo(a)anthracene        | 0.000 |      | 0        | N.D. | d     |          |
| 106) | 3,3'-Dichlorobenzidine    | 0.000 |      | 0        | N.D. |       |          |
| 107) | Chrysene                  | 0.000 |      | 0        | N.D. | d     |          |
| 108) | Bis(2-ethylhexyl)phtha... | 0.000 |      | 0        | N.D. | d     |          |
| 109) | Di-n-octylphthalate       | 0.000 |      | 0        | N.D. | d     |          |
| 110) | Benzo(b)fluoranthene      | 0.000 |      | 0        | N.D. |       |          |
| 111) | Benzo(k)fluoranthene      | 0.000 |      | 0        | N.D. |       |          |
| 112) | Benzo(a)pyrene            | 0.000 |      | 0        | N.D. | d     |          |
| 114) | Indeno(1,2,3-cd)pyrene    | 0.000 |      | 0        | N.D. |       |          |
| 115) | Dibenzo(a,h)anthracene    | 0.000 |      | 0        | N.D. |       |          |
| 116) | Benzo(ghi)perylene        | 0.000 |      | 0        | N.D. |       |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 26 13:04:50 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

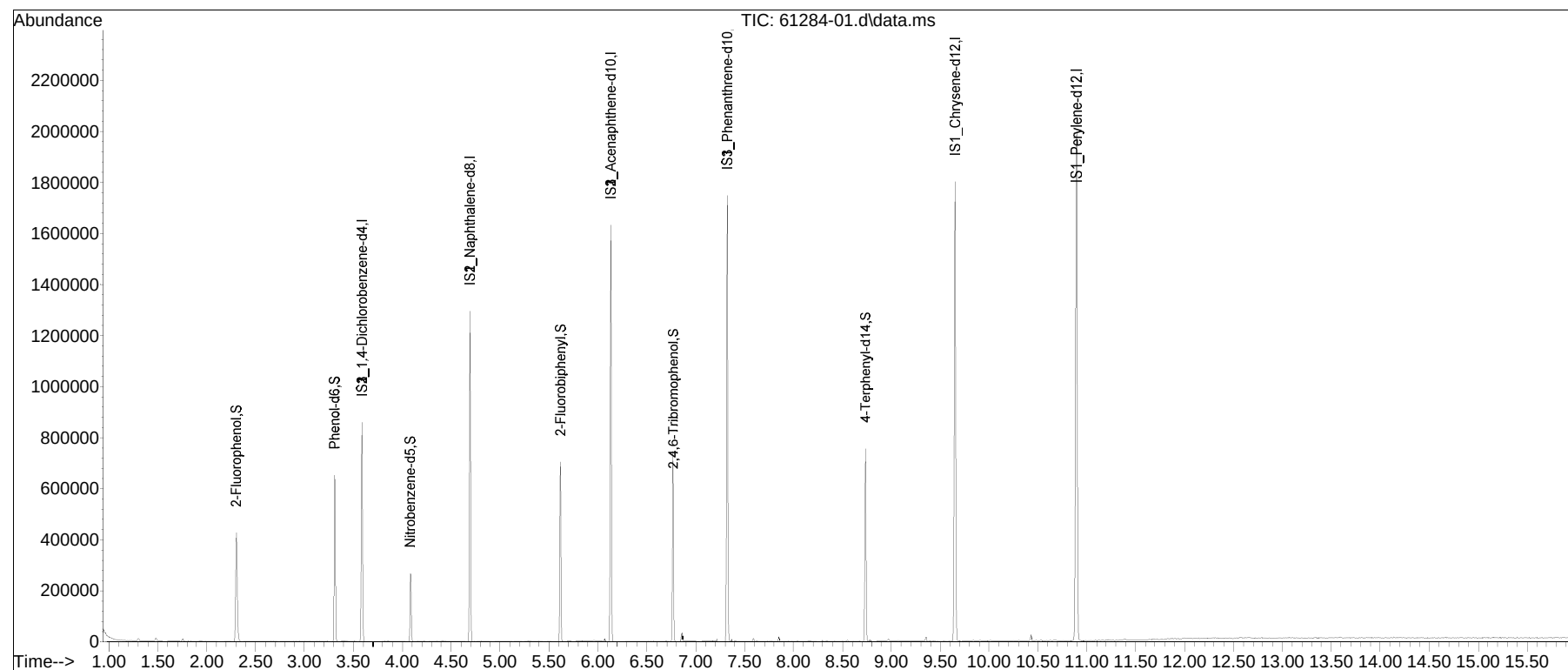
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 26 13:04:50 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

Sub List : 8270TCL\_REV2 - TCL/CT/MAN\AP91223n.d•



# Manual Integration Report

|            |                          |            |                       |
|------------|--------------------------|------------|-----------------------|
| Data Path  | : I:\8270\GCMS5\191223n\ | QMethod    | : FS190609gcms5.m     |
| Data File  | : 61284-01.d             | Operator   | : gcms5:ek            |
| Date Inj'd | : 12/24/2019 2:09 am     | Instrument | : GCMS5               |
| Sample     | : l1961284-01,32,,ny,ask | Quant Date | : 12/26/2019 12:17 pm |

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



# LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 61284-01.d\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.305       | 252           | 257         | 266          | rVB      | 426521         | 449137        | 22.42%          | 4.153%        |
| 2         | 3.309       | 441           | 445         | 449          | rBV      | 651502         | 477819        | 23.85%          | 4.419%        |
| 3         | 3.587       | 493           | 497         | 501          | rVB      | 859241         | 705278        | 35.21%          | 6.522%        |
| 4         | 4.084       | 587           | 590         | 594          | rBV      | 266120         | 216186        | 10.79%          | 1.999%        |
| 5         | 4.693       | 701           | 704         | 708          | rVB      | 1294172        | 917417        | 45.80%          | 8.484%        |
| 6         | 5.617       | 873           | 877         | 880          | rBV      | 703532         | 539133        | 26.92%          | 4.986%        |
| 7         | 6.135       | 970           | 974         | 977          | rBV      | 1634349        | 1212797       | 60.55%          | 11.215%       |
| 8         | 6.766       | 1089          | 1092        | 1096         | rBV      | 745568         | 553037        | 27.61%          | 5.114%        |
| 9         | 6.862       | 1106          | 1110        | 1112         | rBV      | 32720          | 27016         | 1.35%           | 0.250%        |
| 10        | 7.321       | 1192          | 1196        | 1199         | rBV      | 1747090        | 1360932       | 67.94%          | 12.585%       |
| 11        | 8.737       | 1456          | 1461        | 1465         | rBV      | 756524         | 646633        | 32.28%          | 5.980%        |
| 12        | 9.656       | 1628          | 1633        | 1637         | rBV      | 1802782        | 1680339       | 83.89%          | 15.539%       |
| 13        | 10.425      | 1772          | 1777        | 1783         | rBV2     | 23187          | 24982         | 1.25%           | 0.231%        |
| 14        | 10.895      | 1859          | 1865        | 1869         | rBV      | 1992222        | 2003077       | 100.00%         | 18.523%       |

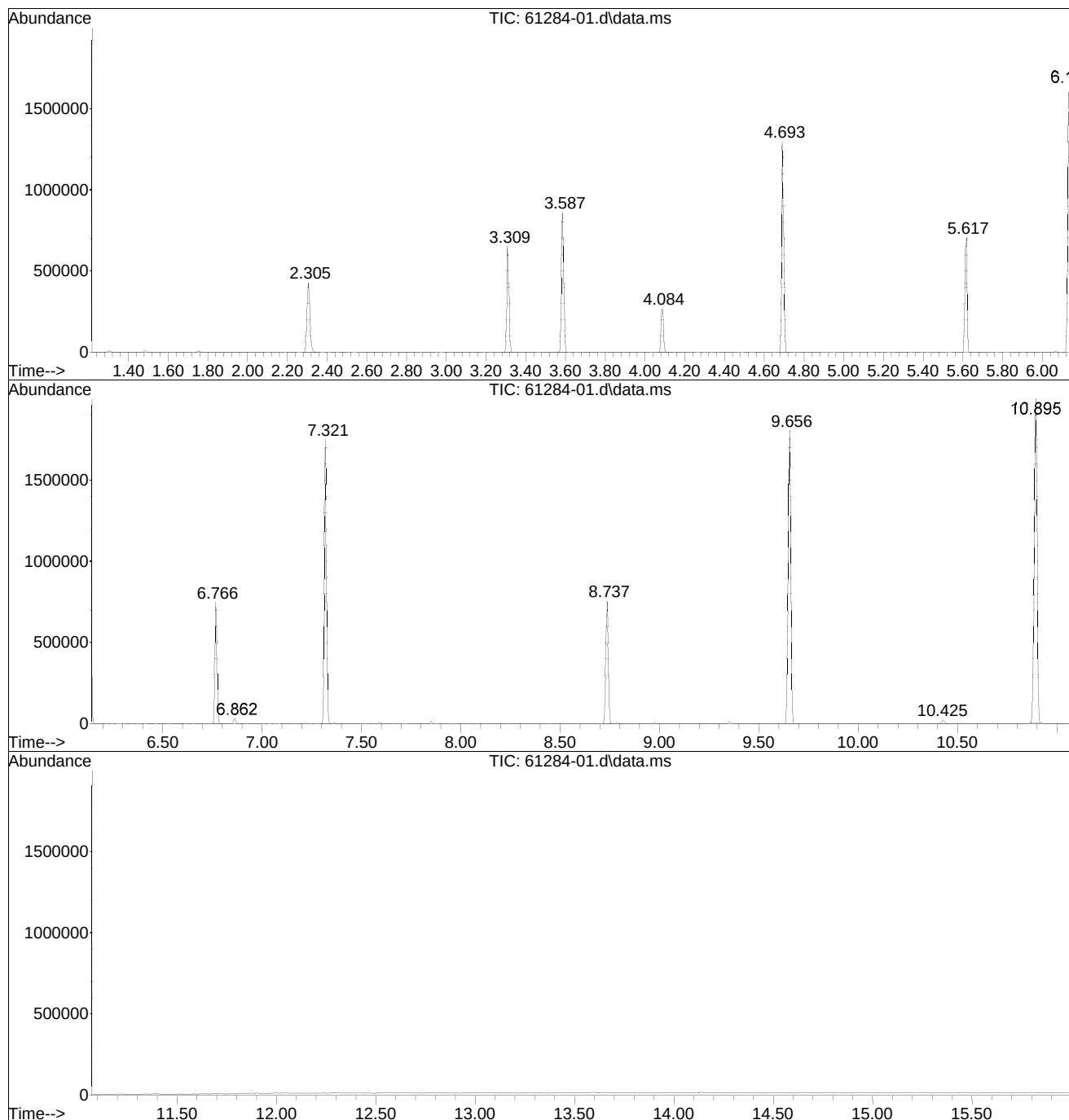
Sum of corrected areas: 10813783

# LSC Report - Integrated Chromatogram

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-01.d  
Acq On : 24 Dec 2019 2:09 am  
Operator : gcms5:ek  
Sample : l1961284-01,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-01.d  
Acq On : 24 Dec 2019 2:09 am  
Operator : gcms5:ek  
Sample : l1961284-01,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 1 Sample Multiplier: 1  
  
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
  
TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

\*\*\*\*\*

# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-01.d  
 Acq On : 24 Dec 2019 2:09 am  
 Operator : gcms5:ek  
 Sample : l1961284-01,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : 11961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 26 13:06:57 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|---------|----------|
| Internal Standards            |                |      |          |        |         |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.587          | 152  | 125716   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 230273      |                |      | Recovery | =      | 54.59%  |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.587          | 152  | 125716   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 218924      |                |      | Recovery | =      | 57.42%  |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.587          | 152  | 125716   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 228352      |                |      | Recovery | =      | 55.05%  |          |
| 35) IS1_Naphthalene-d8        | 4.693          | 136  | 473442   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 837477      |                |      | Recovery | =      | 56.53%  |          |
| 55) IS2_Naphthalene-d8        | 4.693          | 136  | 473442   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 792530      |                |      | Recovery | =      | 59.74%  |          |
| 63) IS1_Acenaphthene-d10      | 6.135          | 164  | 272254   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 496701      |                |      | Recovery | =      | 54.81%  |          |
| 83) IS2_Acenaphthene-d10      | 6.135          | 164  | 272254   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 449723      |                |      | Recovery | =      | 60.54%  |          |
| 86) IS3_Acenaphthene-d10      | 6.135          | 164  | 272254   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 468017      |                |      | Recovery | =      | 58.17%  |          |
| 88) IS1_Phenanthrene-d10      | 7.321          | 188  | 587069   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 1076593     |                |      | Recovery | =      | 54.53%  |          |
| 100) IS3_Phenanthrene-d10     | 7.321          | 188  | 587069   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 989066      |                |      | Recovery | =      | 59.36%  |          |
| 104) IS1_Chrysene-d12         | 9.656          | 240  | 709120   | 40.000 | ug/ml   | #-0.01   |
| Standard Area 1 = 1191633     |                |      | Recovery | =      | 59.51%  |          |
| 113) IS1_Perylene-d12         | 10.895         | 264  | 865342   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 1381786     |                |      | Recovery | =      | 62.62%  |          |
| System Monitoring Compounds   |                |      |          |        |         |          |
| 4) 2-Fluorophenol             | 2.305          | 112  | 143363   | 41.241 | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 82.48%  |          |
| 7) Phenol-d6                  | 3.309          | 99   | 177782   | 42.251 | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 84.50%  |          |
| 19) Nitrobenzene-d5           | 4.084          | 82   | 73759    | 19.559 | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 78.24%  |          |
| 46) 2-Fluorobiphenyl          | 5.617          | 172  | 174203   | 17.067 | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 68.27%  |          |
| 79) 2,4,6-Tribromophenol      | 6.771          | 330  | 94509    | 52.688 | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 105.38% |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 26 13:06:57 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| 96) 4-Terphenyl-d14           | 8.737  | 244   | 225818   | 17.296   | ug/ml  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 69.18%   |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        | N.D.     |        |          |
| 8) Phenol                     | 0.000  |       | 0        | N.D.     |        |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        | N.D.     |        |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        | N.D.     |        |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        | N.D.     |        |          |
| 16) Hexachloroethane          | 0.000  |       | 0        | N.D.     | d      |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        | N.D.     | d      |          |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        | N.D.     |        |          |
| 20) Nitrobenzene              | 0.000  |       | 0        | N.D.     | d      |          |
| 21) Isophorone                | 0.000  |       | 0        | N.D.     | d      |          |
| 22) 2-Nitrophenol             | 0.000  |       | 0        | N.D.     | d      |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        | N.D.     | d      |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        | N.D.     | d      |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        | N.D.     | d      |          |
| 28) Benzaldehyde              | 0.000  |       | 0        | N.D.     |        |          |
| 29) Acetophenone              | 0.000  |       | 0        | N.D.     | d      |          |
| 36) Naphthalene               | 4.709  | 128   | 63896    | 5.318    | ug/ml# | 80       |
| 38) 4-Chloroaniline           | 0.000  |       | 0        | N.D.     | d      |          |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        | N.D.     |        |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        | N.D.     | d      |          |
| 41) 2-Methylnaphthalene       | 5.297  | 142   | 263177   | 30.080   | ug/ml  | 96       |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        | N.D.     |        |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d      |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d      |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        | N.D.     | d      |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        | N.D.     | d      |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        | N.D.     | d      |          |
| 52) Acenaphthylene            | 0.000  |       | 0        | N.D.     | d      |          |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        | N.D.     | d      |          |
| 60) Caprolactam               | 0.000  |       | 0        | N.D.     | d      |          |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        | N.D.     |        |          |
| 62) Biphenyl                  | 5.686  | 154   | 39000    | 3.898    | ug/ml  | 96       |
| 64) 3-Nitroaniline            | 0.000  |       | 0        | N.D.     | d      |          |

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : 11961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 26 13:06:57 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                       | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 65) Acenaphthene               | 6.157 | 154  | 8254M3   | 1.038 | ug/ml  |          |
| 66) 2,4-Dinitrophenol          | 0.000 |      | 0        | N.D.  |        |          |
| 67) Dibenzofuran               | 6.301 | 168  | 22219    | 1.851 | ug/ml# | 84       |
| 68) 2,4-Dinitrotoluene         | 0.000 |      | 0        | N.D.  | d      |          |
| 69) 4-Nitrophenol              | 0.000 |      | 0        | N.D.  | d      |          |
| 71) 2,3,4,6-Tetrachlorophenol  | 0.000 |      | 0        | N.D.  |        |          |
| 72) Diethyl phthalate          | 0.000 |      | 0        | N.D.  | d      |          |
| 73) Fluorene                   | 6.579 | 166  | 23286    | 2.443 | ug/ml# | 71       |
| 74) 4-Chlorophenyl phenyl ...  | 0.000 |      | 0        | N.D.  | d      |          |
| 75) 4-Nitroaniline             | 0.000 |      | 0        | N.D.  | d      |          |
| 76) 4,6-Dinitro-o-cresol       | 0.000 |      | 0        | N.D.  | d      |          |
| 77) NDPA/DPA                   | 0.000 |      | 0        | N.D.  | d      |          |
| 80) 4-Bromophenyl phenyl e...  | 0.000 |      | 0        | N.D.  |        |          |
| 81) Hexachlorobenzene          | 0.000 |      | 0        | N.D.  |        |          |
| 82) Pentachlorophenol          | 0.000 |      | 0        | N.D.  |        |          |
| 87) Atrazine                   | 0.000 |      | 0        | N.D.  | d      |          |
| 89) Phenanthrene               | 7.337 | 178  | 91858    | 5.494 | ug/ml  | 96       |
| 90) Anthracene                 | 7.380 | 178  | 6563     | 0.400 | ug/ml# | 1        |
| 91) Carbazole                  | 0.000 |      | 0        | N.D.  | d      |          |
| 92) Di-n-butylphthalate        | 0.000 |      | 0        | N.D.  | d      |          |
| 93) Fluoranthene               | 8.352 | 202  | 5954     | 0.305 | ug/ml# | 91       |
| 95) Pyrene                     | 8.545 | 202  | 10248    | 0.487 | ug/ml# | 77       |
| 97) Butyl benzyl phthalate     | 0.000 |      | 0        | N.D.  |        |          |
| 105) Benzo(a)anthracene        | 0.000 |      | 0        | N.D.  | d      |          |
| 106) 3,3'-Dichlorobenzidine    | 0.000 |      | 0        | N.D.  |        |          |
| 107) Chrysene                  | 0.000 |      | 0        | N.D.  | d      |          |
| 108) Bis(2-ethylhexyl)phtha... | 0.000 |      | 0        | N.D.  | d      |          |
| 109) Di-n-octylphthalate       | 0.000 |      | 0        | N.D.  | d      |          |
| 110) Benzo(b)fluoranthene      | 0.000 |      | 0        | N.D.  | d      |          |
| 111) Benzo(k)fluoranthene      | 0.000 |      | 0        | N.D.  | d      |          |
| 112) Benzo(a)pyrene            | 0.000 |      | 0        | N.D.  | d      |          |
| 114) Indeno(1,2,3-cd)pyrene    | 0.000 |      | 0        | N.D.  | d      |          |
| 115) Dibenzo(a,h)anthracene    | 0.000 |      | 0        | N.D.  | d      |          |
| 116) Benzo(ghi)perylene        | 0.000 |      | 0        | N.D.  | d      |          |

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

# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 26 13:06:57 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

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

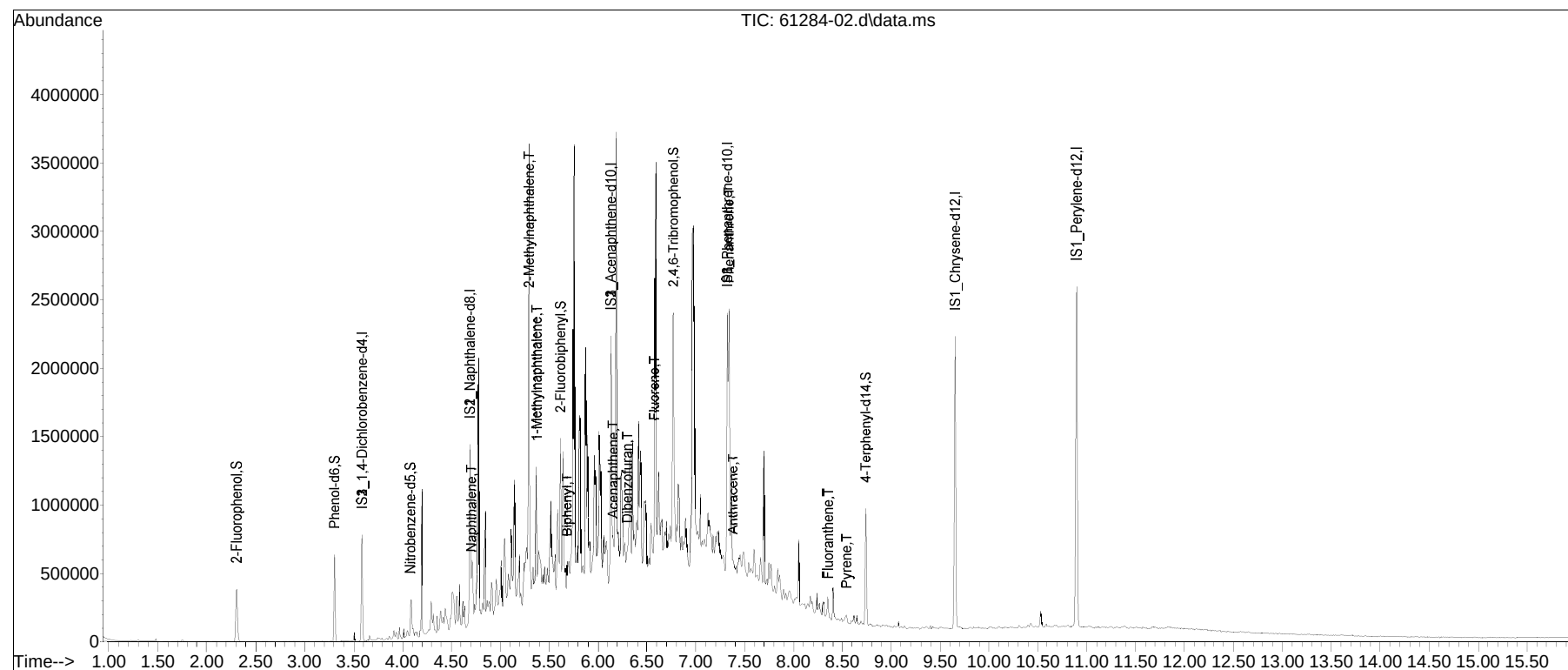


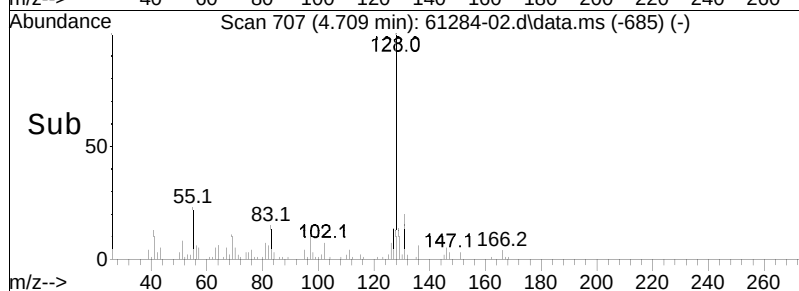
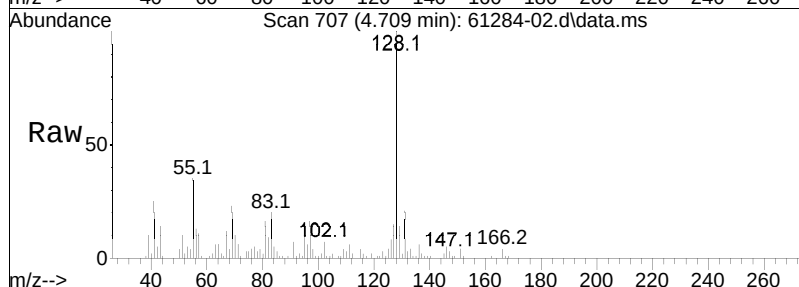
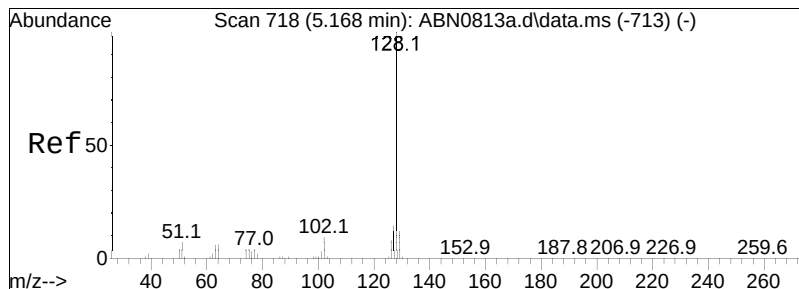
# Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 26 13:06:57 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

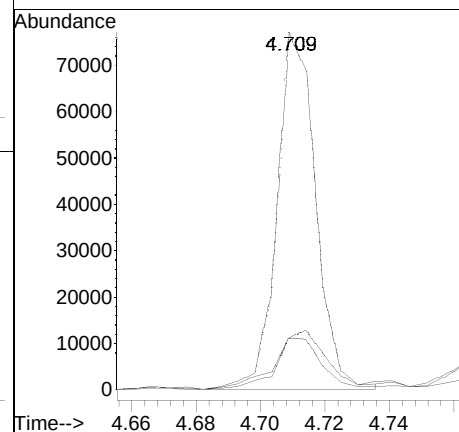
Sub List : 8270TCL\_REV2 - TCL/CT/MAN\AP91223n.d•

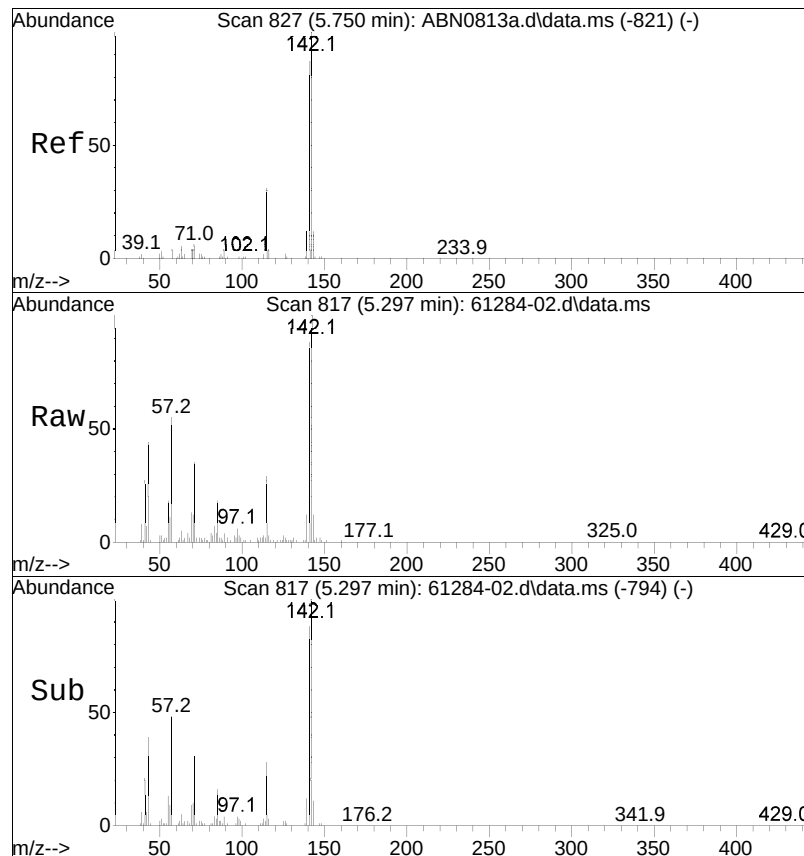




#36  
Naphthalene  
Concen: 5.32 ug/ml  
RT: 4.709 min Scan# 707  
Delta R.T. -0.005 min  
Lab File: 61284-02.d  
Acq: 24 Dec 2019 2:54 am

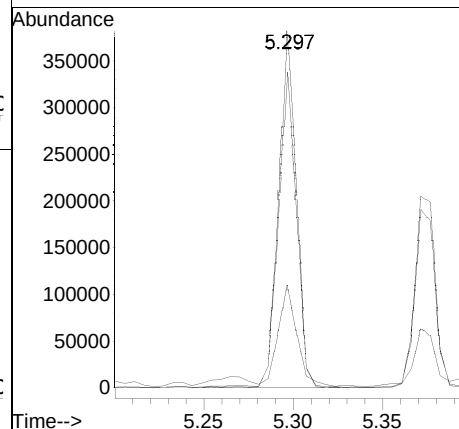
| Tgt Ion | Ratio | Resp: Lower | Upper |
|---------|-------|-------------|-------|
| 128     | 100   |             |       |
| 129     | 24.6  | 9.0         | 13.6# |
| 127     | 17.6  | 11.3        | 16.9# |

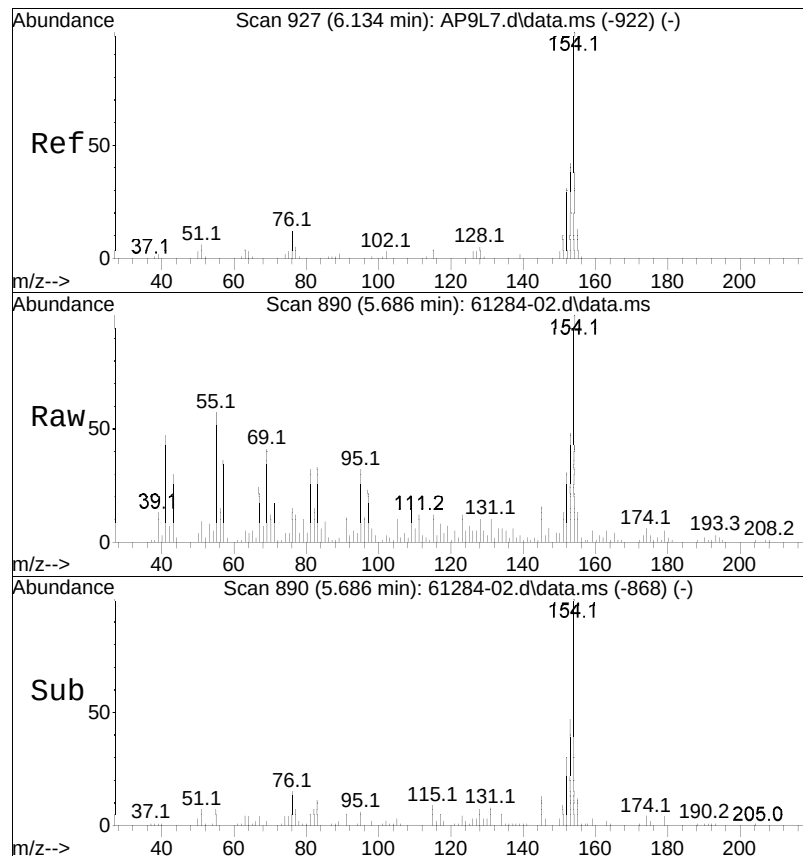




#41  
 2-Methylnaphthalene  
 Concen: 30.08 ug/ml  
 RT: 5.297 min Scan# 817  
 Delta R.T. 0.000 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

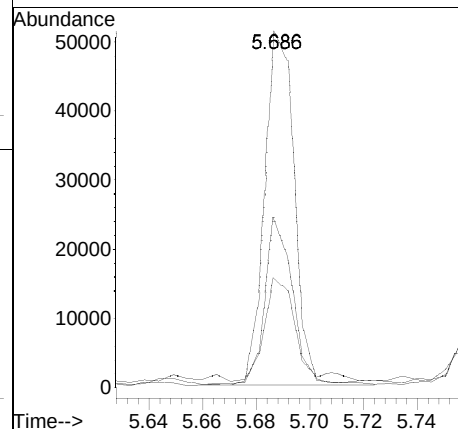
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 263177 |       |       |
| 141     | 90.8  |        | 69.5  | 104.3 |
| 115     | 30.1  |        | 25.4  | 38.2  |

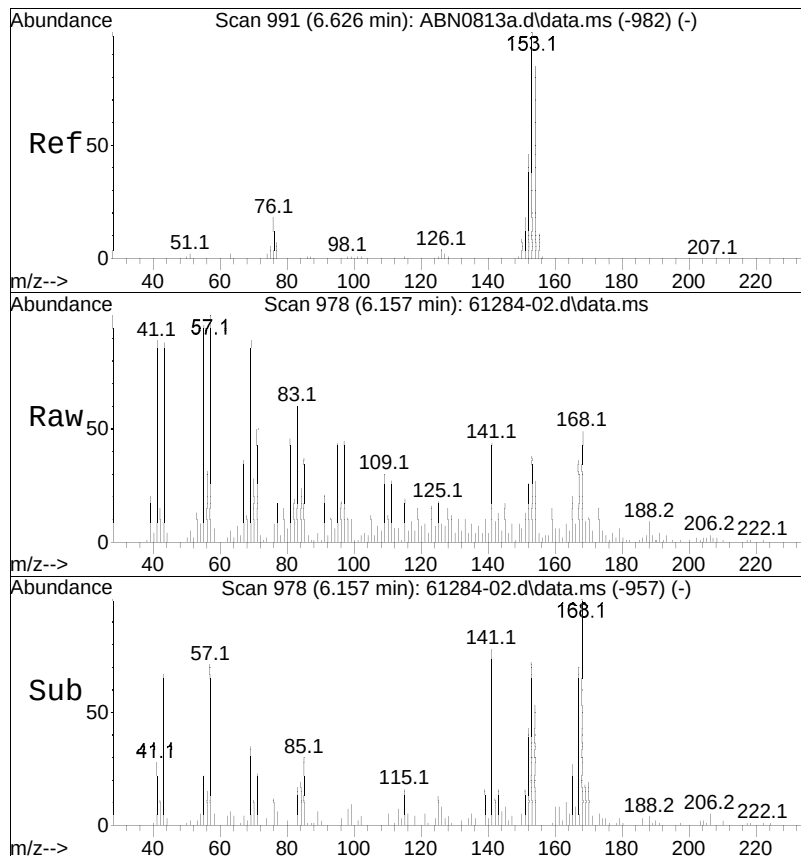




#62  
 Biphenyl  
 Concen: 3.90 ug/ml  
 RT: 5.686 min Scan# 890  
 Delta R.T. -0.005 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

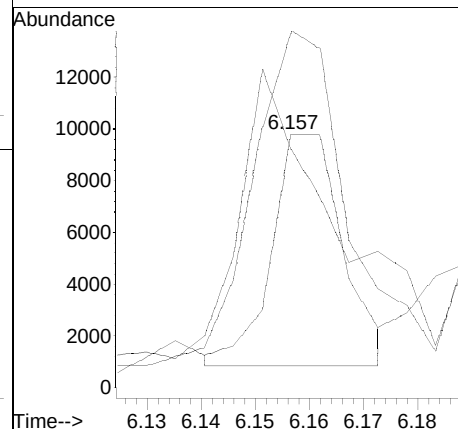
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 39000 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 43.3  | 33.8  | 50.8  |
| 152       | 32.9  | 23.0  | 34.6  |

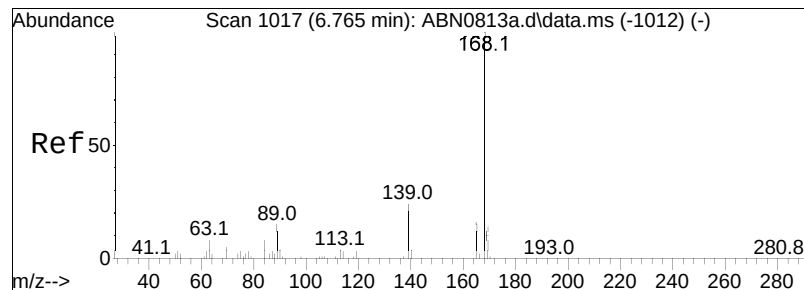




#65  
 Acenaphthene  
 Concen: 1.04 ug/ml M3  
 RT: 6.157 min Scan# 978  
 Delta R.T. -0.011 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

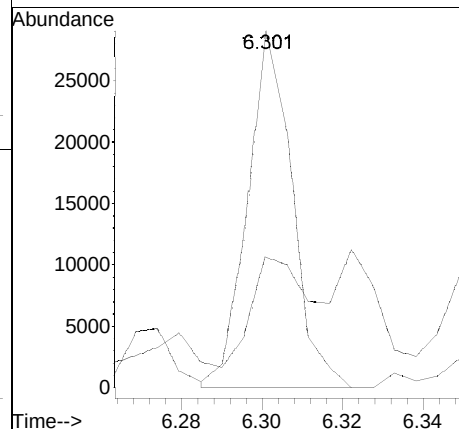
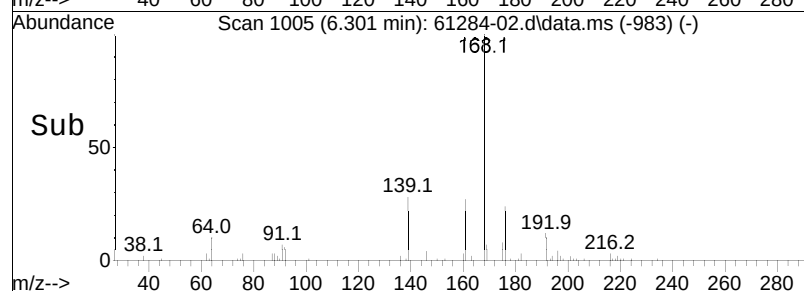
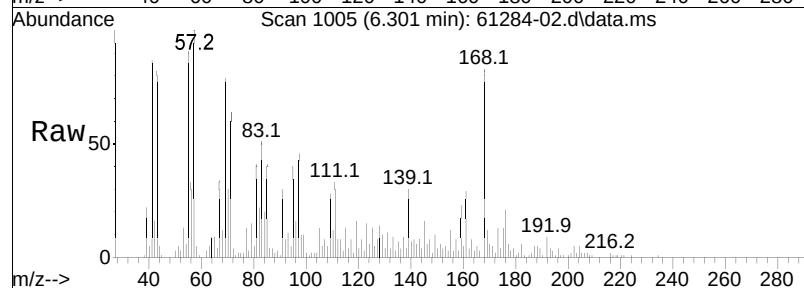
| Tgt | Ion   | Ratio | Resp | Lower  | Upper |
|-----|-------|-------|------|--------|-------|
| 154 | 100   |       | 8254 |        |       |
| 153 | 198.7 | 89.4  |      | 134.0# |       |
| 152 | 185.1 | 42.2  |      | 63.2#  |       |

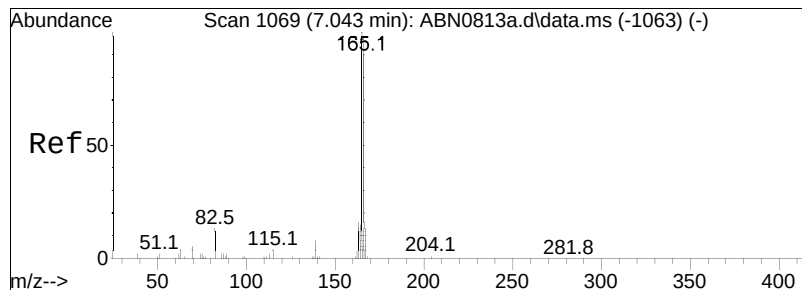




#67  
Dibenzenofuran  
Concen: 1.85 ug/ml  
RT: 6.301 min Scan# 1005  
Delta R.T. -0.005 min  
Lab File: 61284-02.d  
Acq: 24 Dec 2019 2:54 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 44.1  | 28.0  | 42.0# |





#73

Fluorene

Concen: 2.44 ug/ml

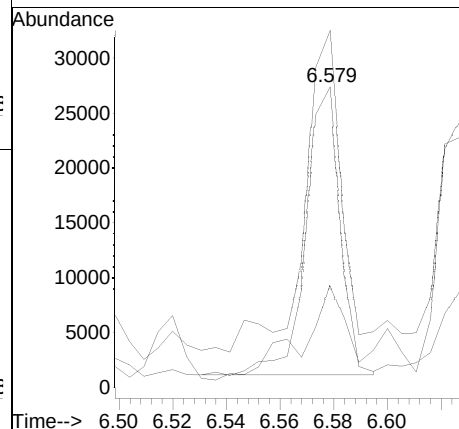
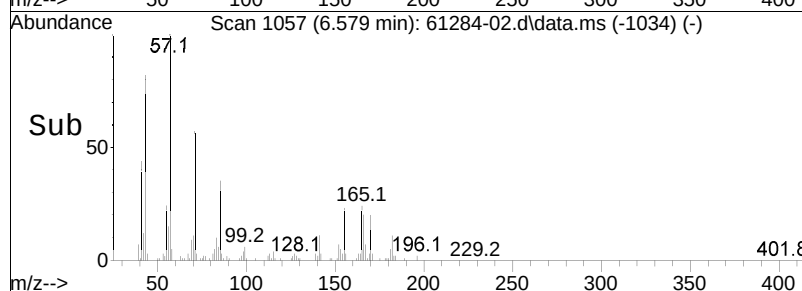
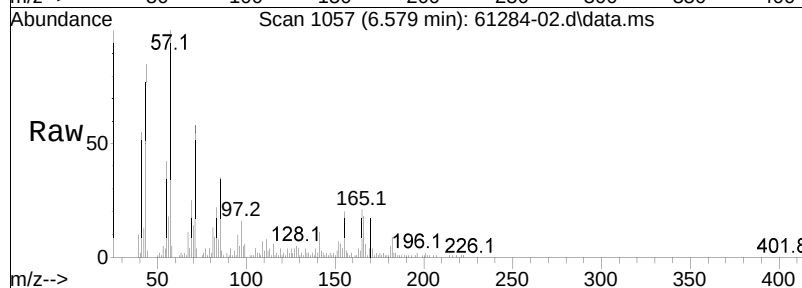
RT: 6.579 min Scan# 1057

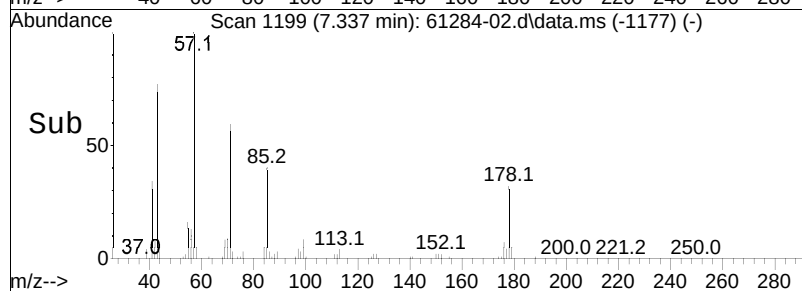
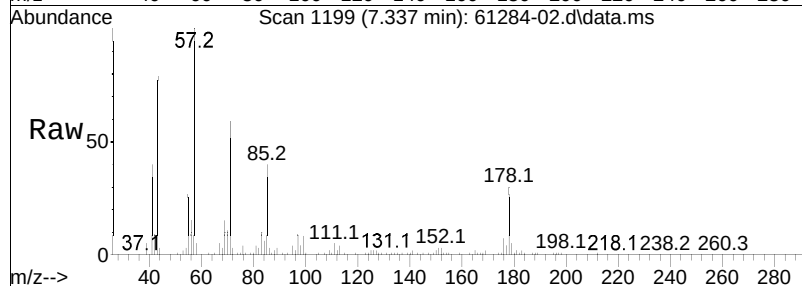
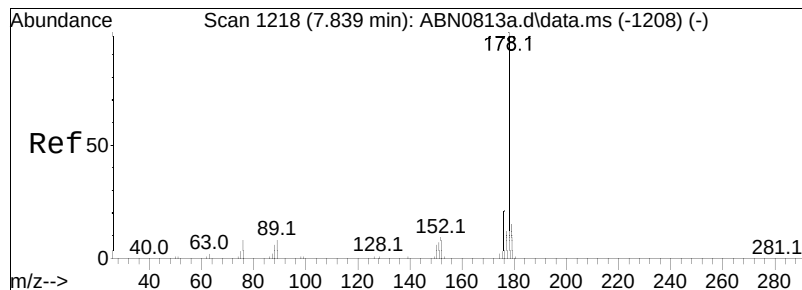
Delta R.T. 0.000 min

Lab File: 61284-02.d

Acq: 24 Dec 2019 2:54 am

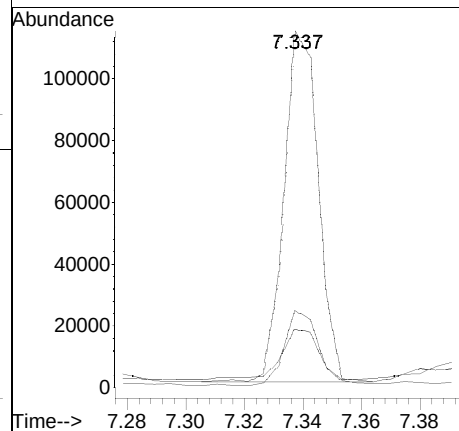
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 166     | 100   |       |        |
| 165     | 118.0 | 77.2  | 115.8# |
| 167     | 44.1  | 10.9  | 16.3#  |



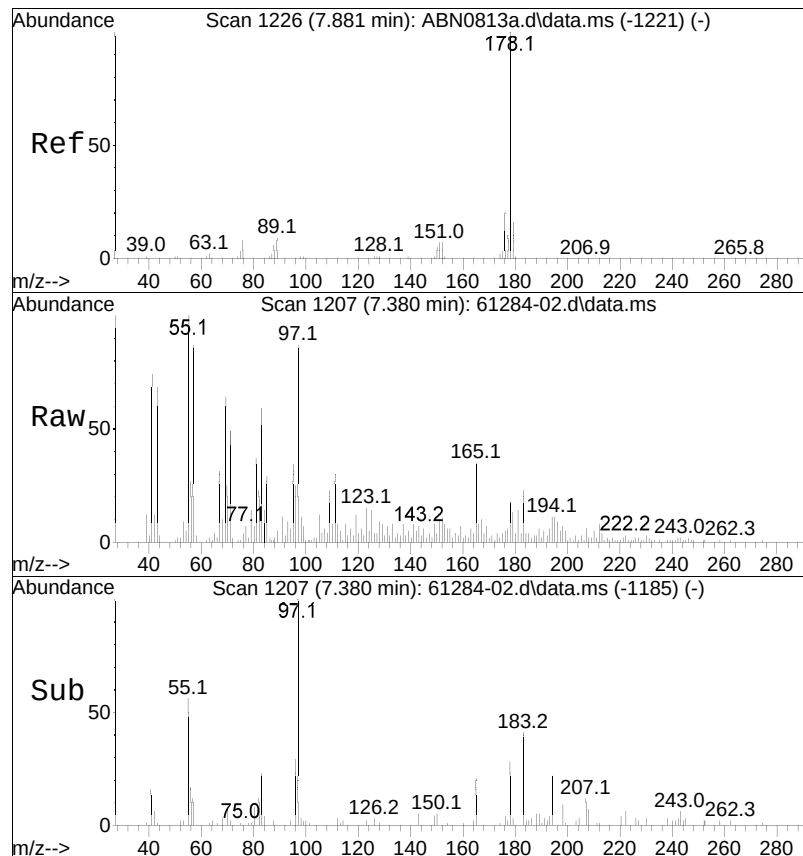


#89  
 Phenanthrene  
 Concen: 5.49 ug/ml  
 RT: 7.337 min Scan# 1199  
 Delta R.T. -0.005 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 91858 |       |       |
| 179     | 16.6  |       | 12.7  | 19.1  |
| 176     | 22.0  |       | 15.8  | 23.6  |

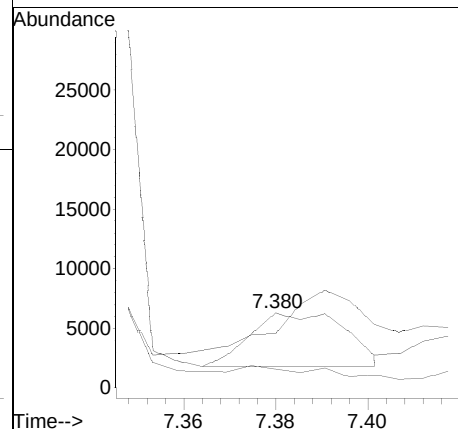


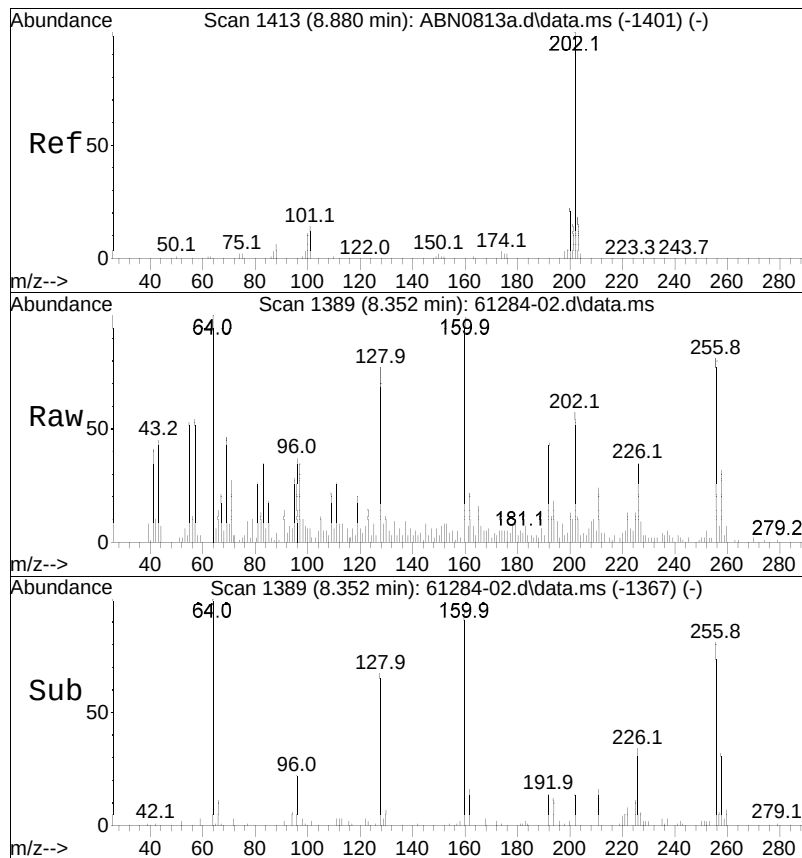




#90  
 Anthracene  
 Concen: 0.40 ug/ml  
 RT: 7.380 min Scan# 1207  
 Delta R.T. -0.005 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

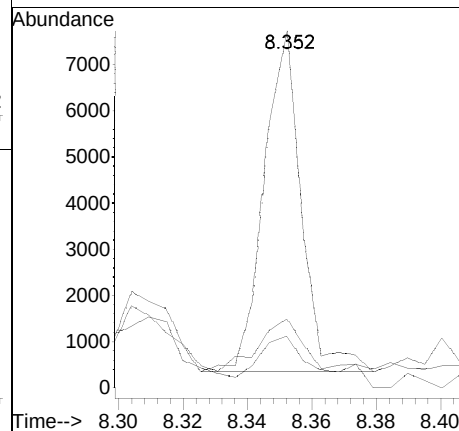
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   | 6563 |       |       |
| 179     | 131.4 |      | 12.5  | 18.7# |
| 176     | 21.4  |      | 15.4  | 23.0  |

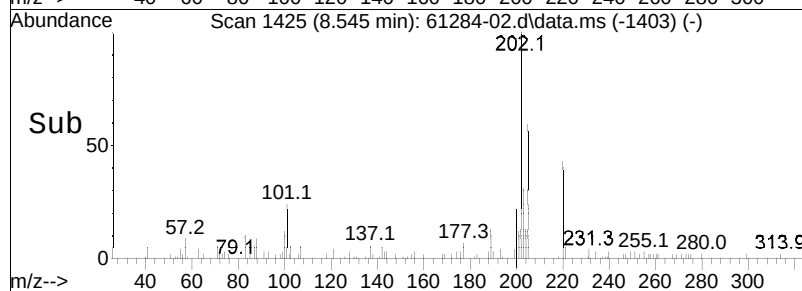
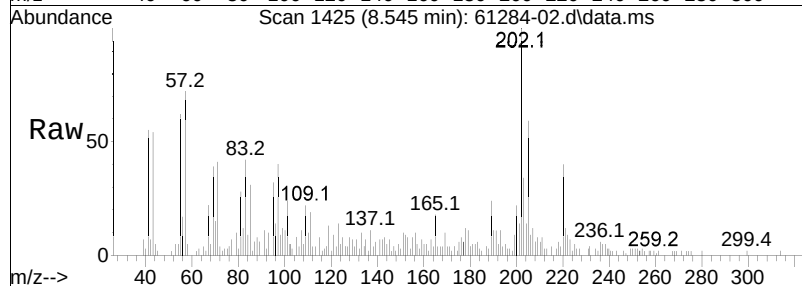
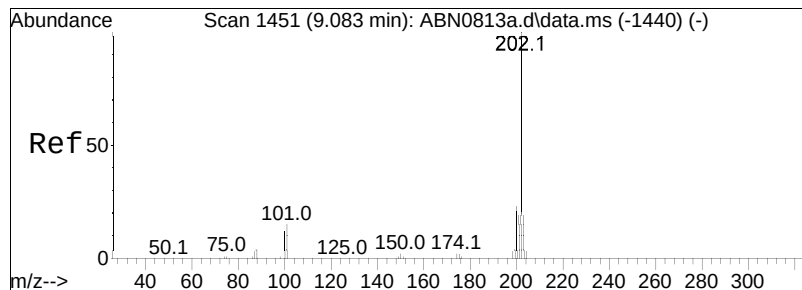




#93  
 Fluoranthene  
 Concen: 0.31 ug/ml  
 RT: 8.352 min Scan# 1389  
 Delta R.T. -0.005 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

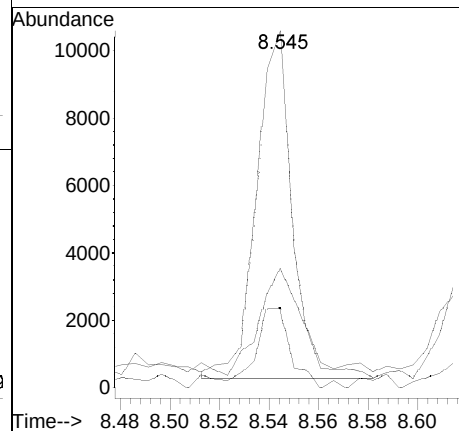
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 5954  |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 23.9  | 12.6  | 19.0# |
| 203       | 18.3  | 14.4  | 21.6  |





#95  
 Pyrene  
 Concen: 0.49 ug/ml  
 RT: 8.545 min Scan# 1425  
 Delta R.T. -0.005 min  
 Lab File: 61284-02.d  
 Acq: 24 Dec 2019 2:54 am

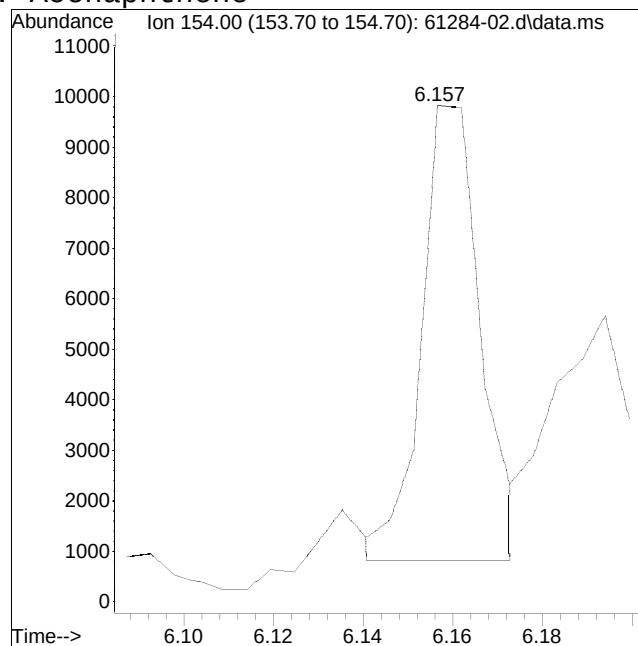
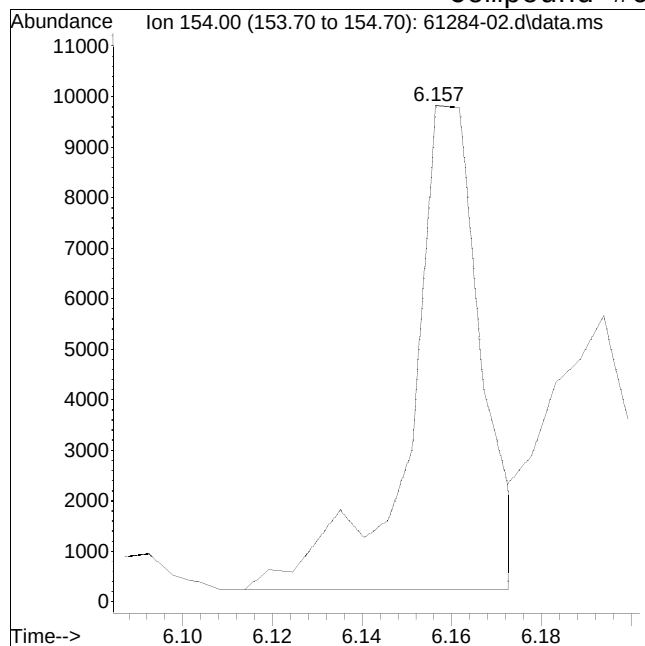
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 25.6  | 17.2  | 25.8  |
| 203     | 36.3  | 15.0  | 22.6  |



# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 61284-02.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 2:54 am Instrument : GCMS5  
Sample : l1961284-02,32,,ny,ask Quant Date : 12/26/2019 12:17 pm

## Compound #65: Acenaphthene



Original Peak Response = 10778

Manual Peak Response = 8254 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

## LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 61284-02.d\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.305       | 252           | 257         | 267          | rBV      | 380251         | 424967        | 10.82%          | 0.707%        |
| 2         | 3.309       | 441           | 445         | 449          | rBV      | 632718         | 462294        | 11.77%          | 0.769%        |
| 3         | 3.587       | 493           | 497         | 501          | rBV      | 778497         | 658434        | 16.76%          | 1.095%        |
| 4         | 3.966       | 565           | 568         | 573          | rVB2     | 83691          | 78872         | 2.01%           | 0.131%        |
| 5         | 4.009       | 573           | 576         | 579          | rBV      | 71643          | 60243         | 1.53%           | 0.100%        |
| 6         | 4.052       | 579           | 584         | 588          | rBV3     | 50808          | 58470         | 1.49%           | 0.097%        |
| 7         | 4.084       | 588           | 590         | 596          | rBV2     | 264386         | 265595        | 6.76%           | 0.442%        |
| 8         | 4.137       | 596           | 600         | 606          | rVB3     | 41119          | 64176         | 1.63%           | 0.107%        |
| 9         | 4.201       | 606           | 612         | 615          | rBV      | 1079414        | 875153        | 22.27%          | 1.456%        |
| 10        | 4.298       | 627           | 630         | 632          | rVV      | 222735         | 189099        | 4.81%           | 0.315%        |
| 11        | 4.319       | 632           | 634         | 636          | rVB      | 122414         | 74063         | 1.89%           | 0.123%        |
| 12        | 4.362       | 639           | 642         | 645          | rBV      | 124354         | 100264        | 2.55%           | 0.167%        |
| 13        | 4.399       | 645           | 649         | 651          | rBV2     | 140769         | 144148        | 3.67%           | 0.240%        |
| 14        | 4.442       | 655           | 657         | 664          | rVB4     | 158310         | 210787        | 5.36%           | 0.351%        |
| 15        | 4.511       | 664           | 670         | 675          | rBV5     | 275571         | 536728        | 13.66%          | 0.893%        |
| 16        | 4.554       | 675           | 678         | 680          | rBV2     | 203401         | 166209        | 4.23%           | 0.277%        |
| 17        | 4.581       | 680           | 683         | 687          | rVB4     | 297191         | 279651        | 7.12%           | 0.465%        |
| 18        | 4.618       | 687           | 690         | 692          | rBV      | 174936         | 144872        | 3.69%           | 0.241%        |
| 19        | 4.634       | 692           | 693         | 697          | rVB2     | 156847         | 112665        | 2.87%           | 0.187%        |
| 20        | 4.693       | 700           | 704         | 706          | rBV      | 1316770        | 1096632       | 27.91%          | 1.824%        |
| 21        | 4.714       | 706           | 708         | 711          | rVB3     | 394490         | 350208        | 8.91%           | 0.583%        |
| 22        | 4.778       | 714           | 720         | 723          | rVB      | 1848585        | 1498384       | 38.14%          | 2.493%        |
| 23        | 4.821       | 726           | 728         | 730          | rBV      | 82825          | 66691         | 1.70%           | 0.111%        |
| 24        | 4.848       | 730           | 733         | 735          | rVB      | 731260         | 519130        | 13.21%          | 0.864%        |
| 25        | 4.869       | 735           | 737         | 739          | rBV3     | 81416          | 58990         | 1.50%           | 0.098%        |
| 26        | 4.907       | 742           | 744         | 749          | rVB4     | 238379         | 247972        | 6.31%           | 0.413%        |
| 27        | 4.960       | 751           | 754         | 757          | rBV2     | 201607         | 147991        | 3.77%           | 0.246%        |
| 28        | 5.008       | 757           | 763         | 767          | rVB5     | 328007         | 398250        | 10.14%          | 0.663%        |

## LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |         |         |        |        |
|----|-------|------|------|------|------|---------|---------|--------|--------|
| 29 | 5.051 | 767  | 771  | 774  | rBV2 | 492364  | 530451  | 13.50% | 0.882% |
| 30 | 5.083 | 774  | 777  | 780  | rBV3 | 175484  | 169466  | 4.31%  | 0.282% |
| 31 | 5.110 | 780  | 782  | 785  | rVV3 | 441064  | 371052  | 9.44%  | 0.617% |
| 32 | 5.147 | 785  | 789  | 793  | rVB2 | 848192  | 851720  | 21.68% | 1.417% |
| 33 | 5.195 | 793  | 798  | 800  | rVB4 | 311307  | 341311  | 8.69%  | 0.568% |
| 34 | 5.243 | 803  | 807  | 808  | rBV2 | 318729  | 316890  | 8.07%  | 0.527% |
| 35 | 5.270 | 810  | 812  | 813  | rVV2 | 247995  | 204371  | 5.20%  | 0.340% |
| 36 | 5.291 | 813  | 816  | 821  | rVB2 | 3256669 | 2932216 | 74.63% | 4.878% |
| 37 | 5.334 | 821  | 824  | 826  | rBV2 | 163264  | 152020  | 3.87%  | 0.253% |
| 38 | 5.371 | 826  | 831  | 833  | rBV2 | 855797  | 701911  | 17.86% | 1.168% |
| 39 | 5.393 | 833  | 835  | 841  | rVB6 | 241047  | 328998  | 8.37%  | 0.547% |
| 40 | 5.451 | 844  | 846  | 849  | rVB3 | 131091  | 95479   | 2.43%  | 0.159% |
| 41 | 5.478 | 849  | 851  | 854  | rBV4 | 122096  | 114644  | 2.92%  | 0.191% |
| 42 | 5.516 | 854  | 858  | 864  | rBV3 | 592528  | 824024  | 20.97% | 1.371% |
| 43 | 5.558 | 864  | 866  | 869  | rVB3 | 255594  | 209253  | 5.33%  | 0.348% |
| 44 | 5.590 | 869  | 872  | 875  | rBV3 | 590603  | 651345  | 16.58% | 1.084% |
| 45 | 5.617 | 875  | 877  | 879  | rVB  | 976164  | 637625  | 16.23% | 1.061% |
| 46 | 5.644 | 879  | 882  | 885  | rBV  | 880621  | 634289  | 16.14% | 1.055% |
| 47 | 5.692 | 888  | 891  | 892  | rBV  | 200150  | 185036  | 4.71%  | 0.308% |
| 48 | 5.756 | 896  | 903  | 907  | rBV2 | 3140463 | 3181211 | 80.97% | 5.292% |
| 49 | 5.788 | 907  | 909  | 911  | rVB2 | 120125  | 72005   | 1.83%  | 0.120% |
| 50 | 5.815 | 911  | 914  | 918  | rVB  | 1149208 | 1170164 | 29.78% | 1.947% |
| 51 | 5.873 | 922  | 925  | 927  | rBV  | 1654922 | 1336287 | 34.01% | 2.223% |
| 52 | 5.895 | 927  | 929  | 931  | rVB  | 820445  | 529677  | 13.48% | 0.881% |
| 53 | 5.964 | 939  | 942  | 943  | rBV2 | 705685  | 527556  | 13.43% | 0.878% |
| 54 | 6.012 | 947  | 951  | 953  | rBV2 | 915974  | 907456  | 23.10% | 1.510% |
| 55 | 6.060 | 958  | 960  | 962  | rBV  | 232448  | 202475  | 5.15%  | 0.337% |
| 56 | 6.135 | 970  | 974  | 976  | rBV  | 1794553 | 1406551 | 35.80% | 2.340% |
| 57 | 6.183 | 979  | 983  | 987  | rVV2 | 3249336 | 3106451 | 79.06% | 5.168% |
| 58 | 6.242 | 990  | 994  | 998  | rVV  | 738636  | 938539  | 23.89% | 1.561% |
| 59 | 6.274 | 998  | 1000 | 1002 | rVV2 | 183405  | 146510  | 3.73%  | 0.244% |
| 60 | 6.322 | 1006 | 1009 | 1012 | rVV  | 840700  | 707288  | 18.00% | 1.177% |

# LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |         |         |         |        |
|----|-------|------|------|------|------|---------|---------|---------|--------|
| 61 | 6.354 | 1012 | 1015 | 1017 | rVV  | 880130  | 712319  | 18.13%  | 1.185% |
| 62 | 6.392 | 1020 | 1022 | 1024 | rVV  | 267153  | 264925  | 6.74%   | 0.441% |
| 63 | 6.413 | 1024 | 1026 | 1028 | rVV2 | 974319  | 855139  | 21.76%  | 1.423% |
| 64 | 6.434 | 1028 | 1030 | 1034 | rVB2 | 817689  | 853320  | 21.72%  | 1.420% |
| 65 | 6.482 | 1034 | 1039 | 1044 | rVB4 | 480983  | 876923  | 22.32%  | 1.459% |
| 66 | 6.547 | 1048 | 1051 | 1055 | rBV3 | 306148  | 361028  | 9.19%   | 0.601% |
| 67 | 6.589 | 1055 | 1059 | 1062 | rBV  | 2858148 | 2342826 | 59.63%  | 3.898% |
| 68 | 6.621 | 1062 | 1065 | 1068 | rVB3 | 467970  | 411081  | 10.46%  | 0.684% |
| 69 | 6.680 | 1074 | 1076 | 1077 | rBV  | 131443  | 90645   | 2.31%   | 0.151% |
| 70 | 6.771 | 1089 | 1093 | 1098 | rVV2 | 1683340 | 1777072 | 45.23%  | 2.956% |
| 71 | 6.803 | 1098 | 1099 | 1101 | rVV2 | 158508  | 128988  | 3.28%   | 0.215% |
| 72 | 6.824 | 1101 | 1103 | 1108 | rVB3 | 487982  | 517055  | 13.16%  | 0.860% |
| 73 | 6.899 | 1114 | 1117 | 1124 | rVB4 | 356077  | 485993  | 12.37%  | 0.809% |
| 74 | 6.974 | 1124 | 1131 | 1136 | rBV2 | 2490253 | 3929000 | 100.00% | 6.536% |
| 75 | 7.043 | 1141 | 1144 | 1147 | rVB3 | 387744  | 385031  | 9.80%   | 0.641% |
| 76 | 7.129 | 1157 | 1160 | 1164 | rBV6 | 188424  | 237784  | 6.05%   | 0.396% |
| 77 | 7.177 | 1167 | 1169 | 1171 | rVB2 | 135680  | 88065   | 2.24%   | 0.147% |
| 78 | 7.204 | 1171 | 1174 | 1175 | rBV2 | 124751  | 107801  | 2.74%   | 0.179% |
| 79 | 7.321 | 1192 | 1196 | 1197 | rBV  | 1885532 | 1466090 | 37.31%  | 2.439% |
| 80 | 7.337 | 1197 | 1199 | 1201 | rVV  | 1879265 | 1435583 | 36.54%  | 2.388% |
| 81 | 7.359 | 1201 | 1203 | 1207 | rVB  | 663785  | 598278  | 15.23%  | 0.995% |
| 82 | 7.487 | 1224 | 1227 | 1235 | rVB5 | 180849  | 295323  | 7.52%   | 0.491% |
| 83 | 7.540 | 1235 | 1237 | 1239 | rBV2 | 100331  | 82964   | 2.11%   | 0.138% |
| 84 | 7.594 | 1245 | 1247 | 1250 | rVB2 | 205873  | 176143  | 4.48%   | 0.293% |
| 85 | 7.658 | 1256 | 1259 | 1263 | rVV3 | 189252  | 202344  | 5.15%   | 0.337% |
| 86 | 7.695 | 1263 | 1266 | 1270 | rVV  | 986215  | 839688  | 21.37%  | 1.397% |
| 87 | 7.749 | 1274 | 1276 | 1278 | rVV  | 193211  | 161823  | 4.12%   | 0.269% |
| 88 | 7.770 | 1278 | 1280 | 1285 | rVB  | 200416  | 178490  | 4.54%   | 0.297% |
| 89 | 7.839 | 1290 | 1293 | 1295 | rBV2 | 182497  | 166213  | 4.23%   | 0.277% |
| 90 | 7.898 | 1301 | 1304 | 1306 | rBV3 | 79479   | 75815   | 1.93%   | 0.126% |
| 91 | 8.053 | 1330 | 1333 | 1337 | rVB  | 484345  | 435013  | 11.07%  | 0.724% |

# LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : 11961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.001  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 500 Area counts  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 92  | 8.171  | 1353 | 1355 | 1357 | rBV  | 79626   | 58920   | 1.50%  | 0.098% |
| 93  | 8.235  | 1364 | 1367 | 1370 | rBV  | 134330  | 115615  | 2.94%  | 0.192% |
| 94  | 8.304  | 1377 | 1380 | 1384 | rVB  | 102662  | 96100   | 2.45%  | 0.160% |
| 95  | 8.347  | 1385 | 1388 | 1391 | rVB2 | 152369  | 118784  | 3.02%  | 0.198% |
| 96  | 8.400  | 1394 | 1398 | 1401 | rBV  | 232459  | 214474  | 5.46%  | 0.357% |
| 97  | 8.737  | 1457 | 1461 | 1465 | rVB  | 853094  | 734821  | 18.70% | 1.222% |
| 98  | 9.656  | 1628 | 1633 | 1637 | rBV  | 2135322 | 1944535 | 49.49% | 3.235% |
| 99  | 10.527 | 1792 | 1796 | 1804 | rBV  | 119564  | 122086  | 3.11%  | 0.203% |
| 100 | 10.895 | 1860 | 1865 | 1869 | rVB  | 2481153 | 2389320 | 60.81% | 3.975% |

Sum of corrected areas: 60108626

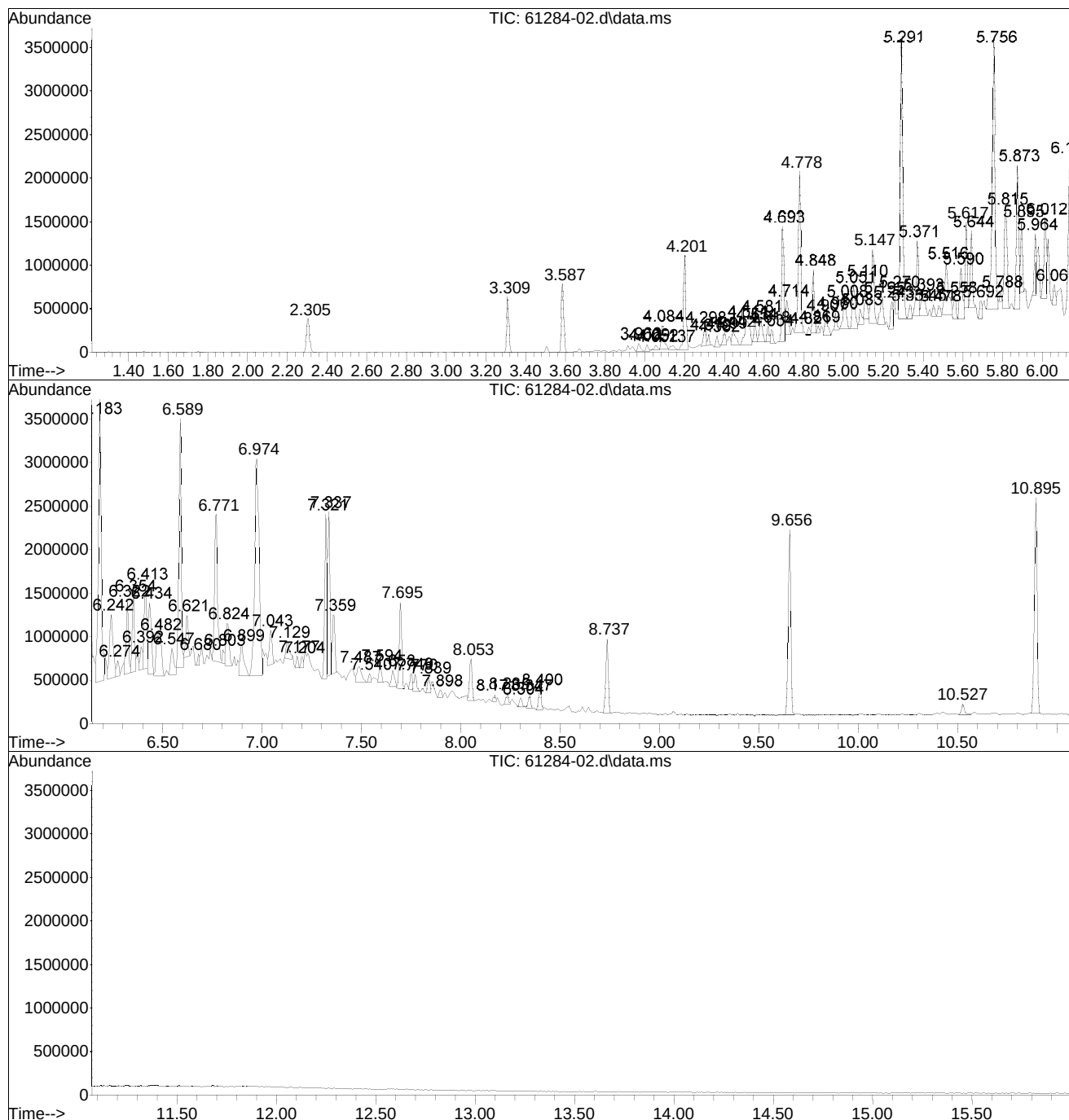


# LSC Report - Integrated Chromatogram

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : l1961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

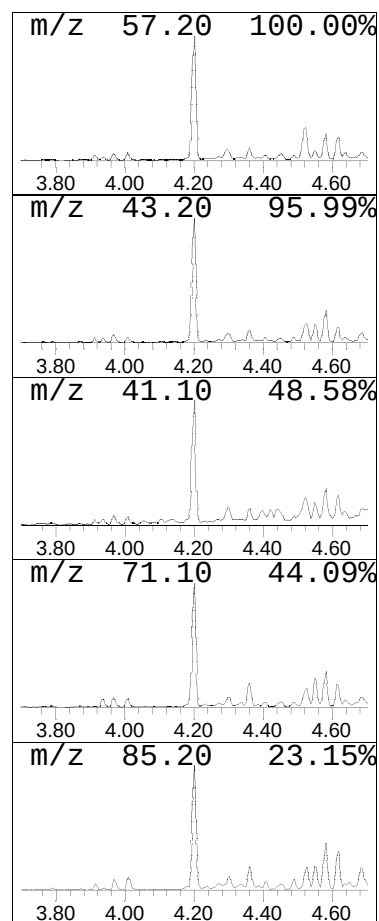
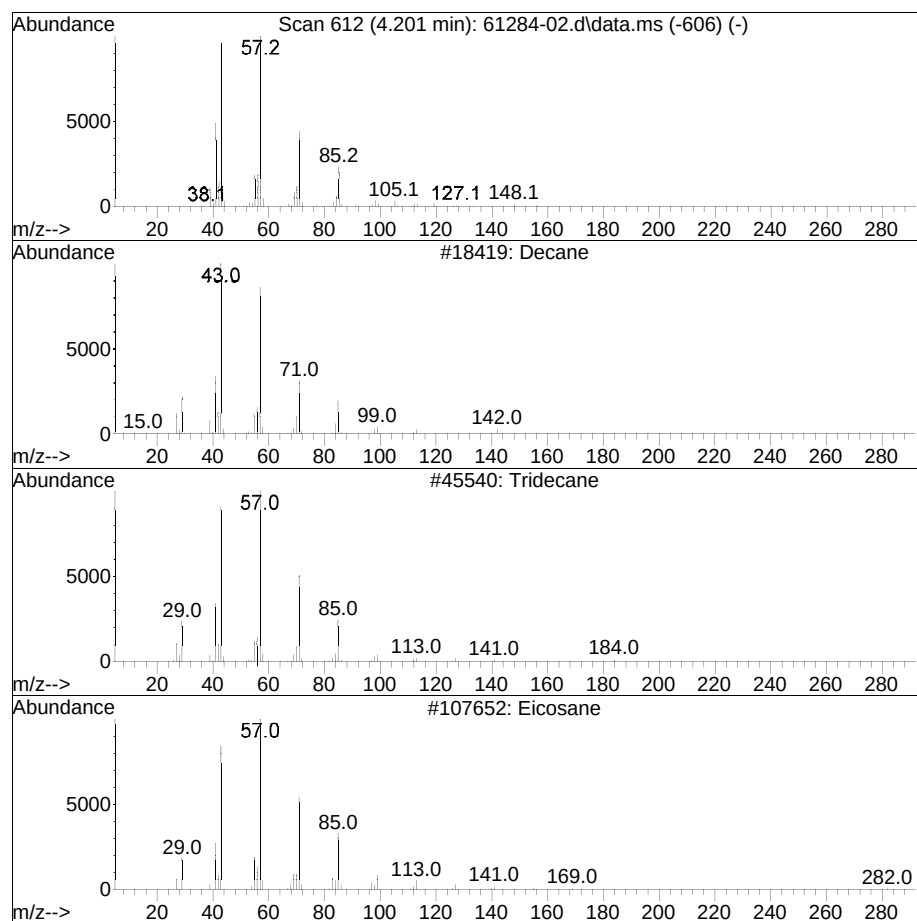
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Unknown Concentration Rank 6

| R.T.  | EstConc     | Area   | Relative to ISTD   | R.T.  |
|-------|-------------|--------|--------------------|-------|
| 4.201 | 31.92 ug/ml | 875153 | IS1_Naphthalene-d8 | 4.693 |

| Hit# of | 5                   | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------|--------------|-----|---------|-------------|------|
| 1       | Decane              |              | 142 | C10H22  | 000124-18-5 | 83   |
| 2       | Tridecane           |              | 184 | C13H28  | 000629-50-5 | 78   |
| 3       | Eicosane            |              | 282 | C20H42  | 000112-95-8 | 72   |
| 4       | Ether, hexyl pentyl |              | 172 | C11H24O | 032357-83-8 | 72   |
| 5       | Hexadecane          |              | 226 | C16H34  | 000544-76-3 | 64   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

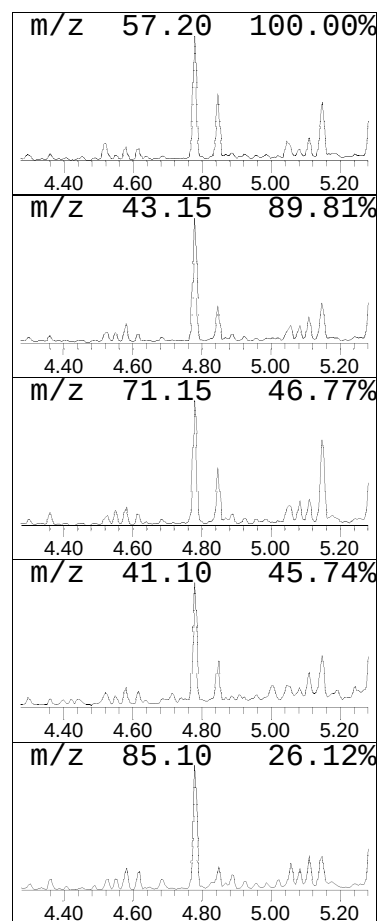
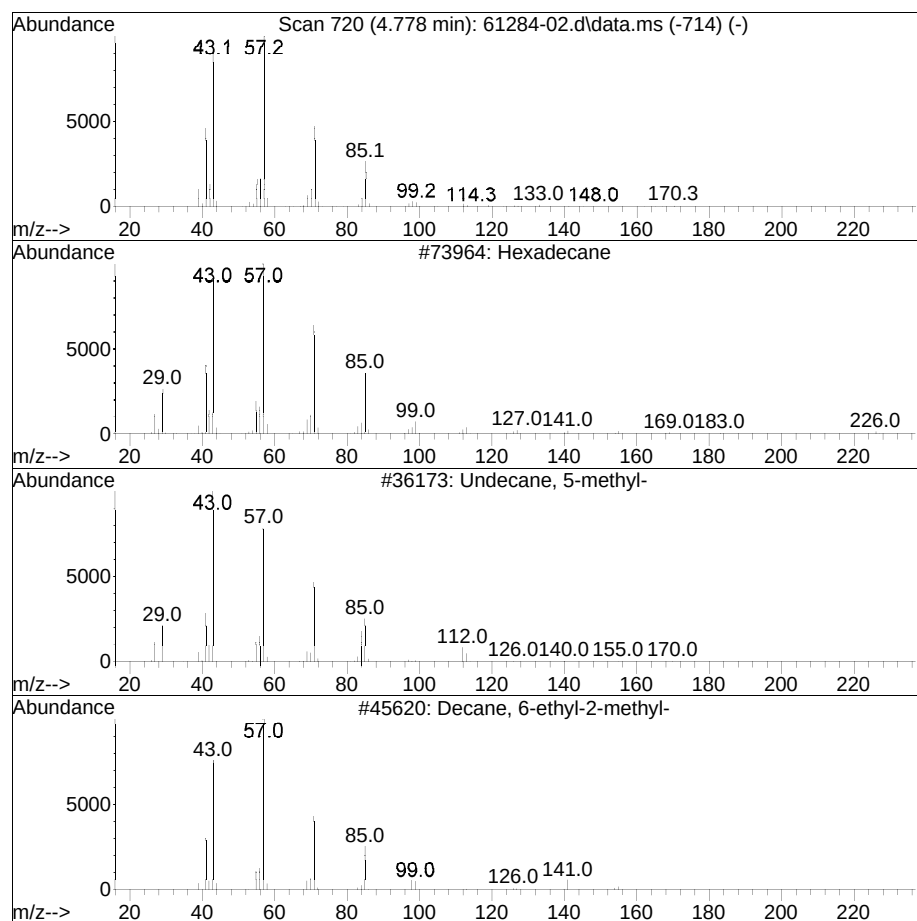
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Unknown Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 4.778 | 54.65 ug/ml | 1498380 | IS2_Naphthalene-d8 | 4.693 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm    | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|------------|--------------|------|
| 1       | Hexadecane                          |              | 226 | C16H34     | 000544-76-3  | 83   |
| 2       | Undecane, 5-methyl-                 |              | 170 | C12H26     | 001632-70-8  | 80   |
| 3       | Decane, 6-ethyl-2-methyl-           |              | 184 | C13H28     | 062108-21-8  | 78   |
| 4       | Dichloroacetic acid, 4-methylpen... |              | 212 | C8H14Cl2O2 | 1000282-43-7 | 59   |
| 5       | 1-Nonene, 4,6,8-trimethyl-          |              | 168 | C12H24     | 054410-98-9  | 59   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

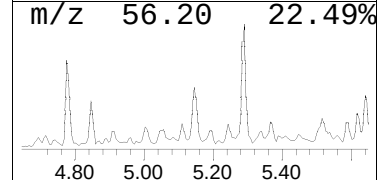
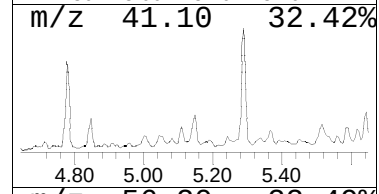
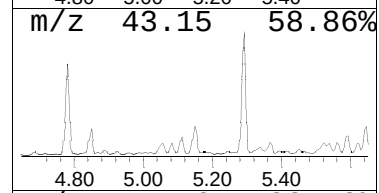
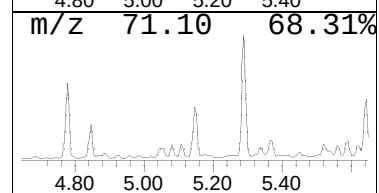
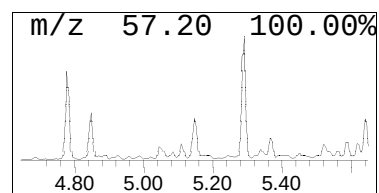
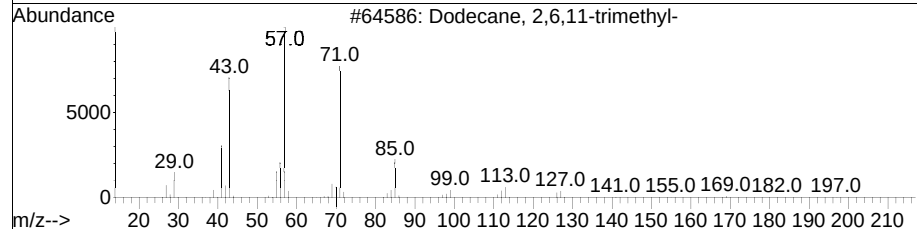
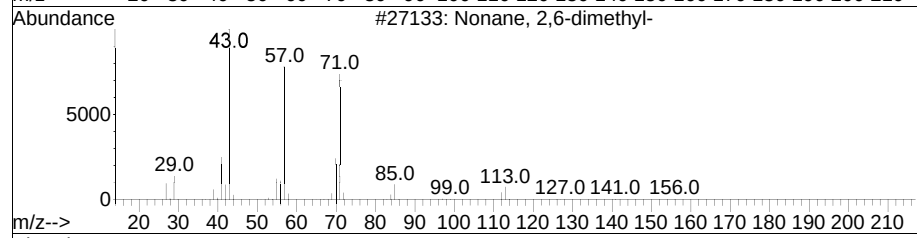
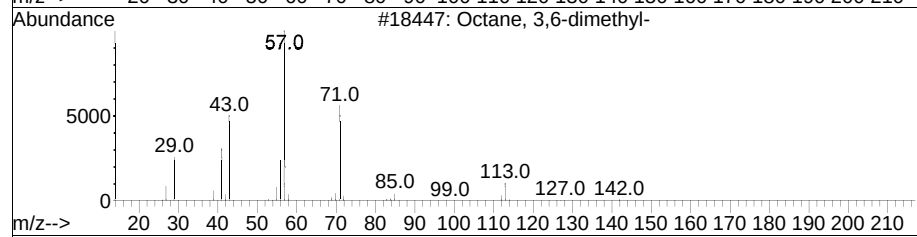
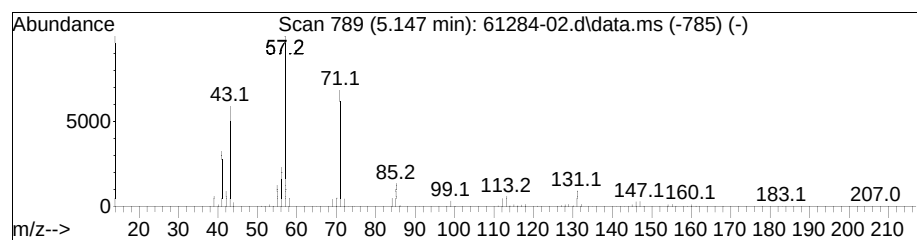
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Unknown Concentration Rank 7

| R.T.  | EstConc     | Area   | Relative to ISTD   | R.T.  |
|-------|-------------|--------|--------------------|-------|
| 5.147 | 31.07 ug/ml | 851720 | IS2_Naphthalene-d8 | 4.693 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm   | CAS#        | Qual |
|---------|-------------------------------------|--------------|-----|-----------|-------------|------|
| 1       | Octane, 3,6-dimethyl-               |              | 142 | C10H22    | 015869-94-0 | 64   |
| 2       | Nonane, 2,6-dimethyl-               |              | 156 | C11H24    | 017302-28-2 | 64   |
| 3       | Dodecane, 2,6,11-trimethyl-         |              | 212 | C15H32    | 031295-56-4 | 53   |
| 4       | 3-Hexanone, 2,2-dimethyl-           |              | 128 | C8H16O    | 005405-79-8 | 47   |
| 5       | Trifluoroacetic acid, 4-methylpe... |              | 198 | C8H13F3O2 | 000327-71-9 | 43   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

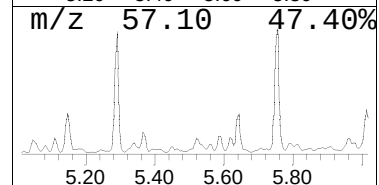
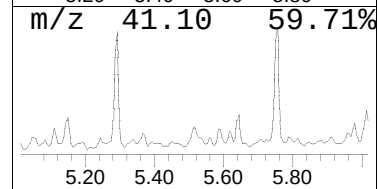
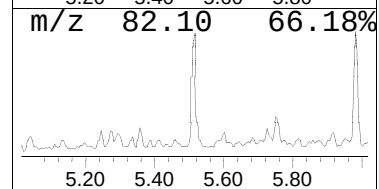
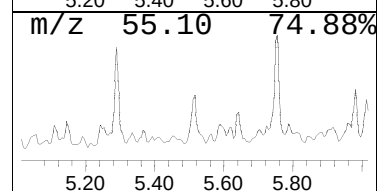
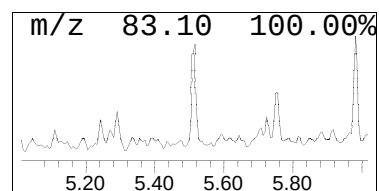
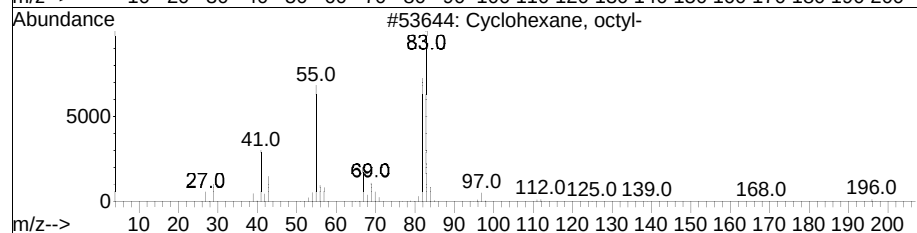
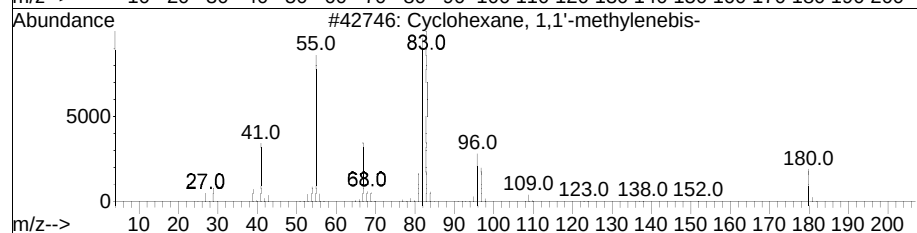
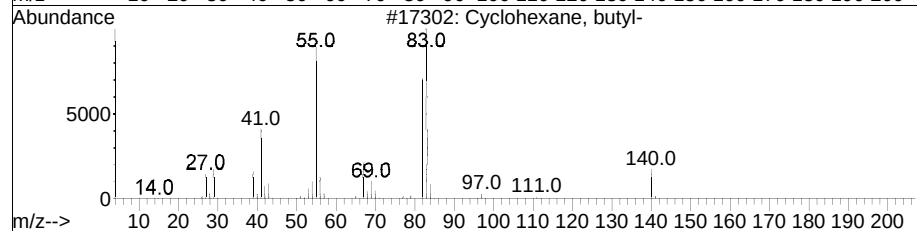
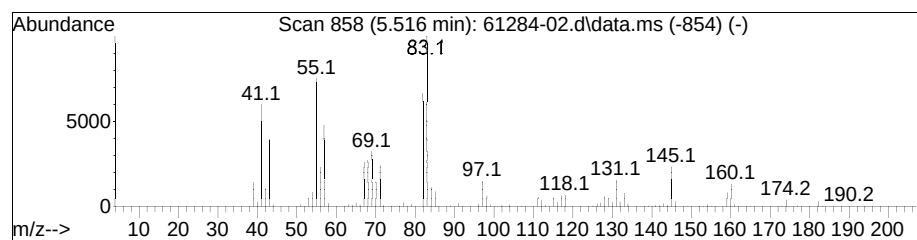
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Unknown Cycloalkane Concentration Rank 13

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 5.516 | 23.43 ug/ml | 824024 | IS1_Acenaphthene-d10 | 6.135 |

| Hit# of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------|-----|---------|-------------|------|
| 1       |   | Cyclohexane, butyl-             | 140 | C10H20  | 001678-93-9 | 50   |
| 2       |   | Cyclohexane, 1,1'-methylenebis- | 180 | C13H24  | 003178-23-2 | 50   |
| 3       |   | Cyclohexane, octyl-             | 196 | C14H28  | 001795-15-9 | 50   |
| 4       |   | Cyclohexane, (4-methylpentyl)-  | 168 | C12H24  | 061142-20-9 | 50   |
| 5       |   | n-Amylcyclohexane               | 154 | C11H22  | 029949-27-7 | 47   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

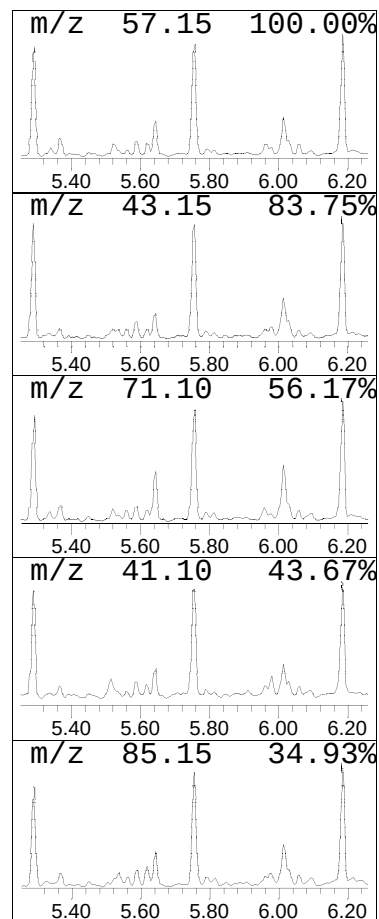
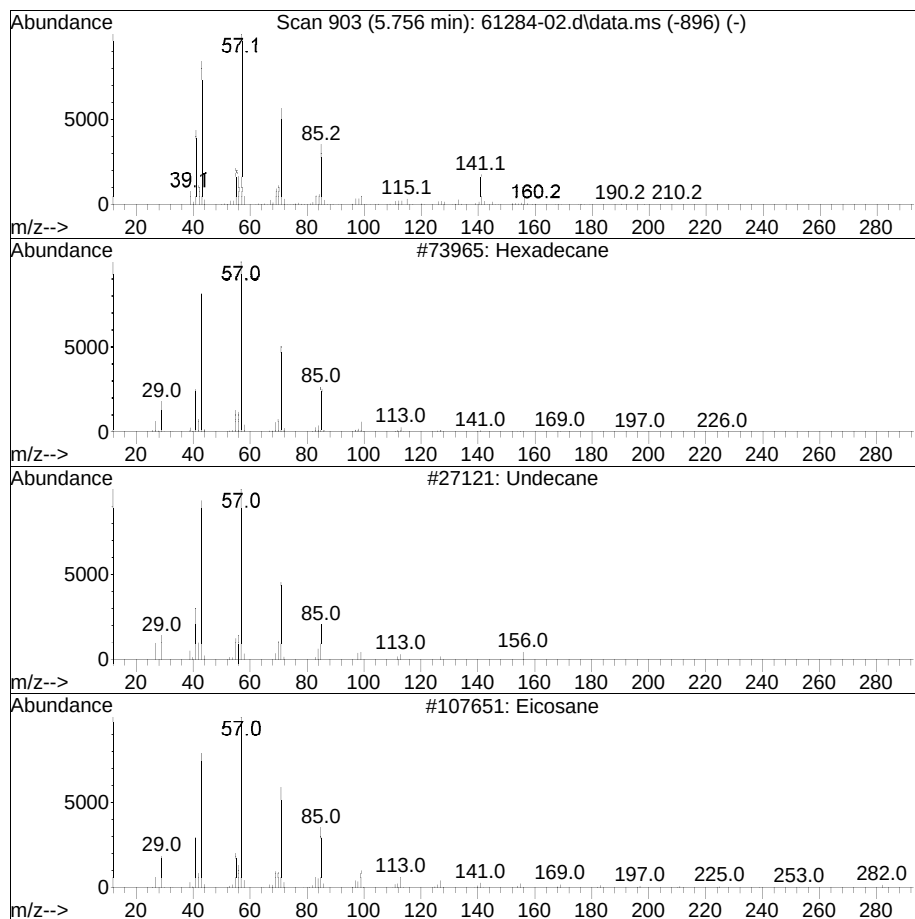
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Unknown Alkane Concentration Rank 2

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 5.756 | 90.47 ug/ml | 3181210 | IS1_Acenaphthene-d10 | 6.135 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane            |              | 226 | C16H34  | 000544-76-3 | 83   |
| 2       | Undecane              |              | 156 | C11H24  | 001120-21-4 | 76   |
| 3       | Eicosane              |              | 282 | C20H42  | 000112-95-8 | 64   |
| 4       | Tridecane, 7-methyl-  |              | 198 | C14H30  | 026730-14-3 | 59   |
| 5       | Octane, 3,5-dimethyl- |              | 142 | C10H22  | 015869-93-9 | 58   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

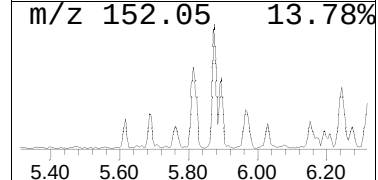
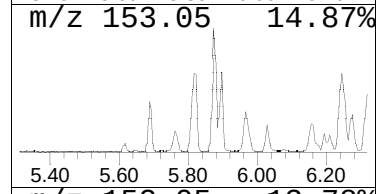
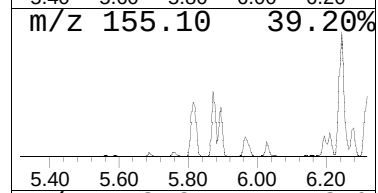
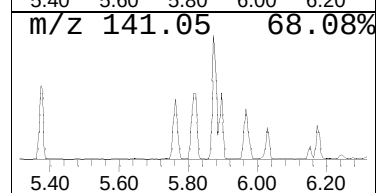
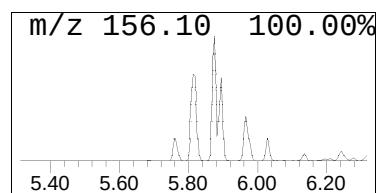
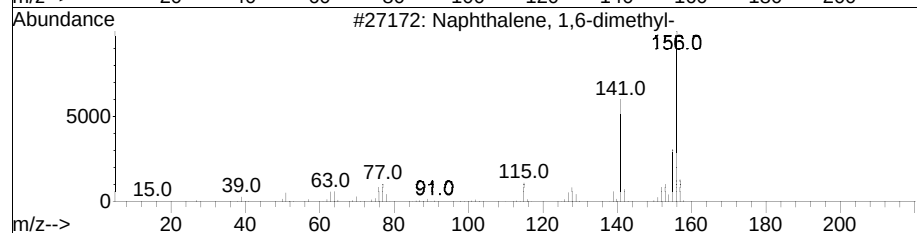
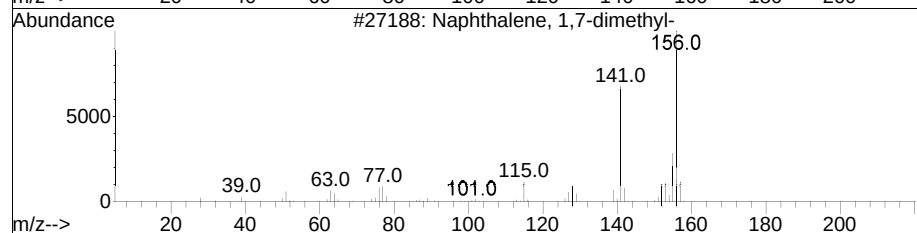
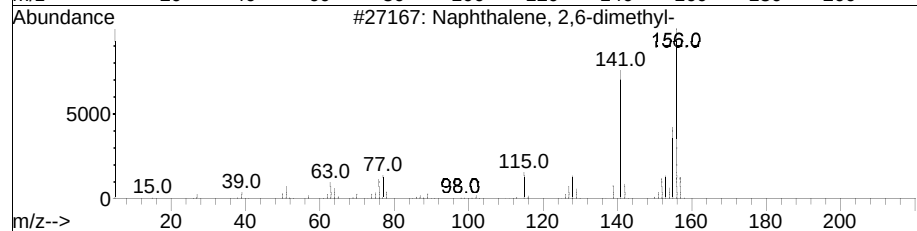
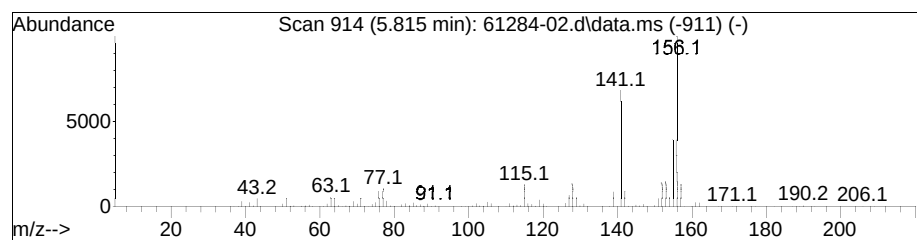
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Unknown Naphthalene Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 5.815 | 33.28 ug/ml | 1170160 | IS1_Acenaphthene-d10 | 6.135 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 98   |
| 2       |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 3       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4       |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 5       |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

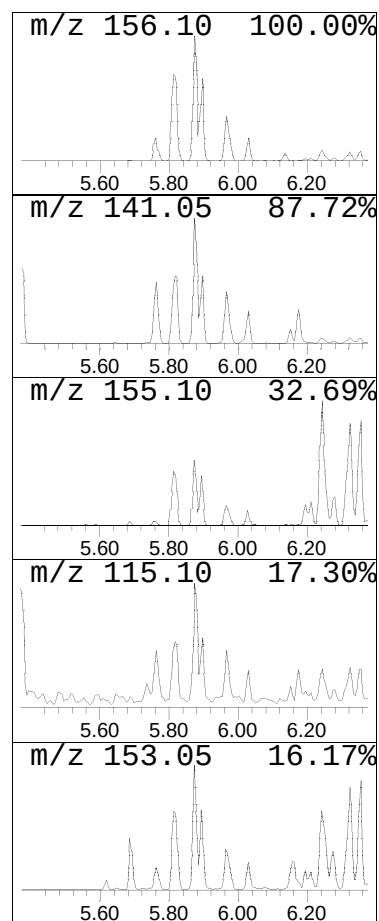
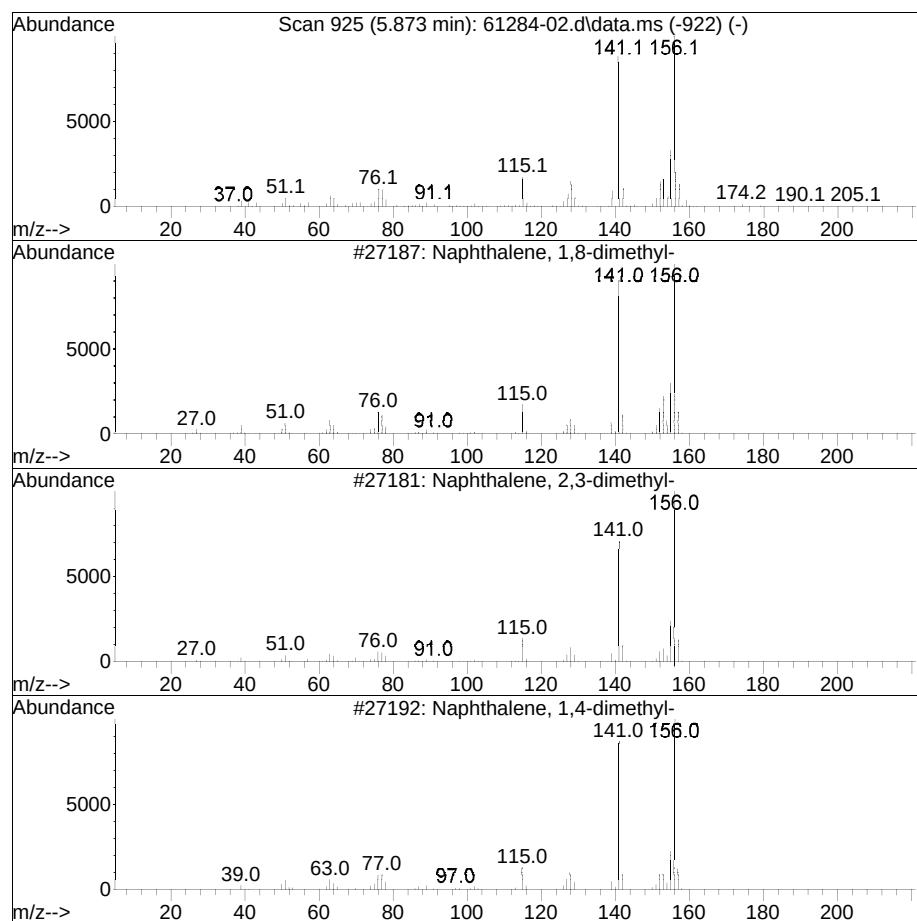
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Unknown Naphthalene Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 5.873 | 38.00 ug/ml | 1336290 | IS1_Acenaphthene-d10 | 6.135 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,8-dimethyl- | 156 | C12H12  | 000569-41-5 | 98   |
| 2       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 3       |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 4       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 5       |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |





## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

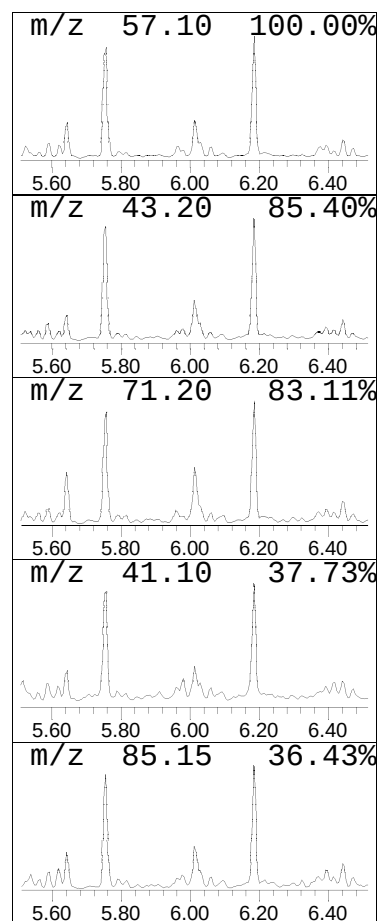
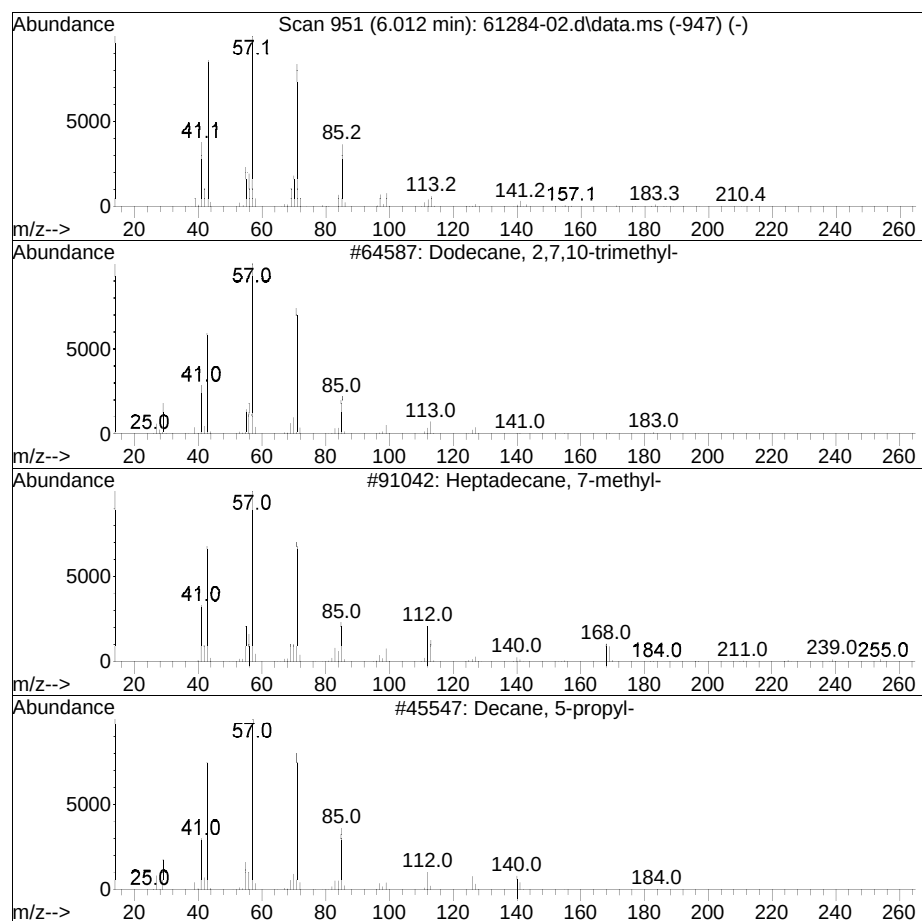
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Unknown Alkane Concentration Rank 9

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 6.012 | 25.81 ug/ml | 907456 | IS1_Acenaphthene-d10 | 6.135 |

| Hit# of | 5                           | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-----------------------------|--------------|--------|-------------|------|------|
| 1       | Dodecane, 2,7,10-trimethyl- | 212          | C15H32 | 074645-98-0 | 78   |      |
| 2       | Heptadecane, 7-methyl-      | 254          | C18H38 | 020959-33-5 | 78   |      |
| 3       | Decane, 5-propyl-           | 184          | C13H28 | 017312-62-8 | 78   |      |
| 4       | Tetradecane                 | 198          | C14H30 | 000629-59-4 | 78   |      |
| 5       | Undecane, 2,8-dimethyl-     | 184          | C13H28 | 017301-25-6 | 78   |      |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

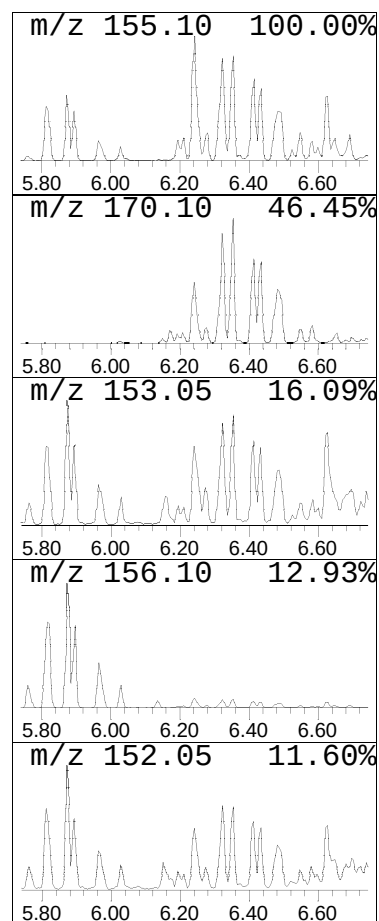
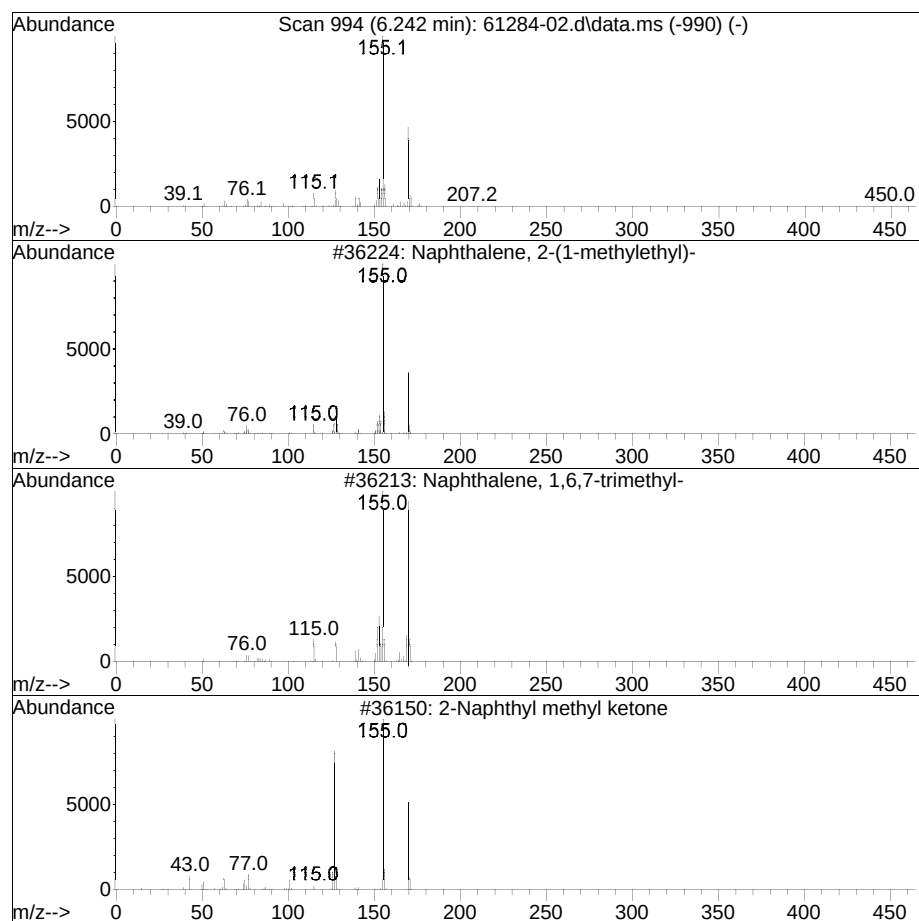
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Unknown Naphthalene Concentration Rank 8

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 6.242 | 26.69 ug/ml | 938539 | IS3_Acenaphthene-d10 | 6.135 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Naphthalene, 2-(1-methylethyl)-     | 170 | C13H14   | 002027-17-0 | 91   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14   | 002245-38-7 | 76   |
| 3    |    |   | 2-Naphthyl methyl ketone            | 170 | C12H10O  | 000093-08-3 | 72   |
| 4    |    |   | 1'-Acetonaphthone                   | 170 | C12H10O  | 000941-98-0 | 64   |
| 5    |    |   | Phenol, 4-chloro-2-(1-methylethyl)- | 170 | C9H11ClO | 054461-05-1 | 59   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

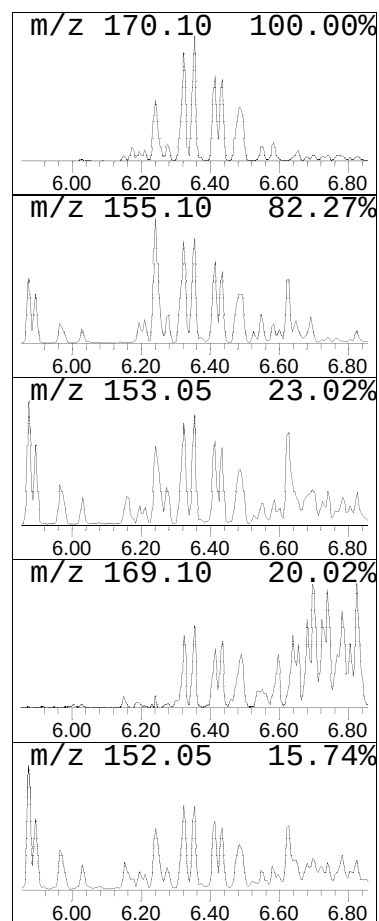
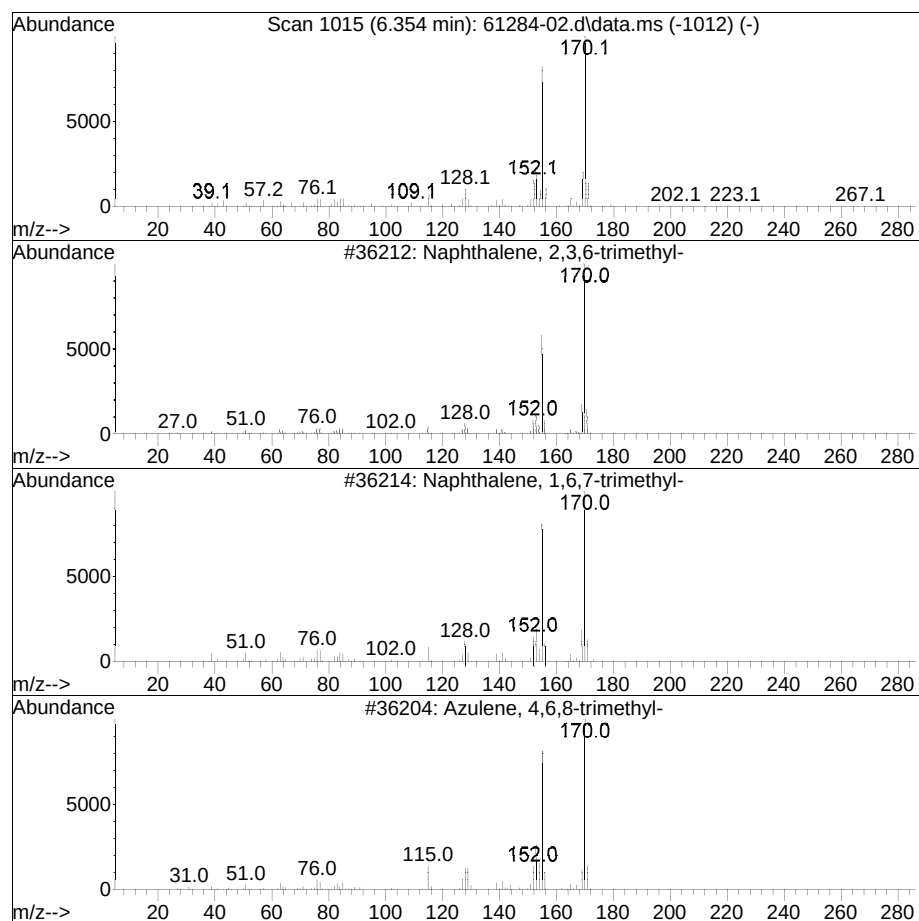
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Unknown PAH Concentration Rank 15

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 6.354 | 20.26 ug/ml | 712319 | IS3_Acenaphthene-d10 | 6.135 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14   | 000829-26-5 | 97   |
| 2       |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14   | 002245-38-7 | 96   |
| 3       |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14   | 000941-81-1 | 93   |
| 4       |   | Naphthalene, 1,4,6-trimethyl-       | 170 | C13H14   | 002131-42-2 | 53   |
| 5       |   | 2,4,6,(1H,3H,5H)-Pyrimidinetrion... | 170 | C6H6N2O4 | 058713-02-3 | 53   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

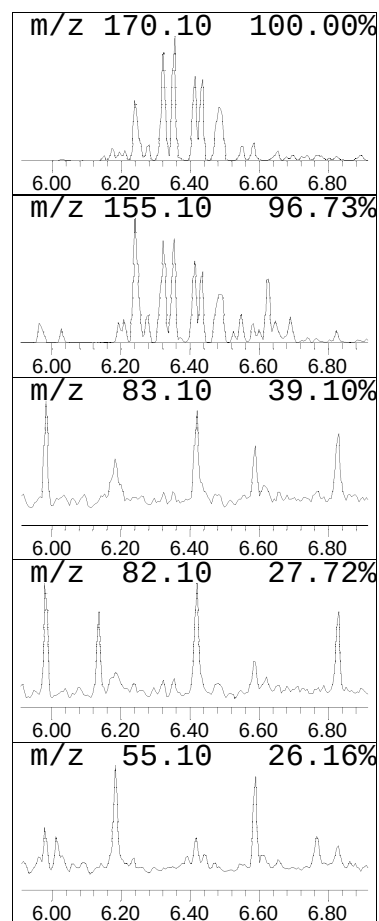
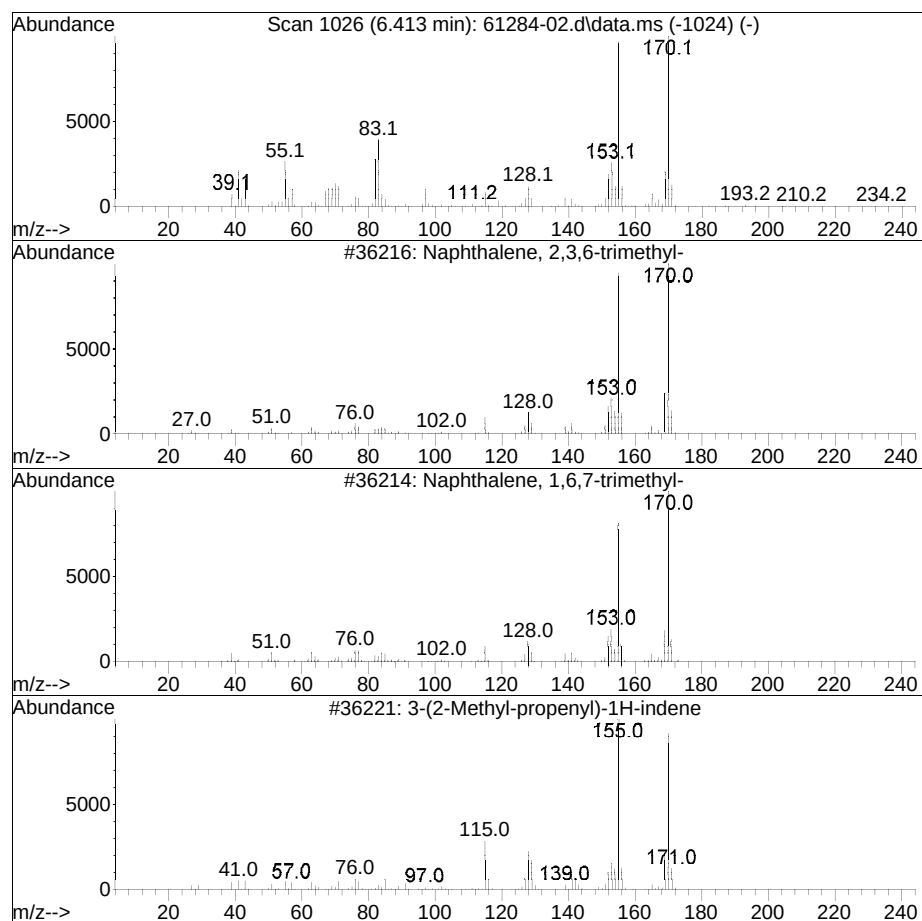
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Unknown Naphthalene Concentration Rank 11

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 6.413 | 24.32 ug/ml | 855139 | IS3_Acenaphthene-d10 | 6.135 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14    | 000829-26-5  | 96   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14    | 002245-38-7  | 92   |
| 3    |    |   | 3-(2-Methyl-propenyl)-1H-indene     | 170 | C13H14    | 1000187-78-5 | 68   |
| 4    |    |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14    | 000941-81-1  | 59   |
| 5    |    |   | Pyrimidin-4(3H)-one, 5-ethyl-2-m... | 170 | C7H10N2O5 | 030150-54-0  | 52   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

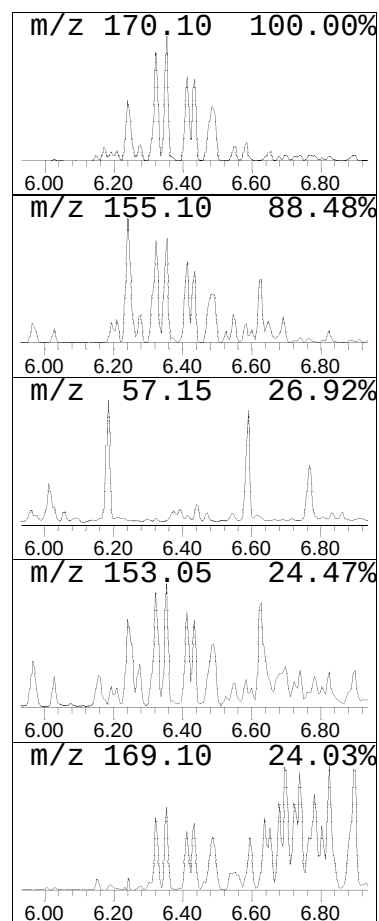
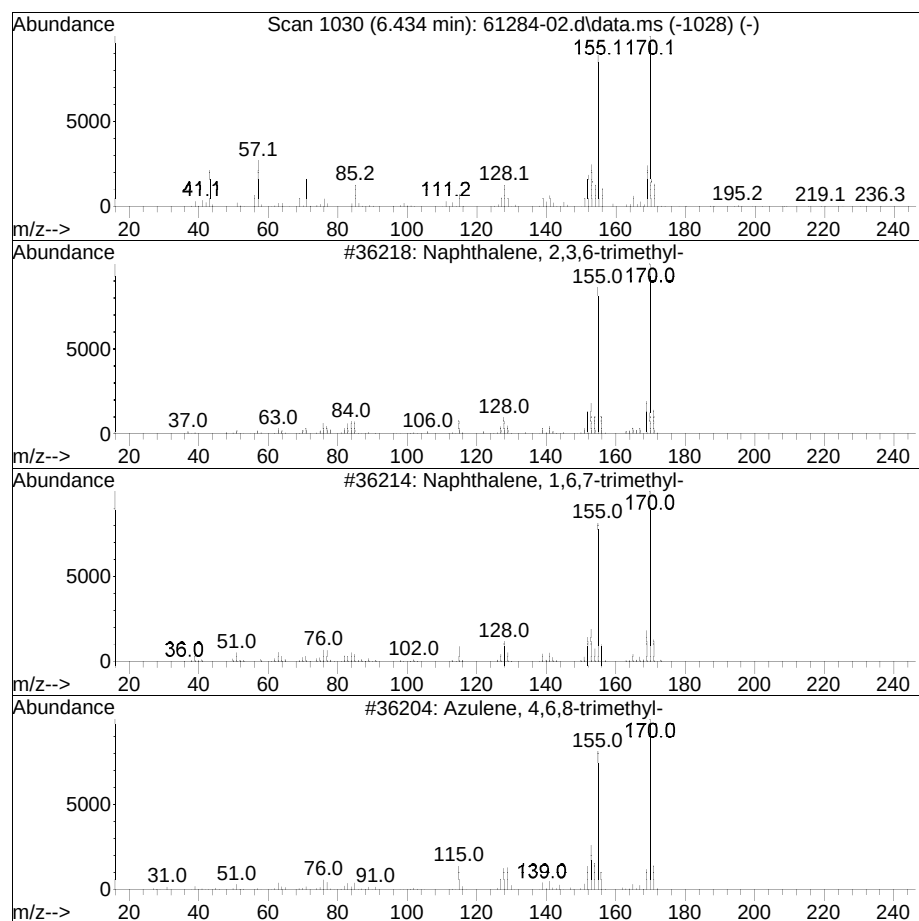
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Unknown PAH Concentration Rank 12

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 6.434 | 24.27 ug/ml | 853320 | IS3_Acenaphthene-d10 | 6.135 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 97   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 95   |
| 3    |    |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14  | 000941-81-1  | 93   |
| 4    |    |   | 3-(2-Methyl-propenyl)-1H-indene     | 170 | C13H14  | 1000187-78-5 | 83   |
| 5    |    |   | 1H,3H-Thieno[3,4-c]thiophene, 4,... | 170 | C8H10S2 | 015441-54-0  | 72   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

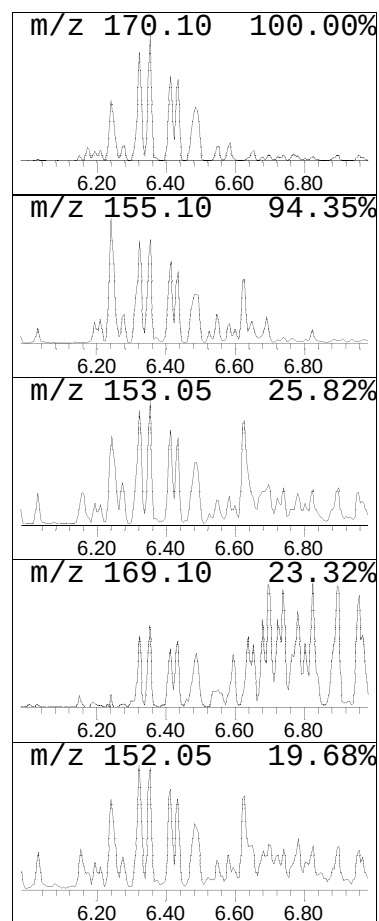
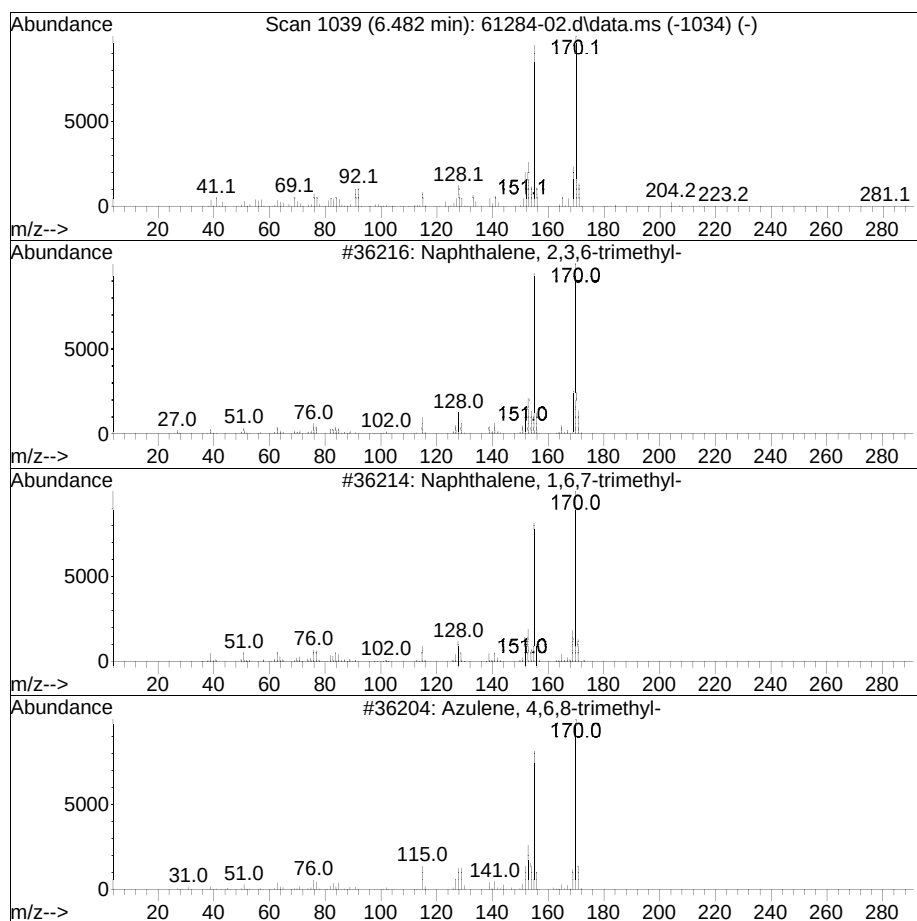
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Unknown PAH Concentration Rank 10

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 6.482 | 24.94 ug/ml | 876923 | IS3_Acenaphthene-d10 | 6.135 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5 | 96   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7 | 96   |
| 3    |    |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14  | 000941-81-1 | 83   |
| 4    |    |   | 1H,3H-Thieno[3,4-c]thiophene, 4,... | 170 | C8H10S2 | 015441-54-0 | 59   |
| 5    |    |   | Naphthalene, 2-(1-methylethyl)-     | 170 | C13H14  | 002027-17-0 | 38   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : 1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

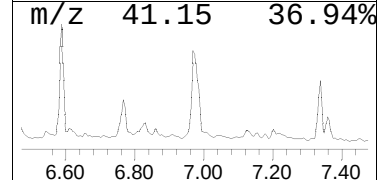
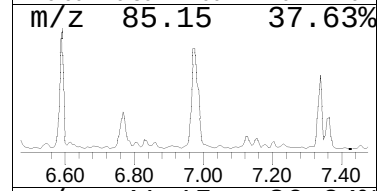
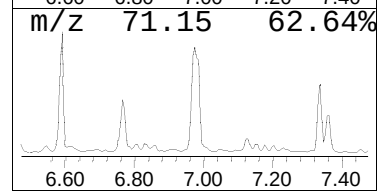
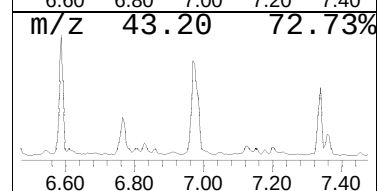
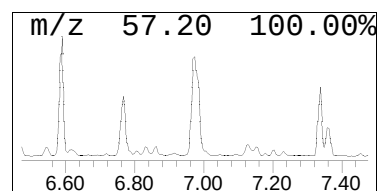
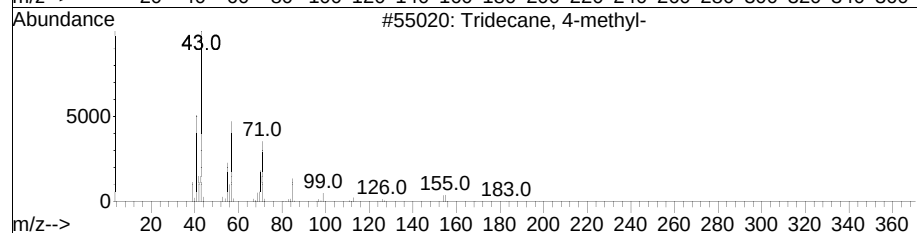
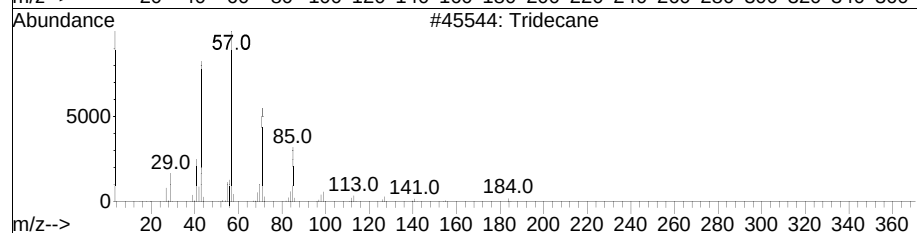
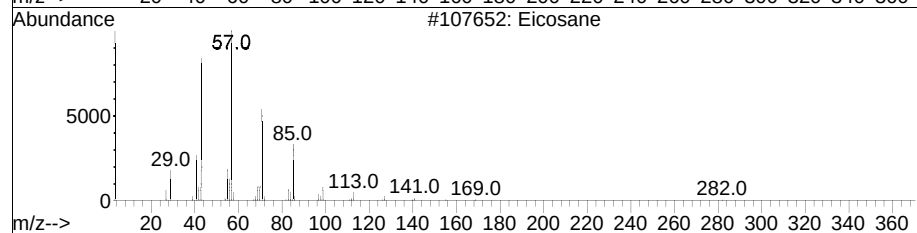
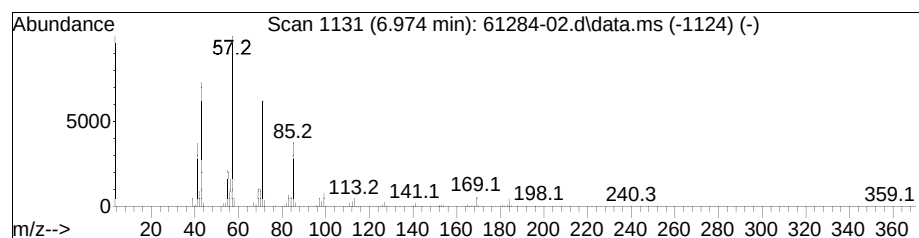
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Unknown Alkane Concentration Rank 1

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 6.974 | 107.20 ug/ml | 3929000 | IS1_Phenanthrene-d10 | 7.321 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane             |              | 282 | C20H42  | 000112-95-8 | 90   |
| 2       | Tridecane            |              | 184 | C13H28  | 000629-50-5 | 87   |
| 3       | Tridecane, 4-methyl- |              | 198 | C14H30  | 026730-12-1 | 86   |
| 4       | Hexadecane           |              | 226 | C16H34  | 000544-76-3 | 86   |
| 5       | Tridecane, 6-methyl- |              | 198 | C14H30  | 013287-21-3 | 83   |



## Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-02.d  
Acq On : 24 Dec 2019 2:54 am  
Operator : gcms5:ek  
Sample : l1961284-02,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 3 Sample Multiplier: 1

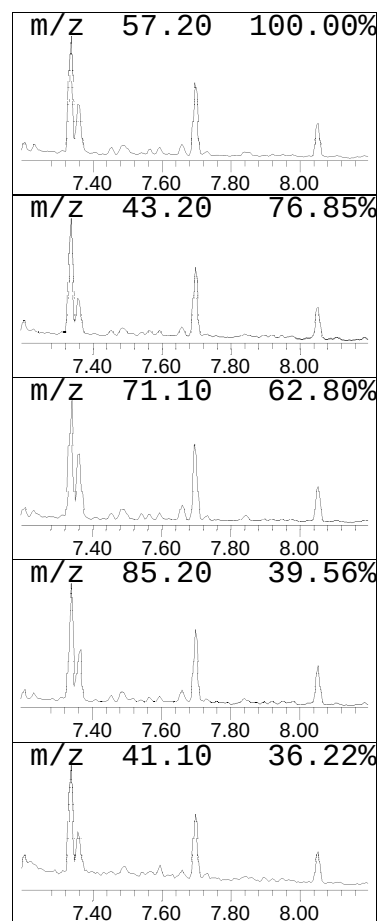
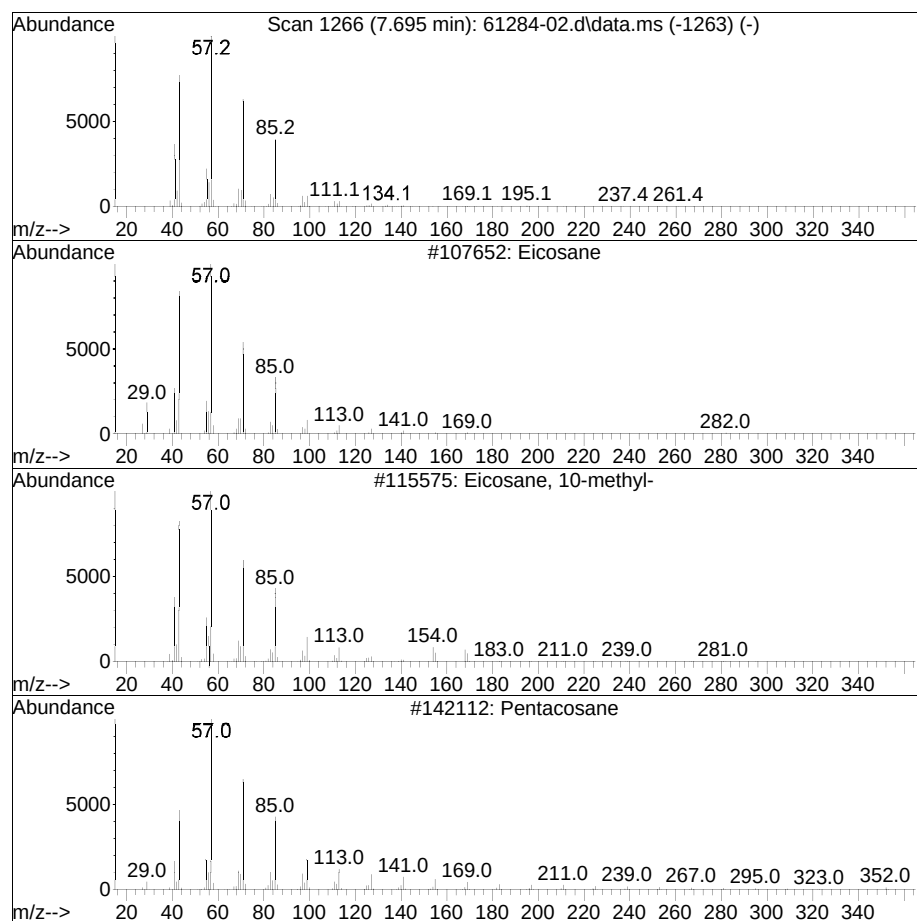
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Unknown Alkane Concentration Rank 14

| R.T.  | EstConc     | Area   | Relative to ISTD     | R.T.  |
|-------|-------------|--------|----------------------|-------|
| 7.695 | 22.91 ug/ml | 839688 | IS3_Phenanthrene-d10 | 7.321 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane              |              | 282 | C20H42  | 000112-95-8 | 91   |
| 2       | Eicosane, 10-methyl-  |              | 296 | C21H44  | 054833-23-7 | 86   |
| 3       | Pentacosane           |              | 352 | C25H52  | 000629-99-2 | 78   |
| 4       | Nonane, 5-butyl-      |              | 184 | C13H28  | 017312-63-9 | 72   |
| 5       | 1-Undecene, 4-methyl- |              | 168 | C12H24  | 074630-39-0 | 72   |





# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-02.d  
 Acq On : 24 Dec 2019 2:54 am  
 Operator : gcms5:ek  
 Sample : 11961284-02,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard--- |       |         |      |
|--------------------|-------|---------|-------|----------|------------------------|-------|---------|------|
|                    |       |         |       |          | #                      | RT    | Resp    | Conc |
| Unknown            | 4.201 | 31.9    | ug/ml | 875153   | 4                      | 4.693 | 1096630 | 40.0 |
| Unknown            | 4.778 | 54.7    | ug/ml | 1498380  | 5                      | 4.693 | 1096630 | 40.0 |
| Unknown            | 5.147 | 31.1    | ug/ml | 851720   | 5                      | 4.693 | 1096630 | 40.0 |
| Unknown Cycloal... | 5.516 | 23.4    | ug/ml | 824024   | 6                      | 6.135 | 1406550 | 40.0 |
| Unknown Alkane     | 5.756 | 90.5    | ug/ml | 3181210  | 6                      | 6.135 | 1406550 | 40.0 |
| Unknown Naphtha... | 5.815 | 33.3    | ug/ml | 1170160  | 6                      | 6.135 | 1406550 | 40.0 |
| Unknown Naphtha... | 5.873 | 38.0    | ug/ml | 1336290  | 6                      | 6.135 | 1406550 | 40.0 |
| Unknown Alkane     | 6.012 | 25.8    | ug/ml | 907456   | 6                      | 6.135 | 1406550 | 40.0 |
| Unknown Naphtha... | 6.242 | 26.7    | ug/ml | 938539   | 8                      | 6.135 | 1406550 | 40.0 |
| Unknown PAH        | 6.354 | 20.3    | ug/ml | 712319   | 8                      | 6.135 | 1406550 | 40.0 |
| Unknown Naphtha... | 6.413 | 24.3    | ug/ml | 855139   | 8                      | 6.135 | 1406550 | 40.0 |
| Unknown PAH        | 6.434 | 24.3    | ug/ml | 853320   | 8                      | 6.135 | 1406550 | 40.0 |
| Unknown PAH        | 6.482 | 24.9    | ug/ml | 876923   | 8                      | 6.135 | 1406550 | 40.0 |
| Unknown Alkane     | 6.974 | 107.2   | ug/ml | 3929000  | 9                      | 7.321 | 1466090 | 40.0 |
| Unknown Alkane     | 7.695 | 22.9    | ug/ml | 839688   | 11                     | 7.321 | 1466090 | 40.0 |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : 11961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 26 13:12:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|----------|----------|
| Internal Standards            |                |      |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.587          | 152  | 130013   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 230273      |                |      | Recovery | =      | 56.46%   |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.587          | 152  | 130013   | 40.000 | ug/ml    | 0.00     |
| Standard Area 3 = 218924      |                |      | Recovery | =      | 59.39%   |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.587          | 152  | 130013   | 40.000 | ug/ml    | 0.00     |
| Standard Area 2 = 228352      |                |      | Recovery | =      | 56.94%   |          |
| 35) IS1_Naphthalene-d8        | 4.698          | 136  | 525429   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 837477      |                |      | Recovery | =      | 62.74%   |          |
| 55) IS2_Naphthalene-d8        | 4.698          | 136  | 525429   | 40.000 | ug/ml    | 0.00     |
| Standard Area 3 = 792530      |                |      | Recovery | =      | 66.30%   |          |
| 63) IS1_Acenaphthene-d10      | 6.135          | 164  | 332877   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 496701      |                |      | Recovery | =      | 67.02%   |          |
| 83) IS2_Acenaphthene-d10      | 6.135          | 164  | 332877   | 40.000 | ug/ml    | 0.00     |
| Standard Area 3 = 449723      |                |      | Recovery | =      | 74.02%   |          |
| 86) IS3_Acenaphthene-d10      | 6.135          | 164  | 332877   | 40.000 | ug/ml    | 0.00     |
| Standard Area 2 = 468017      |                |      | Recovery | =      | 71.12%   |          |
| 88) IS1_Phenanthrene-d10      | 7.327          | 188  | 776679   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 1076593     |                |      | Recovery | =      | 72.14%   |          |
| 100) IS3_Phenanthrene-d10     | 7.327          | 188  | 776679   | 40.000 | ug/ml    | 0.00     |
| Standard Area 2 = 989066      |                |      | Recovery | =      | 78.53%   |          |
| 104) IS1_Chrysene-d12         | 9.661          | 240  | 960433   | 40.000 | ug/ml    | # 0.00   |
| Standard Area 1 = 1191633     |                |      | Recovery | =      | 80.60%   |          |
| 113) IS1_Perylene-d12         | 10.901         | 264  | 962108   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 1381786     |                |      | Recovery | =      | 69.63%   |          |
| System Monitoring Compounds   |                |      |          |        |          |          |
| 4) 2-Fluorophenol             | 2.305          | 112  | 166826   | 46.405 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 92.81%   |          |
| 7) Phenol-d6                  | 3.315          | 99   | 204636   | 47.026 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 94.05%   |          |
| 19) Nitrobenzene-d5           | 4.089          | 82   | 78131    | 20.033 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 80.13%   |          |
| 46) 2-Fluorobiphenyl          | 5.617          | 172  | 221877   | 19.587 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 78.35%   |          |
| 79) 2,4,6-Tribromophenol      | 6.771          | 330  | 127269   | 58.030 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 116.06%# |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 26 13:12:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| 96) 4-Terphenyl-d14           | 8.742  | 244   | 329508   | 19.076   | ug/ml | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 76.30%   |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        |          | N.D.  |          |
| 8) Phenol                     | 0.000  |       | 0        |          | N.D.  |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        |          | N.D.  |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        |          | N.D.  |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        |          | N.D.  |          |
| 16) Hexachloroethane          | 0.000  |       | 0        |          | N.D.  |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        |          | N.D.  | d        |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        |          | N.D.  |          |
| 20) Nitrobenzene              | 0.000  |       | 0        |          | N.D.  |          |
| 21) Isophorone                | 0.000  |       | 0        |          | N.D.  | d        |
| 22) 2-Nitrophenol             | 0.000  |       | 0        |          | N.D.  |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        |          | N.D.  |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        |          | N.D.  |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        |          | N.D.  |          |
| 28) Benzaldehyde              | 0.000  |       | 0        |          | N.D.  | d        |
| 29) Acetophenone              | 0.000  |       | 0        |          | N.D.  |          |
| 36) Naphthalene               | 0.000  |       | 0        |          | N.D.  | d        |
| 38) 4-Chloroaniline           | 0.000  |       | 0        |          | N.D.  | d        |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        |          | N.D.  |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        |          | N.D.  |          |
| 41) 2-Methylnaphthalene       | 0.000  |       | 0        |          | N.D.  | d        |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        |          | N.D.  |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        |          | N.D.  |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        |          | N.D.  |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        |          | N.D.  |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        |          | N.D.  |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        |          | N.D.  | d        |
| 52) Acenaphthylene            | 0.000  |       | 0        |          | N.D.  | d        |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        |          | N.D.  |          |
| 60) Caprolactam               | 0.000  |       | 0        |          | N.D.  | d        |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        |          | N.D.  |          |
| 62) Biphenyl                  | 0.000  |       | 0        |          | N.D.  | d        |
| 64) 3-Nitroaniline            | 0.000  |       | 0        |          | N.D.  |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 26 13:12:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                       | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-------|--------|----------|
| 65) Acenaphthene               | 0.000  |      | 0        | N.D.  | d      |          |
| 66) 2,4-Dinitrophenol          | 0.000  |      | 0        | N.D.  |        |          |
| 67) Dibenzofuran               | 0.000  |      | 0        | N.D.  | d      |          |
| 68) 2,4-Dinitrotoluene         | 0.000  |      | 0        | N.D.  |        |          |
| 69) 4-Nitrophenol              | 0.000  |      | 0        | N.D.  |        |          |
| 71) 2,3,4,6-Tetrachlorophenol  | 0.000  |      | 0        | N.D.  |        |          |
| 72) Diethyl phthalate          | 0.000  |      | 0        | N.D.  |        |          |
| 73) Fluorene                   | 0.000  |      | 0        | N.D.  | d      |          |
| 74) 4-Chlorophenyl phenyl ...  | 0.000  |      | 0        | N.D.  |        |          |
| 75) 4-Nitroaniline             | 0.000  |      | 0        | N.D.  |        |          |
| 76) 4,6-Dinitro-o-cresol       | 0.000  |      | 0        | N.D.  |        |          |
| 77) NDPA/DPA                   | 0.000  |      | 0        | N.D.  | d      |          |
| 80) 4-Bromophenyl phenyl e...  | 0.000  |      | 0        | N.D.  |        |          |
| 81) Hexachlorobenzene          | 0.000  |      | 0        | N.D.  |        |          |
| 82) Pentachlorophenol          | 0.000  |      | 0        | N.D.  |        |          |
| 87) Atrazine                   | 0.000  |      | 0        | N.D.  |        |          |
| 89) Phenanthrene               | 7.343  | 178  | 45111    | 2.039 | ug/ml  | 97       |
| 90) Anthracene                 | 7.380  | 178  | 12990    | 0.598 | ug/ml# | 94       |
| 91) Carbazole                  | 0.000  |      | 0        | N.D.  | d      |          |
| 92) Di-n-butylphthalate        | 0.000  |      | 0        | N.D.  | d      |          |
| 93) Fluoranthene               | 8.352  | 202  | 88020    | 3.413 | ug/ml  | 98       |
| 95) Pyrene                     | 8.545  | 202  | 80489    | 2.891 | ug/ml  | 97       |
| 97) Butyl benzyl phthalate     | 0.000  |      | 0        | N.D.  | d      |          |
| 105) Benzo(a)anthracene        | 9.651  | 228  | 49168    | 1.647 | ug/ml# | 90       |
| 106) 3,3'-Dichlorobenzidine    | 0.000  |      | 0        | N.D.  | d      |          |
| 107) Chrysene                  | 9.683  | 228  | 43794    | 1.375 | ug/ml  | 99       |
| 108) Bis(2-ethylhexyl)phtha... | 0.000  |      | 0        | N.D.  | d      |          |
| 109) Di-n-octylphthalate       | 0.000  |      | 0        | N.D.  | d      |          |
| 110) Benzo(b)fluoranthene      | 10.596 | 252  | 52135M3  | 1.591 | ug/ml  |          |
| 111) Benzo(k)fluoranthene      | 10.607 | 252  | 15224M3  | 0.493 | ug/ml  |          |
| 112) Benzo(a)pyrene            | 10.847 | 252  | 35000    | 1.121 | ug/ml  | 97       |
| 114) Indeno(1,2,3-cd)pyrene    | 11.681 | 276  | 22598M3  | 0.892 | ug/mL  |          |
| 115) Dibenzo(a,h)anthracene    | 0.000  |      | 0        | N.D.  | d      |          |
| 116) Benzo(ghi)perylene        | 11.857 | 276  | 23097    | 0.852 | ug/ml  | 95       |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 26 13:12:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

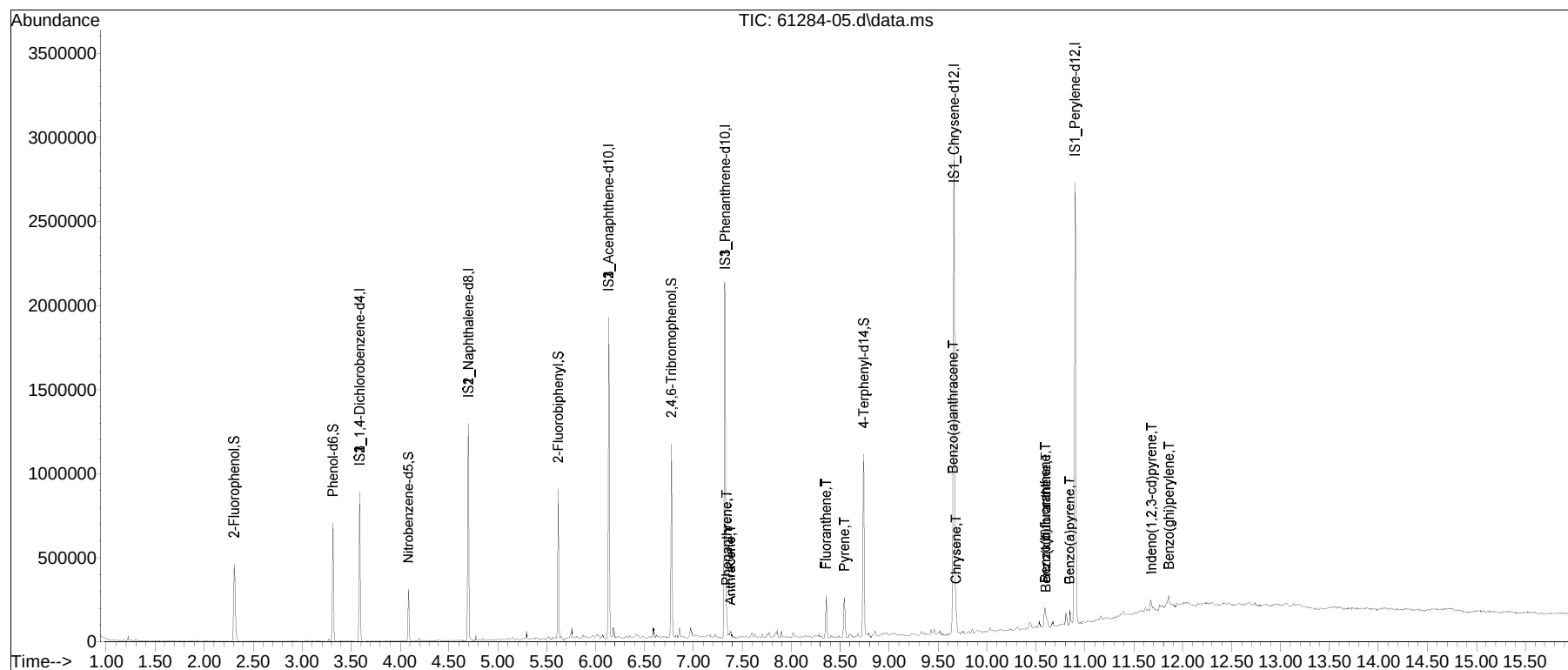
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

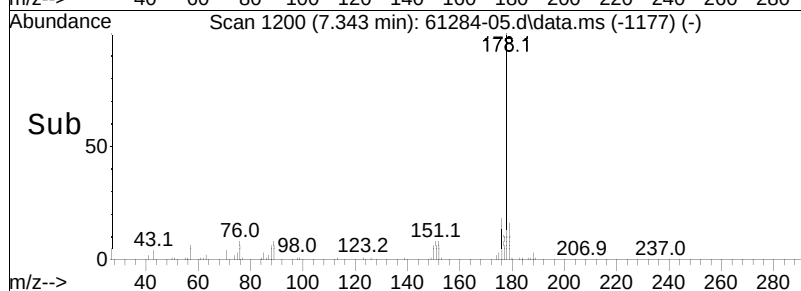
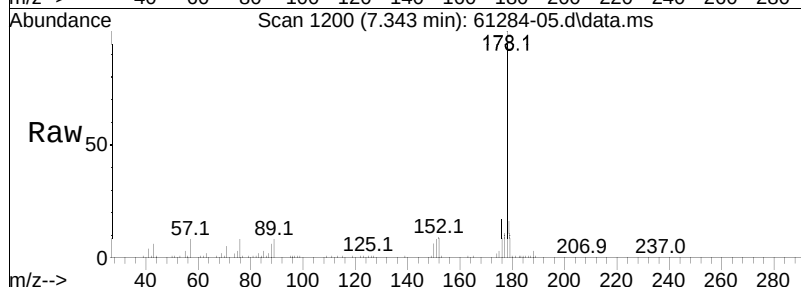
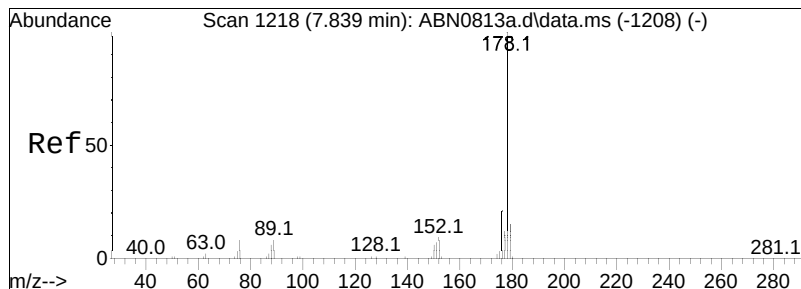
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 26 13:12:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

Sub List : 8270TCL\_REV2 - TCL/CT/MAN\AP91223n.d•





#89

Phenanthrene

Concen: 2.04 ug/ml

RT: 7.343 min Scan# 1200

Delta R.T. 0.000 min

Lab File: 61284-05.d

Acq: 24 Dec 2019 7:27 am

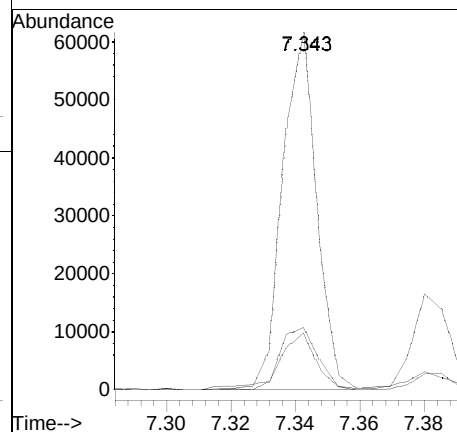
Tgt Ion:178 Resp: 45111

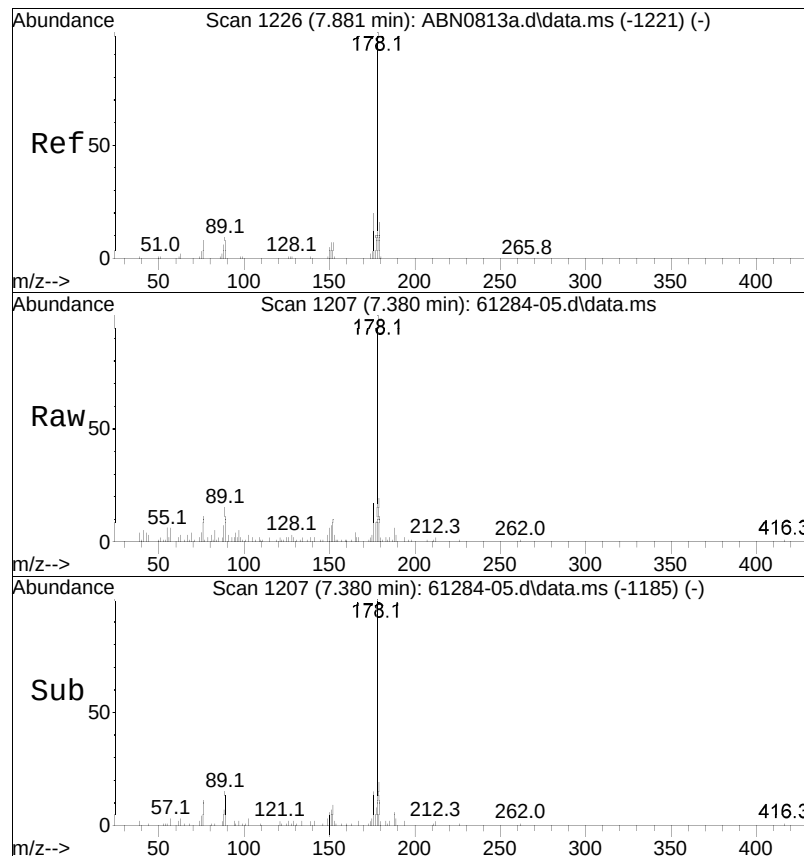
Ion Ratio Lower Upper

178 100

179 17.7 12.7 19.1

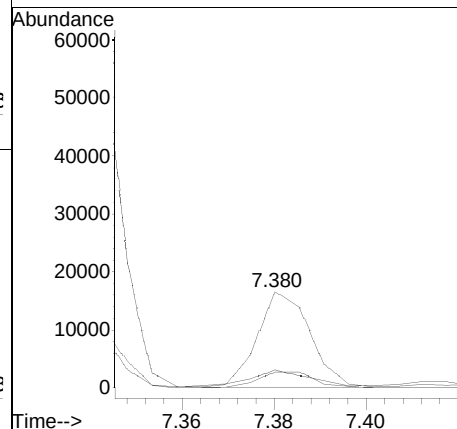
176 19.1 15.8 23.6



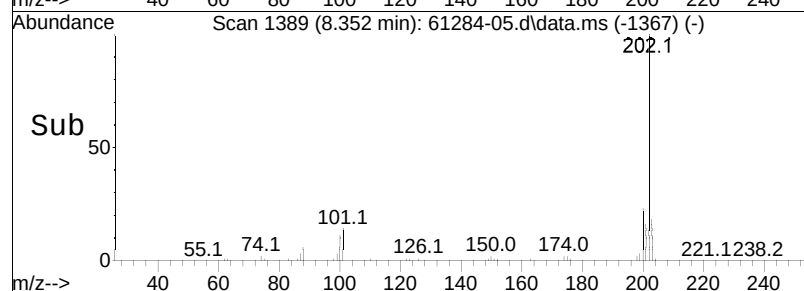
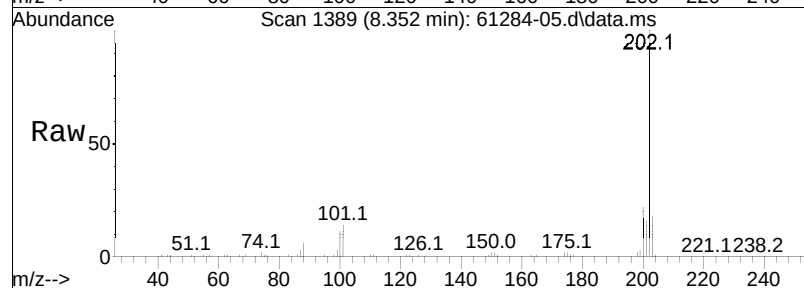
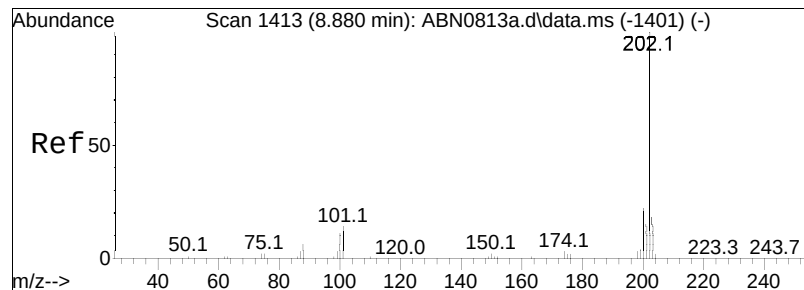


#90  
 Anthracene  
 Concen: 0.60 ug/ml  
 RT: 7.380 min Scan# 1207  
 Delta R.T. -0.005 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:178 | Resp: | 12990 |
| Ion | Ratio   | Lower | Upper |
| 178 | 100     |       |       |
| 179 | 20.8    | 12.5  | 18.7# |
| 176 | 18.5    | 15.4  | 23.0  |

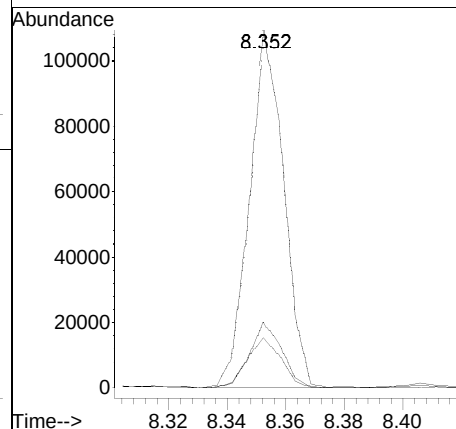


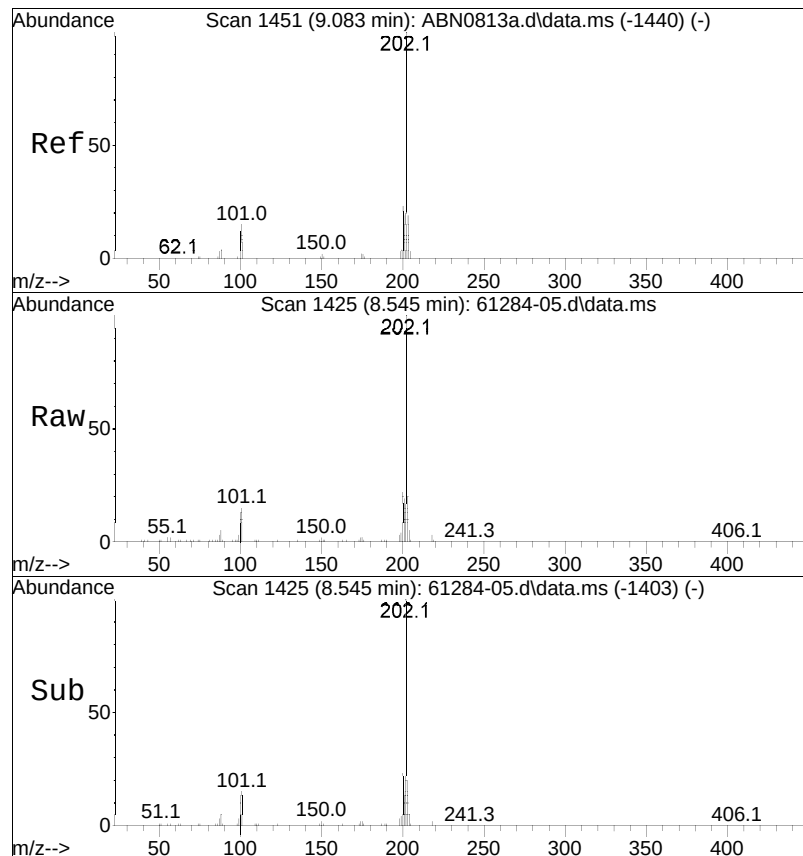




#93  
 Fluoranthene  
 Concen: 3.41 ug/ml  
 RT: 8.352 min Scan# 1389  
 Delta R.T. -0.005 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

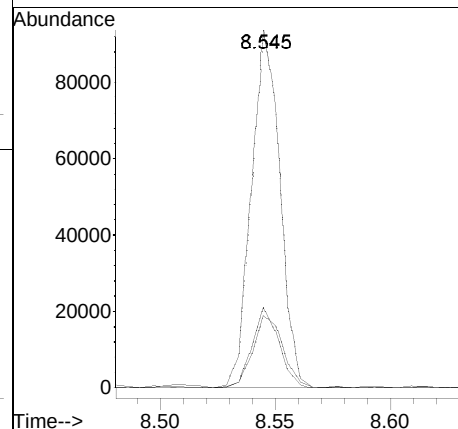
| Tgt | Ion  | Ratio | Resp  | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 202 | 100  |       | 88020 |       |       |
| 101 | 14.4 | 12.6  |       | 19.0  |       |
| 203 | 17.5 | 14.4  |       | 21.6  |       |

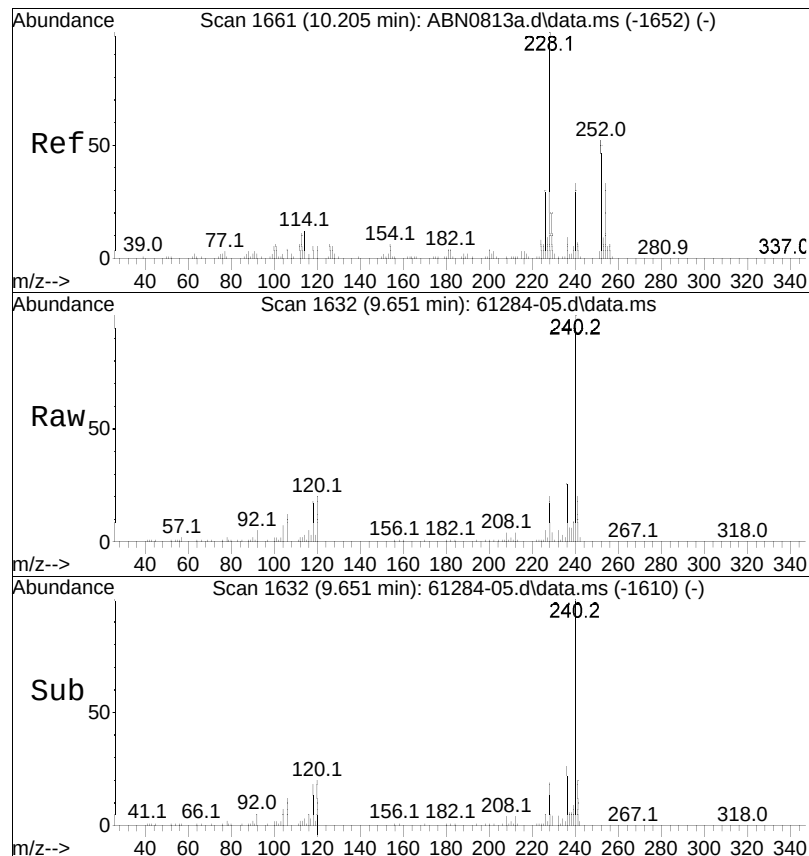




#95  
 Pyrene  
 Concen: 2.89 ug/ml  
 RT: 8.545 min Scan# 1425  
 Delta R.T. -0.005 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

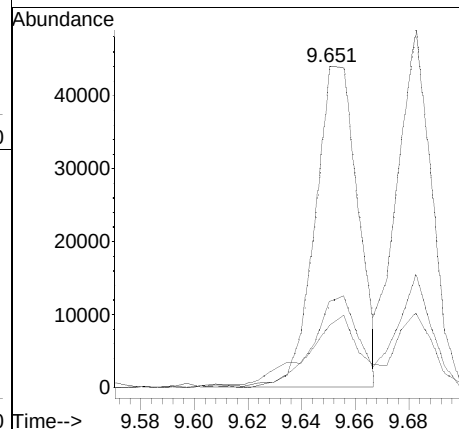
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 80489 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.1  | 17.2  | 25.8  |
| 203       | 21.1  | 15.0  | 22.6  |

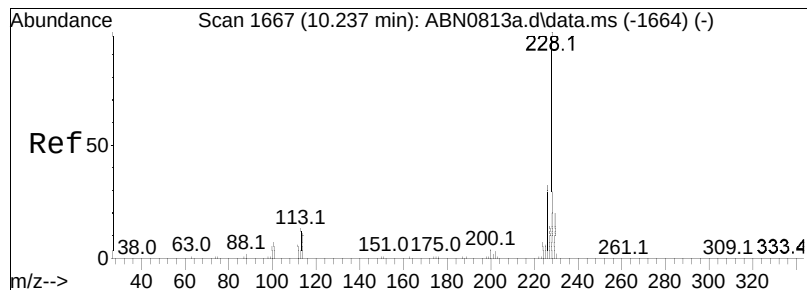




#105  
 Benzo(a)anthracene  
 Concen: 1.65 ug/ml  
 RT: 9.651 min Scan# 1632  
 Delta R.T. -0.005 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 228 | 100  |       |       |       |
| 226 | 30.5 | 22.9  | 34.3  |       |
| 229 | 29.4 | 16.1  | 24.1  |       |





#107

Chrysene

Concen: 1.37 ug/ml

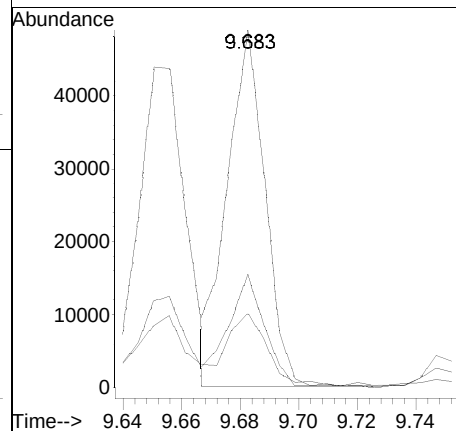
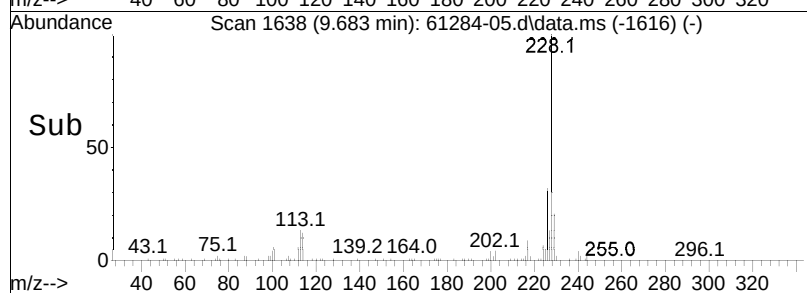
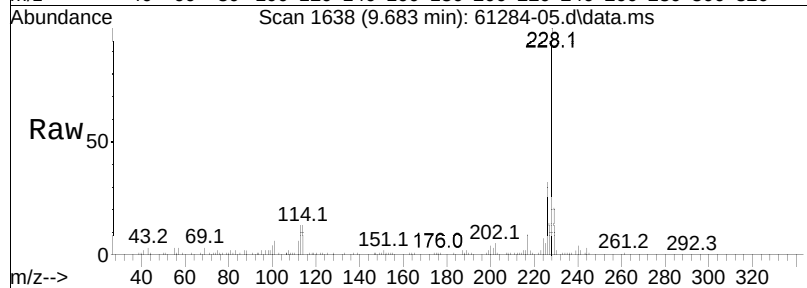
RT: 9.683 min Scan# 1638

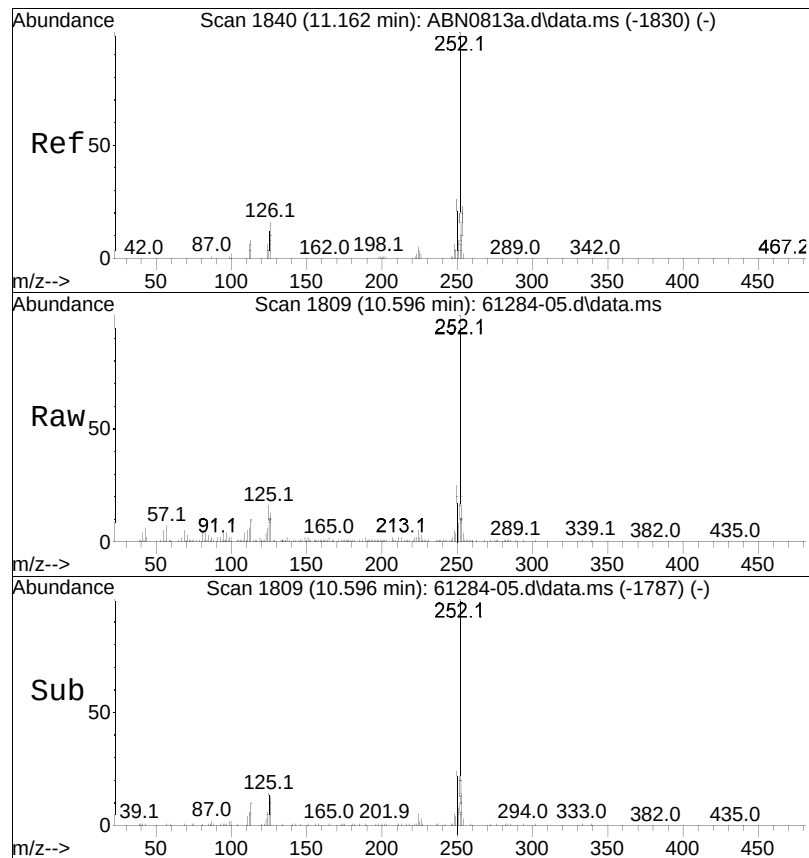
Delta R.T. -0.005 min

Lab File: 61284-05.d

Acq: 24 Dec 2019 7:27 am

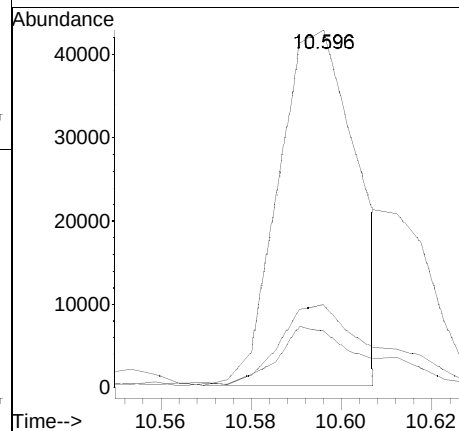
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 43794 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.8  | 24.9  | 37.3  |
| 229       | 19.3  | 16.6  | 24.8  |

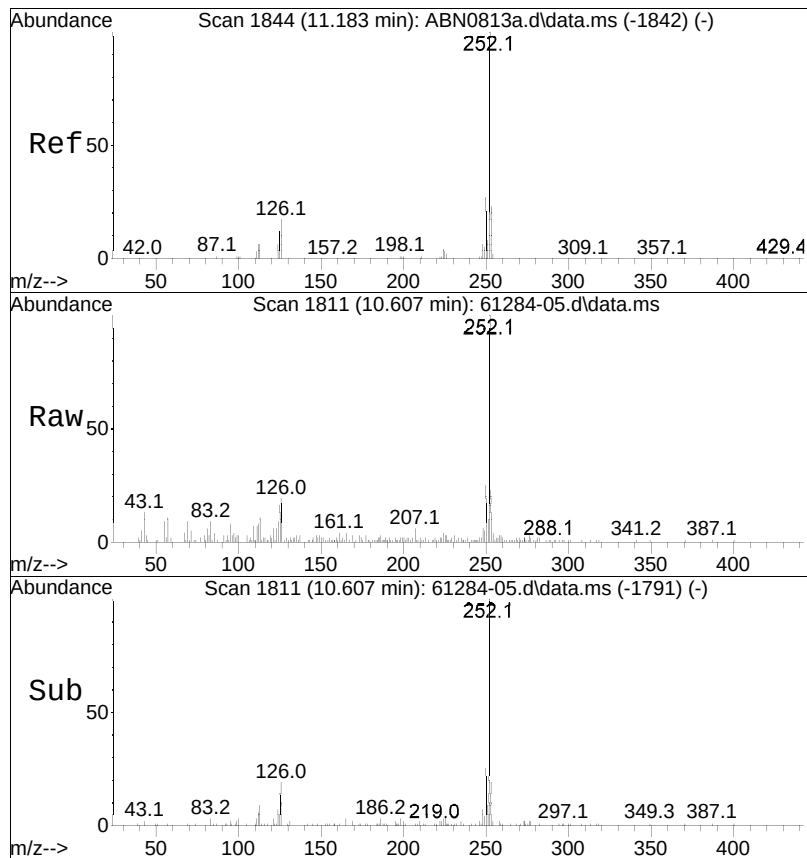




#110  
 Benzo(b)fluoranthene  
 Concen: 1.59 ug/ml M3  
 RT: 10.596 min Scan# 1809  
 Delta R.T. -0.005 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

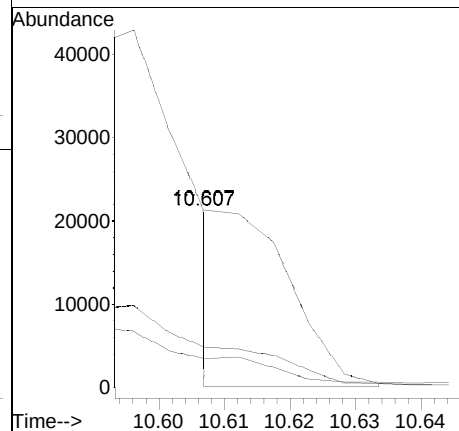
| Tgt | Ion  | Ratio | Resp  | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 252 | 100  |       | 52135 |       |       |
| 125 | 20.2 | 12.6  |       | 18.8# |       |
| 253 | 27.6 | 18.2  |       | 27.2# |       |

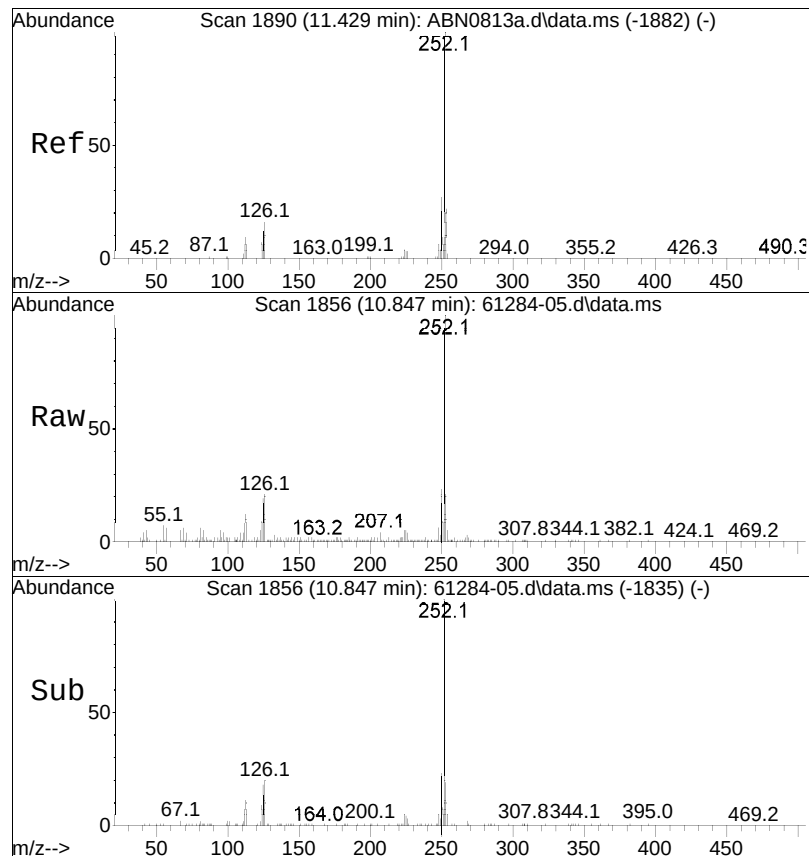




#111  
 Benzo(k)fluoranthene  
 Concen: 0.49 ug/ml M3  
 RT: 10.607 min Scan# 1811  
 Delta R.T. -0.016 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

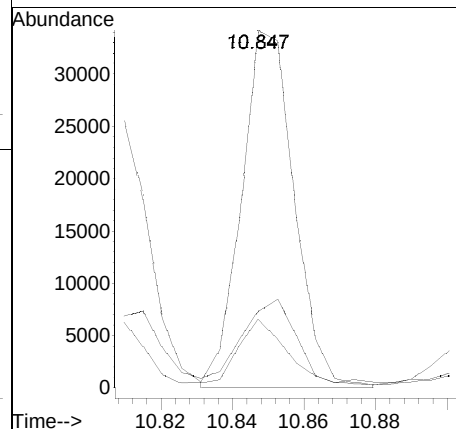
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 70.2  | 12.1  | 18.1# |
| 253     | 95.0  | 18.1  | 27.1# |

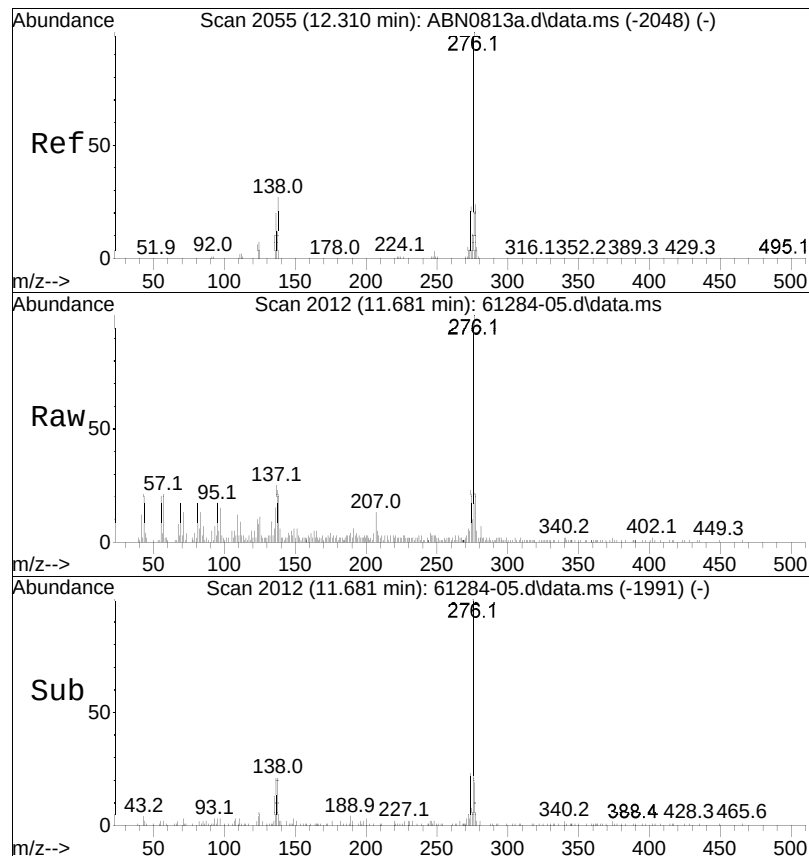




#112  
 Benzo(a)pyrene  
 Concen: 1.12 ug/ml  
 RT: 10.847 min Scan# 1856  
 Delta R.T. -0.010 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

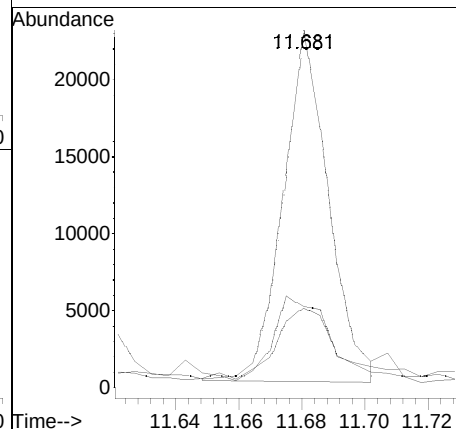
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:252 | Resp: | 35000 |
| Ion | Ratio   | Lower | Upper |
| 252 | 100     |       |       |
| 125 | 17.6    | 13.3  | 19.9  |
| 253 | 24.4    | 18.2  | 27.4  |



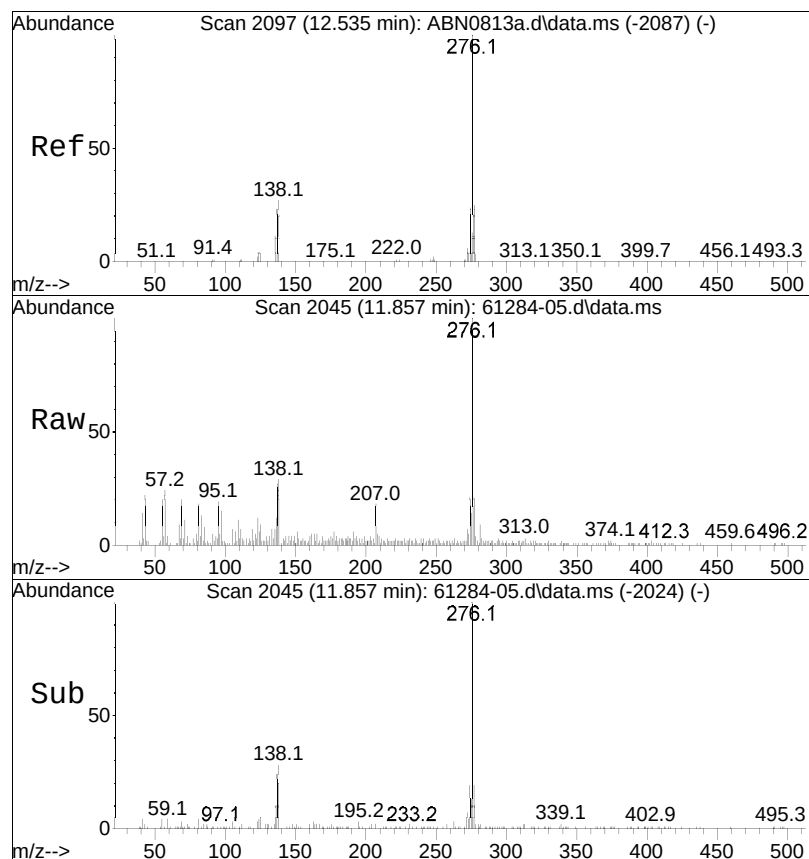


#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.89 ug/mL M3  
 RT: 11.681 min Scan# 2012  
 Delta R.T. -0.010 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 22598 |       |       |
| 138     | 32.2  |       | 26.7  | 40.1  |
| 277     | 27.8  |       | 20.4  | 30.6  |

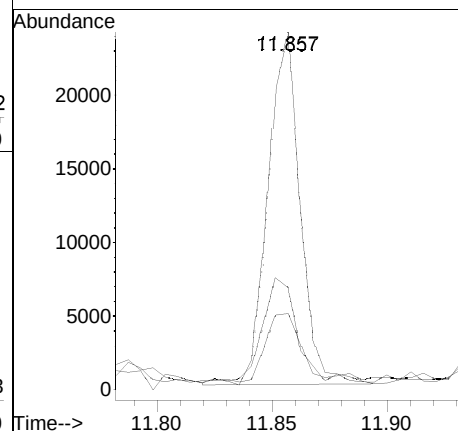






#116  
 Benzo(ghi)perylene  
 Concen: 0.85 ug/ml  
 RT: 11.857 min Scan# 2045  
 Delta R.T. -0.010 min  
 Lab File: 61284-05.d  
 Acq: 24 Dec 2019 7:27 am

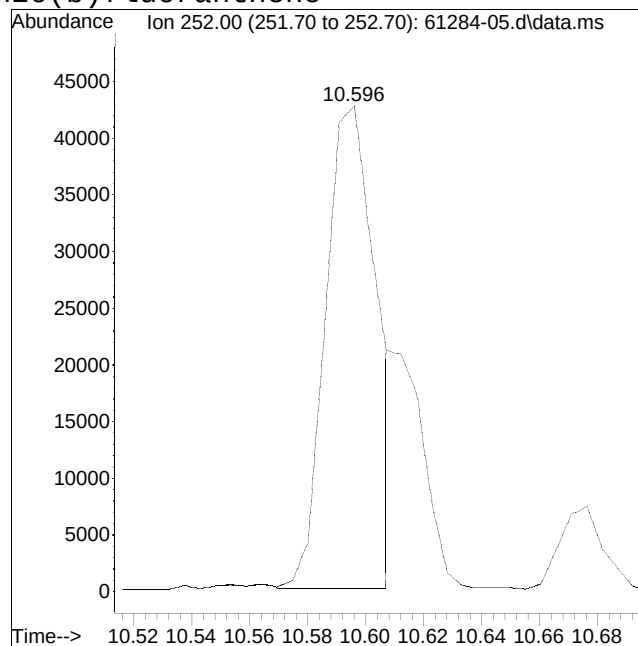
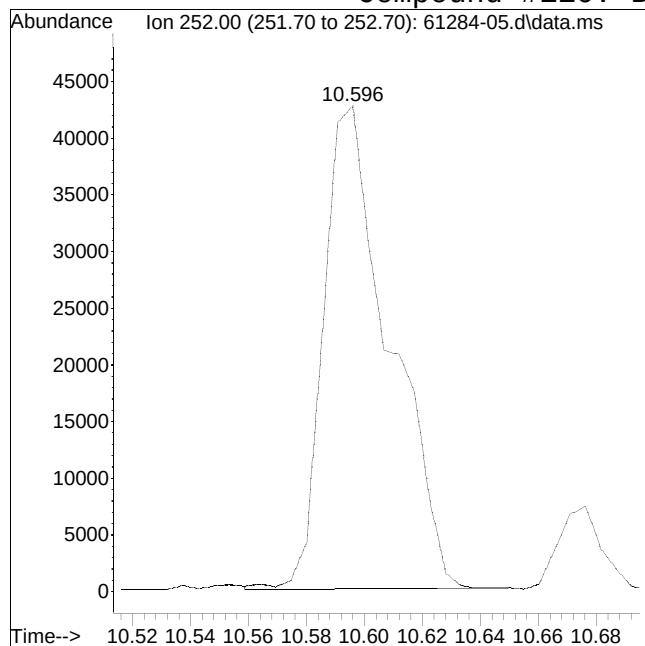
| Tgt Ion | Ratio | Resp: Lower | Upper |
|---------|-------|-------------|-------|
| 276     | 100   |             |       |
| 138     | 35.4  | 26.1        | 39.1  |
| 277     | 27.3  | 19.4        | 29.0  |



# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 61284-05.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 7:27 am Instrument : GCMS5  
Sample : l1961284-05,32,,ny,ask Quant Date : 12/26/2019 12:18 pm

## Compound #110: Benzo(b)fluoranthene



Original Peak Response = 67589

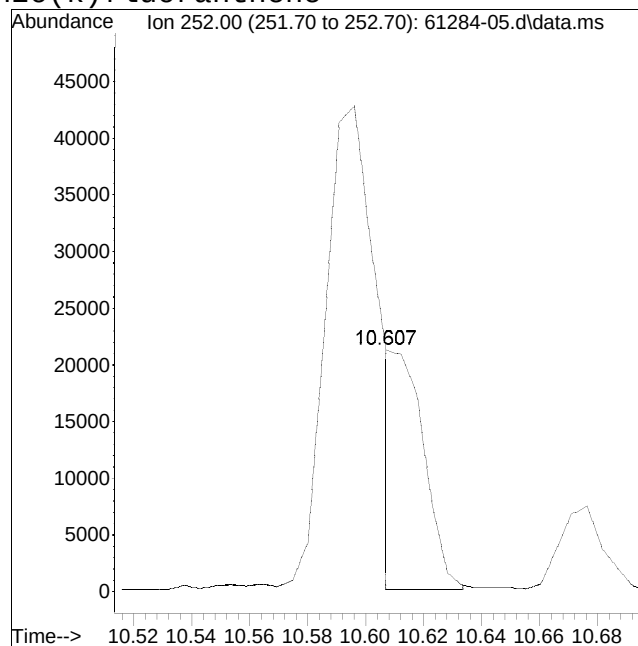
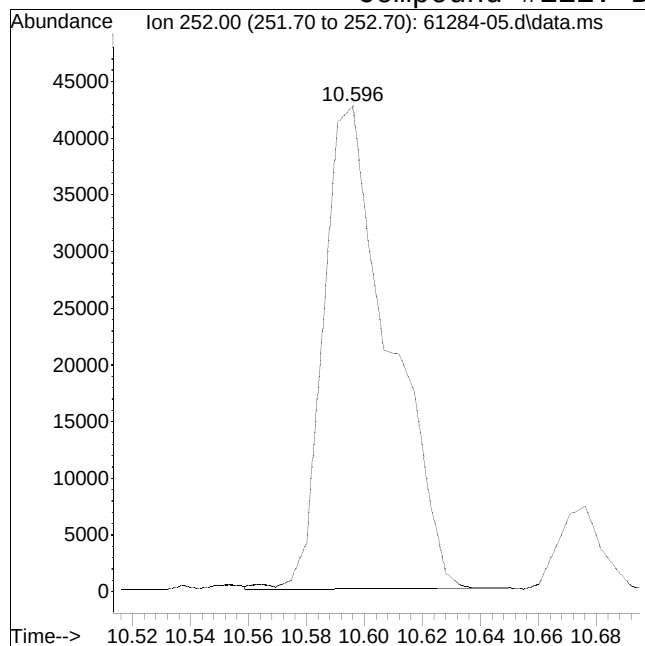
Manual Peak Response = 52135 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 61284-05.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 7:27 am Instrument : GCMS5  
Sample : l1961284-05,32,,ny,ask Quant Date : 12/26/2019 12:18 pm

## Compound #111: Benzo(k)fluoranthene



Original Peak Response = 67589

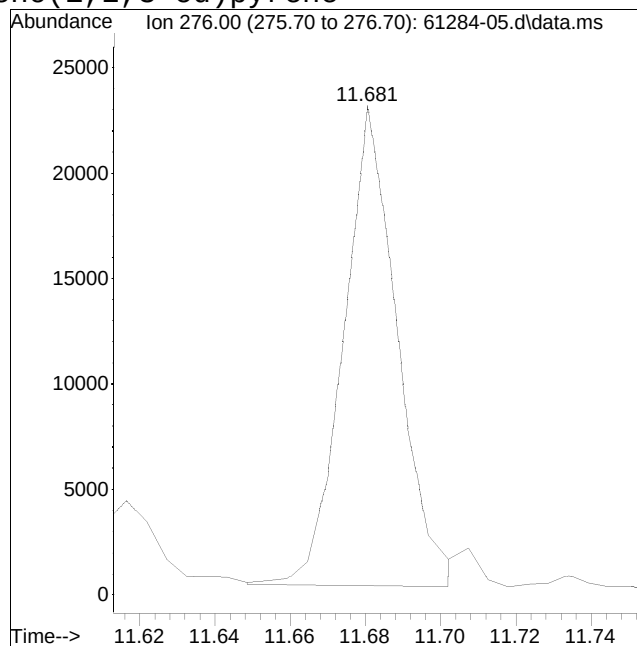
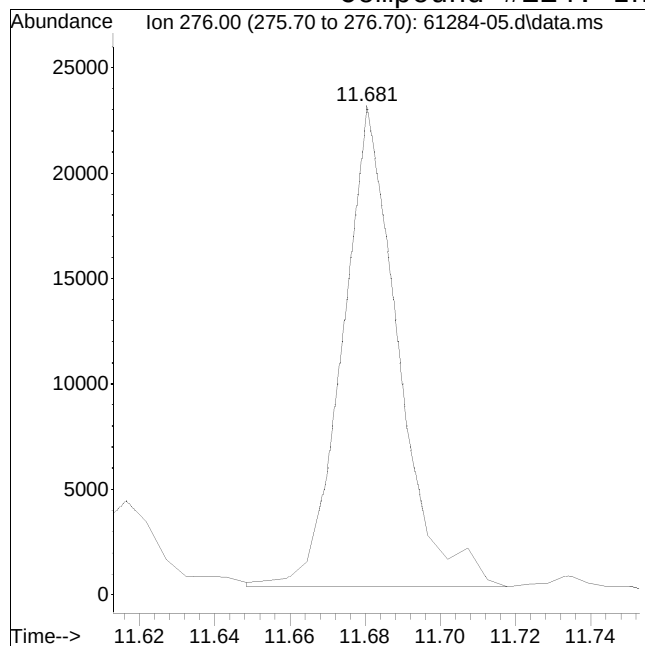
Manual Peak Response = 15224 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 61284-05.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 7:27 am Instrument : GCMS5  
Sample : l1961284-05,32,,ny,ask Quant Date : 12/26/2019 12:18 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 23509

Manual Peak Response = 22598 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

## LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 61284-05.d\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.305       | 252           | 257         | 267          | rVB      | 459597         | 495810        | 16.97%          | 3.101%        |
| 2         | 3.315       | 442           | 446         | 451          | rVB      | 705775         | 532941        | 18.24%          | 3.333%        |
| 3         | 3.587       | 493           | 497         | 501          | rBV      | 891329         | 670046        | 22.94%          | 4.191%        |
| 4         | 4.089       | 587           | 591         | 594          | rBV      | 309633         | 225149        | 7.71%           | 1.408%        |
| 5         | 4.698       | 701           | 705         | 708          | rBV      | 1294707        | 978580        | 33.50%          | 6.120%        |
| 6         | 5.286       | 812           | 815         | 821          | rVB2     | 46172          | 42781         | 1.46%           | 0.268%        |
| 7         | 5.617       | 874           | 877         | 880          | rBV      | 889877         | 611666        | 20.94%          | 3.825%        |
| 8         | 5.751       | 896           | 902         | 906          | rBV2     | 57000          | 62531         | 2.14%           | 0.391%        |
| 9         | 6.135       | 971           | 974         | 978          | rBV      | 1909730        | 1423075       | 48.71%          | 8.900%        |
| 10        | 6.183       | 978           | 983         | 987          | rVB2     | 58647          | 49884         | 1.71%           | 0.312%        |
| 11        | 6.584       | 1055          | 1058        | 1063         | rBV2     | 59543          | 56057         | 1.92%           | 0.351%        |
| 12        | 6.771       | 1089          | 1093        | 1097         | rBV      | 1151080        | 853790        | 29.23%          | 5.340%        |
| 13        | 6.862       | 1107          | 1110        | 1113         | rBV      | 55725          | 39347         | 1.35%           | 0.246%        |
| 14        | 6.969       | 1125          | 1130        | 1138         | rBV3     | 62858          | 101811        | 3.49%           | 0.637%        |
| 15        | 7.321       | 1192          | 1196        | 1202         | rBV      | 2118220        | 1951702       | 66.81%          | 12.206%       |
| 16        | 7.380       | 1205          | 1207        | 1211         | rVB      | 40886          | 34840         | 1.19%           | 0.218%        |
| 17        | 7.775       | 1278          | 1281        | 1286         | rVB      | 32804          | 33982         | 1.16%           | 0.213%        |
| 18        | 7.856       | 1294          | 1296        | 1300         | rVB2     | 46053          | 43767         | 1.50%           | 0.274%        |
| 19        | 7.893       | 1300          | 1303        | 1307         | rBV      | 41698          | 36469         | 1.25%           | 0.228%        |
| 20        | 8.021       | 1322          | 1327        | 1330         | rBV      | 30474          | 35132         | 1.20%           | 0.220%        |
| 21        | 8.352       | 1385          | 1389        | 1393         | rBV      | 253630         | 208920        | 7.15%           | 1.307%        |
| 22        | 8.545       | 1421          | 1425        | 1429         | rBV      | 238875         | 221836        | 7.59%           | 1.387%        |
| 23        | 8.742       | 1457          | 1462        | 1466         | rBV      | 1086777        | 976561        | 33.43%          | 6.108%        |
| 24        | 8.860       | 1476          | 1484        | 1487         | rBV3     | 33532          | 57134         | 1.96%           | 0.357%        |
| 25        | 9.426       | 1586          | 1590        | 1593         | rBV2     | 27862          | 30549         | 1.05%           | 0.191%        |
| 26        | 9.458       | 1593          | 1596        | 1599         | rVB      | 32284          | 31694         | 1.08%           | 0.198%        |
| 27        | 9.661       | 1627          | 1634        | 1641         | rBV      | 2986865        | 2921241       | 100.00%         | 18.270%       |
| 28        | 9.896       | 1673          | 1678        | 1681         | rBV6     | 19150          | 36276         | 1.24%           | 0.227%        |

# LSC Area Percent Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 29 | 10.436 | 1775 | 1779 | 1784 | rBV6 | 41865   | 70648   | 2.42%  | 0.442%  |
| 30 | 10.532 | 1794 | 1797 | 1802 | rVB2 | 38011   | 35737   | 1.22%  | 0.224%  |
|    |        |      |      |      |      |         |         |        |         |
| 31 | 10.591 | 1805 | 1808 | 1819 | rVB  | 117559  | 189418  | 6.48%  | 1.185%  |
| 32 | 10.671 | 1821 | 1823 | 1830 | rVB2 | 36075   | 45359   | 1.55%  | 0.284%  |
| 33 | 10.810 | 1845 | 1849 | 1853 | rBV2 | 76270   | 78966   | 2.70%  | 0.494%  |
| 34 | 10.847 | 1853 | 1856 | 1861 | rBV  | 88051   | 105406  | 3.61%  | 0.659%  |
| 35 | 10.901 | 1861 | 1866 | 1870 | rBV  | 2620976 | 2643062 | 90.48% | 16.530% |
|    |        |      |      |      |      |         |         |        |         |
| 36 | 11.681 | 2009 | 2012 | 2015 | rBV  | 56922   | 57051   | 1.95%  | 0.357%  |

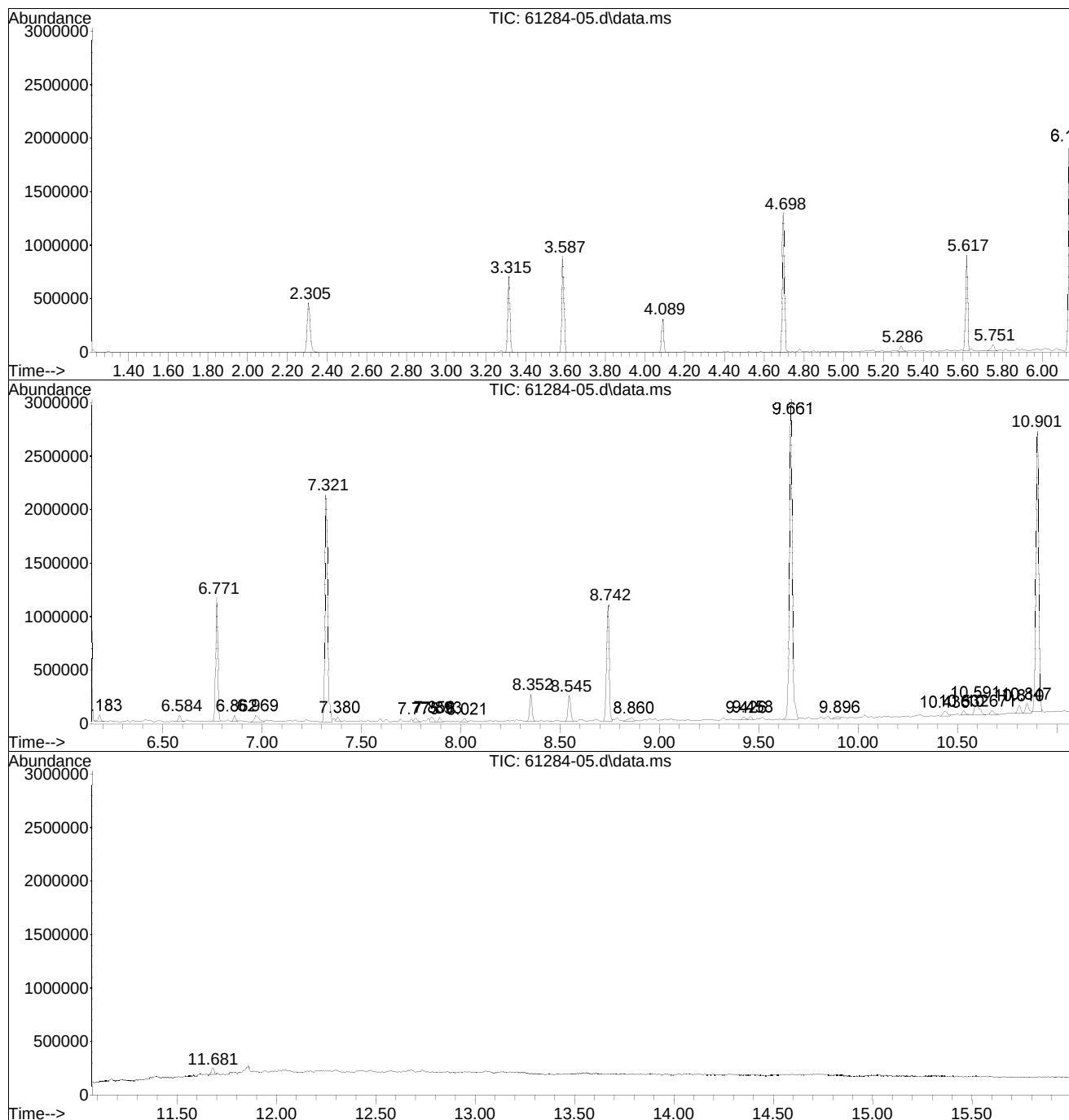
Sum of corrected areas: 15989218

# LSC Report - Integrated Chromatogram

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : I:\8270\GCMS5\191223n\  
Data File : 61284-05.d  
Acq On : 24 Dec 2019 7:27 am  
Operator : gcms5:ek  
Sample : l1961284-05,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 15 Sample Multiplier: 1  
  
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
  
TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

\*\*\*\*\*



# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 61284-05.d  
 Acq On : 24 Dec 2019 7:27 am  
 Operator : gcms5:ek  
 Sample : l1961284-05,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 06:49:41 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|---------|----------|
| Internal Standards            |                |      |          |        |         |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.033          | 152  | 104722   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 124940      |                |      | Recovery | =      | 83.82%  |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.033          | 152  | 104722   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 107713      |                |      | Recovery | =      | 97.22%  |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.033          | 152  | 104722   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 117782      |                |      | Recovery | =      | 88.91%  |          |
| 35) IS1_Naphthalene-d8        | 5.284          | 136  | 424211   | 40.000 | ug/ml   | # 0.00   |
| Standard Area 1 = 510434      |                |      | Recovery | =      | 83.11%  |          |
| 55) IS2_Naphthalene-d8        | 5.284          | 136  | 424211   | 40.000 | ug/ml   | # 0.00   |
| Standard Area 3 = 448385      |                |      | Recovery | =      | 94.61%  |          |
| 63) IS1_Acenaphthene-d10      | 6.980          | 164  | 244363   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 284683      |                |      | Recovery | =      | 85.84%  |          |
| 83) IS2_Acenaphthene-d10      | 6.980          | 164  | 244363   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 253761      |                |      | Recovery | =      | 96.30%  |          |
| 86) IS3_Acenaphthene-d10      | 6.980          | 164  | 244363   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 268914      |                |      | Recovery | =      | 90.87%  |          |
| 88) IS1_Phenanthrene-d10      | 8.392          | 188  | 472428   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 550424      |                |      | Recovery | =      | 85.83%  |          |
| 100) IS3_Phenanthrene-d10     | 8.392          | 188  | 472428   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 514565      |                |      | Recovery | =      | 91.81%  |          |
| 104) IS1_Chrysene-d12         | 10.992         | 240  | 408413   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 503667      |                |      | Recovery | =      | 81.09%  |          |
| 113) IS1_Perylene-d12         | 12.850         | 264  | 422270   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 526137      |                |      | Recovery | =      | 80.26%  |          |
| System Monitoring Compounds   |                |      |          |        |         |          |
| 4) 2-Fluorophenol             | 2.723          | 112  | 12186    | 4.331  | ug/ml   | 0.01     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 8.66%#  |          |
| 7) Phenol-d6                  | 3.769          | 99   | 16127    | 4.571  | ug/ml   | 0.01     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 9.14%#  |          |
| 19) Nitrobenzene-d5           | 4.604          | 82   | 10615    | 3.313  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 13.25%# |          |
| 46) 2-Fluorobiphenyl          | 6.363          | 172  | 19019    | 2.530  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 10.12%# |          |
| 79) 2,4,6-Tribromophenol      | 7.739          | 330  | 5103     | 4.580  | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 9.16%#  |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d, 32, 10, nytc1, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 06:49:41 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| 96) 4-Terphenyl-d14           | 9.958  | 244   | 19938    | 2.439    | ug/ml | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 9.76%#   |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        | N.D.     |       |          |
| 8) Phenol                     | 0.000  |       | 0        | N.D.     |       |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        | N.D.     |       |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        | N.D.     |       |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        | N.D.     |       |          |
| 16) Hexachloroethane          | 0.000  |       | 0        | N.D.     | d     |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        | N.D.     | d     |          |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        | N.D.     | d     |          |
| 20) Nitrobenzene              | 0.000  |       | 0        | N.D.     | d     |          |
| 21) Isophorone                | 0.000  |       | 0        | N.D.     | d     |          |
| 22) 2-Nitrophenol             | 0.000  |       | 0        | N.D.     | d     |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        | N.D.     | d     |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        | N.D.     | d     |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        | N.D.     | d     |          |
| 28) Benzaldehyde              | 0.000  |       | 0        | N.D.     | d     |          |
| 29) Acetophenone              | 0.000  |       | 0        | N.D.     | d     |          |
| 36) Naphthalene               | 5.303  | 128   | 142419M3 | 13.738   | ug/ml |          |
| 38) 4-Chloroaniline           | 0.000  |       | 0        | N.D.     | d     |          |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        | N.D.     |       |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        | N.D.     | d     |          |
| 41) 2-Methylnaphthalene       | 5.988  | 142   | 540770   | 75.242   | ug/ml | 98       |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        | N.D.     |       |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d     |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d     |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        | N.D.     | d     |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        | N.D.     | d     |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        | N.D.     | d     |          |
| 52) Acenaphthylene            | 0.000  |       | 0        | N.D.     | d     |          |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        | N.D.     | d     |          |
| 60) Caprolactam               | 0.000  |       | 0        | N.D.     | d     |          |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        | N.D.     |       |          |
| 62) Biphenyl                  | 6.449  | 154   | 83003    | 9.199    | ug/ml | 97       |
| 64) 3-Nitroaniline            | 0.000  |       | 0        | N.D.     | d     |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 06:49:41 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                       | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 65) Acenaphthene               | 7.008 | 154  | 20960M3  | 3.166  | ug/ml  |          |
| 66) 2,4-Dinitrophenol          | 0.000 |      | 0        | N.D.   | d      |          |
| 67) Dibenzofuran               | 7.179 | 168  | 37218    | 3.805  | ug/ml# | 65       |
| 68) 2,4-Dinitrotoluene         | 0.000 |      | 0        | N.D.   | d      |          |
| 69) 4-Nitrophenol              | 0.000 |      | 0        | N.D.   | d      |          |
| 71) 2,3,4,6-Tetrachlorophenol  | 0.000 |      | 0        | N.D.   | d      |          |
| 72) Diethyl phthalate          | 0.000 |      | 0        | N.D.   | d      |          |
| 73) Fluorene                   | 7.506 | 166  | 49632    | 6.186  | ug/ml# | 80       |
| 74) 4-Chlorophenyl phenyl ...  | 0.000 |      | 0        | N.D.   | d      |          |
| 75) 4-Nitroaniline             | 0.000 |      | 0        | N.D.   | d      |          |
| 76) 4,6-Dinitro-o-cresol       | 0.000 |      | 0        | N.D.   | d      |          |
| 77) NDPA/DPA                   | 0.000 |      | 0        | N.D.   | d      |          |
| 80) 4-Bromophenyl phenyl e...  | 0.000 |      | 0        | N.D.   | d      |          |
| 81) Hexachlorobenzene          | 0.000 |      | 0        | N.D.   | d      |          |
| 82) Pentachlorophenol          | 0.000 |      | 0        | N.D.   | d      |          |
| 87) Atrazine                   | 0.000 |      | 0        | N.D.   | d      |          |
| 89) Phenanthrene               | 8.412 | 178  | 156781   | 12.808 | ug/ml# | 94       |
| 90) Anthracene                 | 8.466 | 178  | 16176    | 1.310  | ug/ml# | 1        |
| 91) Carbazole                  | 0.000 |      | 0        | N.D.   | d      |          |
| 92) Di-n-butylphthalate        | 0.000 |      | 0        | N.D.   | d      |          |
| 93) Fluoranthene               | 0.000 |      | 0        | N.D.   | d      |          |
| 95) Pyrene                     | 9.753 | 202  | 14371    | 1.015  | ug/ml# | 77       |
| 97) Butyl benzyl phthalate     | 0.000 |      | 0        | N.D.   | d      |          |
| 105) Benzo(a)anthracene        | 0.000 |      | 0        | N.D.   | d      |          |
| 106) 3,3'-Dichlorobenzidine    | 0.000 |      | 0        | N.D.   | d      |          |
| 107) Chrysene                  | 0.000 |      | 0        | N.D.   | d      |          |
| 108) Bis(2-ethylhexyl)phtha... | 0.000 |      | 0        | N.D.   | d      |          |
| 109) Di-n-octylphthalate       | 0.000 |      | 0        | N.D.   | d      |          |
| 110) Benzo(b)fluoranthene      | 0.000 |      | 0        | N.D.   | d      |          |
| 111) Benzo(k)fluoranthene      | 0.000 |      | 0        | N.D.   | d      |          |
| 112) Benzo(a)pyrene            | 0.000 |      | 0        | N.D.   | d      |          |
| 114) Indeno(1,2,3-cd)pyrene    | 0.000 |      | 0        | N.D.   | d      |          |
| 115) Dibenzo(a,h)anthracene    | 0.000 |      | 0        | N.D.   | d      |          |
| 116) Benzo(ghi)perylene        | 0.000 |      | 0        | N.D.   | d      |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 06:49:41 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

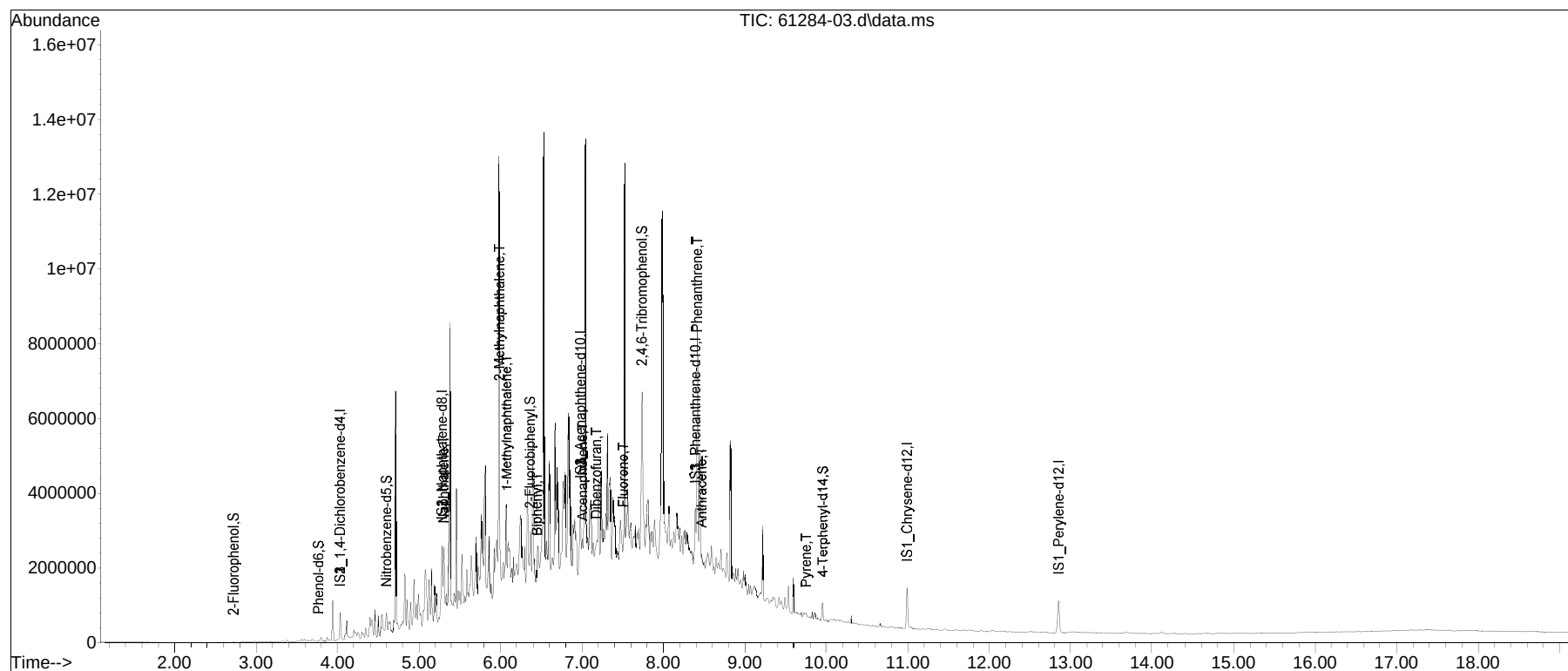
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

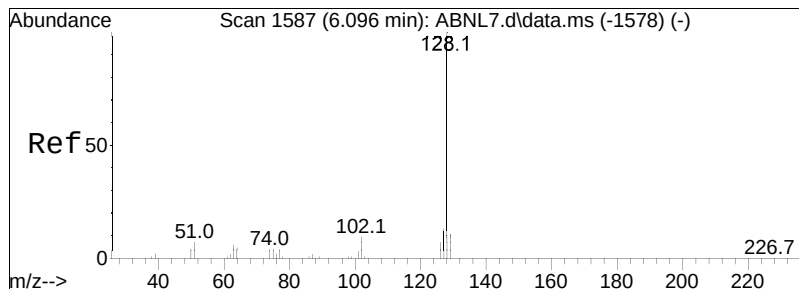
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 06:49:41 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

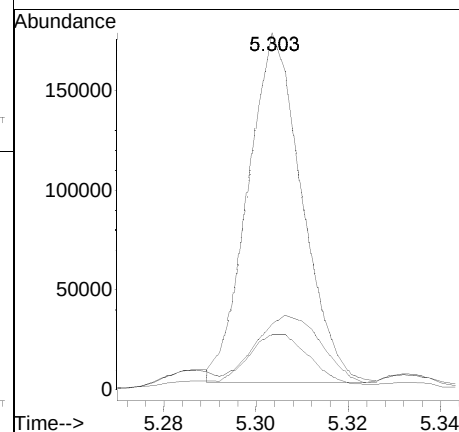
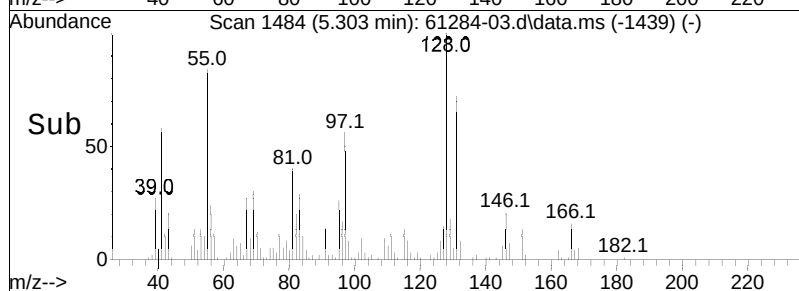
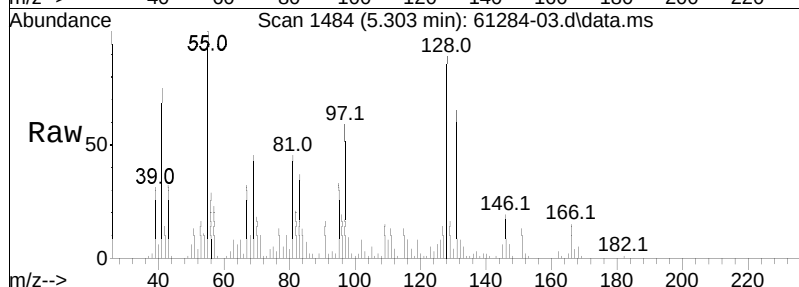
Sub List : 8270TCL\_REV2 - TCL/CT/MA\AP91226.d•

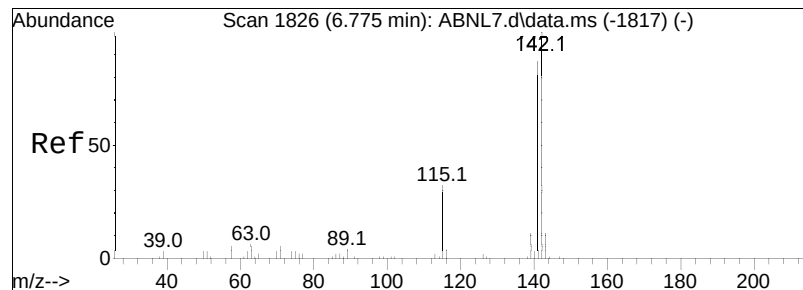




#36  
 Naphthalene  
 Concen: 13.74 ug/ml M3  
 RT: 5.303 min Scan# 1484  
 Delta R.T. 0.003 min  
 Lab File: 61284-03.d  
 Acq: 26 Dec 2019 5:59 pm

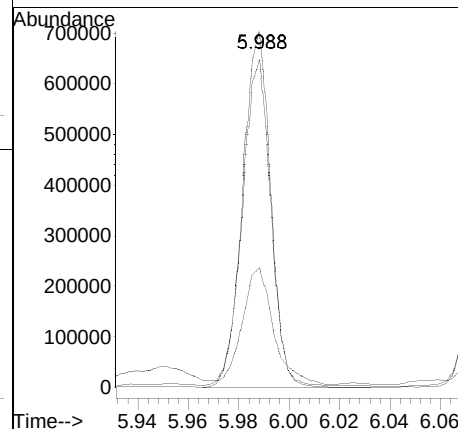
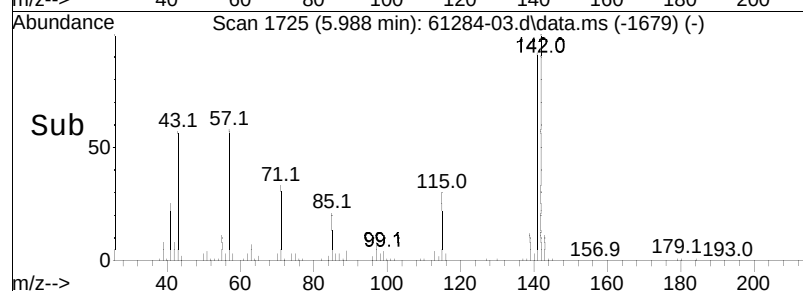
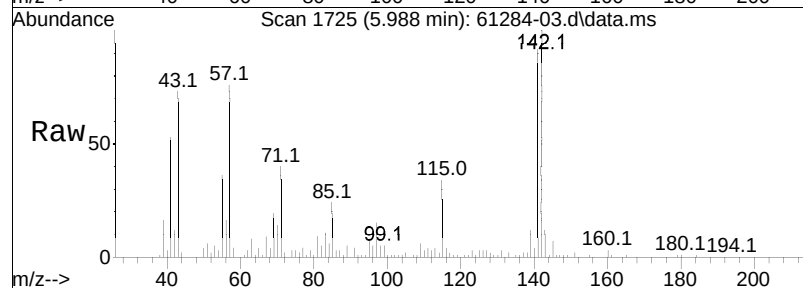
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 128     | 100   |            |       |
| 129     | 26.2  | 8.7        | 13.1# |
| 127     | 20.9  | 10.7       | 16.1# |



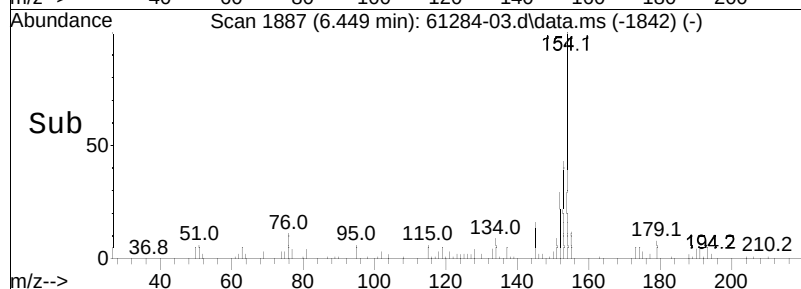
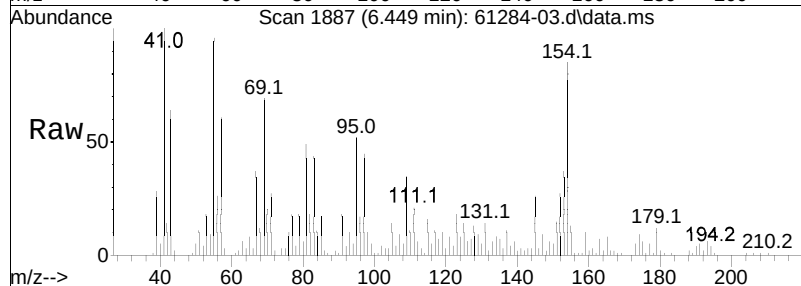
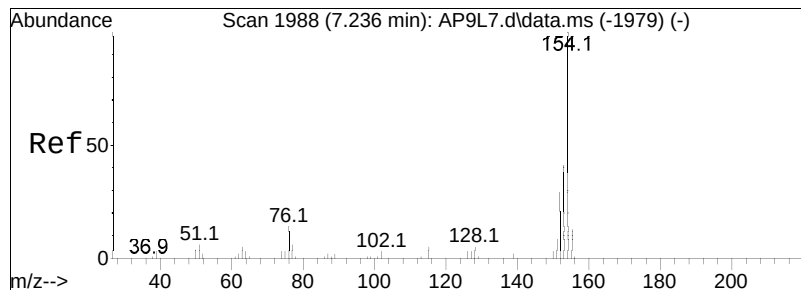


#41  
 2-Methylnaphthalene  
 Concen: 75.24 ug/ml  
 RT: 5.988 min Scan# 1725  
 Delta R.T. 0.006 min  
 Lab File: 61284-03.d  
 Acq: 26 Dec 2019 5:59 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.6  | 71.8  | 107.8 |
| 115     | 36.5  | 29.1  | 43.7  |

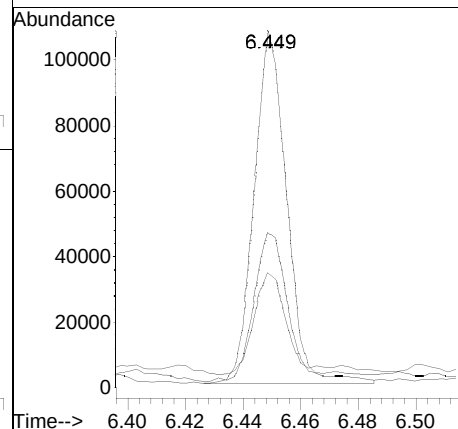


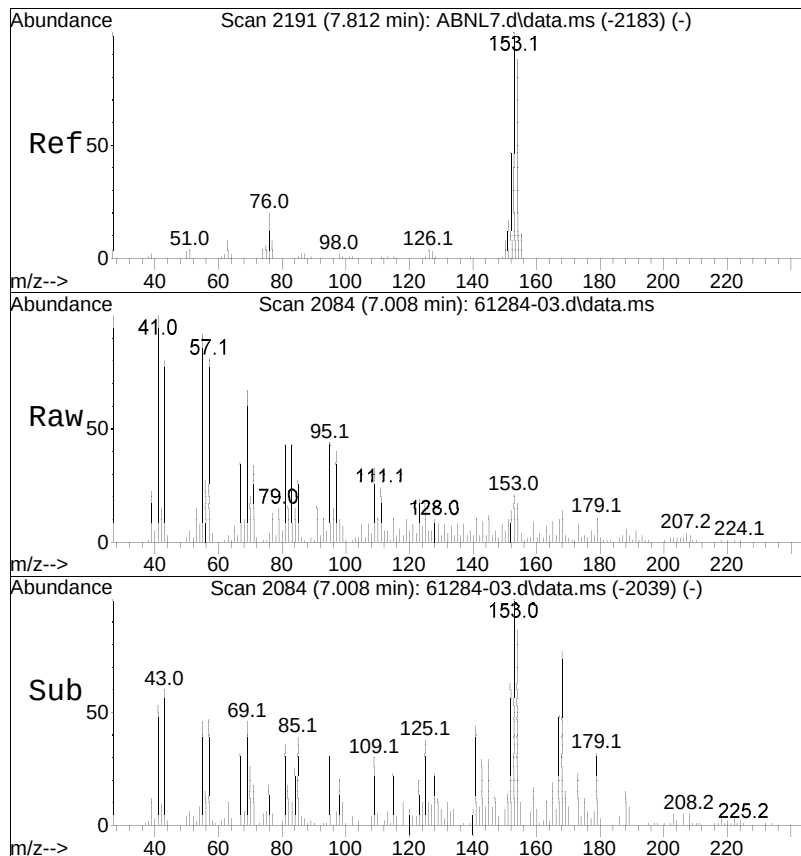




#62  
 Biphenyl  
 Concen: 9.20 ug/ml  
 RT: 6.449 min Scan# 1887  
 Delta R.T. 0.003 min  
 Lab File: 61284-03.d  
 Acq: 26 Dec 2019 5:59 pm

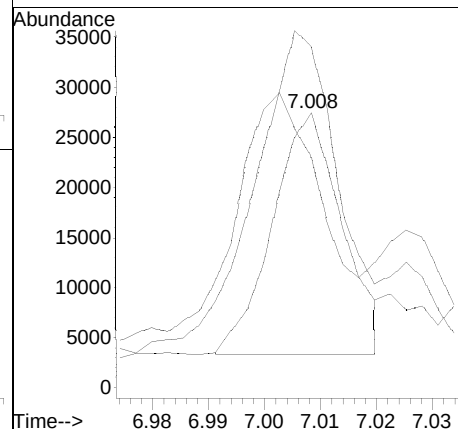
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 43.6  | 33.5  | 50.3  |
| 152     | 30.1  | 22.6  | 34.0  |

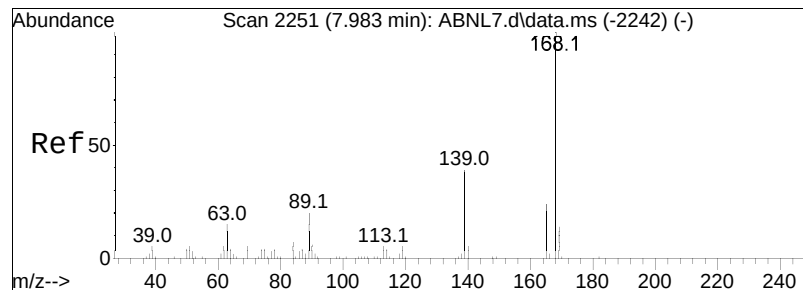




#65  
 Acenaphthene  
 Concen: 3.17 ug/ml M3  
 RT: 7.008 min Scan# 2084  
 Delta R.T. 0.003 min  
 Lab File: 61284-03.d  
 Acq: 26 Dec 2019 5:59 pm

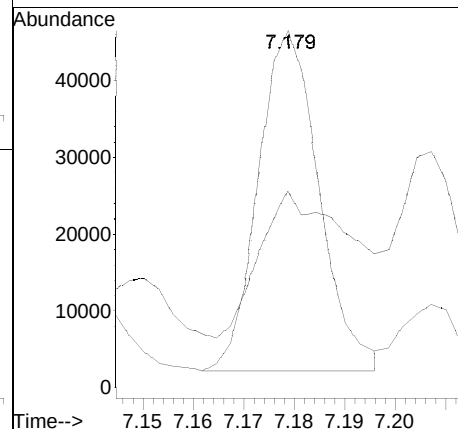
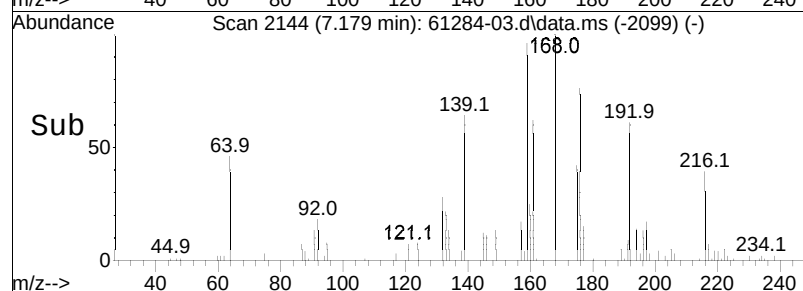
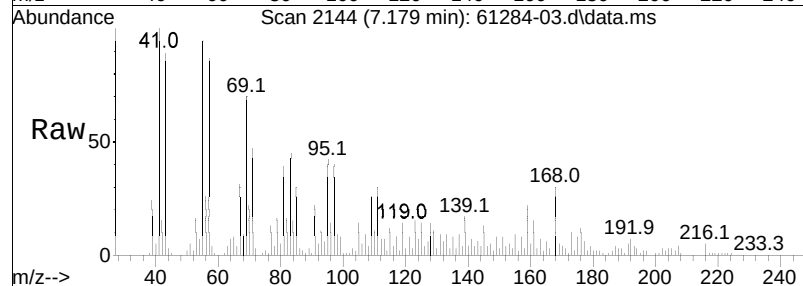
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:154 | Resp: | 20960  |
| Ion | Ratio   | Lower | Upper  |
| 154 | 100     |       |        |
| 153 | 166.4   | 91.3  | 136.9# |
| 152 | 126.4   | 41.0  | 61.4#  |

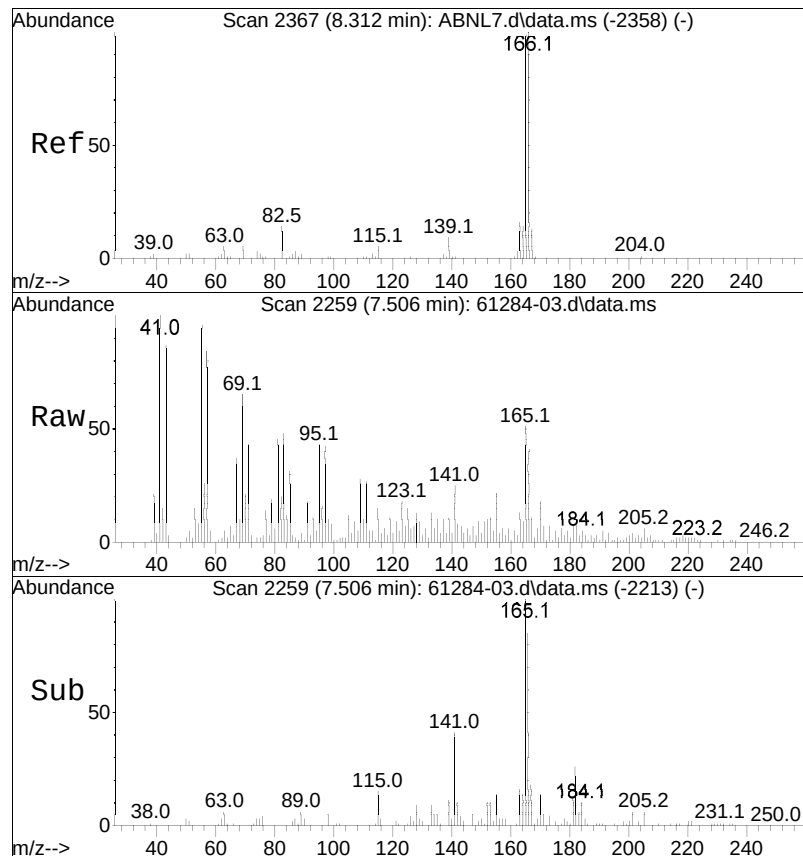




#67  
Dibenzofuran  
Concen: 3.81 ug/ml  
RT: 7.179 min Scan# 2144  
Delta R.T. 0.003 min  
Lab File: 61284-03.d  
Acq: 26 Dec 2019 5:59 pm

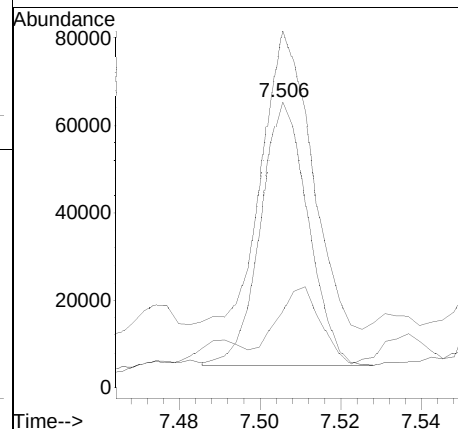
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 63.5  | 33.2  | 49.8# |

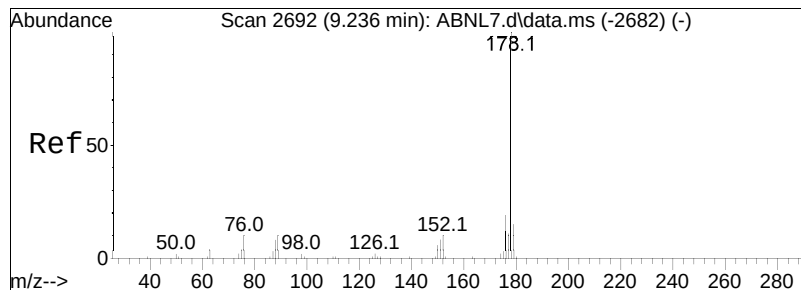




#73  
Fluorene  
Concen: 6.19 ug/ml  
RT: 7.506 min Scan# 2259  
Delta R.T. 0.006 min  
Lab File: 61284-03.d  
Acq: 26 Dec 2019 5:59 pm

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 49632 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 117.6 | 79.3  | 118.9 |
| 167       | 26.7  | 10.6  | 16.0# |





#89

Phenanthrene

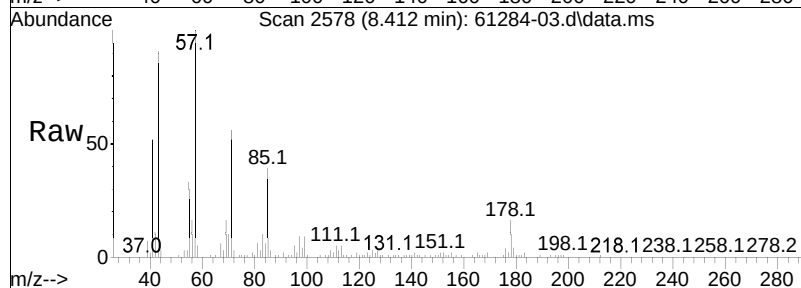
Concen: 12.81 ug/ml

RT: 8.412 min Scan# 2578

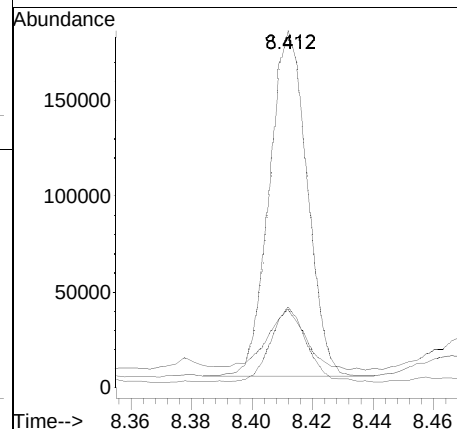
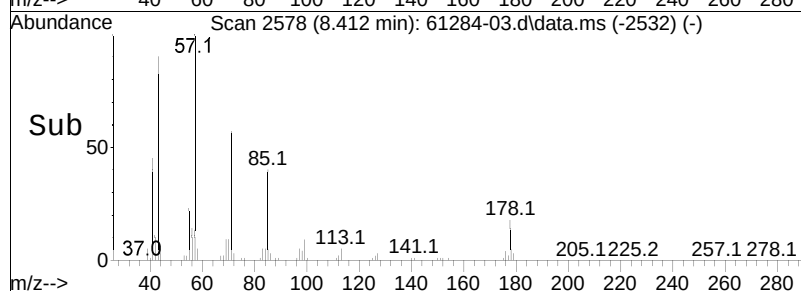
Delta R.T. 0.006 min

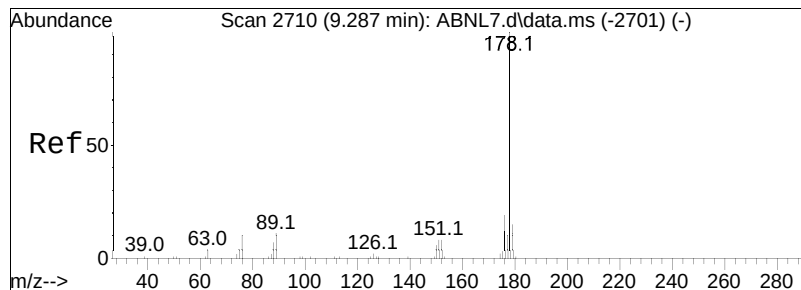
Lab File: 61284-03.d

Acq: 26 Dec 2019 5:59 pm



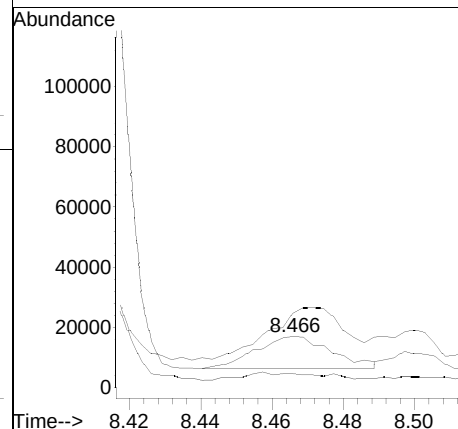
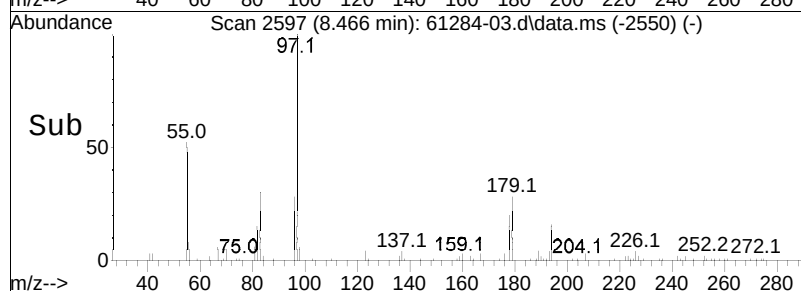
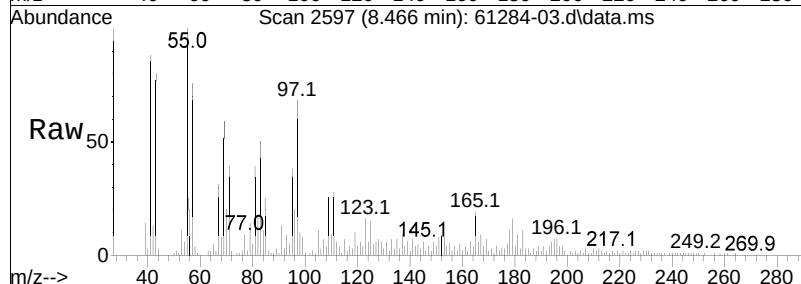
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:178 | Resp: | 156781 |
| Ion | Ratio   | Lower | Upper  |
| 178 | 100     |       |        |
| 179 | 18.3    | 12.2  | 18.2#  |
| 176 | 21.1    | 15.4  | 23.2   |

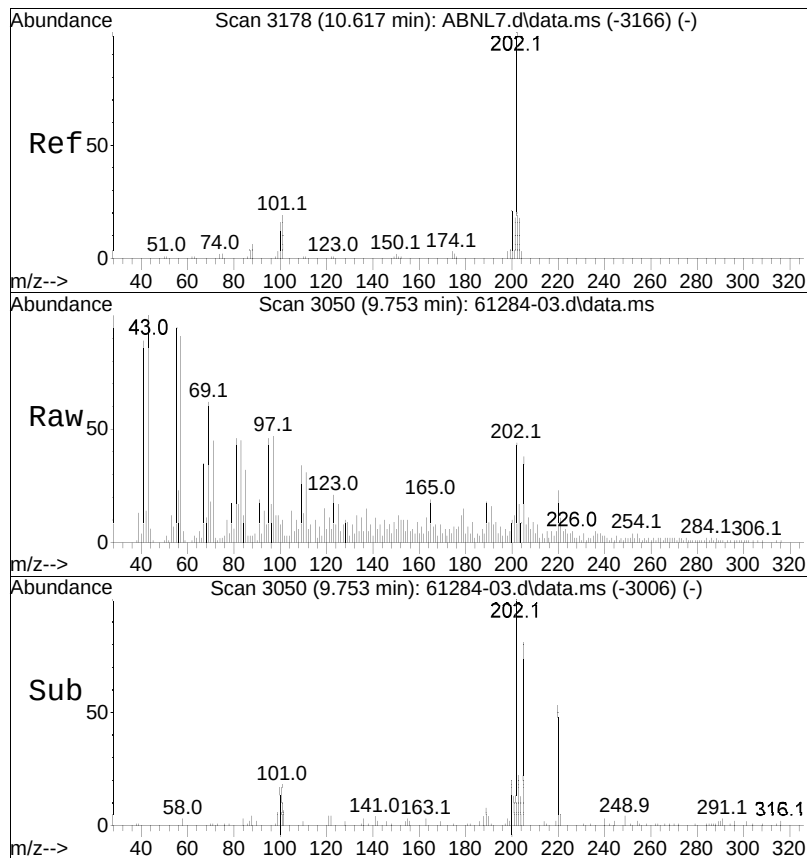




#90  
 Anthracene  
 Concen: 1.31 ug/ml  
 RT: 8.466 min Scan# 2597  
 Delta R.T. 0.009 min  
 Lab File: 61284-03.d  
 Acq: 26 Dec 2019 5:59 pm

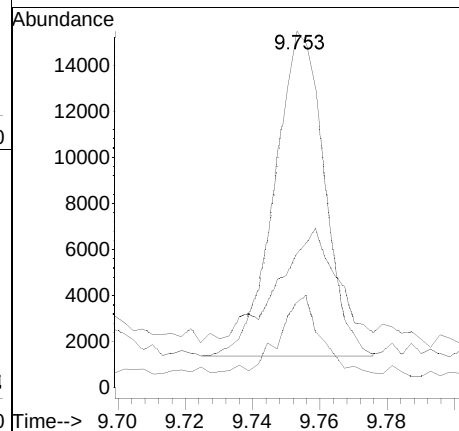
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 157.5 | 12.1  | 18.1# |
| 176     | 22.8  | 14.8  | 22.2# |





#95  
 Pyrene  
 Concen: 1.02 ug/ml  
 RT: 9.753 min Scan# 3050  
 Delta R.T. 0.000 min  
 Lab File: 61284-03.d  
 Acq: 26 Dec 2019 5:59 pm

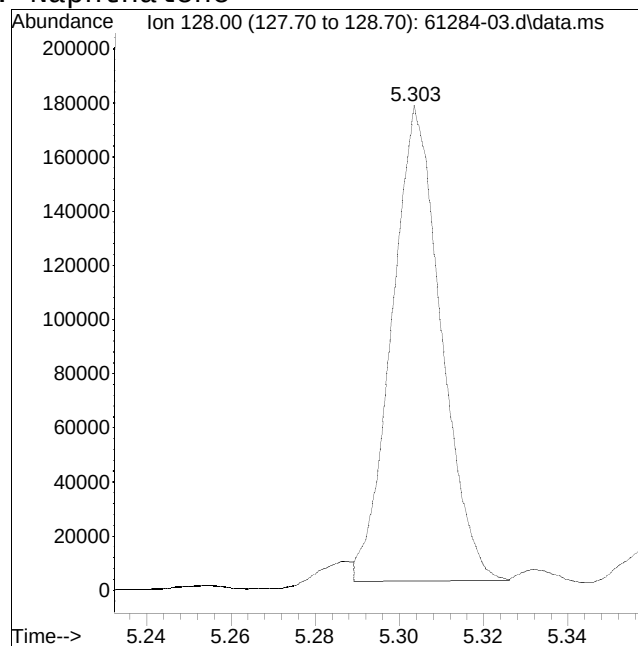
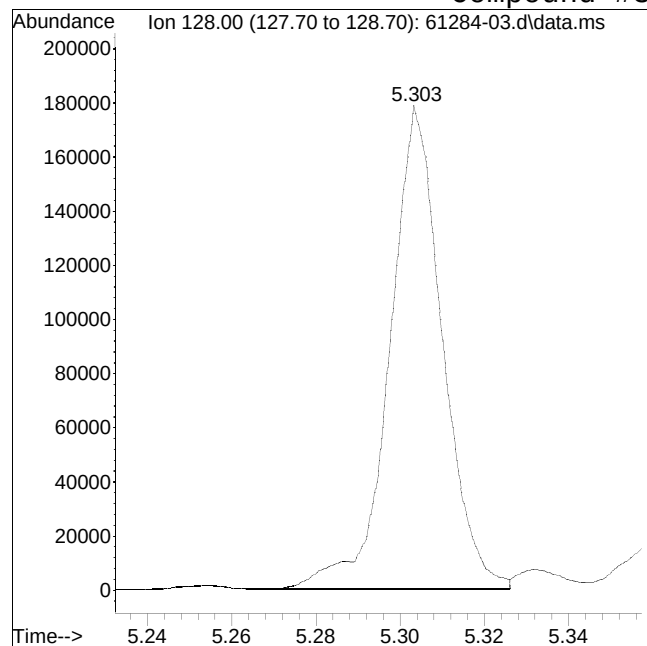
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 202 | 100  |       |       |       |
| 200 | 20.3 | 17.0  | 25.4  |       |
| 203 | 38.7 | 14.2  | 21.2  |       |



# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : 61284-03.d Operator : SV103:ek  
Date Inj'd : 12/26/2019 5:59 pm Instrument : SV103  
Sample : l1961284-03d,32,10,nytc1,rQuant Date : 12/27/2019 3:32 pm

## Compound #36: Naphthalene



Original Peak Response = 155775

Manual Peak Response = 142419 M3

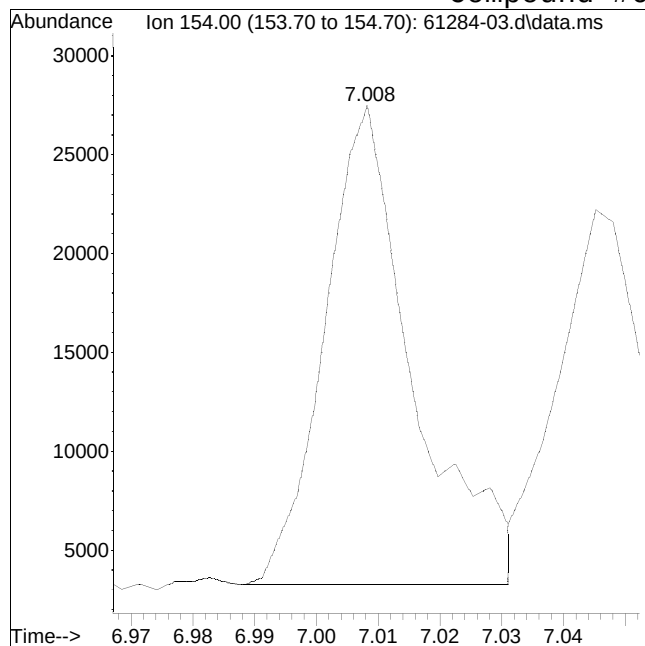
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



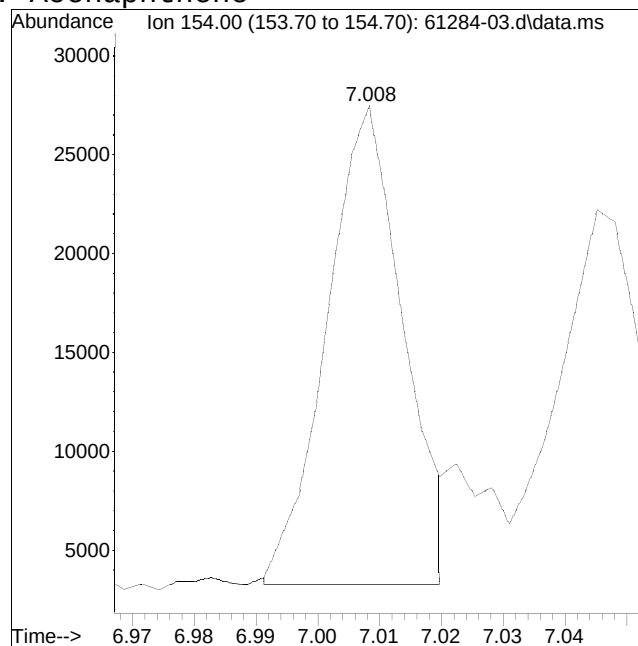
# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : 61284-03.d Operator : SV103:ek  
Date Inj'd : 12/26/2019 5:59 pm Instrument : SV103  
Sample : l1961284-03d,32,10,nytc1,rQuant Date : 12/27/2019 3:32 pm

## Compound #65: Acenaphthene



Original Peak Response = 24251



Manual Peak Response = 20960 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 61284-03.d\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.797       | 948           | 954         | 964          | rBV4     | 108339         | 145085        | 1.36%           | 0.091%        |
| 2         | 3.940       | 997           | 1004        | 1011         | rVB      | 1090927        | 934079        | 8.78%           | 0.585%        |
| 3         | 4.033       | 1031          | 1037        | 1045         | rVB      | 708523         | 580249        | 5.45%           | 0.363%        |
| 4         | 4.101       | 1053          | 1061        | 1063         | rBV3     | 168290         | 179397        | 1.69%           | 0.112%        |
| 5         | 4.119       | 1063          | 1067        | 1072         | rVB      | 445176         | 361170        | 3.40%           | 0.226%        |
| 6         | 4.207       | 1093          | 1098        | 1101         | rBV      | 202932         | 177303        | 1.67%           | 0.111%        |
| 7         | 4.298       | 1125          | 1130        | 1134         | rBV      | 170405         | 160907        | 1.51%           | 0.101%        |
| 8         | 4.343       | 1141          | 1146        | 1156         | rBV3     | 255160         | 261836        | 2.46%           | 0.164%        |
| 9         | 4.391       | 1156          | 1163        | 1166         | rBV4     | 535026         | 494331        | 4.65%           | 0.310%        |
| 10        | 4.417       | 1167          | 1172        | 1178         | rVB4     | 426774         | 462739        | 4.35%           | 0.290%        |
| 11        | 4.454       | 1179          | 1185        | 1195         | rVB      | 723611         | 805042        | 7.57%           | 0.504%        |
| 12        | 4.496       | 1195          | 1200        | 1209         | rBV2     | 559368         | 556033        | 5.23%           | 0.348%        |
| 13        | 4.553       | 1209          | 1220        | 1231         | rBV5     | 575984         | 1011622       | 9.51%           | 0.634%        |
| 14        | 4.604       | 1231          | 1238        | 1243         | rBV3     | 471792         | 488511        | 4.59%           | 0.306%        |
| 15        | 4.630       | 1243          | 1247        | 1250         | rBV4     | 230035         | 191394        | 1.80%           | 0.120%        |
| 16        | 4.690       | 1263          | 1268        | 1271         | rBV2     | 339190         | 294135        | 2.76%           | 0.184%        |
| 17        | 4.715       | 1271          | 1277        | 1283         | rVB      | 6290143        | 5103555       | 47.97%          | 3.196%        |
| 18        | 4.829       | 1310          | 1317        | 1322         | rVB3     | 1392564        | 1243722       | 11.69%          | 0.779%        |
| 19        | 4.854       | 1322          | 1326        | 1330         | rBV      | 695820         | 498934        | 4.69%           | 0.312%        |
| 20        | 4.897       | 1336          | 1341        | 1347         | rBV      | 744491         | 712551        | 6.70%           | 0.446%        |
| 21        | 4.937       | 1347          | 1355        | 1361         | rVV2     | 1261102        | 1239868       | 11.65%          | 0.777%        |
| 22        | 4.965       | 1362          | 1365        | 1369         | rVB      | 437485         | 297866        | 2.80%           | 0.187%        |
| 23        | 4.988       | 1369          | 1373        | 1381         | rBV4     | 706203         | 718813        | 6.76%           | 0.450%        |
| 24        | 5.051       | 1389          | 1395        | 1397         | rBV2     | 406804         | 401639        | 3.78%           | 0.252%        |
| 25        | 5.070       | 1397          | 1402        | 1413         | rVV5     | 1491246        | 2361412       | 22.20%          | 1.479%        |
| 26        | 5.116       | 1413          | 1418        | 1424         | rVV3     | 1196411        | 1130761       | 10.63%          | 0.708%        |
| 27        | 5.150       | 1425          | 1430        | 1440         | rVV3     | 1475859        | 1682837       | 15.82%          | 1.054%        |
| 28        | 5.190       | 1440          | 1444        | 1448         | rVV      | 1018091        | 782721        | 7.36%           | 0.490%        |

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |          |          |         |        |
|----|-------|------|------|------|------|----------|----------|---------|--------|
| 29 | 5.212 | 1448 | 1452 | 1460 | rVB3 | 772554   | 728123   | 6.84%   | 0.456% |
| 30 | 5.284 | 1467 | 1477 | 1481 | rBV2 | 1961541  | 2170226  | 20.40%  | 1.359% |
| 31 | 5.306 | 1481 | 1485 | 1491 | rVB4 | 1568838  | 1443640  | 13.57%  | 0.904% |
| 32 | 5.383 | 1500 | 1512 | 1517 | rBV  | 7494741  | 6862432  | 64.51%  | 4.298% |
| 33 | 5.431 | 1525 | 1529 | 1532 | rBV2 | 342652   | 251561   | 2.36%   | 0.158% |
| 34 | 5.457 | 1533 | 1538 | 1543 | rVB  | 3225574  | 2572633  | 24.18%  | 1.611% |
| 35 | 5.485 | 1543 | 1548 | 1551 | rBV4 | 482757   | 405024   | 3.81%   | 0.254% |
| 36 | 5.528 | 1558 | 1563 | 1568 | rBV3 | 1346317  | 1093972  | 10.28%  | 0.685% |
| 37 | 5.588 | 1580 | 1584 | 1588 | rBV2 | 847535   | 605367   | 5.69%   | 0.379% |
| 38 | 5.622 | 1593 | 1596 | 1598 | rVV2 | 363147   | 263506   | 2.48%   | 0.165% |
| 39 | 5.639 | 1598 | 1602 | 1611 | rVB5 | 1098567  | 1296166  | 12.18%  | 0.812% |
| 40 | 5.696 | 1616 | 1622 | 1632 | rVV5 | 1546759  | 2072788  | 19.48%  | 1.298% |
| 41 | 5.735 | 1632 | 1636 | 1641 | rVV5 | 759267   | 744670   | 7.00%   | 0.466% |
| 42 | 5.767 | 1642 | 1647 | 1656 | rVV6 | 2065180  | 2718485  | 25.55%  | 1.703% |
| 43 | 5.812 | 1656 | 1663 | 1671 | rVB2 | 3291477  | 3421182  | 32.16%  | 2.143% |
| 44 | 5.860 | 1677 | 1680 | 1686 | rVB4 | 1519673  | 1292517  | 12.15%  | 0.810% |
| 45 | 5.920 | 1696 | 1701 | 1704 | rBV3 | 1213718  | 1080907  | 10.16%  | 0.677% |
| 46 | 5.982 | 1716 | 1723 | 1733 | rVB2 | 11361483 | 10638100 | 100.00% | 6.663% |
| 47 | 6.073 | 1750 | 1755 | 1759 | rVB2 | 1708704  | 1419043  | 13.34%  | 0.889% |
| 48 | 6.096 | 1760 | 1763 | 1765 | rBV2 | 691155   | 419869   | 3.95%   | 0.263% |
| 49 | 6.167 | 1785 | 1788 | 1793 | rBV3 | 556341   | 401871   | 3.78%   | 0.252% |
| 50 | 6.244 | 1807 | 1815 | 1816 | rBV2 | 1478742  | 1471373  | 13.83%  | 0.922% |
| 51 | 6.298 | 1831 | 1834 | 1838 | rVB3 | 1003809  | 671632   | 6.31%   | 0.421% |
| 52 | 6.332 | 1840 | 1846 | 1852 | rVV3 | 2488891  | 2440990  | 22.95%  | 1.529% |
| 53 | 6.366 | 1855 | 1858 | 1863 | rVB2 | 1095099  | 866959   | 8.15%   | 0.543% |
| 54 | 6.395 | 1863 | 1868 | 1874 | rBV  | 3798083  | 2916546  | 27.42%  | 1.827% |
| 55 | 6.463 | 1884 | 1892 | 1898 | rBV6 | 949989   | 1410054  | 13.25%  | 0.883% |
| 56 | 6.531 | 1910 | 1916 | 1925 | rVB2 | 11431546 | 10155547 | 95.46%  | 6.361% |
| 57 | 6.599 | 1935 | 1940 | 1948 | rVB2 | 2911751  | 3240940  | 30.47%  | 2.030% |
| 58 | 6.673 | 1959 | 1966 | 1970 | rBV  | 3672938  | 3529177  | 33.17%  | 2.210% |
| 59 | 6.696 | 1970 | 1974 | 1977 | rVV  | 1791008  | 1215987  | 11.43%  | 0.762% |
| 60 | 6.775 | 1998 | 2002 | 2006 | rBV3 | 1678254  | 1551892  | 14.59%  | 0.972% |

# LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |        |      |      |      |      |          |         |        |        |
|----|--------|------|------|------|------|----------|---------|--------|--------|
| 61 | 6.795  | 2006 | 2009 | 2015 | rVB  | 2277790  | 1622421 | 15.25% | 1.016% |
| 62 | 6.838  | 2017 | 2024 | 2027 | rBV  | 3615984  | 3154918 | 29.66% | 1.976% |
| 63 | 6.855  | 2028 | 2030 | 2038 | rVB3 | 2581594  | 1847996 | 17.37% | 1.157% |
| 64 | 6.892  | 2039 | 2043 | 2045 | rBV2 | 1024312  | 781748  | 7.35%  | 0.490% |
| 65 | 6.980  | 2065 | 2074 | 2078 | rBV2 | 1810069  | 2045435 | 19.23% | 1.281% |
| 66 | 7.045  | 2090 | 2097 | 2103 | rVB  | 10789892 | 9333585 | 87.74% | 5.846% |
| 67 | 7.207  | 2150 | 2154 | 2158 | rVB  | 2012117  | 1411579 | 13.27% | 0.884% |
| 68 | 7.241  | 2162 | 2166 | 2170 | rVB  | 1923141  | 1354950 | 12.74% | 0.849% |
| 69 | 7.312  | 2187 | 2191 | 2196 | rVB2 | 2554900  | 2037299 | 19.15% | 1.276% |
| 70 | 7.338  | 2196 | 2200 | 2202 | rBV2 | 1230669  | 956487  | 8.99%  | 0.599% |
| 71 | 7.383  | 2211 | 2216 | 2219 | rBV2 | 1614987  | 1441664 | 13.55% | 0.903% |
| 72 | 7.525  | 2259 | 2266 | 2271 | rVB  | 10019417 | 8038353 | 75.56% | 5.035% |
| 73 | 7.739  | 2333 | 2341 | 2352 | rVB  | 4150133  | 5048611 | 47.46% | 3.162% |
| 74 | 7.983  | 2421 | 2427 | 2431 | rBV  | 8261639  | 8572429 | 80.58% | 5.369% |
| 75 | 8.389  | 2567 | 2570 | 2574 | rBV  | 1043630  | 820140  | 7.71%  | 0.514% |
| 76 | 8.415  | 2574 | 2579 | 2584 | rVV2 | 5981428  | 4823905 | 45.35% | 3.021% |
| 77 | 8.440  | 2584 | 2588 | 2594 | rVB  | 2728500  | 2409666 | 22.65% | 1.509% |
| 78 | 8.827  | 2718 | 2724 | 2730 | rBV  | 3731256  | 3154212 | 29.65% | 1.976% |
| 79 | 9.219  | 2857 | 2862 | 2872 | rVB  | 1991235  | 1703997 | 16.02% | 1.067% |
| 80 | 9.537  | 2969 | 2974 | 2983 | rVB  | 708911   | 647536  | 6.09%  | 0.406% |
| 81 | 9.594  | 2989 | 2994 | 3001 | rBV  | 967208   | 783099  | 7.36%  | 0.490% |
| 82 | 9.958  | 3117 | 3122 | 3129 | rVB2 | 474472   | 411478  | 3.87%  | 0.258% |
| 83 | 10.301 | 3240 | 3243 | 3249 | rVB  | 205538   | 161895  | 1.52%  | 0.101% |
| 84 | 10.992 | 3478 | 3486 | 3500 | rBV2 | 1082984  | 1214442 | 11.42% | 0.761% |
| 85 | 12.850 | 4130 | 4140 | 4151 | rVB  | 860624   | 1235382 | 11.61% | 0.774% |

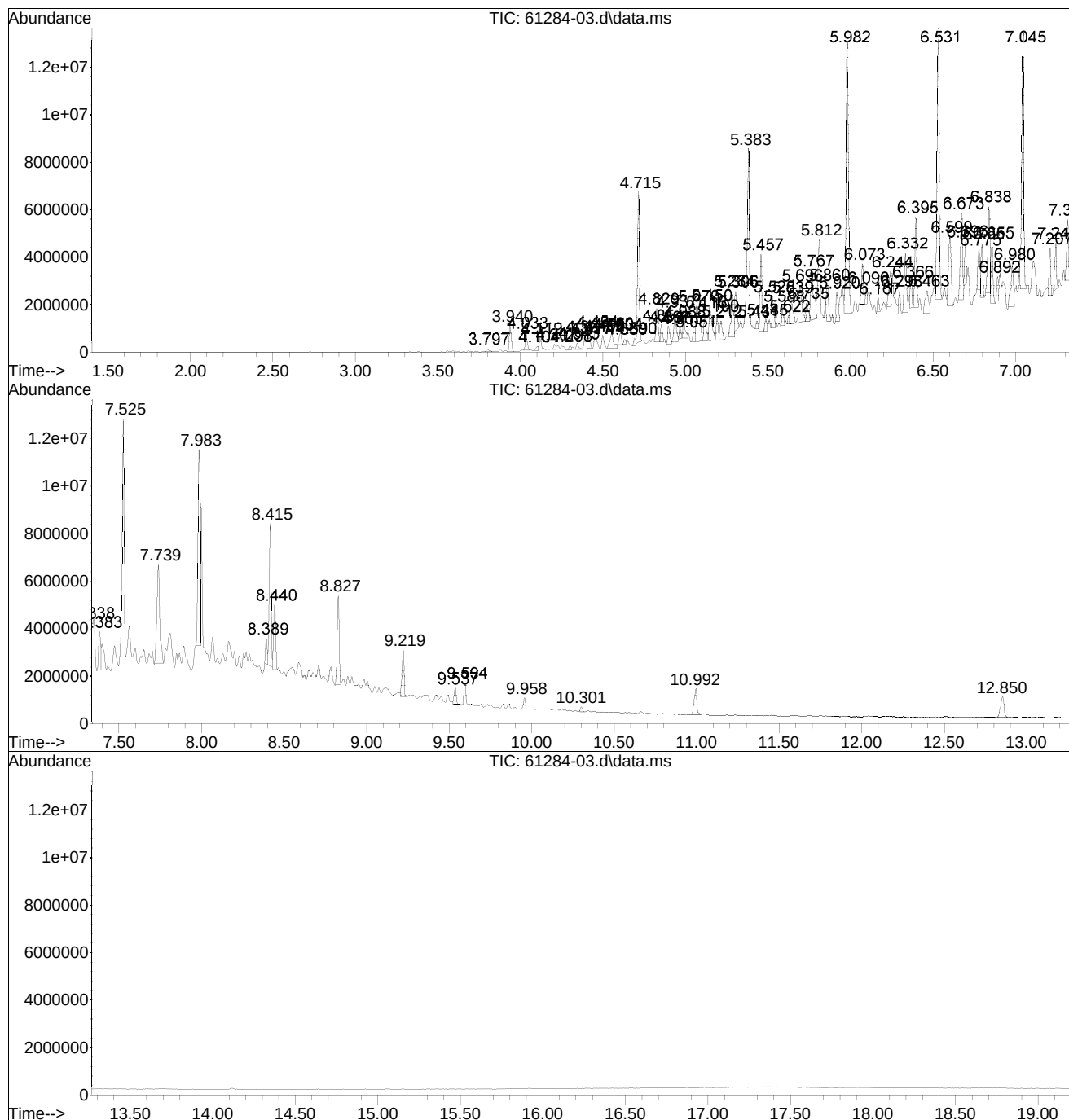
Sum of corrected areas: 159664918

# LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

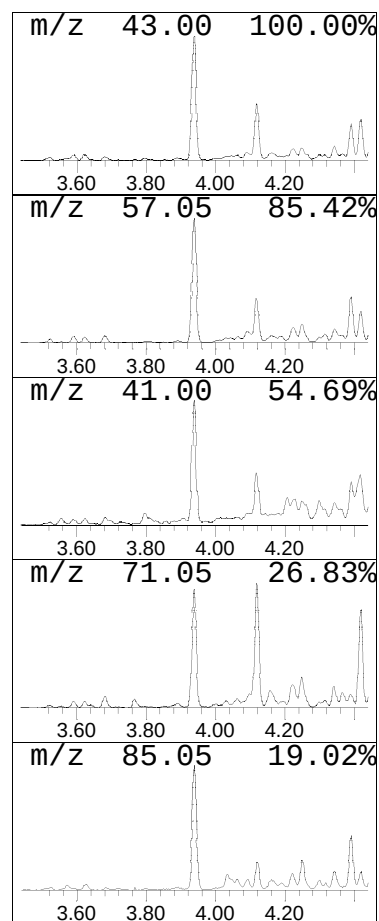
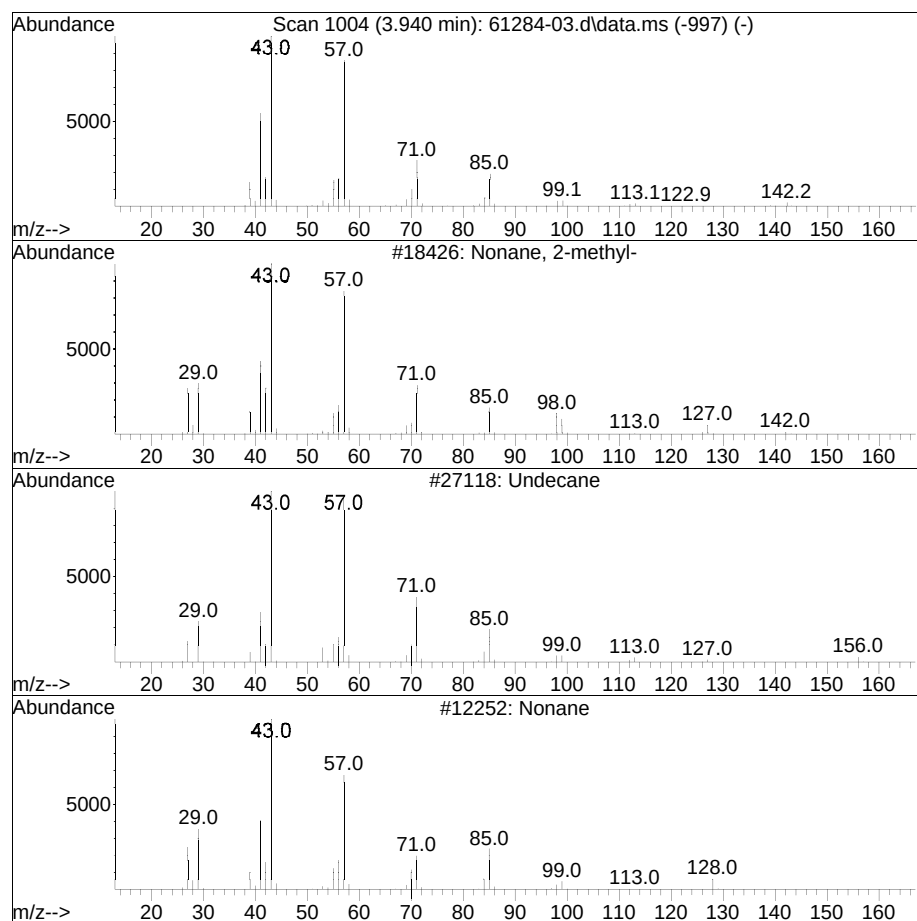
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Unknown Alkane Concentration Rank 9

| R.T.  | EstConc     | Area   | Relative to ISTD           | R.T.  |
|-------|-------------|--------|----------------------------|-------|
| 3.940 | 64.39 ug/ml | 934079 | IS2_1,4-Dichlorobenzene-d4 | 4.033 |

| Hit# of | 5                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------|--------------|-----|---------|-------------|------|
| 1       | Nonane, 2-methyl- |              | 142 | C10H22  | 000871-83-0 | 80   |
| 2       | Undecane          |              | 156 | C11H24  | 001120-21-4 | 59   |
| 3       | Nonane            |              | 128 | C9H20   | 000111-84-2 | 59   |
| 4       | Octane, 4-ethyl-  |              | 142 | C10H22  | 015869-86-0 | 53   |
| 5       | Decane            |              | 142 | C10H22  | 000124-18-5 | 50   |



## Library Search Compound Report

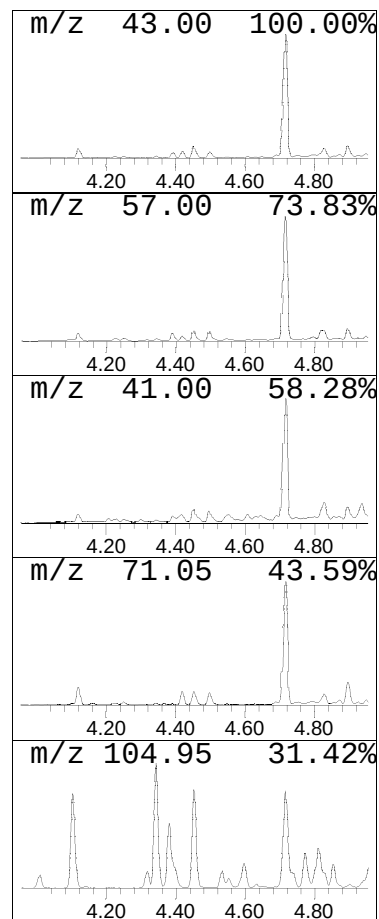
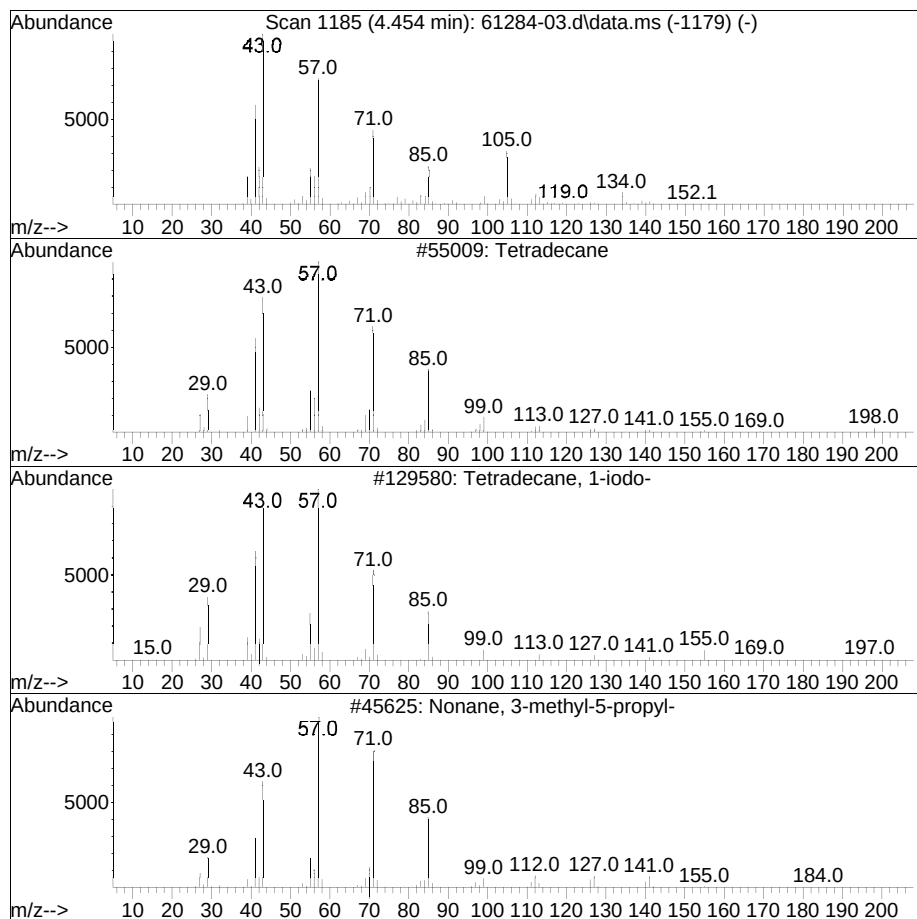
Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Unknown Alkane Concentration Rank 13

| R.T.  | EstConc     | Area                       | Relative to ISTD           |         |             | R.T.  |
|-------|-------------|----------------------------|----------------------------|---------|-------------|-------|
| 4.454 | 55.50 ug/ml | 805042                     | IS3_1,4-Dichlorobenzene-d4 |         |             | 4.033 |
| Hit#  | of 5        | Tentative ID               | MW                         | MolForm | CAS#        | Qual  |
| 1     |             | Tetradecane                | 198                        | C14H30  | 000629-59-4 | 53    |
| 2     |             | Tetradecane, 1-iodo-       | 324                        | C14H29I | 019218-94-1 | 52    |
| 3     |             | Nonane, 3-methyl-5-propyl- | 184                        | C13H28  | 031081-18-2 | 50    |
| 4     |             | Hexatriacontane            | 507                        | C36H74  | 000630-06-8 | 50    |
| 5     |             | Decane, 2,3,5-trimethyl-   | 184                        | C13H28  | 062238-11-3 | 47    |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

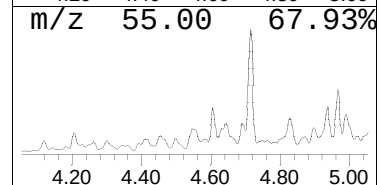
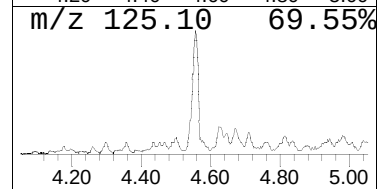
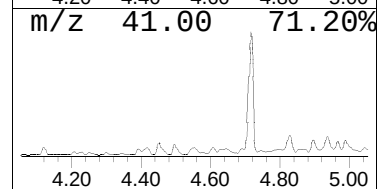
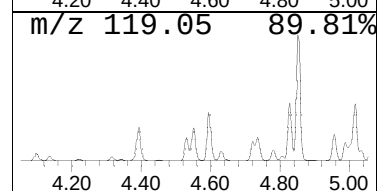
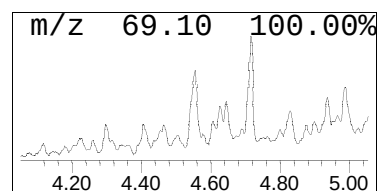
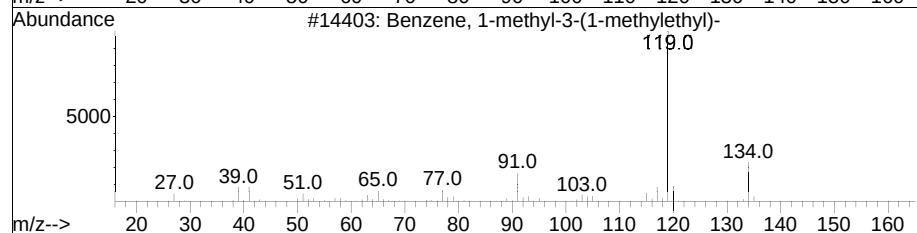
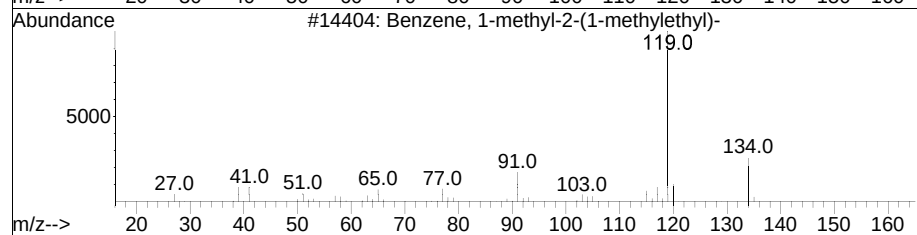
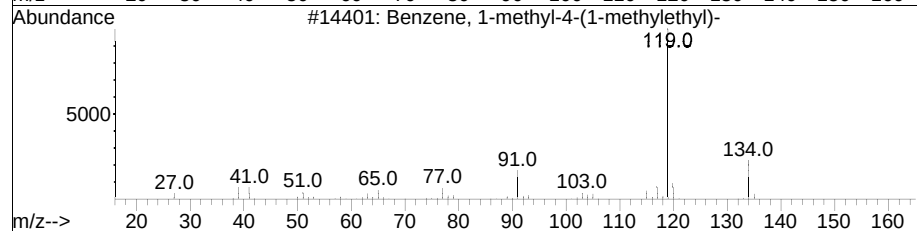
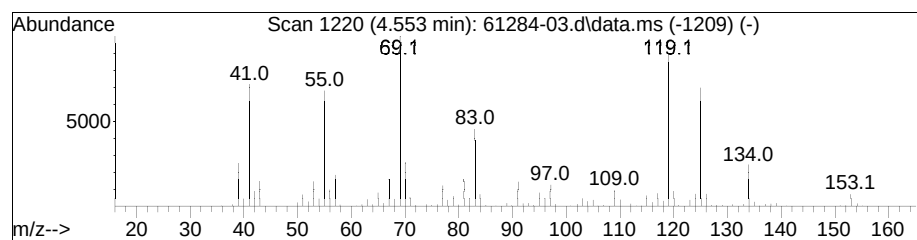
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Unknown Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD           | R.T.  |
|-------|-------------|---------|----------------------------|-------|
| 4.553 | 69.74 ug/ml | 1011620 | IS3_1,4-Dichlorobenzene-d4 | 4.033 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14  | 000099-87-6 | 64   |
| 2       |   | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14  | 000527-84-4 | 64   |
| 3       |   | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 60   |
| 4       |   | Cyclohexane, 1,1'-(1-methylethyl... | 208 | C15H28  | 054934-90-6 | 43   |
| 5       |   | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 35   |





## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

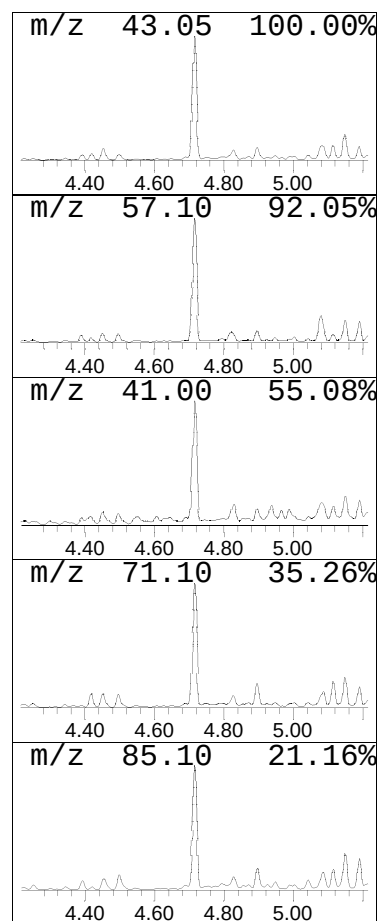
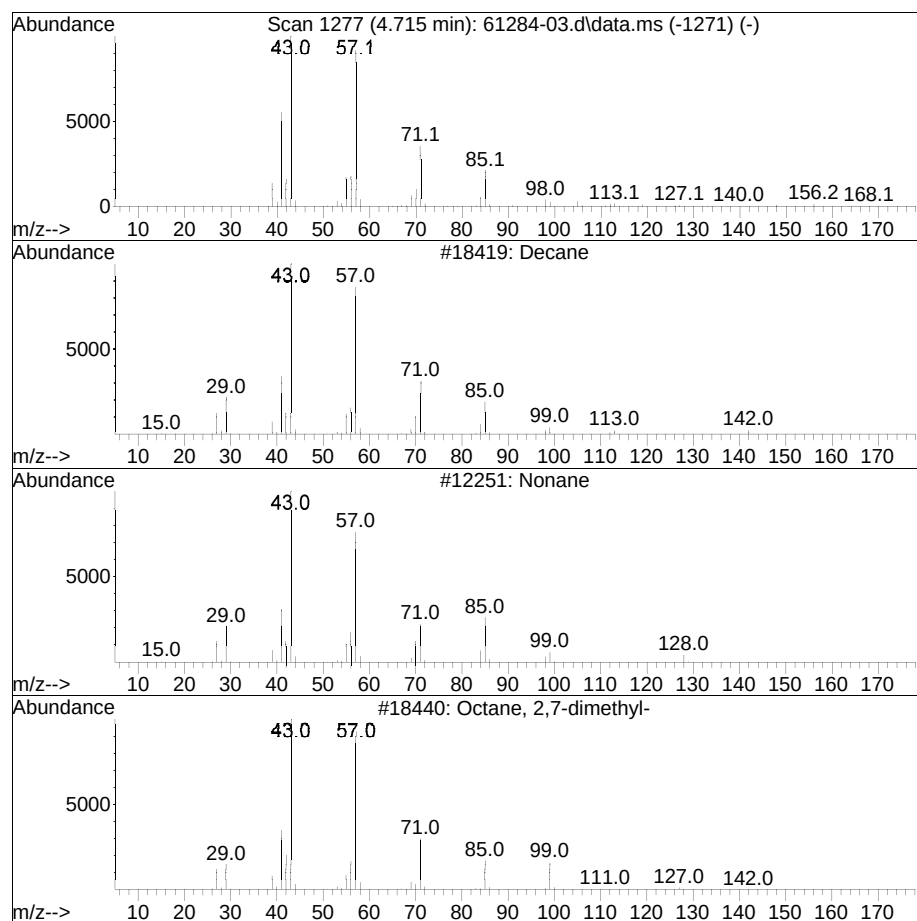
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Unknown Alkane Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 4.715 | 94.06 ug/ml | 5103560 | IS1_Naphthalene-d8 | 5.284 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Decane                |              | 142 | C10H22  | 000124-18-5 | 83   |
| 2       | Nonane                |              | 128 | C9H20   | 000111-84-2 | 78   |
| 3       | Octane, 2,7-dimethyl- |              | 142 | C10H22  | 001072-16-8 | 59   |
| 4       | Decane, 5-methyl-     |              | 156 | C11H24  | 013151-35-4 | 58   |
| 5       | Octane                |              | 114 | C8H18   | 000111-65-9 | 53   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

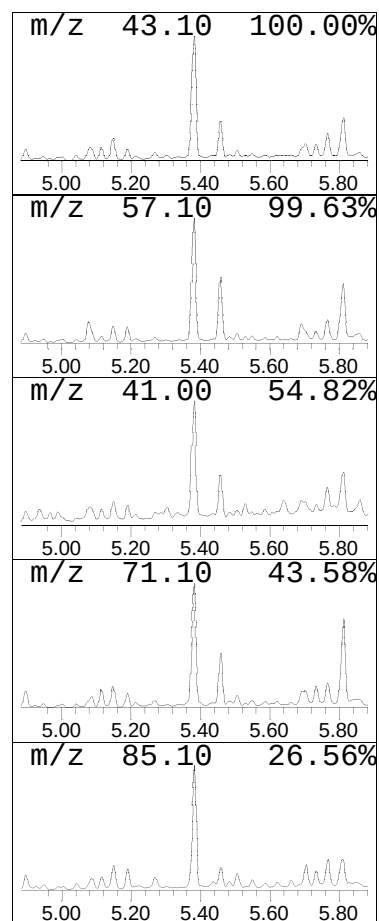
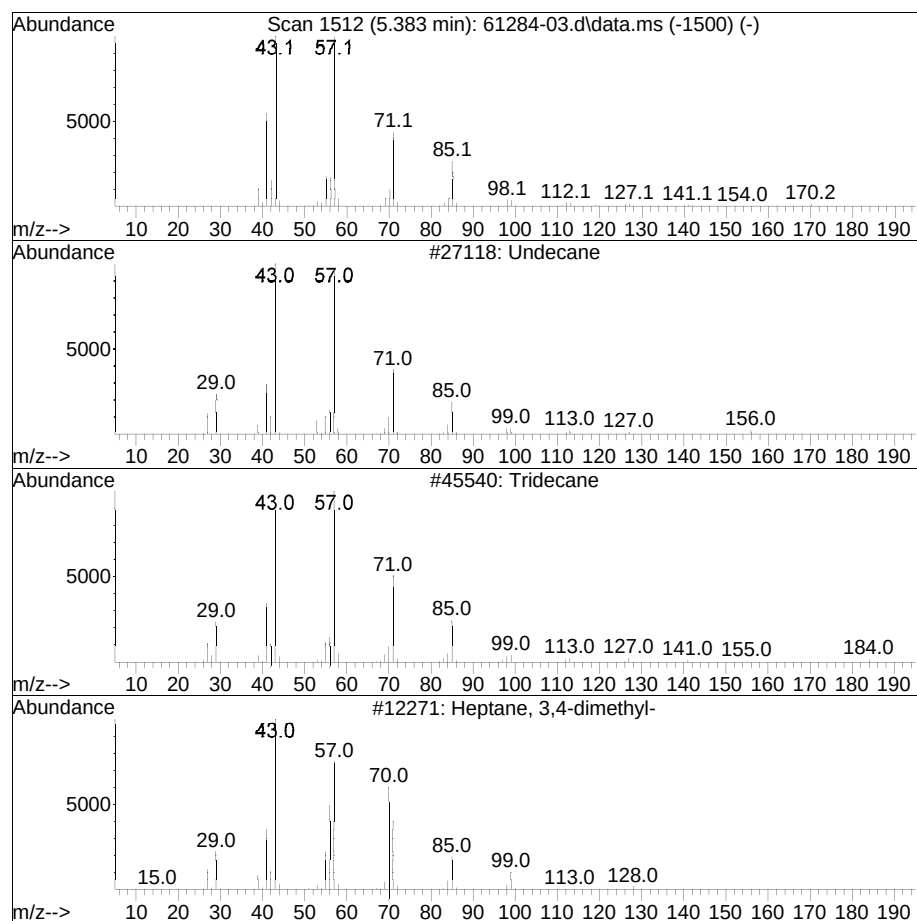
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Unknown Alkane Concentration Rank 4

| R.T.  | EstConc      | Area    | Relative to ISTD   | R.T.  |
|-------|--------------|---------|--------------------|-------|
| 5.383 | 126.48 ug/ml | 6862430 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane               |              | 156 | C11H24  | 001120-21-4 | 83   |
| 2       | Tridecane              |              | 184 | C13H28  | 000629-50-5 | 78   |
| 3       | Heptane, 3,4-dimethyl- |              | 128 | C9H20   | 000922-28-1 | 72   |
| 4       | Dodecane, 2-methyl-    |              | 184 | C13H28  | 001560-97-0 | 72   |
| 5       | Undecane, 2-methyl-    |              | 170 | C12H26  | 007045-71-8 | 72   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

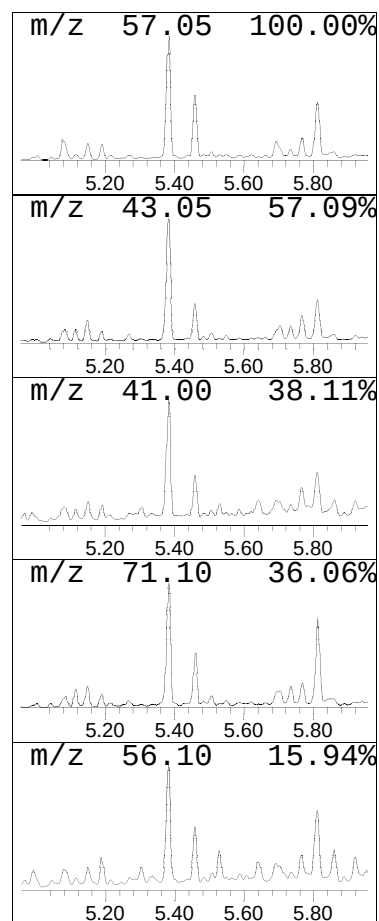
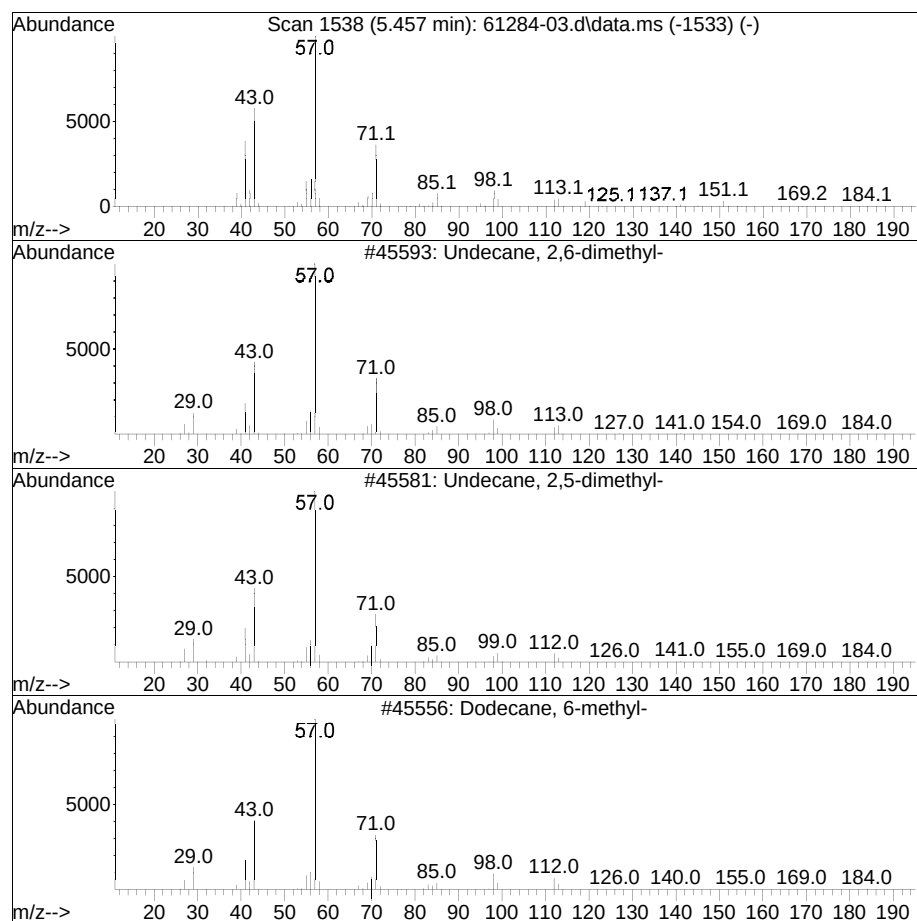
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Unknown Alkane Concentration Rank 15

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.457 | 47.42 ug/ml | 2572630 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                       | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------|--------------|--------|-------------|------|------|
| 1       | Undecane, 2,6-dimethyl- | 184          | C13H28 | 017301-23-4 | 87   |      |
| 2       | Undecane, 2,5-dimethyl- | 184          | C13H28 | 017301-22-3 | 64   |      |
| 3       | Dodecane, 6-methyl-     | 184          | C13H28 | 006044-71-9 | 64   |      |
| 4       | Hexadecane              | 226          | C16H34 | 000544-76-3 | 50   |      |
| 5       | Undecane, 5,5-dimethyl- | 184          | C13H28 | 017312-73-1 | 50   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

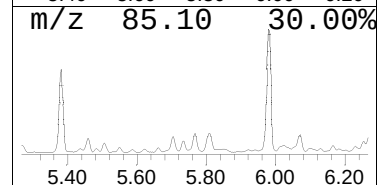
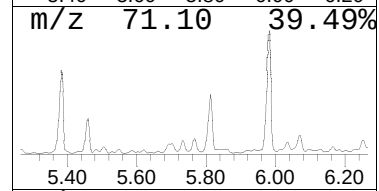
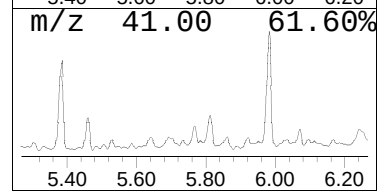
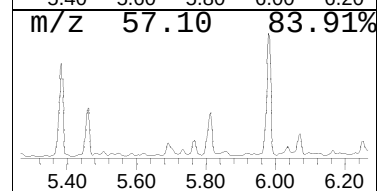
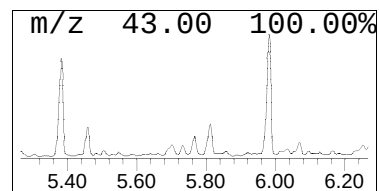
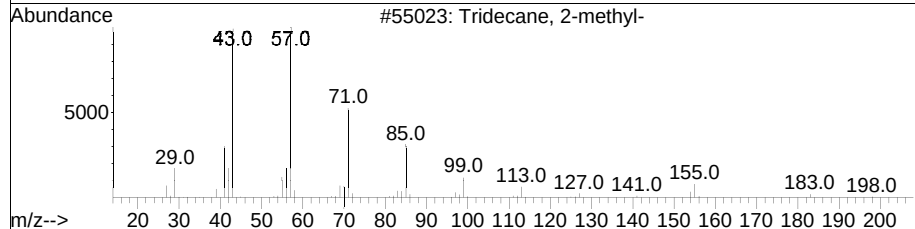
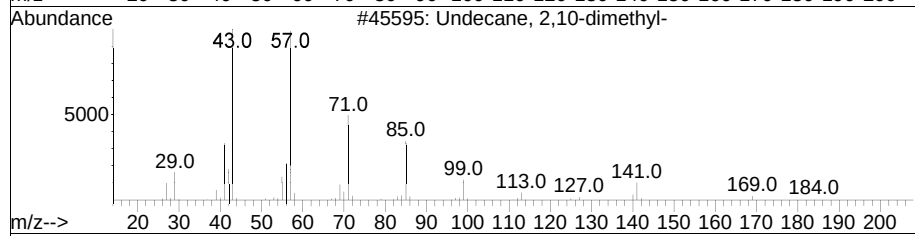
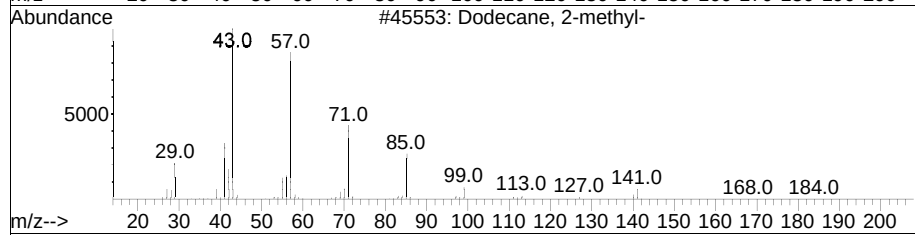
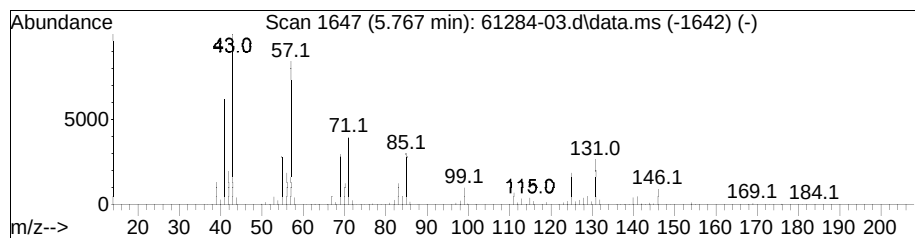
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Unknown Alkane Concentration Rank 14

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.767 | 50.11 ug/ml | 2718490 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                        | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|--------------------------|--------------|--------|-------------|------|------|
| 1       | Dodecane, 2-methyl-      | 184          | C13H28 | 001560-97-0 | 59   |      |
| 2       | Undecane, 2,10-dimethyl- | 184          | C13H28 | 017301-27-8 | 59   |      |
| 3       | Tridecane, 2-methyl-     | 198          | C14H30 | 001560-96-9 | 50   |      |
| 4       | Heptane, 3,4-dimethyl-   | 128          | C9H20  | 000922-28-1 | 50   |      |
| 5       | Undecane                 | 156          | C11H24 | 001120-21-4 | 50   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

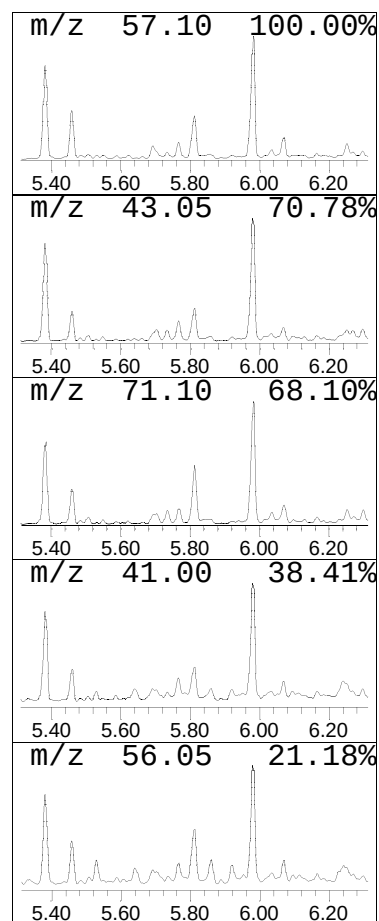
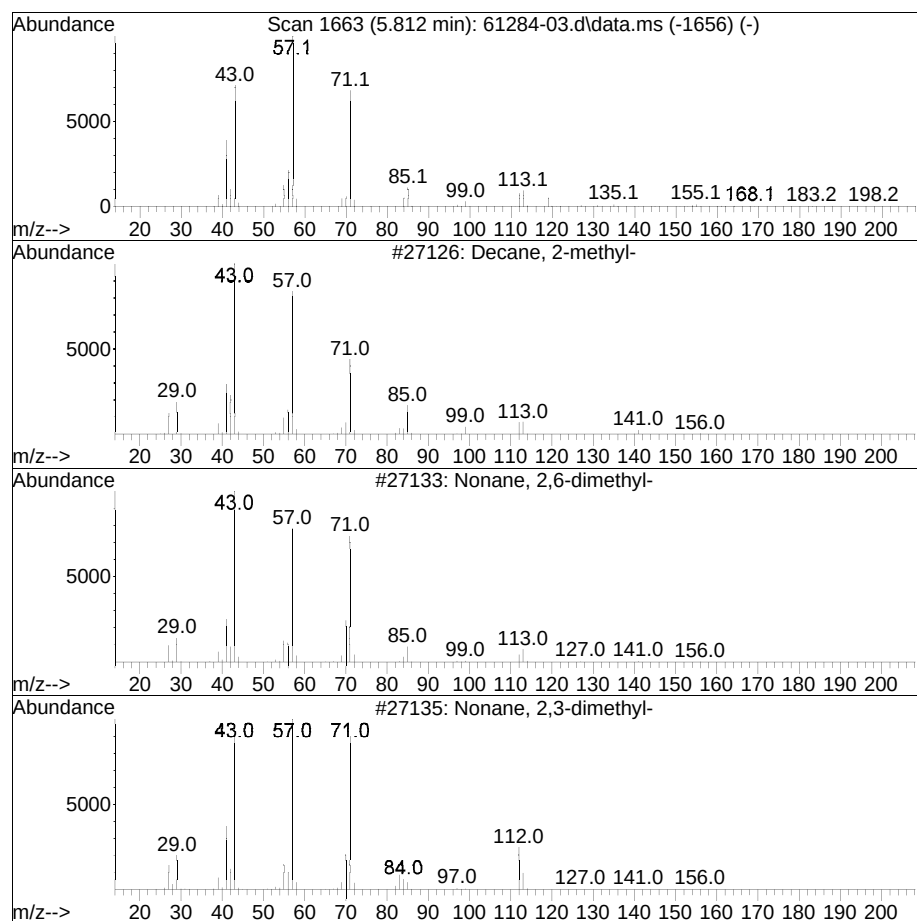
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Unknown Concentration Rank 11

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.812 | 63.06 ug/ml | 3421180 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                         | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|---------------------------|--------------|-----|---------|-------------|------|
| 1       | Decane, 2-methyl-         |              | 156 | C11H24  | 006975-98-0 | 64   |
| 2       | Nonane, 2,6-dimethyl-     |              | 156 | C11H24  | 017302-28-2 | 58   |
| 3       | Nonane, 2,3-dimethyl-     |              | 156 | C11H24  | 002884-06-2 | 53   |
| 4       | Nonane, 3-methyl-         |              | 142 | C10H22  | 005911-04-6 | 53   |
| 5       | 3-Hexanone, 2,2-dimethyl- |              | 128 | C8H16O  | 005405-79-8 | 50   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

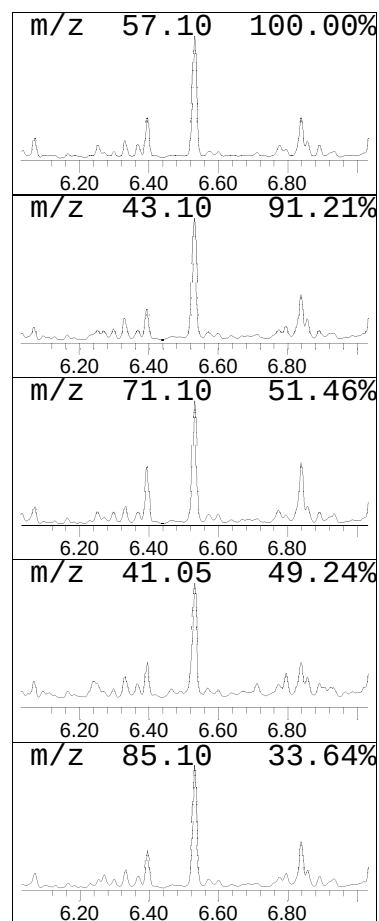
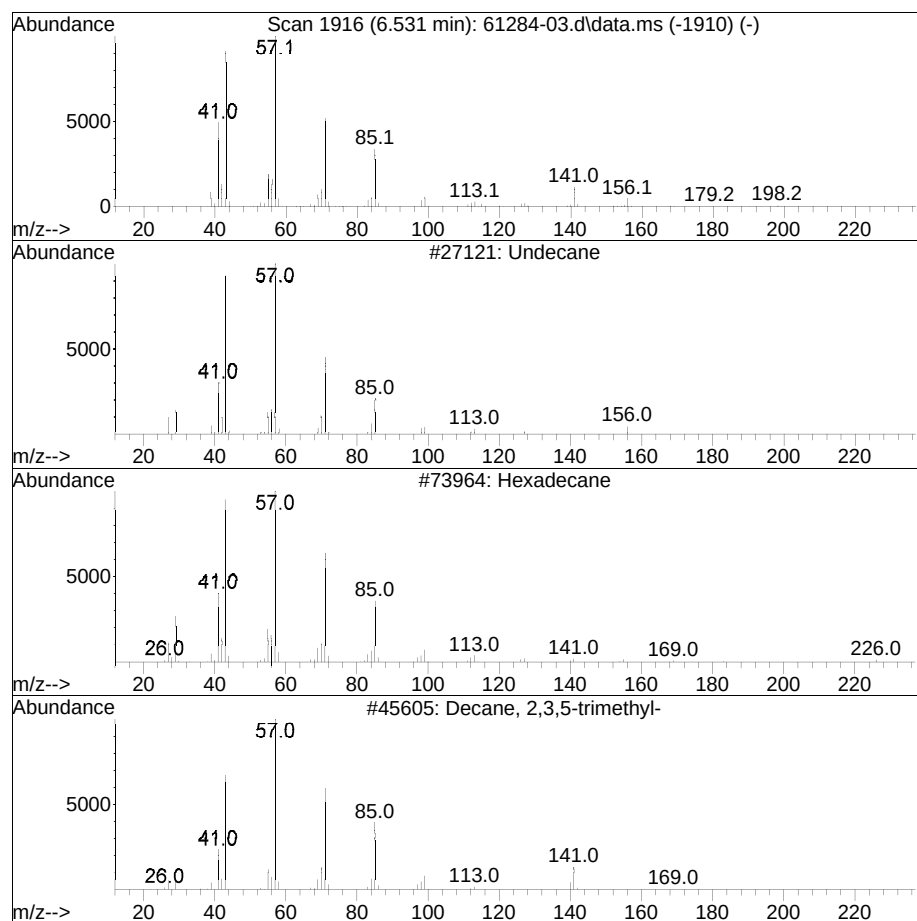
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Unknown Alkane Concentration Rank 2

| R.T.  | EstConc      | Area     | Relative to ISTD     | R.T.  |
|-------|--------------|----------|----------------------|-------|
| 6.531 | 198.60 ug/ml | 10155500 | IS1_Acenaphthene-d10 | 6.980 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane                 |              | 156 | C11H24  | 001120-21-4 | 93   |
| 2       | Hexadecane               |              | 226 | C16H34  | 000544-76-3 | 87   |
| 3       | Decane, 2,3,5-trimethyl- |              | 184 | C13H28  | 062238-11-3 | 72   |
| 4       | Tridecane                |              | 184 | C13H28  | 000629-50-5 | 72   |
| 5       | Tridecane, 6-methyl-     |              | 198 | C14H30  | 013287-21-3 | 68   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

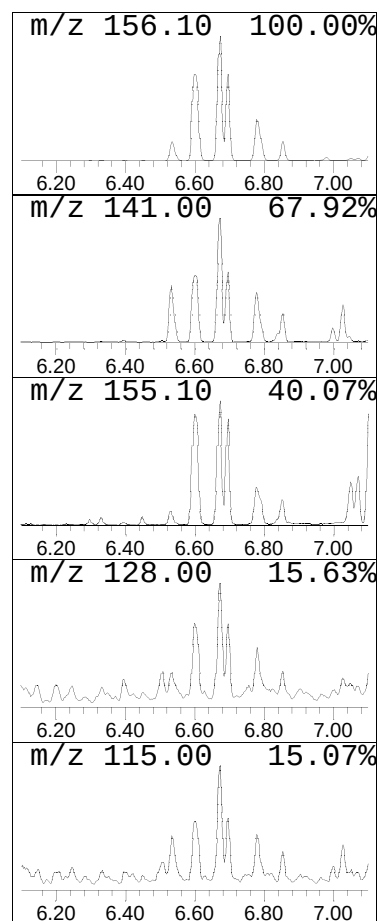
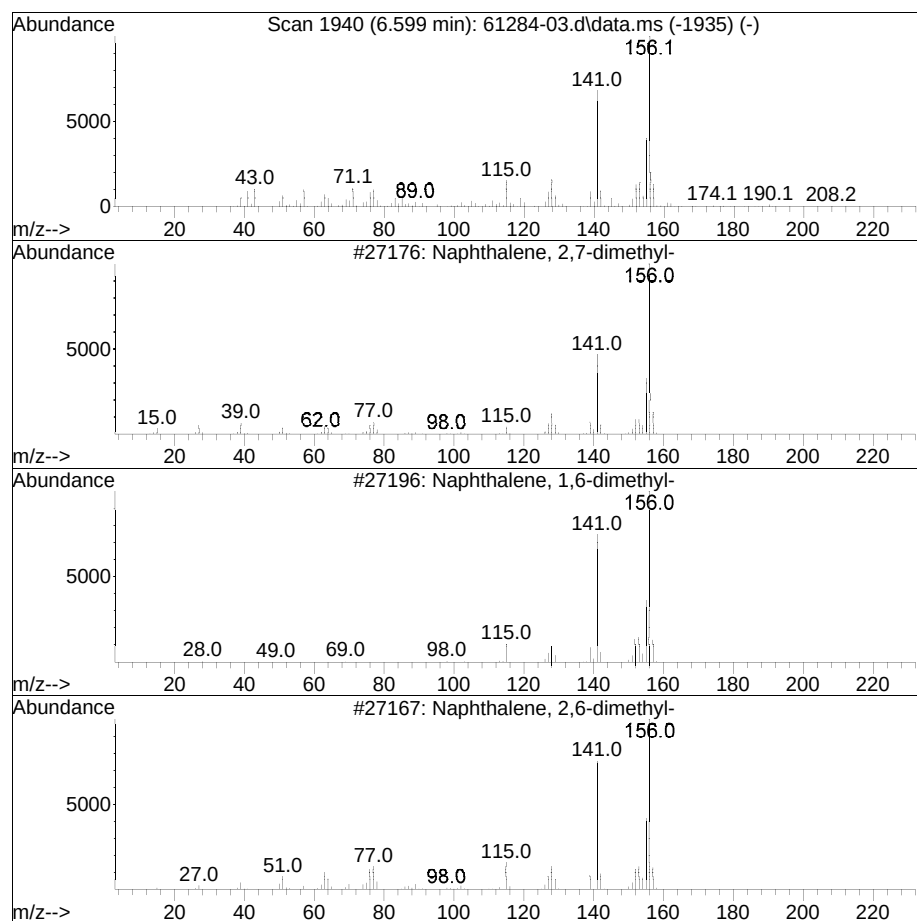
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Unknown Naphthalene Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.599 | 63.38 ug/ml | 3240940 | IS1_Acenaphthene-d10 | 6.980 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 2,7-dimethyl- | 156          | C12H12 | 000582-16-1 | 97   |      |
| 2       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 96   |      |
| 3       | Naphthalene, 2,6-dimethyl- | 156          | C12H12 | 000581-42-0 | 96   |      |
| 4       | Naphthalene, 1,7-dimethyl- | 156          | C12H12 | 000575-37-1 | 96   |      |
| 5       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 95   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

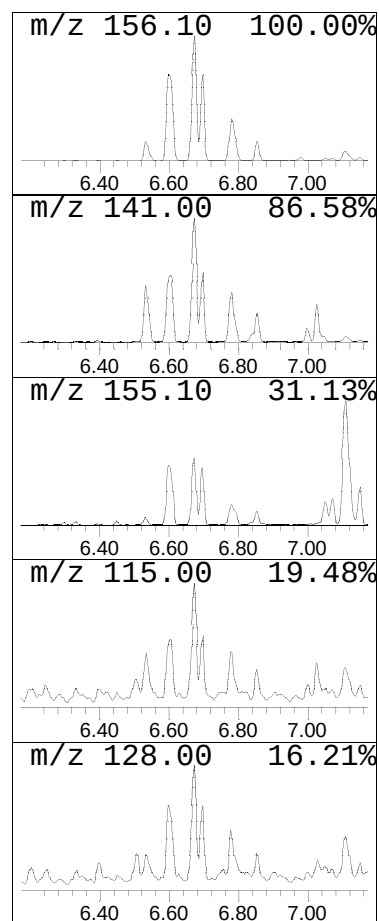
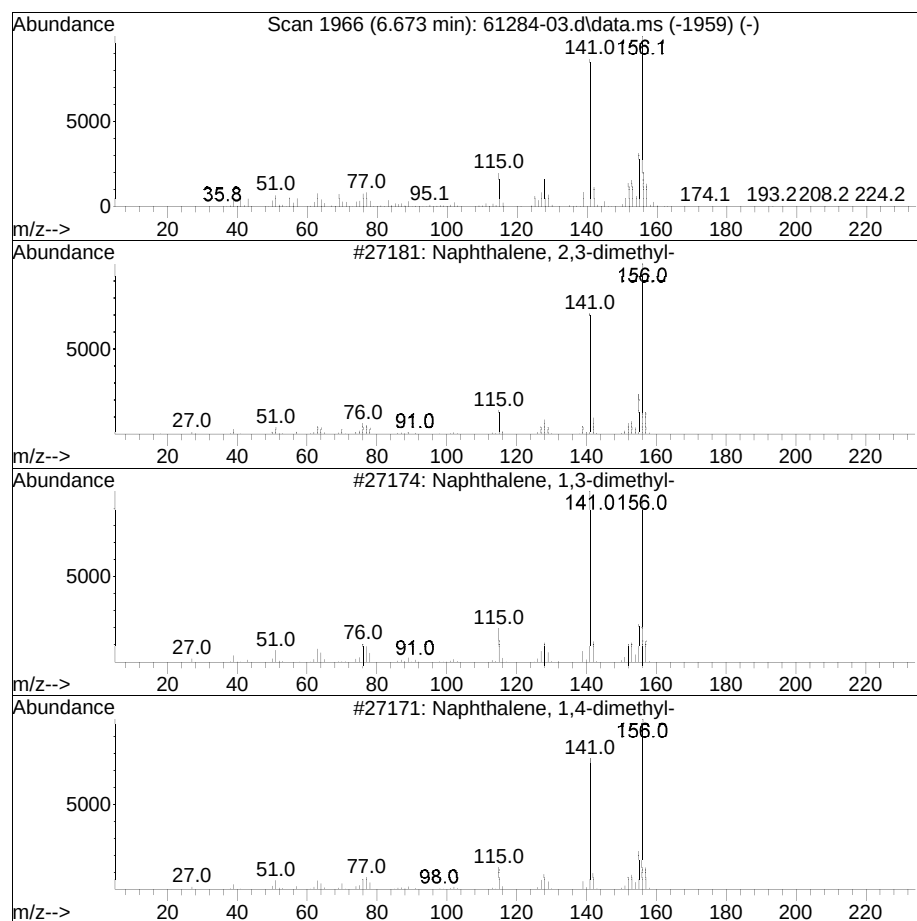
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Unknown Naphthalene Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.673 | 69.02 ug/ml | 3529180 | IS1_Acenaphthene-d10 | 6.980 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 96   |      |
| 2       | Naphthalene, 1,3-dimethyl- | 156          | C12H12 | 000575-41-7 | 96   |      |
| 3       | Naphthalene, 1,4-dimethyl- | 156          | C12H12 | 000571-58-4 | 96   |      |
| 4       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 96   |      |
| 5       | Naphthalene, 2,7-dimethyl- | 156          | C12H12 | 000582-16-1 | 93   |      |





## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

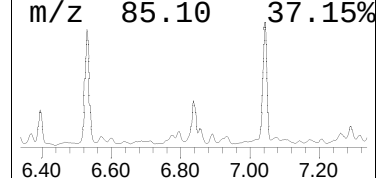
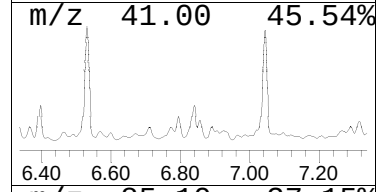
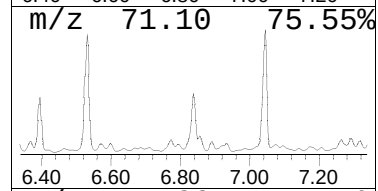
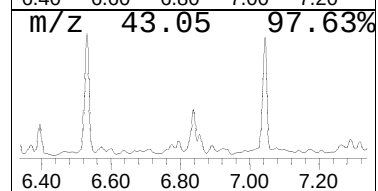
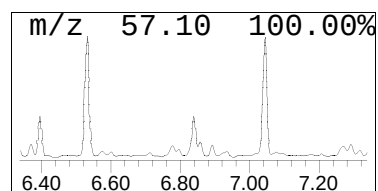
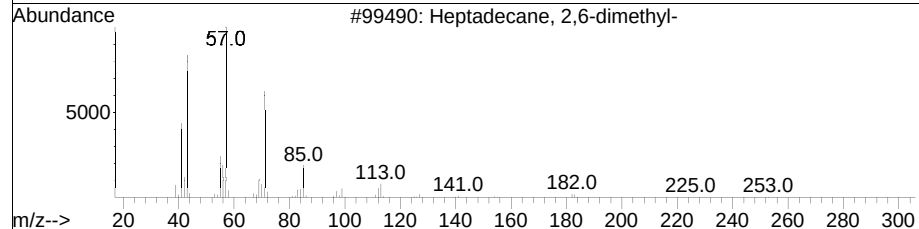
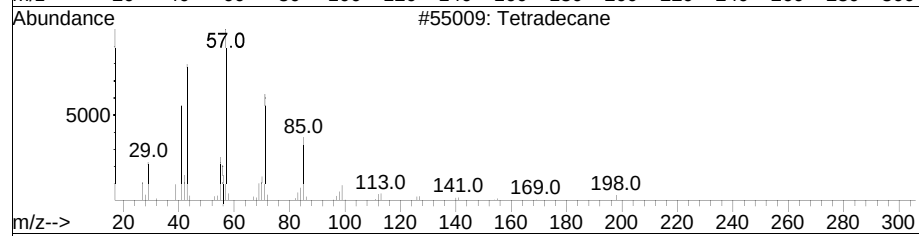
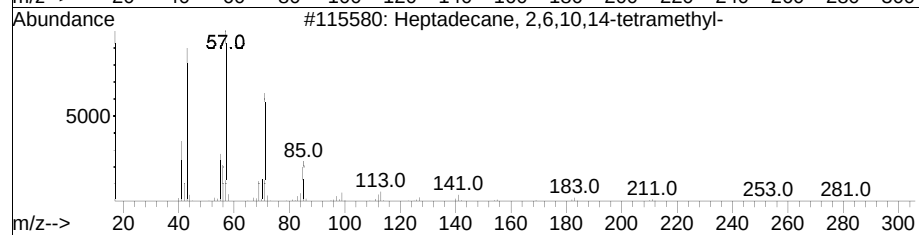
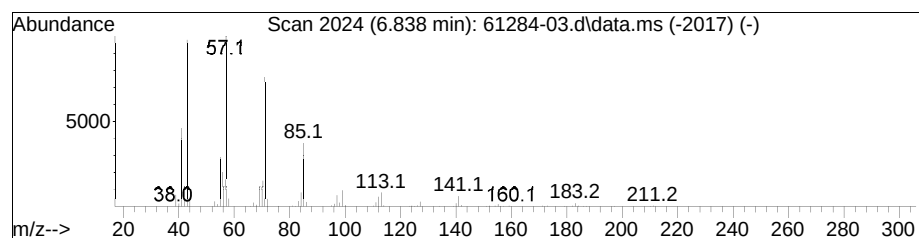
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Unknown Alkane Concentration Rank 12

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.838 | 61.70 ug/ml | 3154920 | IS1_Acenaphthene-d10 | 6.980 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | Heptadecane, 2,6,10,14-tetramethyl- | 296          | C21H44 | 018344-37-1 | 91   |      |
| 2       | Tetradecane                         | 198          | C14H30 | 000629-59-4 | 90   |      |
| 3       | Heptadecane, 2,6-dimethyl-          | 268          | C19H40 | 054105-67-8 | 87   |      |
| 4       | Decane, 5-propyl-                   | 184          | C13H28 | 017312-62-8 | 83   |      |
| 5       | Dodecane, 2,6,10-trimethyl-         | 212          | C15H32 | 003891-98-3 | 80   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

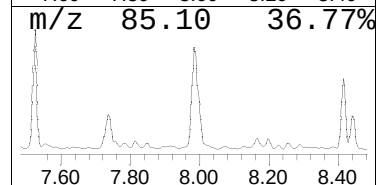
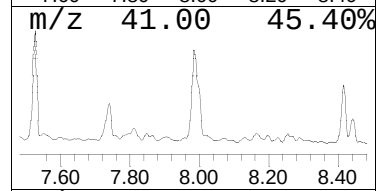
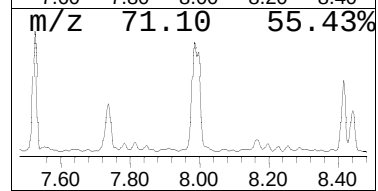
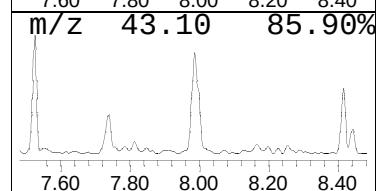
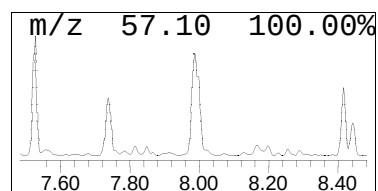
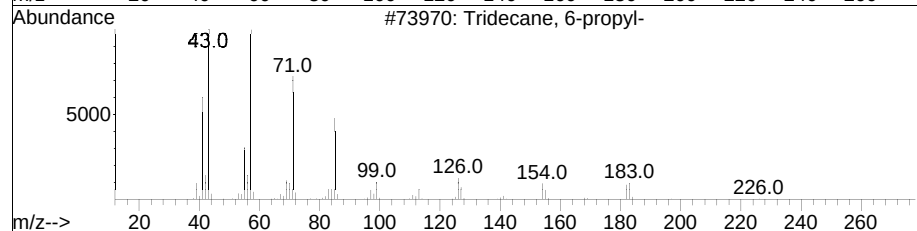
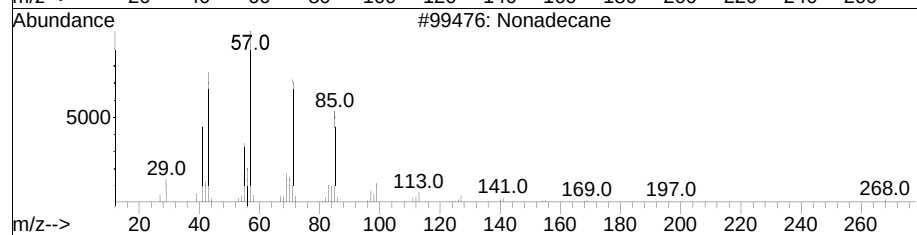
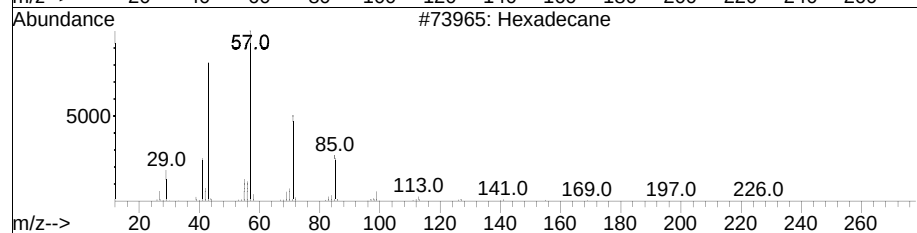
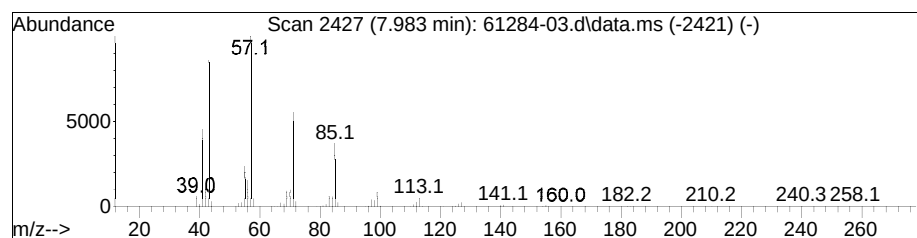
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Unknown Alkane Concentration Rank 1

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 7.983 | 418.10 ug/ml | 8572430 | IS1_Phenanthrene-d10 | 8.392 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------------------|--------------|-----|---------|-------------|------|
| 1       | Hexadecane                          |              | 226 | C16H34  | 000544-76-3 | 91   |
| 2       | Nonadecane                          |              | 268 | C19H40  | 000629-92-5 | 87   |
| 3       | Tridecane, 6-propyl-                |              | 226 | C16H34  | 055045-10-8 | 83   |
| 4       | Decane, 2,3,5-trimethyl-            |              | 184 | C13H28  | 062238-11-3 | 83   |
| 5       | Heptadecane, 2,6,10,14-tetramethyl- |              | 296 | C21H44  | 018344-37-1 | 80   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

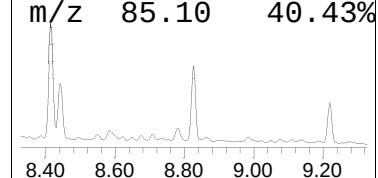
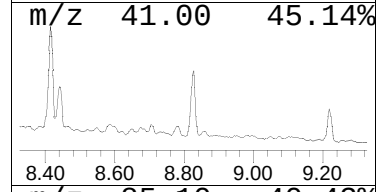
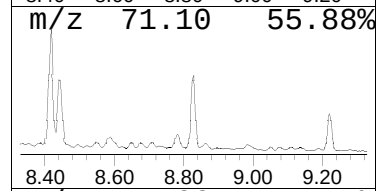
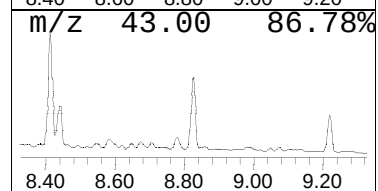
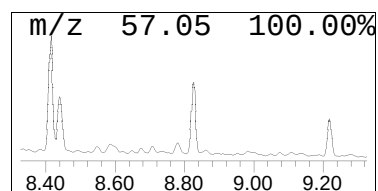
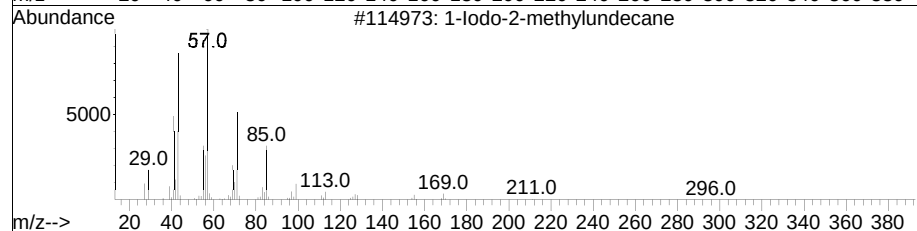
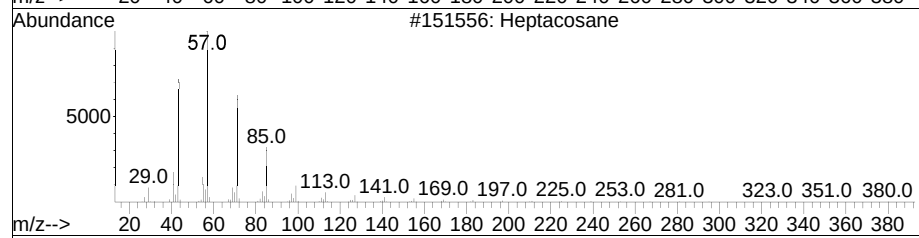
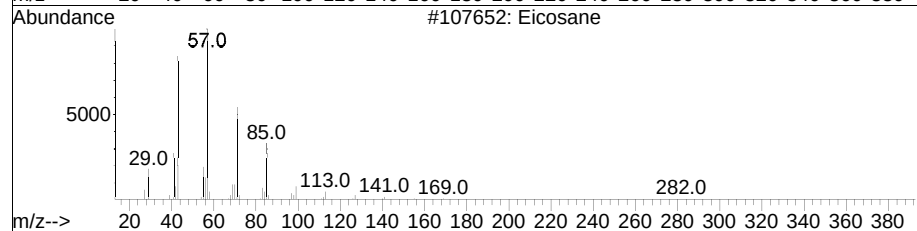
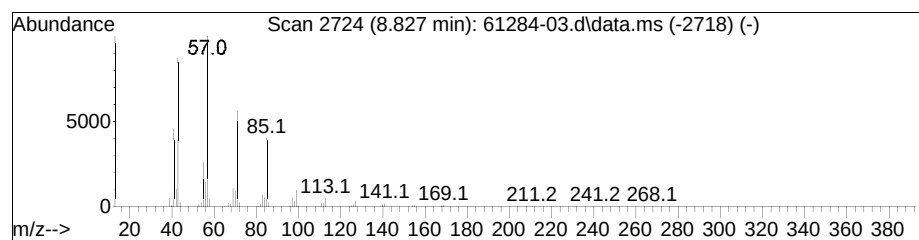
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Unknown Alkane Concentration Rank 3

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 8.827 | 153.84 ug/ml | 3154210 | IS3_Phenanthrene-d10 | 8.392 |

| Hit# of | 5                       | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane                |              | 282 | C20H42  | 000112-95-8 | 91   |
| 2       | Heptacosane             |              | 380 | C27H56  | 000593-49-7 | 91   |
| 3       | 1-Iodo-2-methylundecane |              | 296 | C12H25I | 073105-67-6 | 86   |
| 4       | Tridecane, 7-propyl-    |              | 226 | C16H34  | 055045-09-5 | 86   |
| 5       | Tridecane, 7-hexyl-     |              | 268 | C19H40  | 007225-66-3 | 86   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-03.d  
Acq On : 26 Dec 2019 5:59 pm  
Operator : SV103:ek  
Sample : l1961284-03d,32,10,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 17 Sample Multiplier: 1

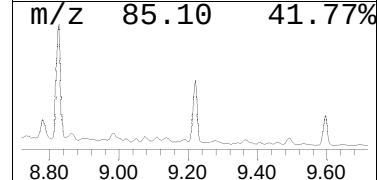
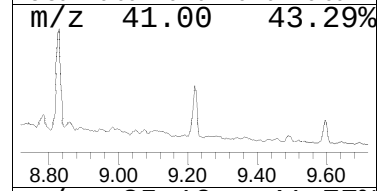
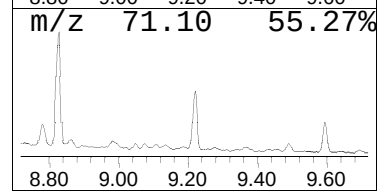
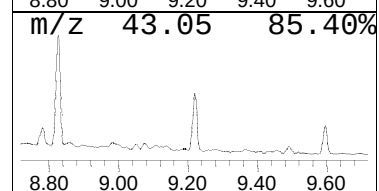
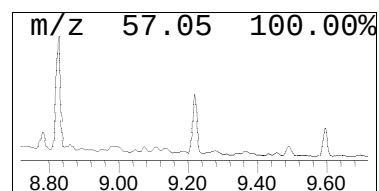
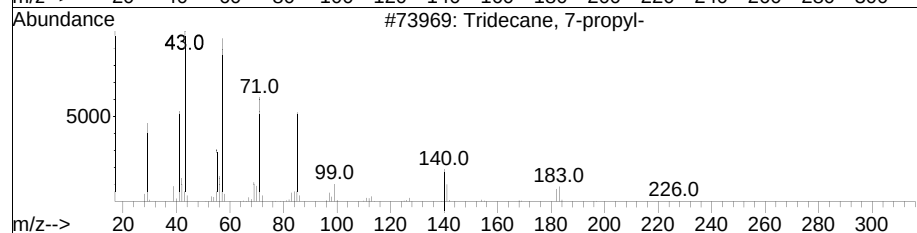
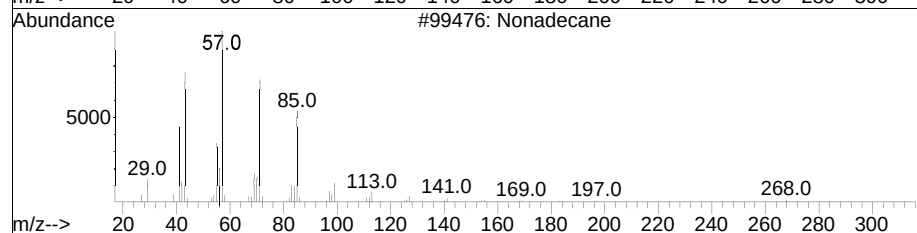
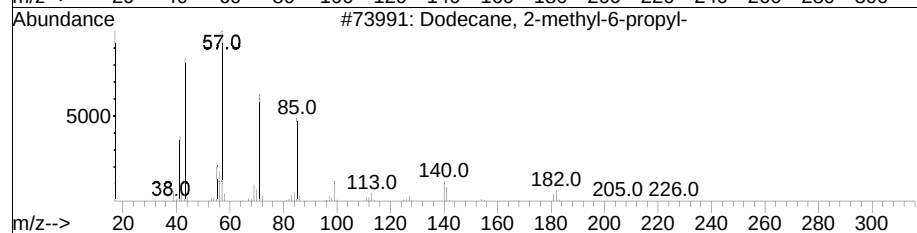
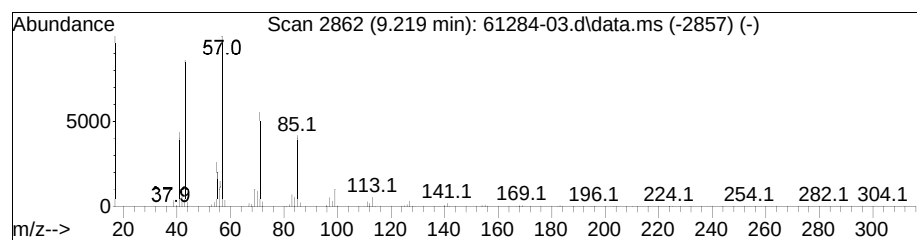
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Unknown Alkane Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 9.219 | 83.11 ug/ml | 1704000 | IS3_Phenanthrene-d10 | 8.392 |

| Hit# of | 5                            | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|------------------------------|--------------|--------|-------------|------|------|
| 1       | Dodecane, 2-methyl-6-propyl- | 226          | C16H34 | 055045-08-4 | 90   |      |
| 2       | Nonadecane                   | 268          | C19H40 | 000629-92-5 | 87   |      |
| 3       | Tridecane, 7-propyl-         | 226          | C16H34 | 055045-09-5 | 86   |      |
| 4       | Heptadecane, 8-methyl-       | 254          | C18H38 | 013287-23-5 | 86   |      |
| 5       | Eicosane                     | 282          | C20H42 | 000112-95-8 | 83   |      |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-03.d  
 Acq On : 26 Dec 2019 5:59 pm  
 Operator : SV103:ek  
 Sample : l1961284-03d,32,10,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name |            | RT    | EstConc | Units | Response | --Internal<br># | Standard<br>RT | Standard<br>Resp | Standard<br>Conc |
|------------------|------------|-------|---------|-------|----------|-----------------|----------------|------------------|------------------|
| Unknown          | Alkane     | 3.940 | 64.4    | ug/ml | 934079   | 1               | 4.033          | 580249           | 40.0             |
| Unknown          | Alkane     | 4.454 | 55.5    | ug/ml | 805042   | 3               | 4.033          | 580249           | 40.0             |
| Unknown          |            | 4.553 | 69.7    | ug/ml | 1011620  | 3               | 4.033          | 580249           | 40.0             |
| Unknown          | Alkane     | 4.715 | 94.1    | ug/ml | 5103560  | 4               | 5.284          | 2170230          | 40.0             |
| Unknown          | Alkane     | 5.383 | 126.5   | ug/ml | 6862430  | 5               | 5.284          | 2170230          | 40.0             |
| Unknown          | Alkane     | 5.457 | 47.4    | ug/ml | 2572630  | 5               | 5.284          | 2170230          | 40.0             |
| Unknown          | Alkane     | 5.767 | 50.1    | ug/ml | 2718490  | 5               | 5.284          | 2170230          | 40.0             |
| Unknown          |            | 5.812 | 63.1    | ug/ml | 3421180  | 5               | 5.284          | 2170230          | 40.0             |
| Unknown          | Alkane     | 6.531 | 198.6   | ug/ml | 10155500 | 6               | 6.980          | 2045440          | 40.0             |
| Unknown          | Naphtha... | 6.599 | 63.4    | ug/ml | 3240940  | 6               | 6.980          | 2045440          | 40.0             |
| Unknown          | Naphtha... | 6.673 | 69.0    | ug/ml | 3529180  | 6               | 6.980          | 2045440          | 40.0             |
| Unknown          | Alkane     | 6.838 | 61.7    | ug/ml | 3154920  | 6               | 6.980          | 2045440          | 40.0             |
| Unknown          | Alkane     | 7.983 | 418.1   | ug/ml | 8572430  | 9               | 8.392          | 820140           | 40.0             |
| Unknown          | Alkane     | 8.827 | 153.8   | ug/ml | 3154210  | 11              | 8.392          | 820140           | 40.0             |
| Unknown          | Alkane     | 9.219 | 83.1    | ug/ml | 1704000  | 11              | 8.392          | 820140           | 40.0             |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d, 32, 5, nytcl, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 06:51:12 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|---------|----------|
| Internal Standards            |                |      |          |        |         |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.036          | 152  | 110839   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 124940      |                |      | Recovery | =      | 88.71%  |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.036          | 152  | 110839   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 107713      |                |      | Recovery | =      | 102.90% |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.036          | 152  | 110839   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 117782      |                |      | Recovery | =      | 94.11%  |          |
| 35) IS1_Naphthalene-d8        | 5.284          | 136  | 457696   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 510434      |                |      | Recovery | =      | 89.67%  |          |
| 55) IS2_Naphthalene-d8        | 5.284          | 136  | 457696   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 448385      |                |      | Recovery | =      | 102.08% |          |
| 63) IS1_Acenaphthene-d10      | 6.977          | 164  | 262859   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 284683      |                |      | Recovery | =      | 92.33%  |          |
| 83) IS2_Acenaphthene-d10      | 6.977          | 164  | 262859   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 253761      |                |      | Recovery | =      | 103.59% |          |
| 86) IS3_Acenaphthene-d10      | 6.977          | 164  | 262859   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 268914      |                |      | Recovery | =      | 97.75%  |          |
| 88) IS1_Phenanthrene-d10      | 8.389          | 188  | 501143   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 550424      |                |      | Recovery | =      | 91.05%  |          |
| 100) IS3_Phenanthrene-d10     | 8.389          | 188  | 501143   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 514565      |                |      | Recovery | =      | 97.39%  |          |
| 104) IS1_Chrysene-d12         | 10.989         | 240  | 436227   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 503667      |                |      | Recovery | =      | 86.61%  |          |
| 113) IS1_Perylene-d12         | 12.847         | 264  | 453179   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 526137      |                |      | Recovery | =      | 86.13%  |          |
| System Monitoring Compounds   |                |      |          |        |         |          |
| 4) 2-Fluorophenol             | 2.726          | 112  | 26931    | 9.044  | ug/ml   | 0.02     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 18.09%  |          |
| 7) Phenol-d6                  | 3.766          | 99   | 34138    | 9.141  | ug/ml   | 0.01     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 18.28%  |          |
| 19) Nitrobenzene-d5           | 4.602          | 82   | 15978    | 4.712  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 18.85%# |          |
| 46) 2-Fluorobiphenyl          | 6.363          | 172  | 37819    | 4.662  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 18.65%# |          |
| 79) 2,4,6-Tribromophenol      | 7.739          | 330  | 11107    | 9.268  | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 18.54%  |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d, 32, 5, nytcl, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 06:51:12 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| 96) 4-Terphenyl-d14           | 9.955  | 244   | 41044    | 4.732    | ug/ml | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 18.93%#  |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        | N.D.     |       |          |
| 8) Phenol                     | 0.000  |       | 0        | N.D.     |       |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        | N.D.     |       |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        | N.D.     |       |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        | N.D.     |       |          |
| 16) Hexachloroethane          | 0.000  |       | 0        | N.D.     | d     |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        | N.D.     | d     |          |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        | N.D.     |       |          |
| 20) Nitrobenzene              | 0.000  |       | 0        | N.D.     | d     |          |
| 21) Isophorone                | 0.000  |       | 0        | N.D.     | d     |          |
| 22) 2-Nitrophenol             | 0.000  |       | 0        | N.D.     | d     |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        | N.D.     | d     |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        | N.D.     | d     |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        | N.D.     | d     |          |
| 28) Benzaldehyde              | 0.000  |       | 0        | N.D.     | d     |          |
| 29) Acetophenone              | 0.000  |       | 0        | N.D.     | d     |          |
| 36) Naphthalene               | 5.303  | 128   | 155312M3 | 13.886   | ug/ml |          |
| 38) 4-Chloroaniline           | 0.000  |       | 0        | N.D.     | d     |          |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        | N.D.     |       |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        | N.D.     | d     |          |
| 41) 2-Methylnaphthalene       | 5.985  | 142   | 624456   | 80.530   | ug/ml | 98       |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        | N.D.     |       |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d     |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d     |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        | N.D.     | d     |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        | N.D.     | d     |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        | N.D.     | d     |          |
| 52) Acenaphthylene            | 0.000  |       | 0        | N.D.     | d     |          |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        | N.D.     | d     |          |
| 60) Caprolactam               | 0.000  |       | 0        | N.D.     | d     |          |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        | N.D.     |       |          |
| 62) Biphenyl                  | 6.449  | 154   | 89590    | 9.203    | ug/ml | 99       |
| 64) 3-Nitroaniline            | 0.000  |       | 0        | N.D.     | d     |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d, 32, 5, nytcl, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 06:51:12 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                       | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 65) Acenaphthene               | 7.005 | 154  | 17395    | 2.443  | ug/ml# | 26       |
| 66) 2,4-Dinitrophenol          | 0.000 |      | 0        | N.D.   | d      |          |
| 67) Dibenzofuran               | 7.176 | 168  | 40489    | 3.848  | ug/ml# | 85       |
| 68) 2,4-Dinitrotoluene         | 0.000 |      | 0        | N.D.   | d      |          |
| 69) 4-Nitrophenol              | 0.000 |      | 0        | N.D.   | d      |          |
| 71) 2,3,4,6-Tetrachlorophenol  | 0.000 |      | 0        | N.D.   | d      |          |
| 72) Diethyl phthalate          | 0.000 |      | 0        | N.D.   | d      |          |
| 73) Fluorene                   | 7.503 | 166  | 44652    | 5.173  | ug/ml# | 83       |
| 74) 4-Chlorophenyl phenyl ...  | 0.000 |      | 0        | N.D.   | d      |          |
| 75) 4-Nitroaniline             | 0.000 |      | 0        | N.D.   | d      |          |
| 76) 4,6-Dinitro-o-cresol       | 0.000 |      | 0        | N.D.   | d      |          |
| 77) NDPA/DPA                   | 0.000 |      | 0        | N.D.   | d      |          |
| 80) 4-Bromophenyl phenyl e...  | 0.000 |      | 0        | N.D.   | d      |          |
| 81) Hexachlorobenzene          | 0.000 |      | 0        | N.D.   | d      |          |
| 82) Pentachlorophenol          | 0.000 |      | 0        | N.D.   | d      |          |
| 87) Atrazine                   | 0.000 |      | 0        | N.D.   | d      |          |
| 89) Phenanthrene               | 8.409 | 178  | 156068   | 12.019 | ug/ml  | 96       |
| 90) Anthracene                 | 8.460 | 178  | 10732    | 0.819  | ug/ml# | 1        |
| 91) Carbazole                  | 0.000 |      | 0        | N.D.   | d      |          |
| 92) Di-n-butylphthalate        | 0.000 |      | 0        | N.D.   | d      |          |
| 93) Fluoranthene               | 0.000 |      | 0        | N.D.   | d      |          |
| 95) Pyrene                     | 9.753 | 202  | 7630     | 0.508  | ug/ml# | 76       |
| 97) Butyl benzyl phthalate     | 0.000 |      | 0        | N.D.   | d      |          |
| 105) Benzo(a)anthracene        | 0.000 |      | 0        | N.D.   | d      |          |
| 106) 3,3'-Dichlorobenzidine    | 0.000 |      | 0        | N.D.   | d      |          |
| 107) Chrysene                  | 0.000 |      | 0        | N.D.   | d      |          |
| 108) Bis(2-ethylhexyl)phtha... | 0.000 |      | 0        | N.D.   | d      |          |
| 109) Di-n-octylphthalate       | 0.000 |      | 0        | N.D.   | d      |          |
| 110) Benzo(b)fluoranthene      | 0.000 |      | 0        | N.D.   | d      |          |
| 111) Benzo(k)fluoranthene      | 0.000 |      | 0        | N.D.   | d      |          |
| 112) Benzo(a)pyrene            | 0.000 |      | 0        | N.D.   | d      |          |
| 114) Indeno(1,2,3-cd)pyrene    | 0.000 |      | 0        | N.D.   | d      |          |
| 115) Dibenzo(a,h)anthracene    | 0.000 |      | 0        | N.D.   | d      |          |
| 116) Benzo(ghi)perylene        | 0.000 |      | 0        | N.D.   | d      |          |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 06:51:12 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

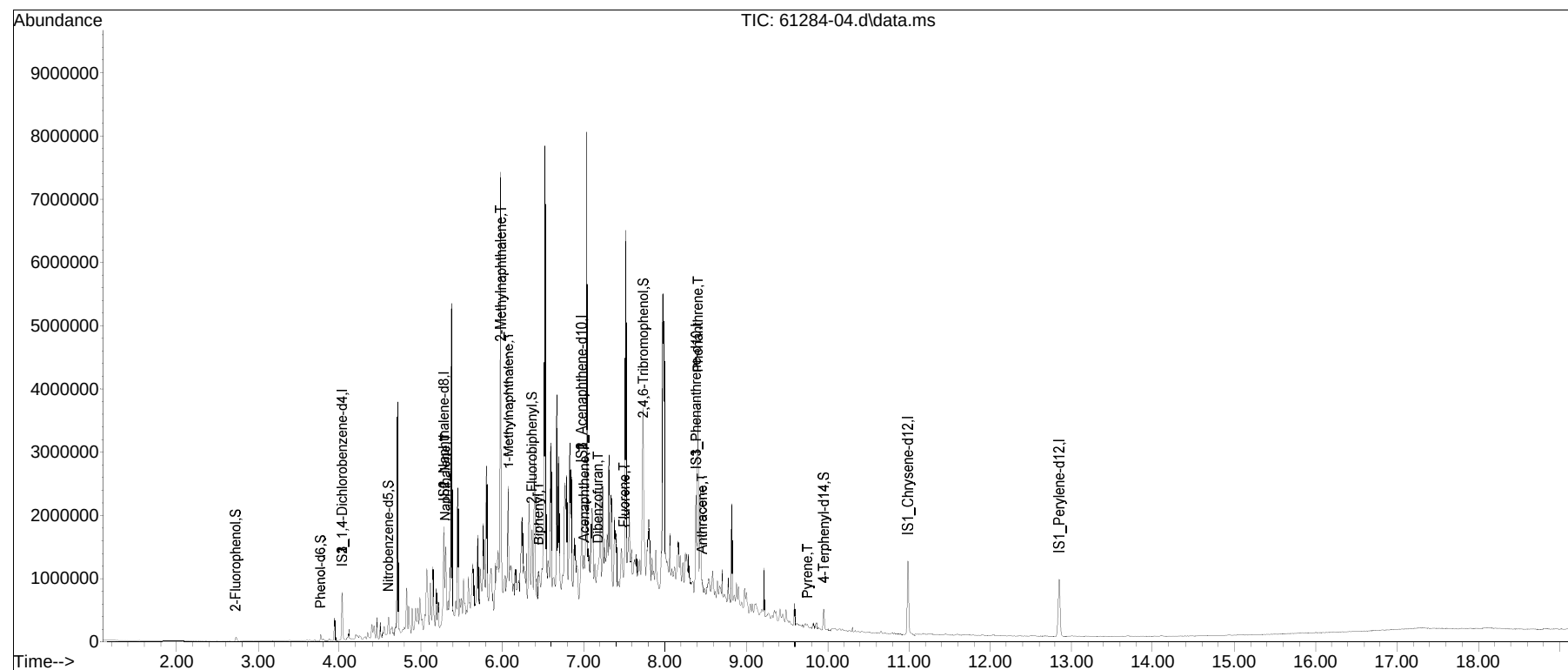
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

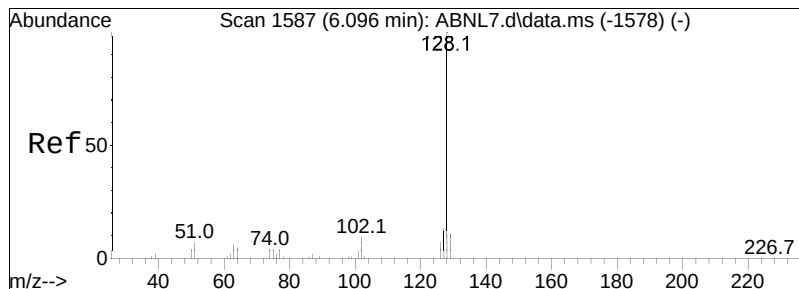
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 06:51:12 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

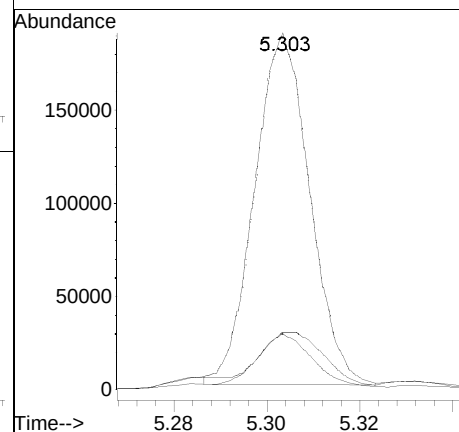
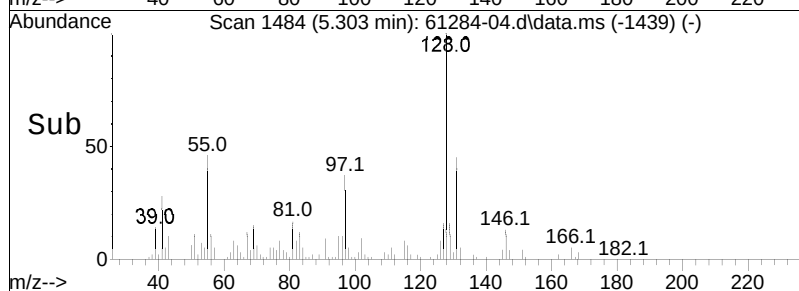
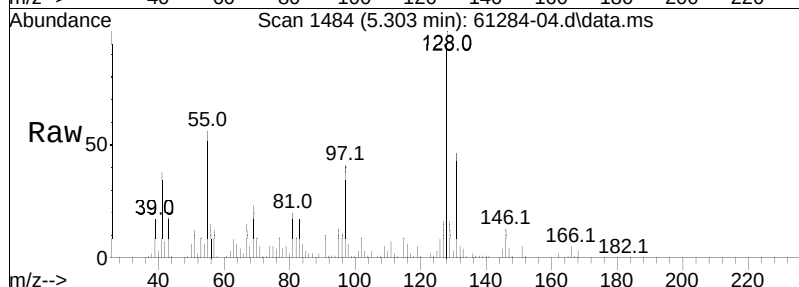
Sub List : 8270TCL\_REV2 - TCL/CT/MA\AP91226.d•

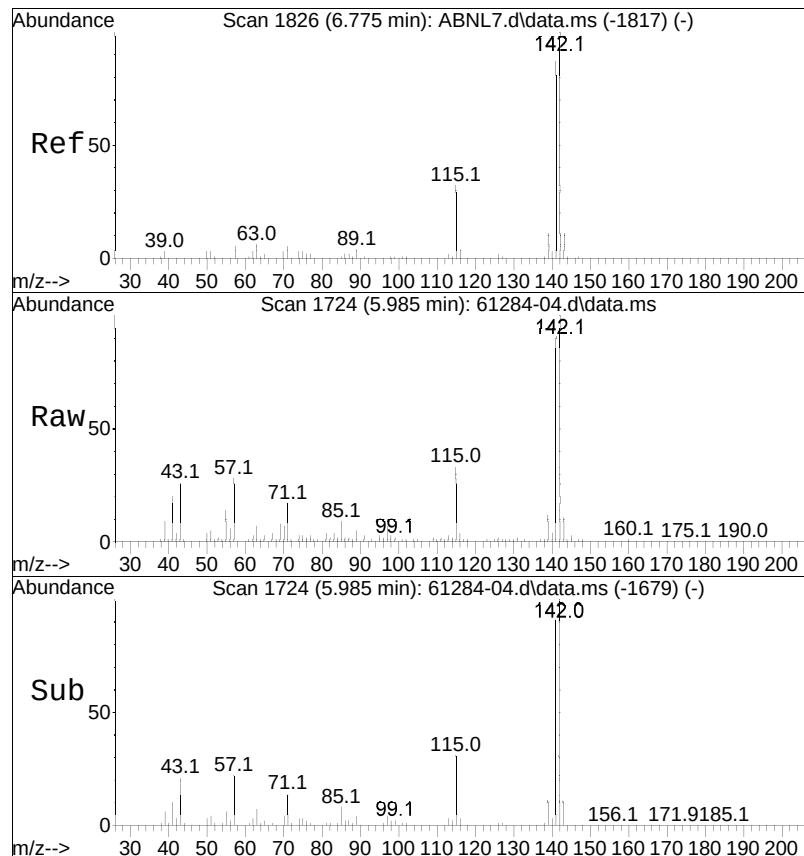




#36  
 Naphthalene  
 Concen: 13.89 ug/ml M3  
 RT: 5.303 min Scan# 1484  
 Delta R.T. 0.003 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

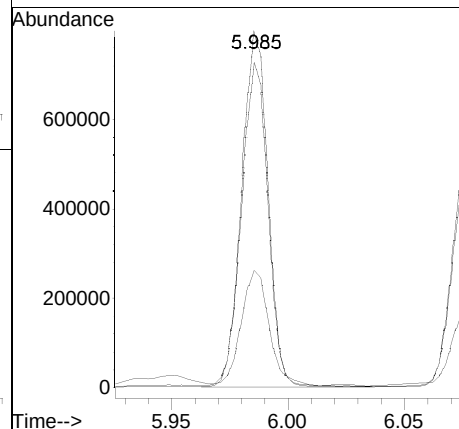
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 23.0  | 8.7  | 13.1# |       |
| 127     | 18.0  | 10.7 | 16.1# |       |

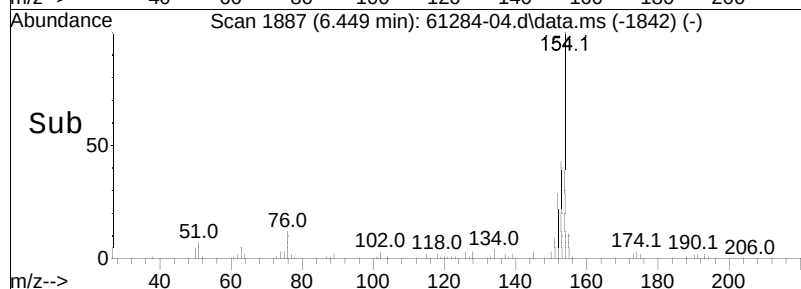
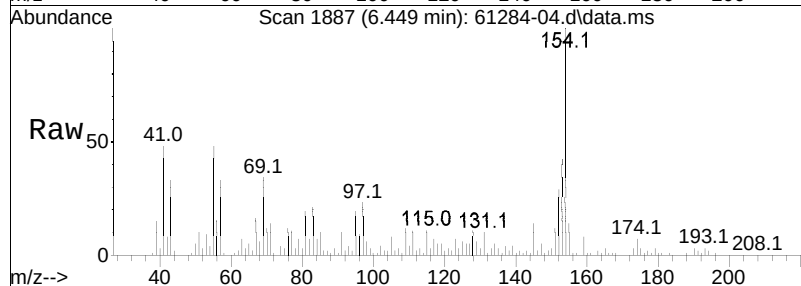
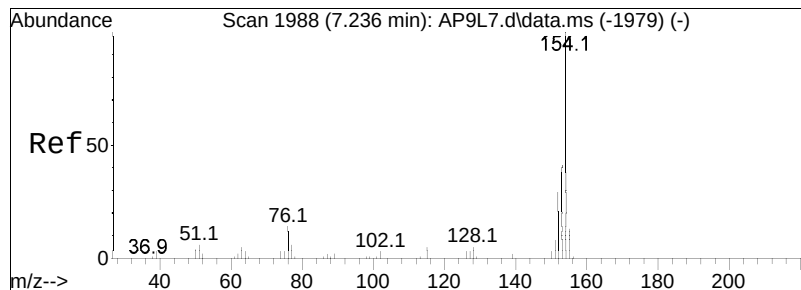




#41  
 2-Methylnaphthalene  
 Concen: 80.53 ug/ml  
 RT: 5.985 min Scan# 1724  
 Delta R.T. 0.003 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

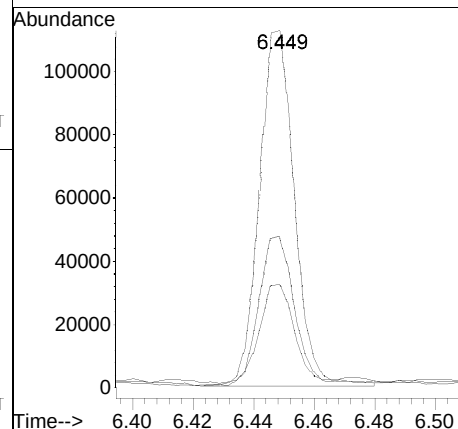
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 624456 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 91.7  | 71.8  | 107.8  |
| 115       | 34.5  | 29.1  | 43.7   |

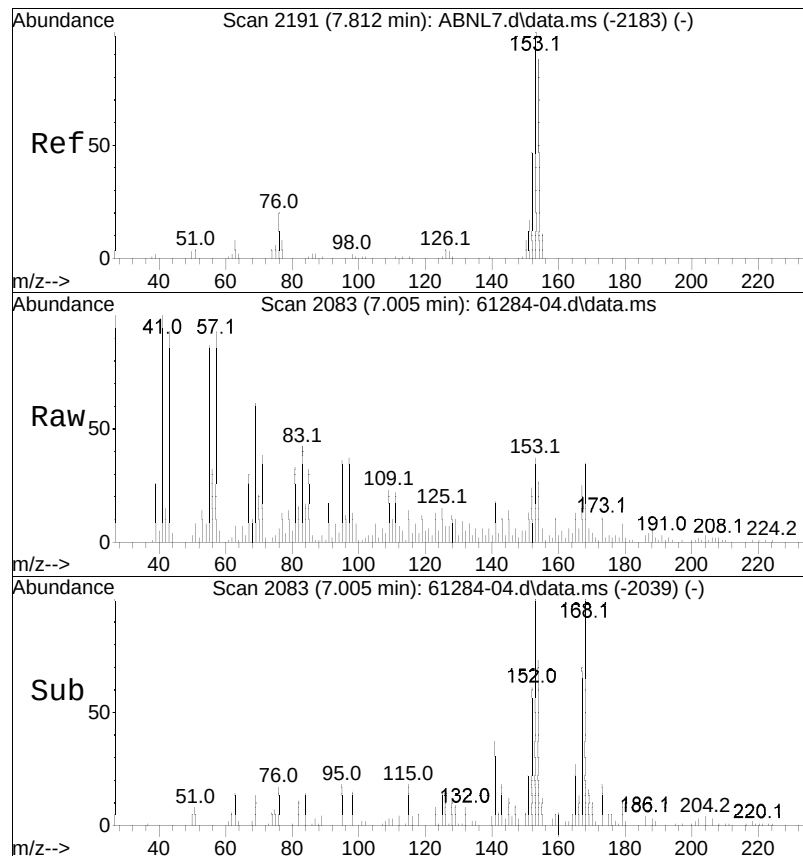




#62  
 Biphenyl  
 Concen: 9.20 ug/ml  
 RT: 6.449 min Scan# 1887  
 Delta R.T. 0.003 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

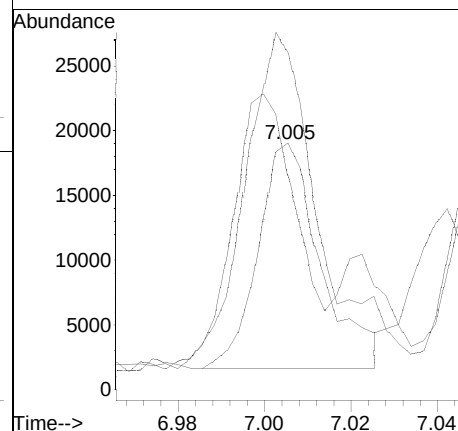
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 89590 |       |       |
| 153     | 42.4  |       | 33.5  | 50.3  |
| 152     | 28.6  |       | 22.6  | 34.0  |

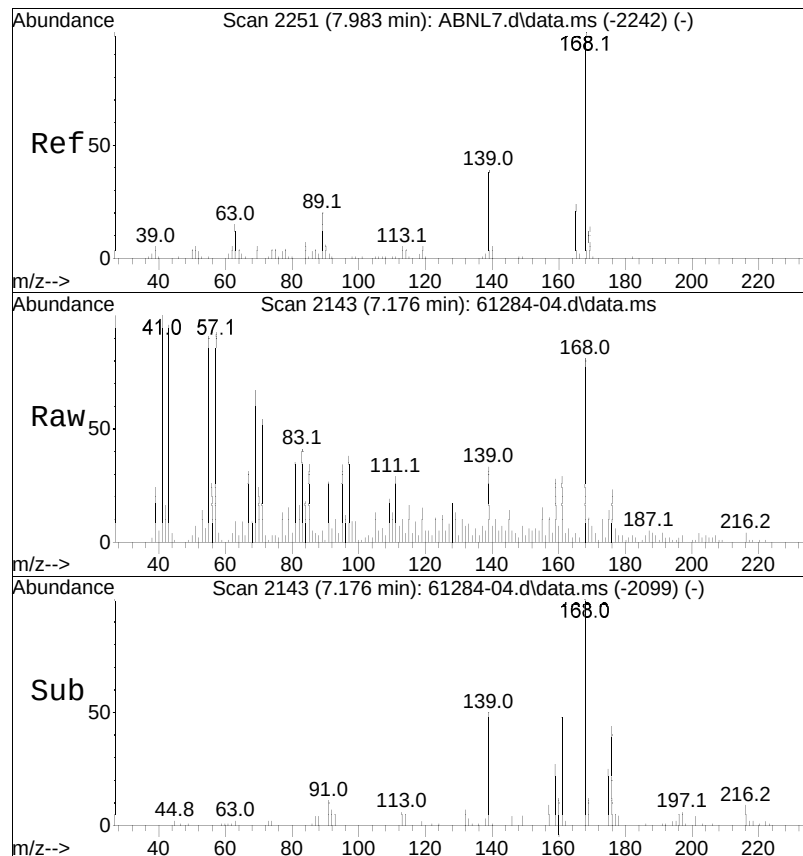




#65  
 Acenaphthene  
 Concen: 2.44 ug/ml  
 RT: 7.005 min Scan# 2083  
 Delta R.T. 0.000 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

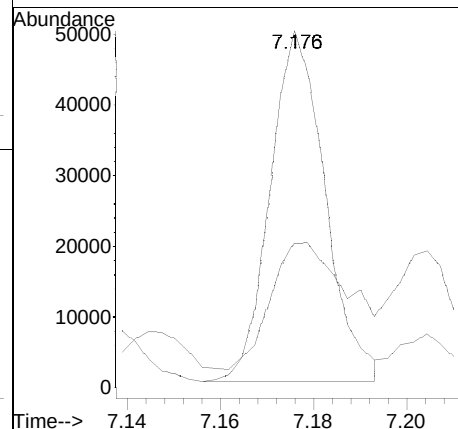
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 154     | 100   |       |        |
| 153     | 179.0 | 91.3  | 136.9# |
| 152     | 124.4 | 41.0  | 61.4#  |

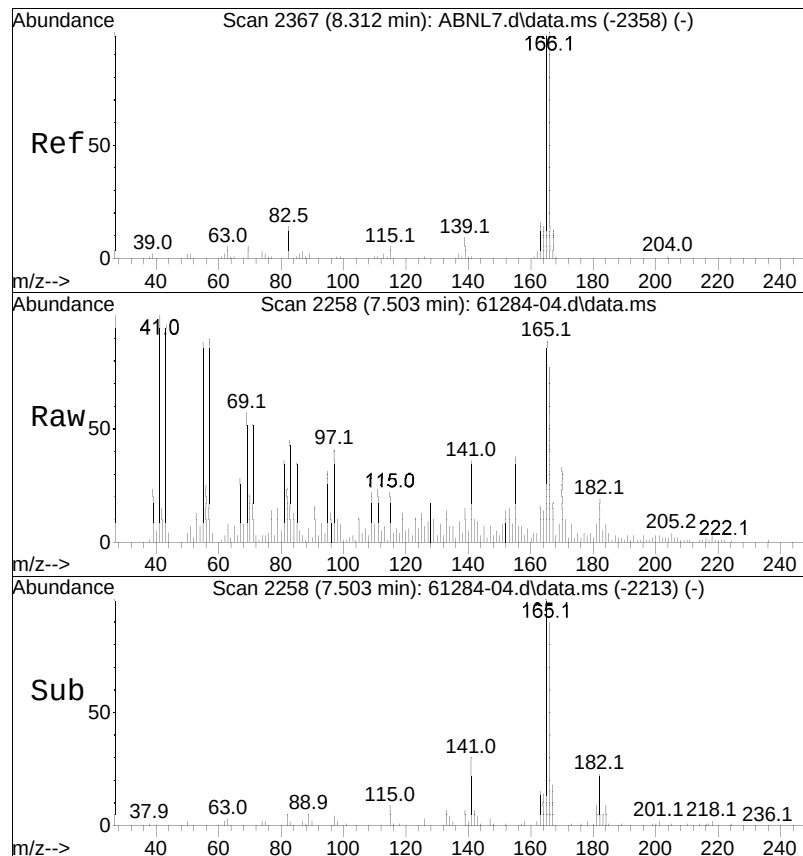




#67  
 Dibenzofuran  
 Concen: 3.85 ug/ml  
 RT: 7.176 min Scan# 2143  
 Delta R.T. 0.000 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

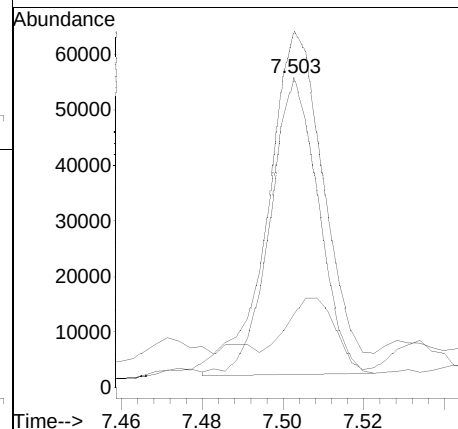
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 51.2  | 33.2  | 49.8# |



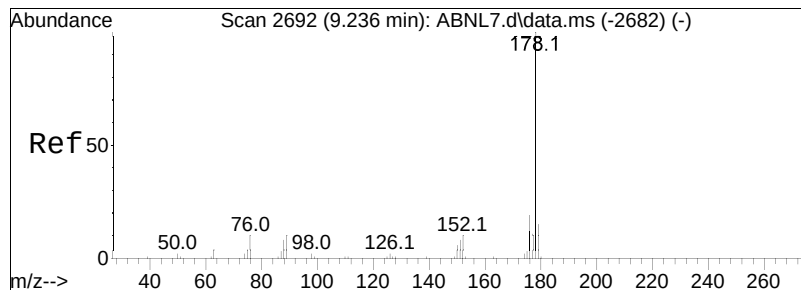


#73  
 Fluorene  
 Concen: 5.17 ug/ml  
 RT: 7.503 min Scan# 2258  
 Delta R.T. 0.003 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 44652 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 114.0 | 79.3  | 118.9 |
| 167       | 24.6  | 10.6  | 16.0# |







#89

Phenanthrene

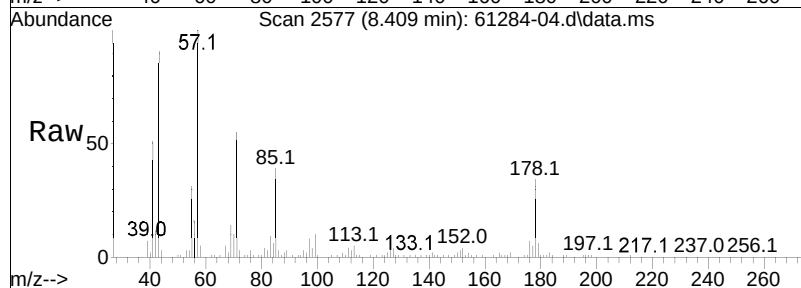
Concen: 12.02 ug/ml

RT: 8.409 min Scan# 2577

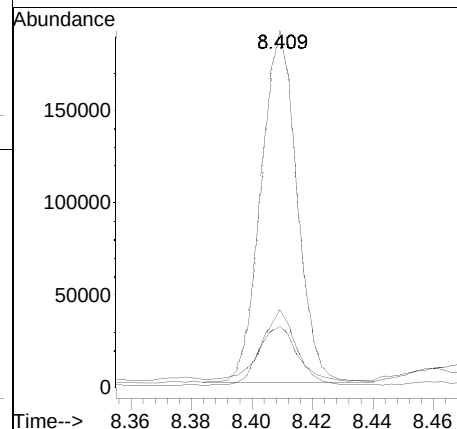
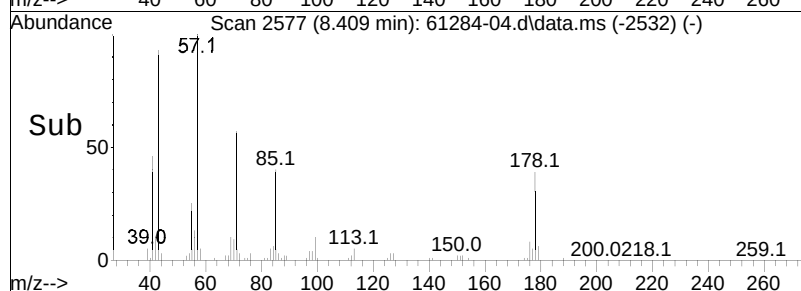
Delta R.T. 0.003 min

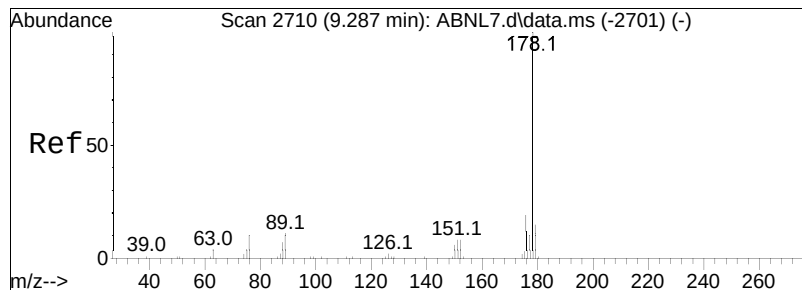
Lab File: 61284-04.d

Acq: 26 Dec 2019 6:23 pm



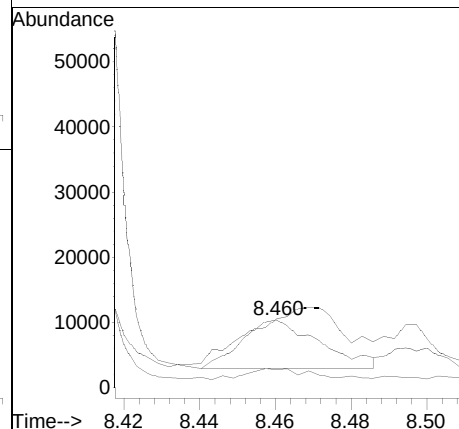
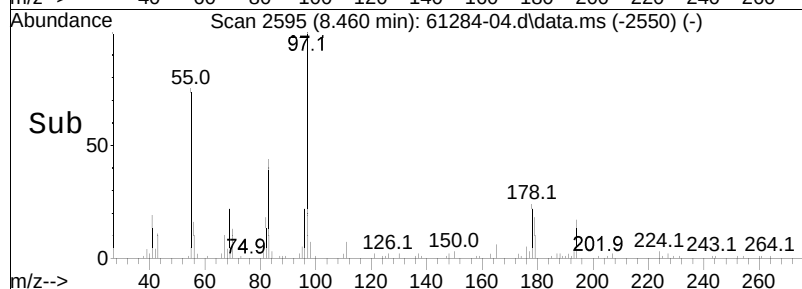
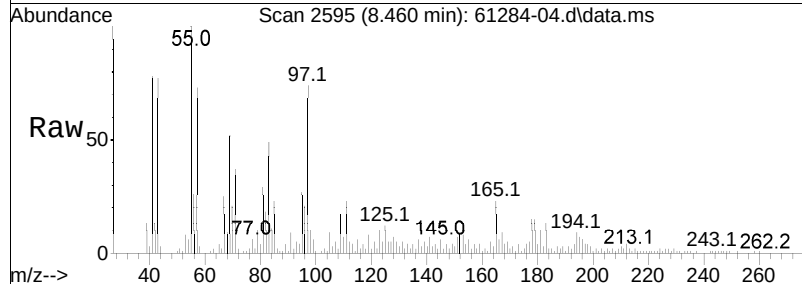
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 156068 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 17.4  | 12.2  | 18.2   |
| 176       | 20.6  | 15.4  | 23.2   |

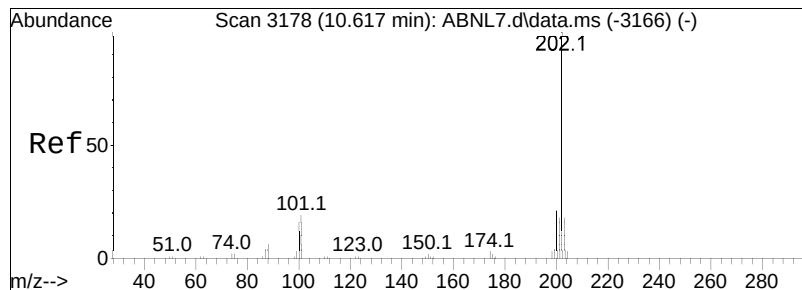




#90  
 Anthracene  
 Concen: 0.82 ug/ml  
 RT: 8.460 min Scan# 2595  
 Delta R.T. 0.003 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

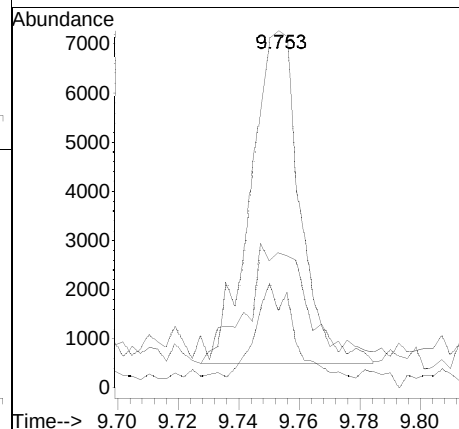
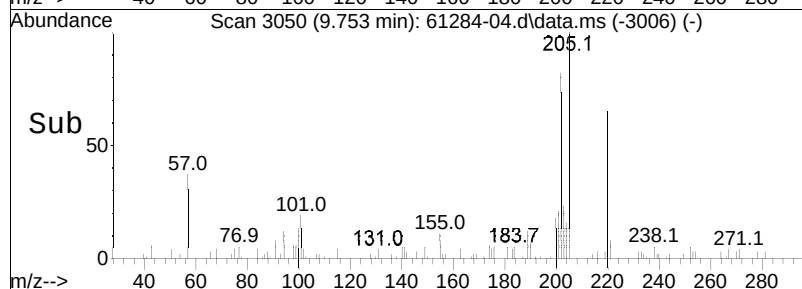
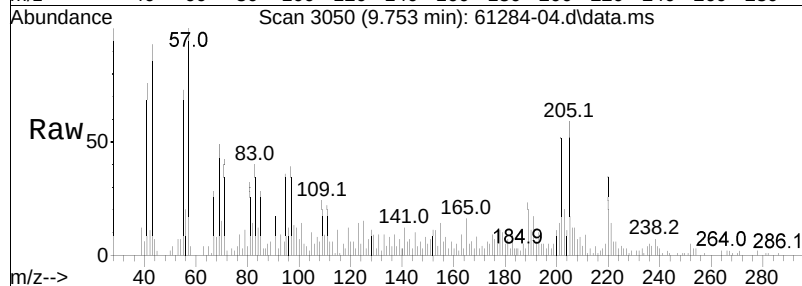
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 150.2 | 12.1  | 18.1# |
| 176     | 19.4  | 14.8  | 22.2  |





#95  
 Pyrene  
 Concen: 0.51 ug/ml  
 RT: 9.753 min Scan# 3050  
 Delta R.T. 0.000 min  
 Lab File: 61284-04.d  
 Acq: 26 Dec 2019 6:23 pm

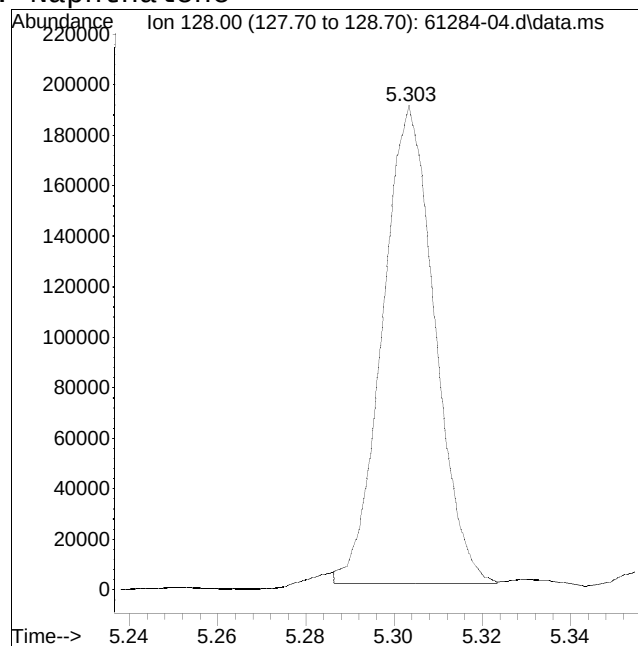
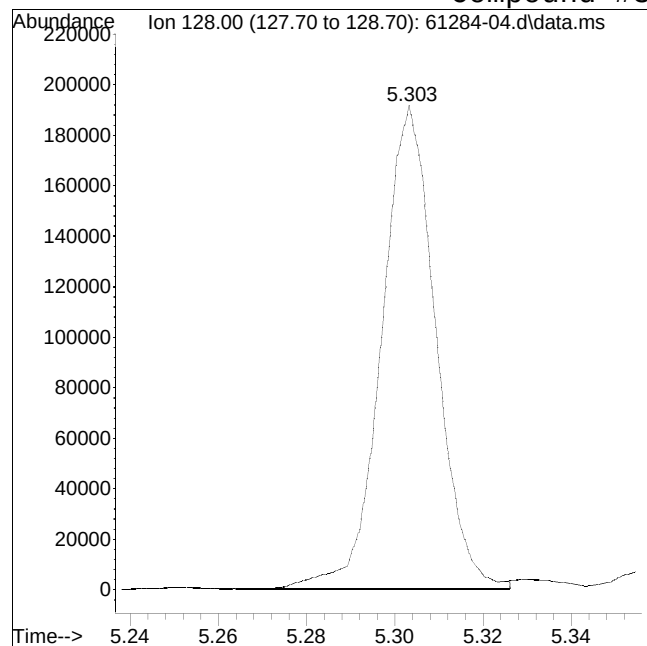
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 17.0  | 25.4  |
| 203     | 40.0  | 14.2  | 21.2  |



# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : 61284-04.d Operator : SV103:ek  
Date Inj'd : 12/26/2019 6:23 pm Instrument : SV103  
Sample : l1961284-04d,32,5,nytcl,rv Quant Date : 12/27/2019 3:33 pm

## Compound #36: Naphthalene



Original Peak Response = 163918

Manual Peak Response = 155312 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 61284-04.d\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.729       | 567           | 578         | 592          | rBV2     | 72728          | 101480        | 1.44%           | 0.092%        |
| 2         | 3.940       | 997           | 1004        | 1012         | rVB      | 353418         | 298769        | 4.25%           | 0.272%        |
| 3         | 4.036       | 1031          | 1038        | 1046         | rBV      | 755229         | 659614        | 9.38%           | 0.600%        |
| 4         | 4.121       | 1052          | 1068        | 1073         | rBV2     | 170862         | 216312        | 3.08%           | 0.197%        |
| 5         | 4.343       | 1141          | 1146        | 1156         | rBV2     | 102622         | 112218        | 1.60%           | 0.102%        |
| 6         | 4.391       | 1156          | 1163        | 1167         | rVV4     | 217167         | 210629        | 3.00%           | 0.192%        |
| 7         | 4.417       | 1167          | 1172        | 1178         | rVB3     | 196686         | 200892        | 2.86%           | 0.183%        |
| 8         | 4.451       | 1178          | 1184        | 1194         | rVB      | 325592         | 319821        | 4.55%           | 0.291%        |
| 9         | 4.496       | 1194          | 1200        | 1209         | rBV      | 248122         | 236076        | 3.36%           | 0.215%        |
| 10        | 4.553       | 1209          | 1220        | 1225         | rBV4     | 175436         | 254925        | 3.63%           | 0.232%        |
| 11        | 4.604       | 1231          | 1238        | 1243         | rBV4     | 278409         | 280710        | 3.99%           | 0.255%        |
| 12        | 4.692       | 1263          | 1269        | 1270         | rBV3     | 133008         | 101362        | 1.44%           | 0.092%        |
| 13        | 4.715       | 1270          | 1277        | 1283         | rVB      | 3616022        | 2879613       | 40.96%          | 2.620%        |
| 14        | 4.829       | 1309          | 1317        | 1322         | rBV3     | 649455         | 564658        | 8.03%           | 0.514%        |
| 15        | 4.852       | 1322          | 1325        | 1335         | rVB      | 432109         | 404512        | 5.75%           | 0.368%        |
| 16        | 4.894       | 1335          | 1340        | 1347         | rBV      | 400153         | 347516        | 4.94%           | 0.316%        |
| 17        | 4.937       | 1347          | 1355        | 1360         | rBV3     | 350565         | 394424        | 5.61%           | 0.359%        |
| 18        | 4.965       | 1361          | 1365        | 1369         | rVB      | 263253         | 175553        | 2.50%           | 0.160%        |
| 19        | 4.988       | 1369          | 1373        | 1380         | rBV4     | 430373         | 406196        | 5.78%           | 0.370%        |
| 20        | 5.051       | 1388          | 1395        | 1397         | rBV2     | 247417         | 248492        | 3.53%           | 0.226%        |
| 21        | 5.070       | 1397          | 1402        | 1412         | rVV5     | 963143         | 1377802       | 19.60%          | 1.254%        |
| 22        | 5.116       | 1412          | 1418        | 1423         | rVV3     | 728674         | 684302        | 9.73%           | 0.623%        |
| 23        | 5.147       | 1424          | 1429        | 1439         | rVV3     | 976772         | 1054132       | 14.99%          | 0.959%        |
| 24        | 5.190       | 1439          | 1444        | 1448         | rVV      | 619460         | 503151        | 7.16%           | 0.458%        |
| 25        | 5.212       | 1448          | 1452        | 1460         | rVB2     | 405204         | 372556        | 5.30%           | 0.339%        |
| 26        | 5.284       | 1467          | 1477        | 1481         | rBV      | 1555278        | 1548051       | 22.02%          | 1.409%        |
| 27        | 5.303       | 1481          | 1484        | 1490         | rVV3     | 1165003        | 1070859       | 15.23%          | 0.974%        |
| 28        | 5.332       | 1491          | 1494        | 1499         | rVV5     | 263577         | 260494        | 3.71%           | 0.237%        |

# LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |         |         |         |        |
|----|-------|------|------|------|------|---------|---------|---------|--------|
| 29 | 5.380 | 1499 | 1511 | 1516 | rVB  | 4878537 | 4359233 | 62.01%  | 3.967% |
| 30 | 5.428 | 1524 | 1528 | 1532 | rBV3 | 246638  | 210942  | 3.00%   | 0.192% |
| 31 | 5.457 | 1532 | 1538 | 1543 | rVB  | 2041406 | 1606157 | 22.85%  | 1.462% |
| 32 | 5.482 | 1543 | 1547 | 1550 | rBV4 | 282751  | 222761  | 3.17%   | 0.203% |
| 33 | 5.502 | 1551 | 1554 | 1558 | rVB2 | 246542  | 176212  | 2.51%   | 0.160% |
| 34 | 5.528 | 1558 | 1563 | 1567 | rBV3 | 553910  | 457509  | 6.51%   | 0.416% |
| 35 | 5.585 | 1579 | 1583 | 1587 | rBV2 | 550342  | 415827  | 5.92%   | 0.378% |
| 36 | 5.622 | 1592 | 1596 | 1597 | rVV2 | 246848  | 159477  | 2.27%   | 0.145% |
| 37 | 5.636 | 1597 | 1601 | 1611 | rVV6 | 719305  | 972659  | 13.84%  | 0.885% |
| 38 | 5.696 | 1615 | 1622 | 1631 | rVV5 | 1129249 | 1332443 | 18.95%  | 1.213% |
| 39 | 5.732 | 1631 | 1635 | 1641 | rVV4 | 593339  | 576348  | 8.20%   | 0.524% |
| 40 | 5.764 | 1642 | 1646 | 1655 | rVV6 | 1258421 | 1441687 | 20.51%  | 1.312% |
| 41 | 5.809 | 1655 | 1662 | 1671 | rVB3 | 2138142 | 2233491 | 31.77%  | 2.032% |
| 42 | 5.857 | 1671 | 1679 | 1686 | rVB7 | 514125  | 681651  | 9.70%   | 0.620% |
| 43 | 5.883 | 1686 | 1688 | 1692 | rVB3 | 261448  | 154289  | 2.19%   | 0.140% |
| 44 | 5.917 | 1694 | 1700 | 1703 | rBV3 | 713598  | 639224  | 9.09%   | 0.582% |
| 45 | 5.934 | 1703 | 1706 | 1708 | rVV2 | 469468  | 335974  | 4.78%   | 0.306% |
| 46 | 5.948 | 1709 | 1711 | 1715 | rVV3 | 707272  | 572645  | 8.15%   | 0.521% |
| 47 | 5.977 | 1715 | 1721 | 1732 | rVB2 | 6656180 | 7030022 | 100.00% | 6.397% |
| 48 | 6.073 | 1749 | 1755 | 1760 | rVB2 | 1494048 | 1381402 | 19.65%  | 1.257% |
| 49 | 6.096 | 1760 | 1763 | 1765 | rBV3 | 249832  | 162586  | 2.31%   | 0.148% |
| 50 | 6.164 | 1783 | 1787 | 1792 | rBV3 | 397693  | 327060  | 4.65%   | 0.298% |
| 51 | 6.238 | 1805 | 1813 | 1821 | rBV4 | 1176561 | 1787554 | 25.43%  | 1.627% |
| 52 | 6.295 | 1829 | 1833 | 1838 | rVB2 | 717111  | 551701  | 7.85%   | 0.502% |
| 53 | 6.329 | 1839 | 1845 | 1851 | rBV4 | 1544634 | 1511115 | 21.50%  | 1.375% |
| 54 | 6.363 | 1852 | 1857 | 1862 | rVB2 | 954582  | 807417  | 11.49%  | 0.735% |
| 55 | 6.392 | 1862 | 1867 | 1873 | rBV  | 2237616 | 1778785 | 25.30%  | 1.619% |
| 56 | 6.449 | 1883 | 1887 | 1890 | rBV  | 423763  | 386282  | 5.49%   | 0.352% |
| 57 | 6.491 | 1899 | 1902 | 1903 | rBV2 | 227400  | 124582  | 1.77%   | 0.113% |
| 58 | 6.525 | 1909 | 1914 | 1924 | rVB2 | 6844707 | 6175272 | 87.84%  | 5.619% |
| 59 | 6.596 | 1934 | 1939 | 1947 | rVB2 | 2271967 | 2588169 | 36.82%  | 2.355% |
| 60 | 6.670 | 1958 | 1965 | 1969 | rBV  | 2996662 | 2761007 | 39.27%  | 2.512% |

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |         |         |        |        |
|----|-------|------|------|------|------|---------|---------|--------|--------|
| 61 | 6.693 | 1969 | 1973 | 1977 | rVB  | 1564912 | 1121119 | 15.95% | 1.020% |
| 62 | 6.775 | 1996 | 2002 | 2005 | rBV3 | 1390704 | 1366501 | 19.44% | 1.244% |
| 63 | 6.792 | 2005 | 2008 | 2014 | rVB  | 1646477 | 1240197 | 17.64% | 1.129% |
| 64 | 6.835 | 2014 | 2023 | 2026 | rBV2 | 2153036 | 2326098 | 33.09% | 2.117% |
| 65 | 6.852 | 2026 | 2029 | 2037 | rVB3 | 1721303 | 1379724 | 19.63% | 1.256% |
| 66 | 6.886 | 2037 | 2041 | 2046 | rBV2 | 757617  | 726628  | 10.34% | 0.661% |
| 67 | 6.977 | 2064 | 2073 | 2077 | rBV  | 1704137 | 1621524 | 23.07% | 1.476% |
| 68 | 7.040 | 2085 | 2095 | 2102 | rBV  | 6831833 | 5725082 | 81.44% | 5.210% |
| 69 | 7.105 | 2112 | 2118 | 2127 | rVB  | 1121451 | 1497314 | 21.30% | 1.363% |
| 70 | 7.204 | 2149 | 2153 | 2158 | rVB  | 1369082 | 1020707 | 14.52% | 0.929% |
| 71 | 7.238 | 2160 | 2165 | 2169 | rVV  | 1288616 | 964048  | 13.71% | 0.877% |
| 72 | 7.309 | 2185 | 2190 | 2195 | rBV2 | 1596550 | 1398188 | 19.89% | 1.272% |
| 73 | 7.335 | 2195 | 2199 | 2201 | rBV2 | 862368  | 669284  | 9.52%  | 0.609% |
| 74 | 7.381 | 2210 | 2215 | 2218 | rBV2 | 1077479 | 951923  | 13.54% | 0.866% |
| 75 | 7.469 | 2242 | 2246 | 2254 | rVB3 | 460749  | 444363  | 6.32%  | 0.404% |
| 76 | 7.520 | 2256 | 2264 | 2270 | rBV  | 5398021 | 4656973 | 66.24% | 4.238% |
| 77 | 7.733 | 2332 | 2339 | 2351 | rVB  | 2660506 | 3215160 | 45.73% | 2.926% |
| 78 | 7.778 | 2351 | 2355 | 2358 | rBV5 | 420085  | 386402  | 5.50%  | 0.352% |
| 79 | 7.844 | 2375 | 2378 | 2382 | rBV  | 323588  | 223902  | 3.18%  | 0.204% |
| 80 | 7.889 | 2390 | 2394 | 2399 | rBV3 | 395721  | 302265  | 4.30%  | 0.275% |
| 81 | 7.957 | 2413 | 2418 | 2419 | rBV2 | 495540  | 350948  | 4.99%  | 0.319% |
| 82 | 7.980 | 2420 | 2426 | 2436 | rVB2 | 4261957 | 6178851 | 87.89% | 5.623% |
| 83 | 8.062 | 2450 | 2455 | 2462 | rVB4 | 660752  | 621617  | 8.84%  | 0.566% |
| 84 | 8.250 | 2517 | 2521 | 2524 | rBV  | 468116  | 387854  | 5.52%  | 0.353% |
| 85 | 8.389 | 2564 | 2570 | 2573 | rBV  | 1498497 | 1304646 | 18.56% | 1.187% |
| 86 | 8.409 | 2573 | 2577 | 2582 | rVV  | 2964230 | 2377144 | 33.81% | 2.163% |
| 87 | 8.438 | 2582 | 2587 | 2593 | rVB  | 1497589 | 1332002 | 18.95% | 1.212% |
| 88 | 8.705 | 2677 | 2681 | 2688 | rVB4 | 429229  | 366940  | 5.22%  | 0.334% |
| 89 | 8.776 | 2702 | 2706 | 2716 | rVB4 | 396573  | 466304  | 6.63%  | 0.424% |
| 90 | 8.821 | 2717 | 2722 | 2729 | rVV  | 1546246 | 1258209 | 17.90% | 1.145% |
| 91 | 8.881 | 2739 | 2743 | 2748 | rBV  | 303520  | 251089  | 3.57%  | 0.228% |

# LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 92  | 8.906  | 2749 | 2752 | 2760 | rVB  | 299948  | 242793  | 3.45%  | 0.221% |
| 93  | 8.980  | 2774 | 2778 | 2782 | rBV3 | 282822  | 243854  | 3.47%  | 0.222% |
| 94  | 9.216  | 2856 | 2861 | 2869 | rVB  | 760616  | 626156  | 8.91%  | 0.570% |
| 95  | 9.418  | 2929 | 2932 | 2937 | rVB  | 139076  | 101270  | 1.44%  | 0.092% |
| 96  | 9.489  | 2953 | 2957 | 2964 | rBV3 | 188015  | 173641  | 2.47%  | 0.158% |
| 97  | 9.594  | 2988 | 2994 | 3000 | rBV  | 354113  | 316790  | 4.51%  | 0.288% |
| 98  | 9.955  | 3116 | 3121 | 3128 | rVB2 | 324312  | 268796  | 3.82%  | 0.245% |
| 99  | 10.989 | 3477 | 3485 | 3501 | rVB2 | 1151014 | 1244466 | 17.70% | 1.132% |
| 100 | 12.847 | 4127 | 4139 | 4152 | rBV2 | 905229  | 1333582 | 18.97% | 1.214% |

Sum of corrected areas: 109890956

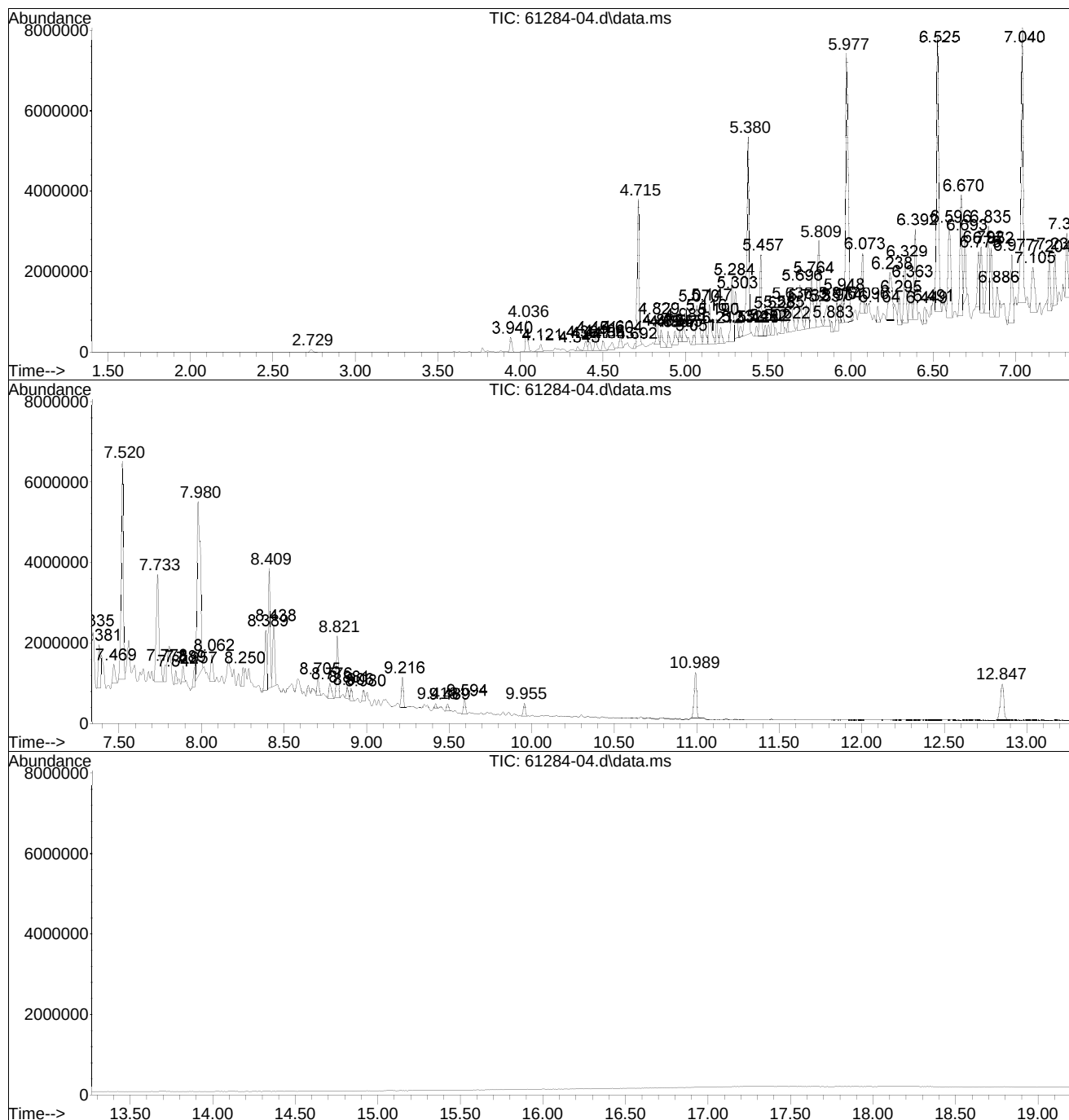


# LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

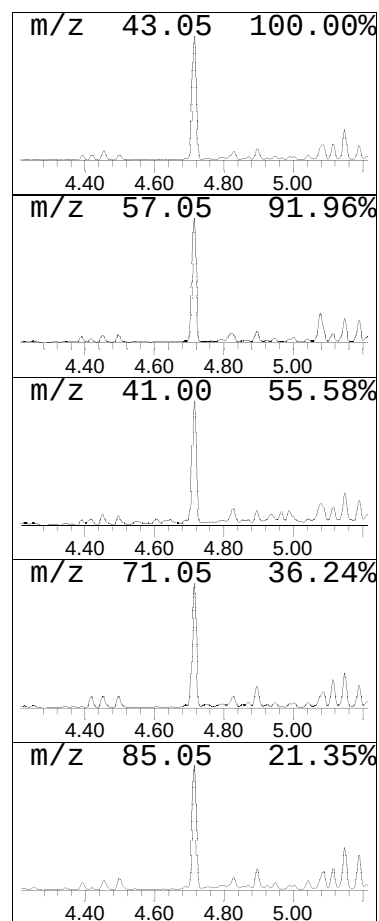
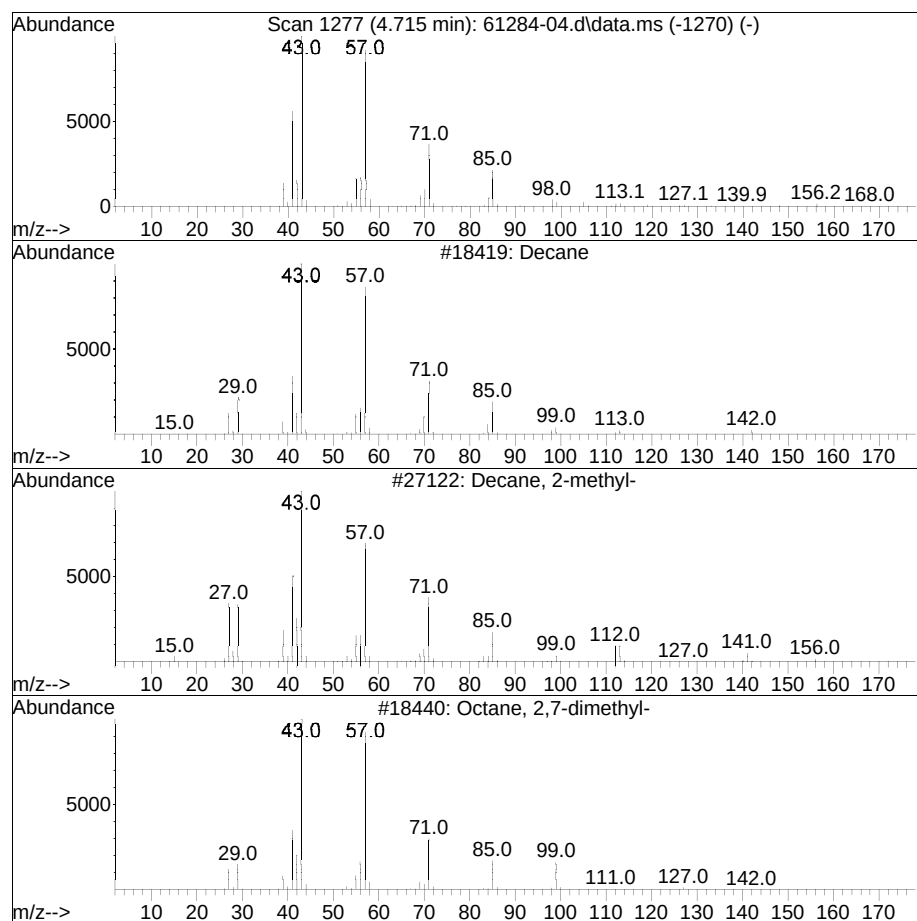
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Unknown Alkane Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 4.715 | 74.41 ug/ml | 2879610 | IS1_Naphthalene-d8 | 5.284 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Decane                |              | 142 | C10H22  | 000124-18-5 | 83   |
| 2       | Decane, 2-methyl-     |              | 156 | C11H24  | 006975-98-0 | 72   |
| 3       | Octane, 2,7-dimethyl- |              | 142 | C10H22  | 001072-16-8 | 59   |
| 4       | Undecane              |              | 156 | C11H24  | 001120-21-4 | 58   |
| 5       | Decane, 5-methyl-     |              | 156 | C11H24  | 013151-35-4 | 58   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

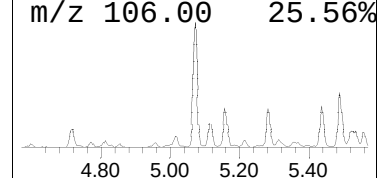
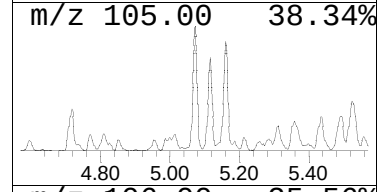
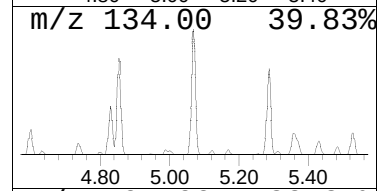
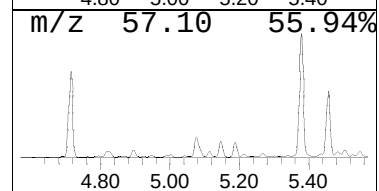
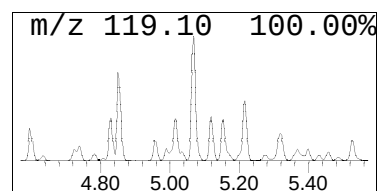
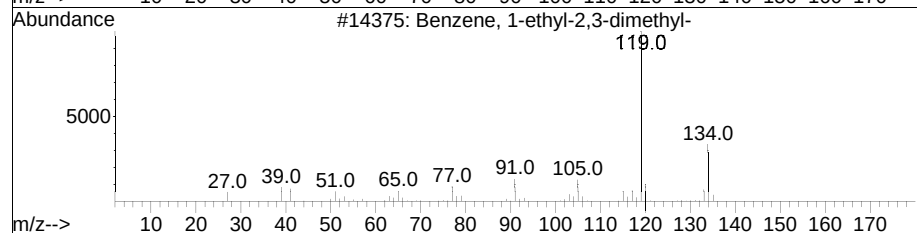
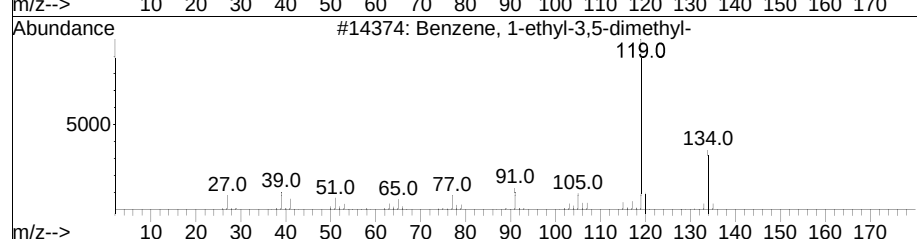
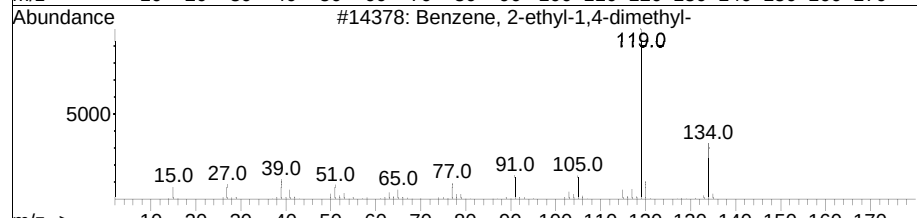
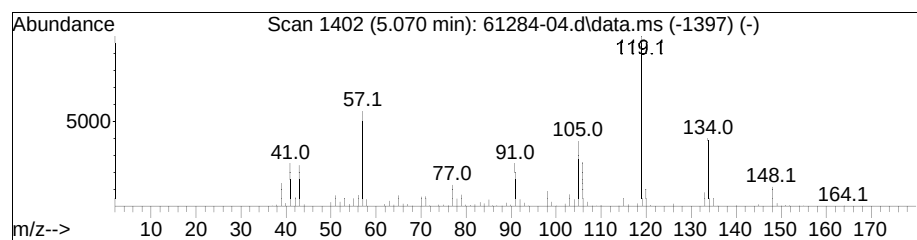
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Unknown Benzene Concentration Rank 14

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.070 | 35.60 ug/ml | 1377800 | IS1_Naphthalene-d8 | 5.284 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Benzene, 2-ethyl-1,4-dimethyl-      | 134 | C10H14  | 001758-88-9 | 80   |
| 2       |   | Benzene, 1-ethyl-3,5-dimethyl-      | 134 | C10H14  | 000934-74-7 | 80   |
| 3       |   | Benzene, 1-ethyl-2,3-dimethyl-      | 134 | C10H14  | 000933-98-2 | 80   |
| 4       |   | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14  | 000527-84-4 | 76   |
| 5       |   | Benzene, tert-butyl-                | 134 | C10H14  | 000098-06-6 | 76   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

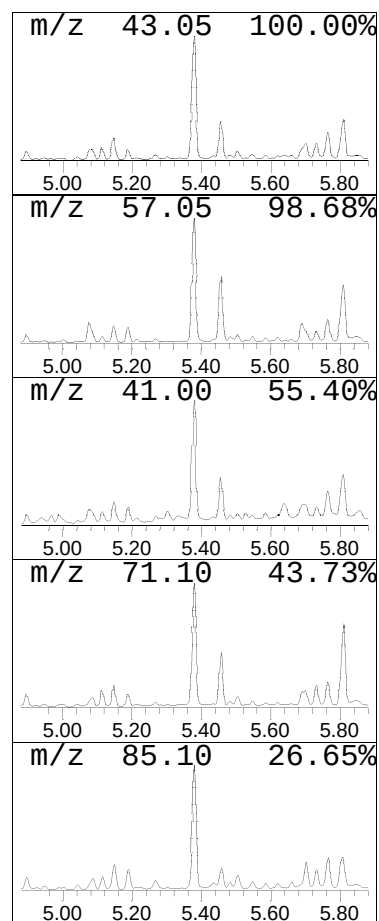
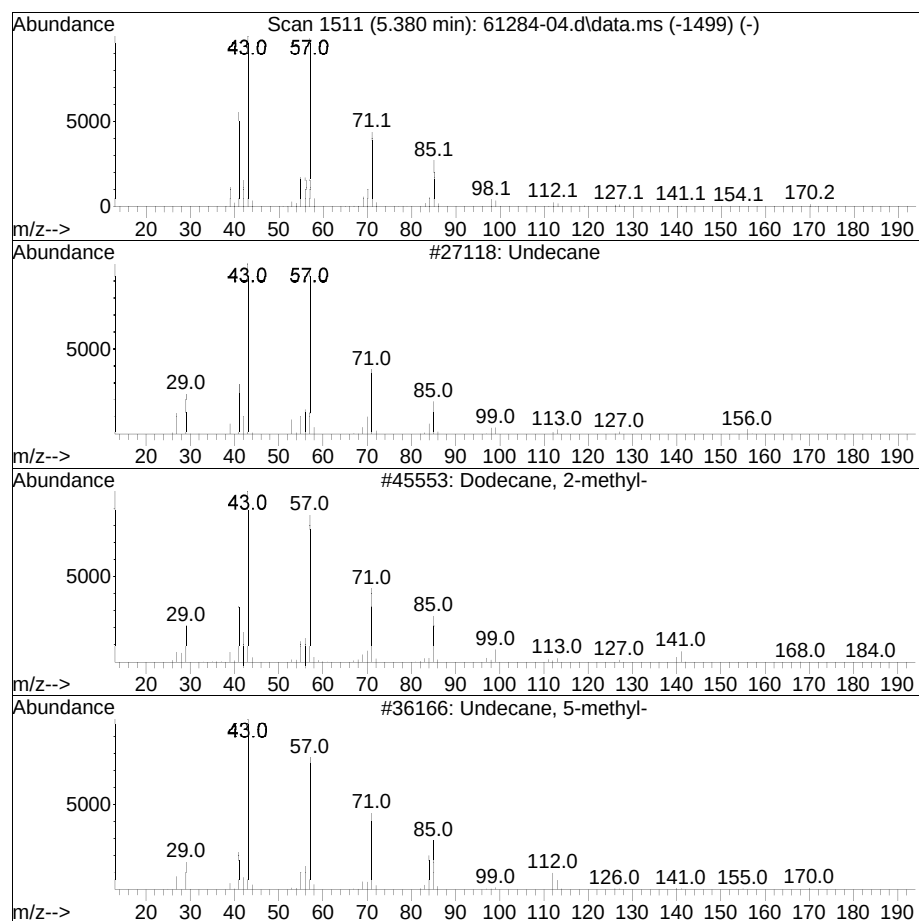
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Unknown Alkane Concentration Rank 3

| R.T.  | EstConc      | Area    | Relative to ISTD   | R.T.  |
|-------|--------------|---------|--------------------|-------|
| 5.380 | 112.64 ug/ml | 4359230 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane               |              | 156 | C11H24  | 001120-21-4 | 78   |
| 2       | Dodecane, 2-methyl-    |              | 184 | C13H28  | 001560-97-0 | 72   |
| 3       | Undecane, 5-methyl-    |              | 170 | C12H26  | 001632-70-8 | 72   |
| 4       | Undecane, 2-methyl-    |              | 170 | C12H26  | 007045-71-8 | 72   |
| 5       | Heptane, 3,4-dimethyl- |              | 128 | C9H20   | 000922-28-1 | 72   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

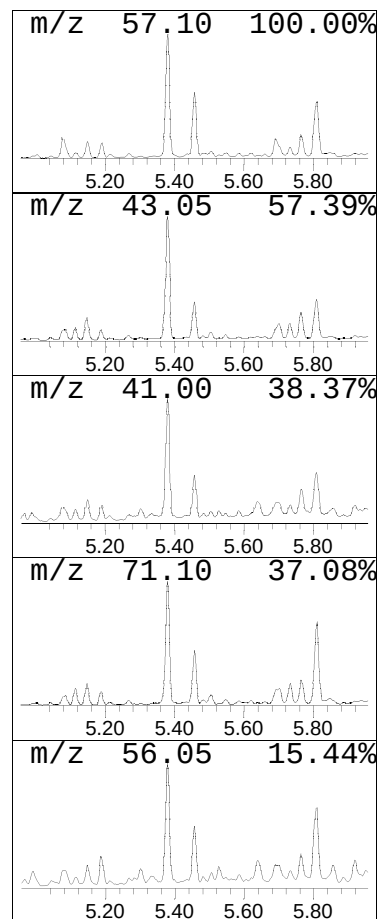
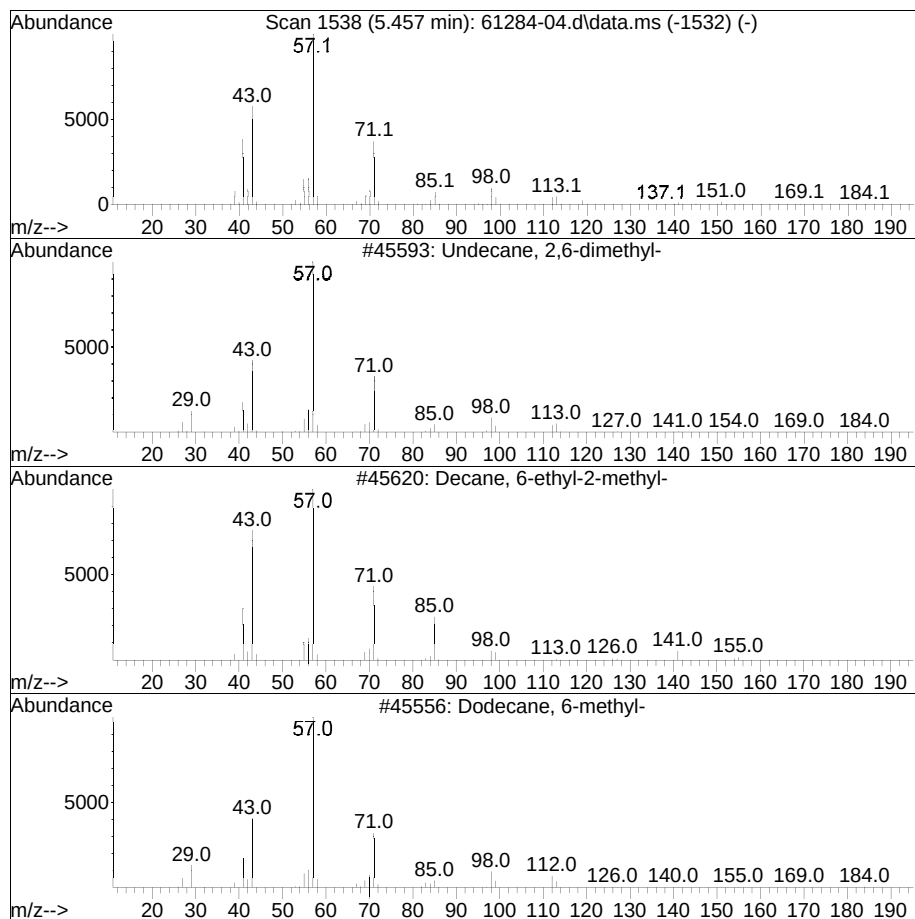
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Unknown Alkane Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.457 | 41.50 ug/ml | 1606160 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                         | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|---------------------------|--------------|--------|-------------|------|------|
| 1       | Undecane, 2,6-dimethyl-   | 184          | C13H28 | 017301-23-4 | 95   |      |
| 2       | Decane, 6-ethyl-2-methyl- | 184          | C13H28 | 062108-21-8 | 64   |      |
| 3       | Dodecane, 6-methyl-       | 184          | C13H28 | 006044-71-9 | 64   |      |
| 4       | Undecane, 2,5-dimethyl-   | 184          | C13H28 | 017301-22-3 | 58   |      |
| 5       | Undecane, 3,5-dimethyl-   | 184          | C13H28 | 017312-81-1 | 52   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

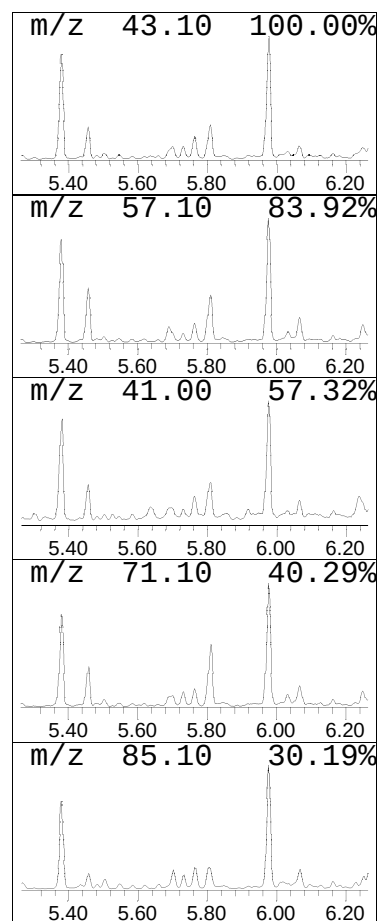
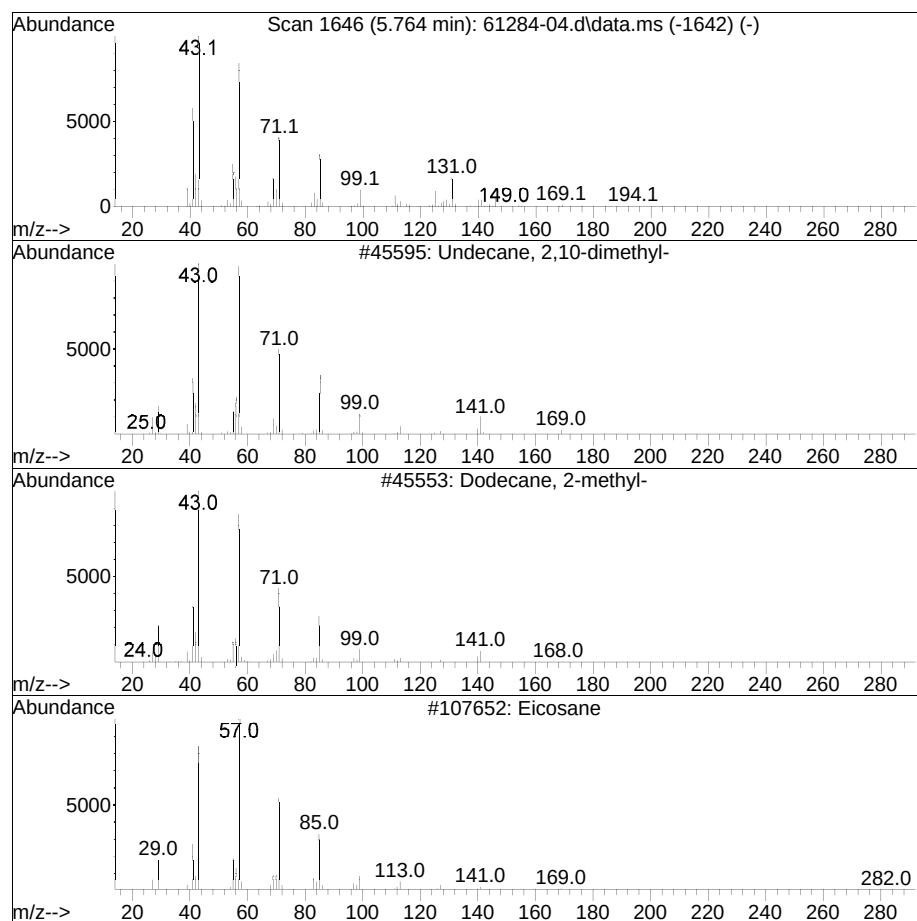
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Unknown Alkane Concentration Rank 12

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.764 | 37.25 ug/ml | 1441690 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                        | Tentative ID | MW      | MolForm     | CAS# | Qual |
|---------|--------------------------|--------------|---------|-------------|------|------|
| 1       | Undecane, 2,10-dimethyl- | 184          | C13H28  | 017301-27-8 | 89   |      |
| 2       | Dodecane, 2-methyl-      | 184          | C13H28  | 001560-97-0 | 64   |      |
| 3       | Eicosane                 | 282          | C20H42  | 000112-95-8 | 58   |      |
| 4       | Tetradecane, 1-iodo-     | 324          | C14H29I | 019218-94-1 | 58   |      |
| 5       | Heptane, 3,4-dimethyl-   | 128          | C9H20   | 000922-28-1 | 53   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

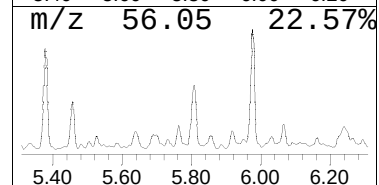
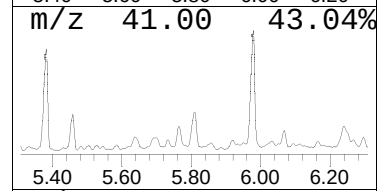
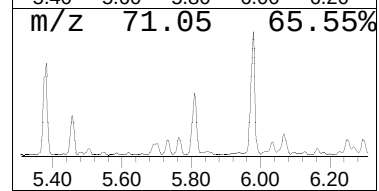
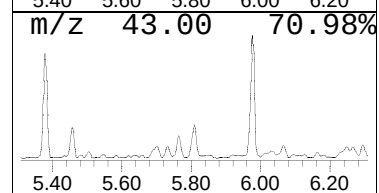
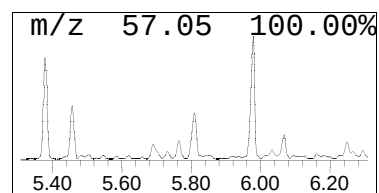
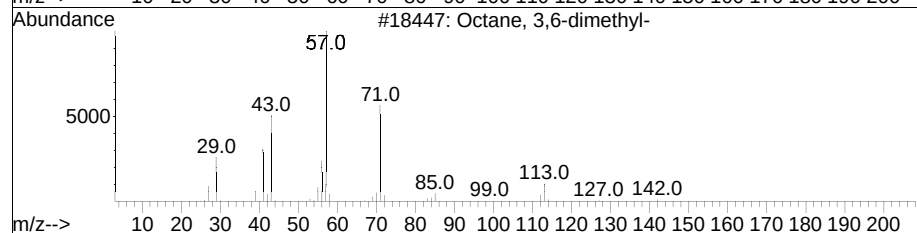
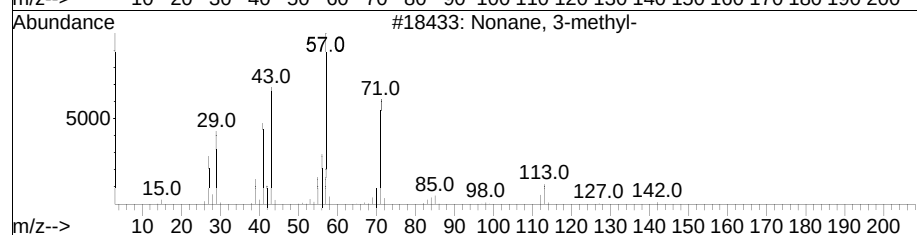
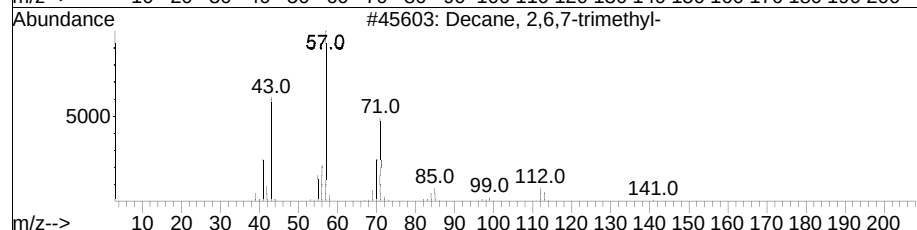
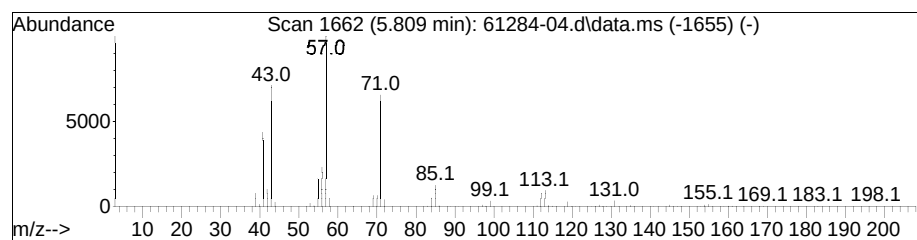
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Unknown Alkane Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.809 | 57.71 ug/ml | 2233490 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                        | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|--------------------------|--------------|--------|-------------|------|------|
| 1       | Decane, 2,6,7-trimethyl- | 184          | C13H28 | 062108-25-2 | 90   |      |
| 2       | Nonane, 3-methyl-        | 142          | C10H22 | 005911-04-6 | 72   |      |
| 3       | Octane, 3,6-dimethyl-    | 142          | C10H22 | 015869-94-0 | 72   |      |
| 4       | Undecane, 3,6-dimethyl-  | 184          | C13H28 | 017301-28-9 | 64   |      |
| 5       | Decane, 2,4-dimethyl-    | 170          | C12H26 | 002801-84-5 | 64   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

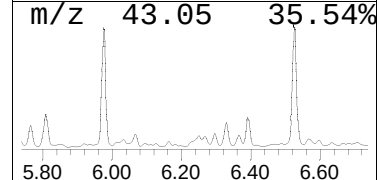
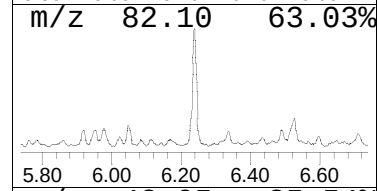
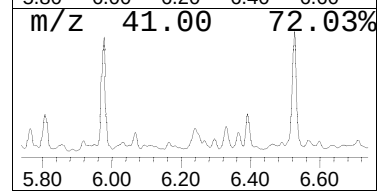
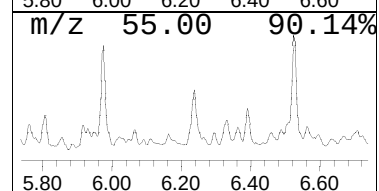
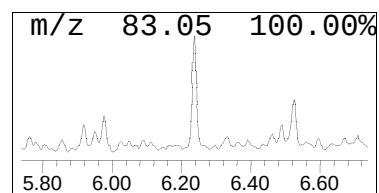
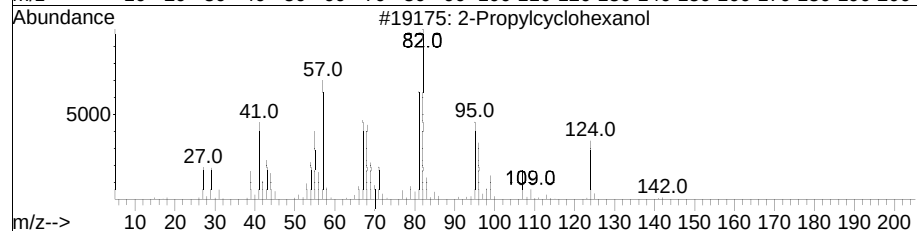
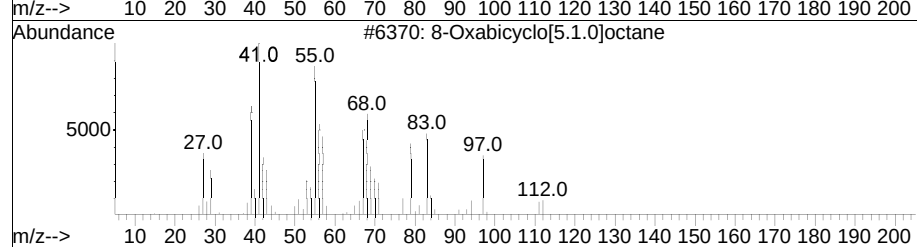
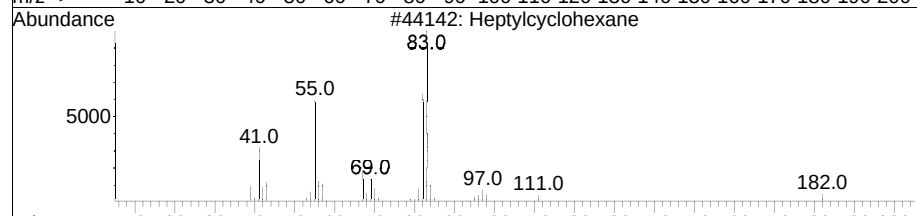
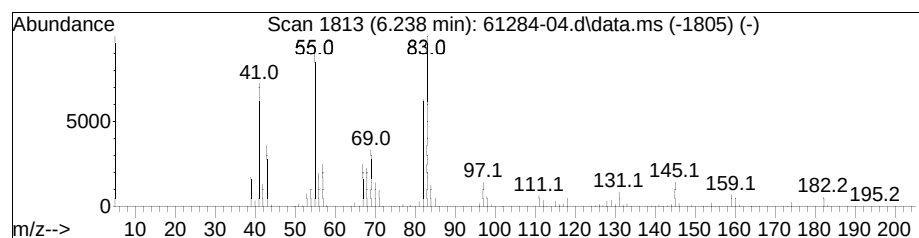
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Unknown Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.238 | 44.10 ug/ml | 1787550 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------|-----|---------|-------------|------|
| 1       |   | Heptylcyclohexane         | 182 | C13H26  | 005617-41-4 | 68   |
| 2       |   | 8-Oxabicyclo[5.1.0]octane | 112 | C7H12O  | 000286-45-3 | 30   |
| 3       |   | 2-Propylcyclohexanol      | 142 | C9H18O  | 090676-25-8 | 25   |
| 4       |   | 4-Tridecene, (Z)-         | 182 | C13H26  | 041446-54-2 | 20   |
| 5       |   | 5-Tridecene, (E)-         | 182 | C13H26  | 023051-84-5 | 18   |





## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

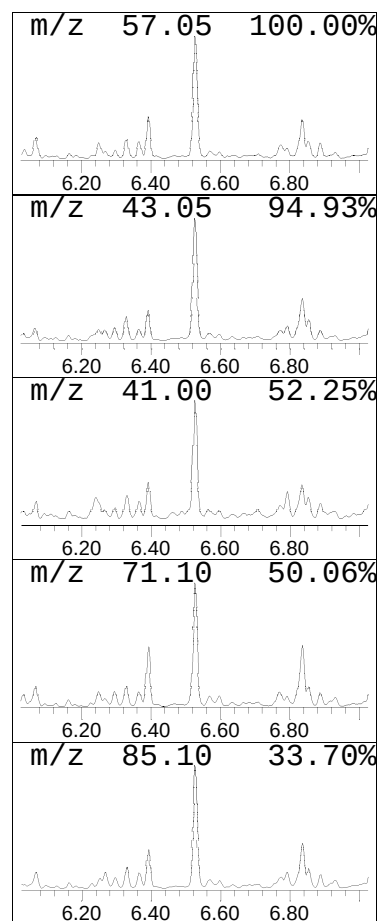
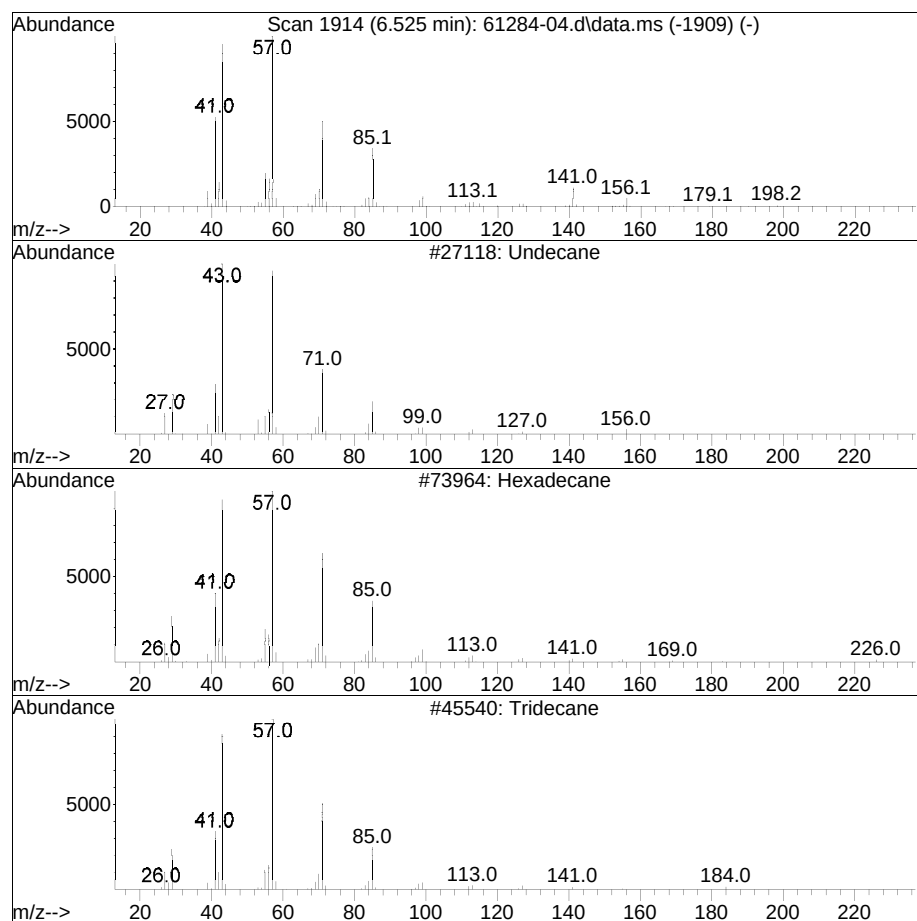
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Unknown Alkane Concentration Rank 2

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 6.525 | 152.33 ug/ml | 6175270 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane                 |              | 156 | C11H24  | 001120-21-4 | 93   |
| 2       | Hexadecane               |              | 226 | C16H34  | 000544-76-3 | 87   |
| 3       | Tridecane                |              | 184 | C13H28  | 000629-50-5 | 80   |
| 4       | Tridecane, 2-methyl-     |              | 198 | C14H30  | 001560-96-9 | 74   |
| 5       | Decane, 2,3,5-trimethyl- |              | 184 | C13H28  | 062238-11-3 | 72   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

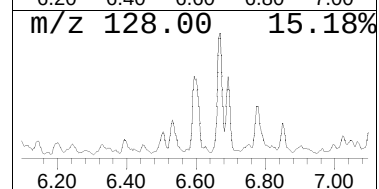
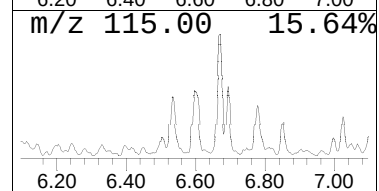
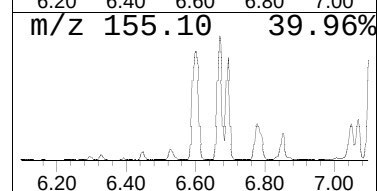
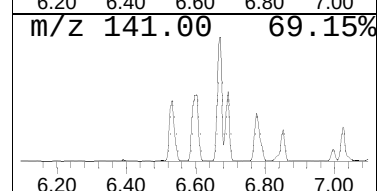
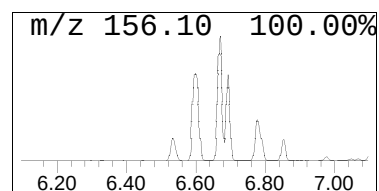
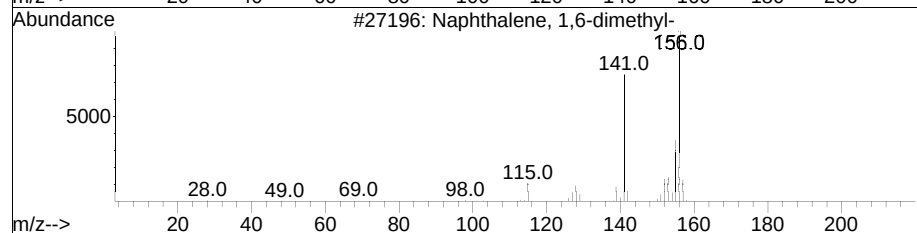
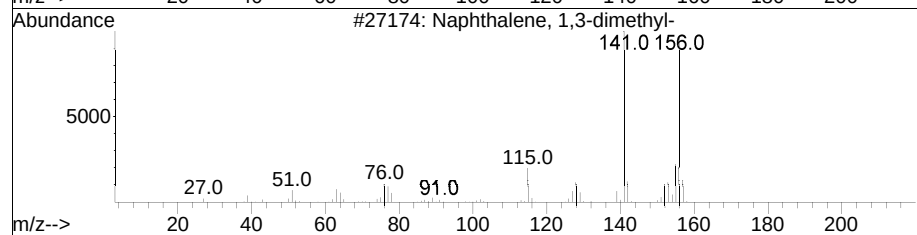
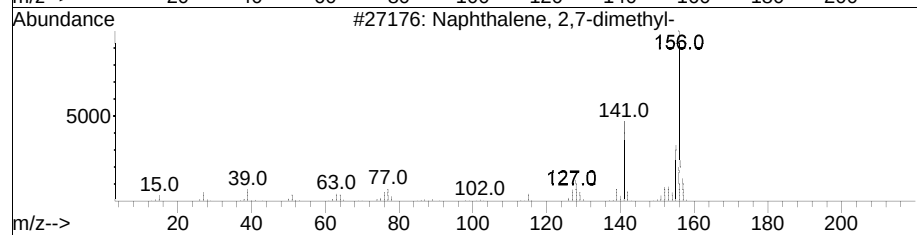
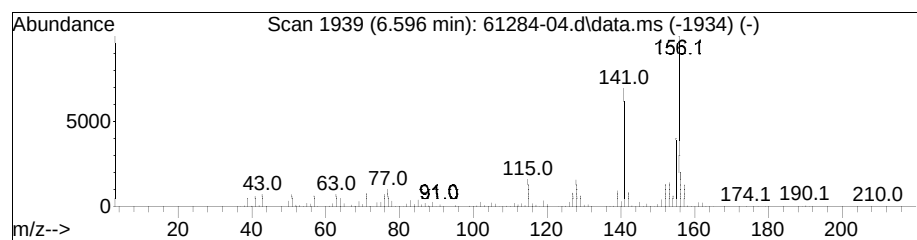
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Unknown Naphthalene Concentration Rank 6

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.596 | 63.85 ug/ml | 2588170 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 2,7-dimethyl- | 156          | C12H12 | 000582-16-1 | 97   |      |
| 2       | Naphthalene, 1,3-dimethyl- | 156          | C12H12 | 000575-41-7 | 96   |      |
| 3       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 96   |      |
| 4       | Naphthalene, 1,7-dimethyl- | 156          | C12H12 | 000575-37-1 | 96   |      |
| 5       | Naphthalene, 2,6-dimethyl- | 156          | C12H12 | 000581-42-0 | 95   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

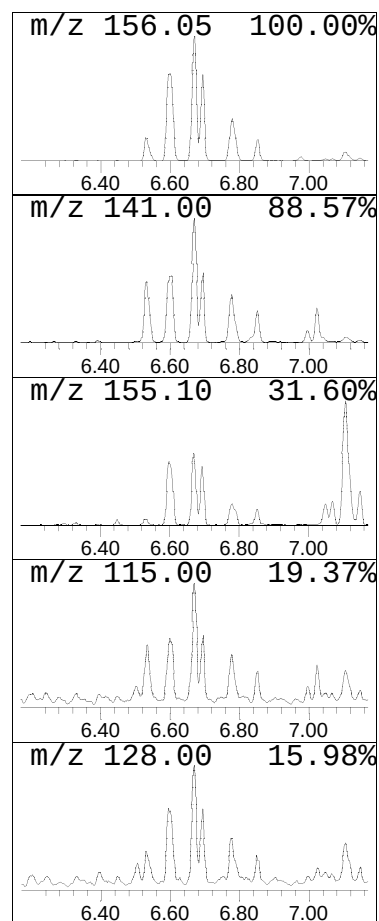
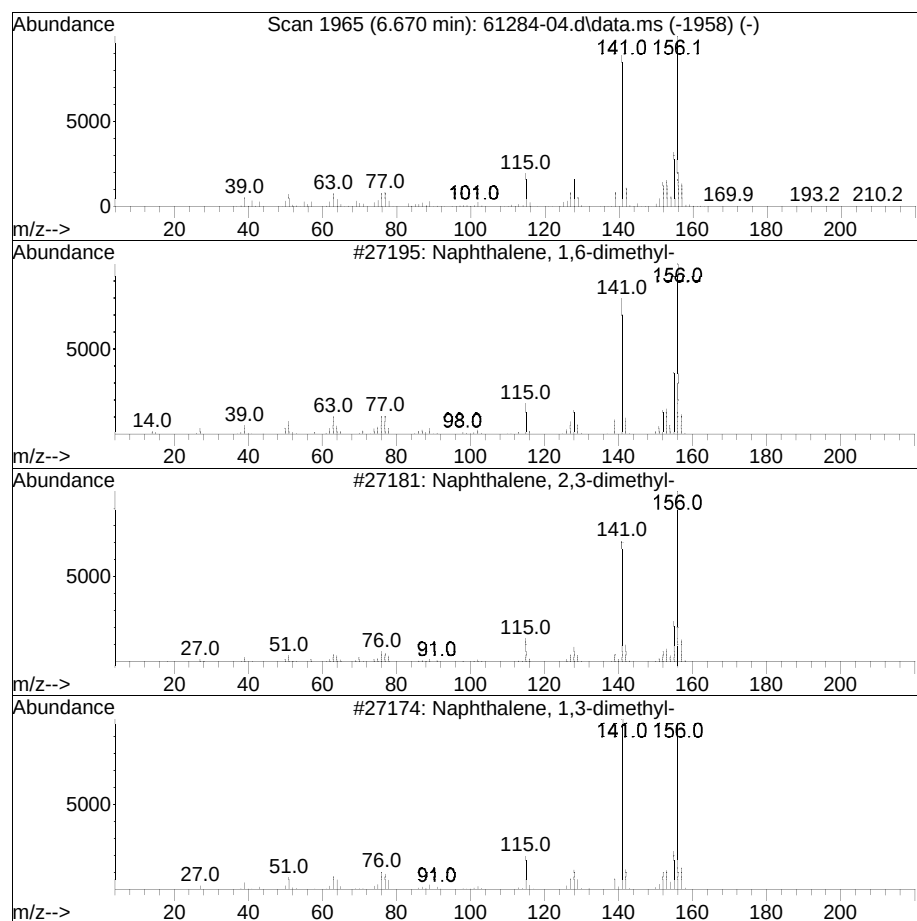
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Unknown Naphthalene Concentration Rank 5

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.670 | 68.11 ug/ml | 2761010 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 2       |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 3       |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 4       |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 5       |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 94   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

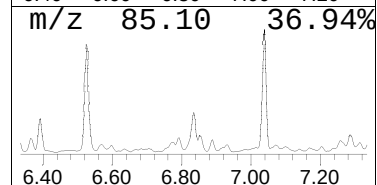
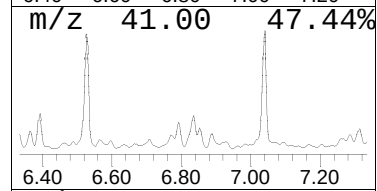
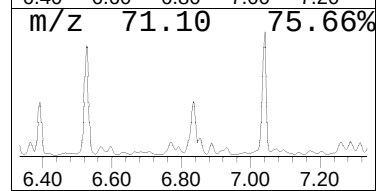
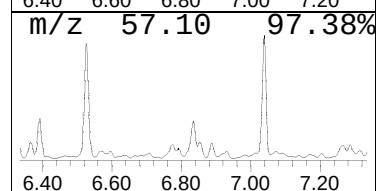
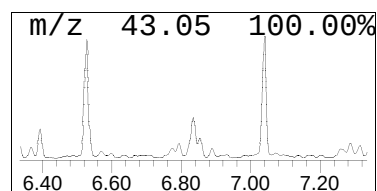
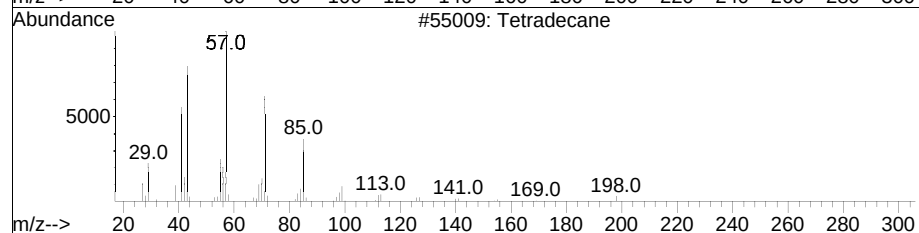
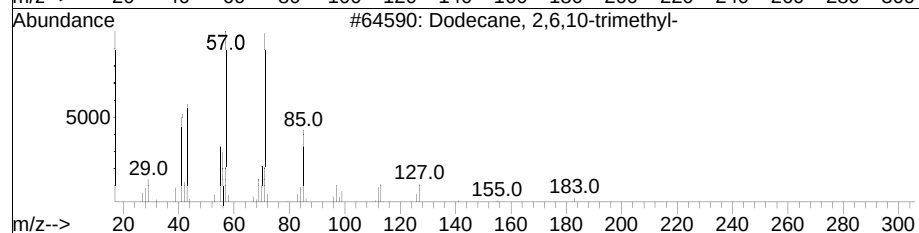
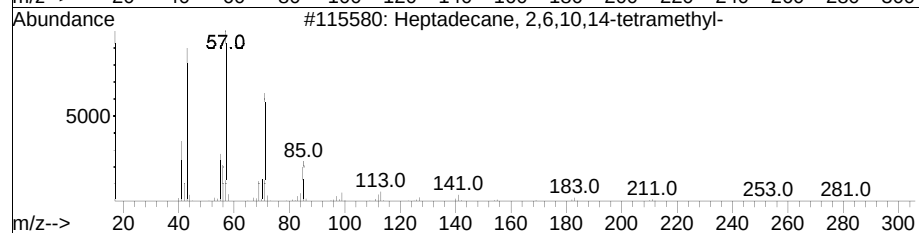
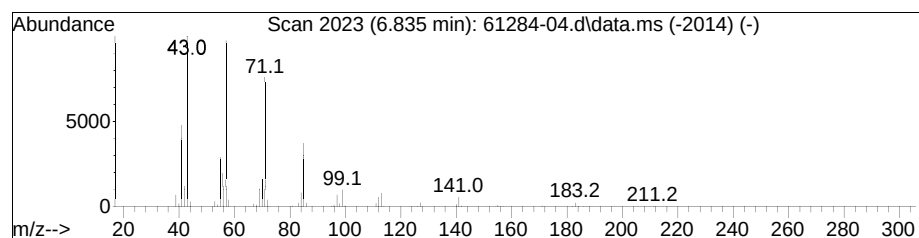
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Unknown Alkane Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.835 | 57.38 ug/ml | 2326100 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                                   | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|--------|-------------|------|------|
| 1       | Heptadecane, 2,6,10,14-tetramethyl- | 296          | C21H44 | 018344-37-1 | 91   |      |
| 2       | Dodecane, 2,6,10-trimethyl-         | 212          | C15H32 | 003891-98-3 | 90   |      |
| 3       | Tetradecane                         | 198          | C14H30 | 000629-59-4 | 90   |      |
| 4       | Heptadecane, 2,6-dimethyl-          | 268          | C19H40 | 054105-67-8 | 87   |      |
| 5       | Eicosane                            | 282          | C20H42 | 000112-95-8 | 86   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

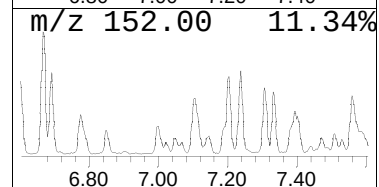
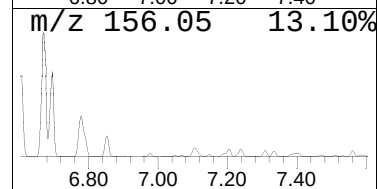
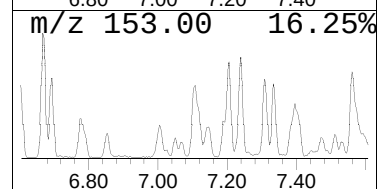
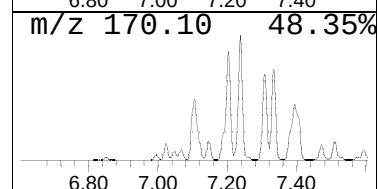
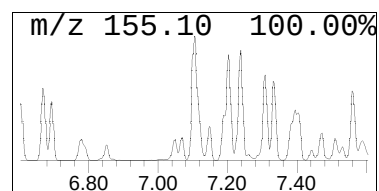
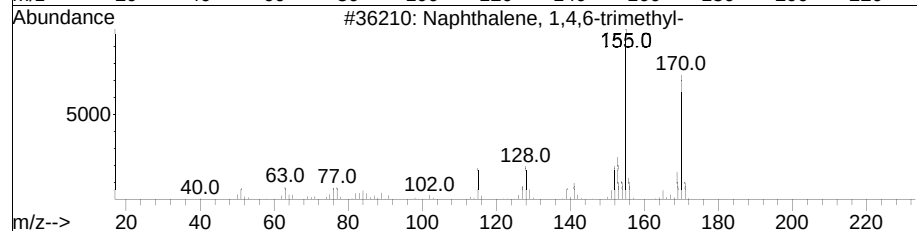
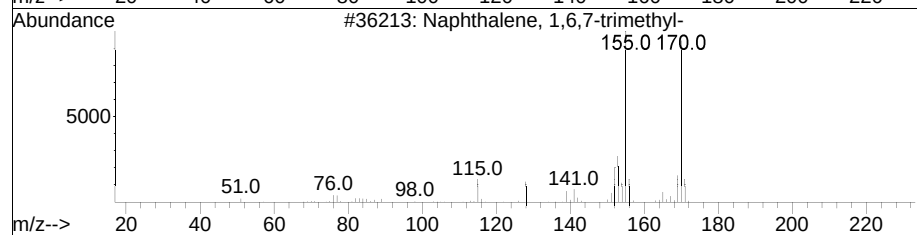
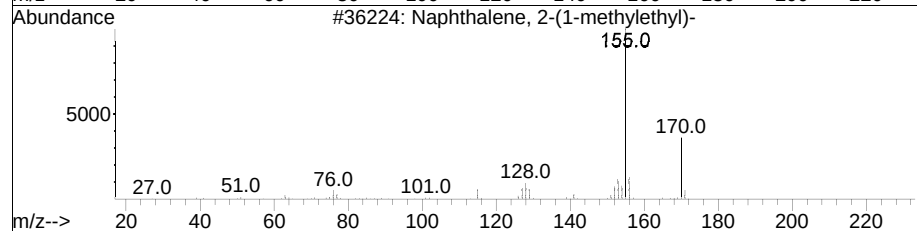
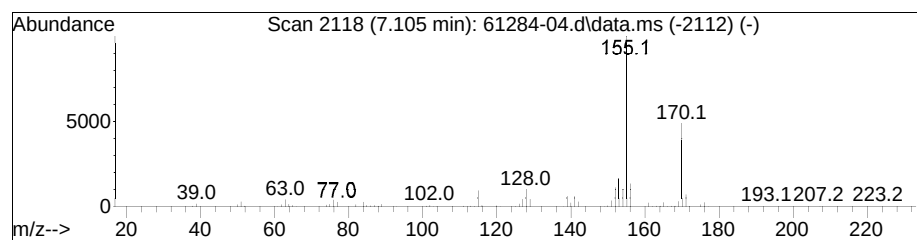
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Unknown Naphthalene Concentration Rank 13

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 7.105 | 36.94 ug/ml | 1497310 | IS3_Acenaphthene-d10 | 6.977 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0 | 91   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7 | 89   |
| 3    |    |   | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2 | 89   |
| 4    |    |   | 1'-Acetonaphthone               | 170 | C12H10O | 000941-98-0 | 72   |
| 5    |    |   | 2-Naphthyl methyl ketone        | 170 | C12H10O | 000093-08-3 | 64   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytccl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

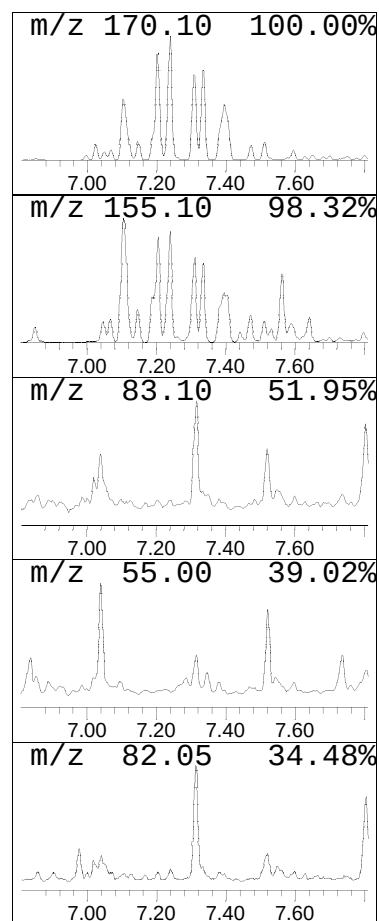
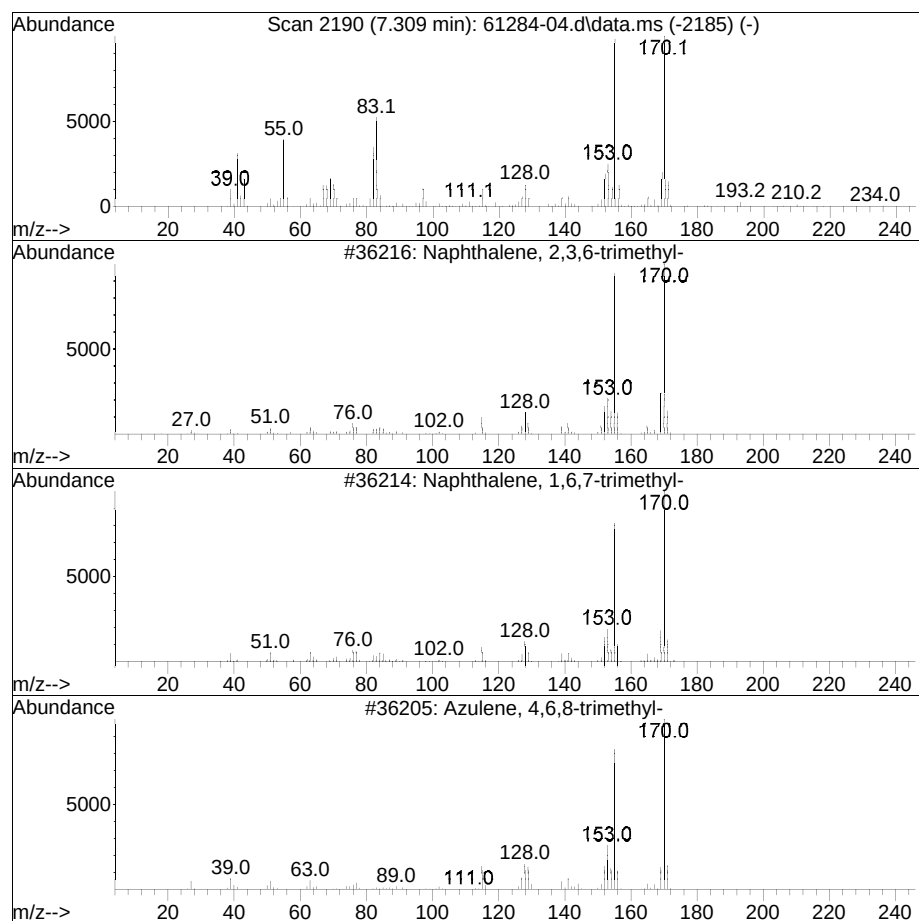
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Unknown PAH Concentration Rank 15

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 7.309 | 34.49 ug/ml | 1398190 | IS3_Acenaphthene-d10 | 6.977 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 97   |
| 2    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 97   |
| 3    |    |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14  | 000941-81-1  | 83   |
| 4    |    |   | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 64   |
| 5    |    |   | 3-(2-Methyl-propenyl)-1H-indene     | 170 | C13H14  | 1000187-78-5 | 59   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

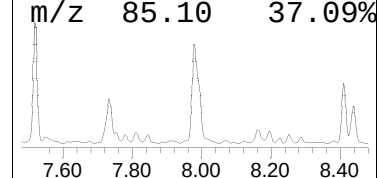
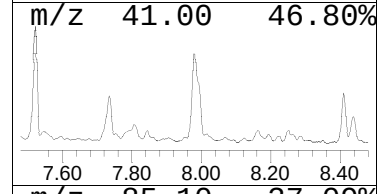
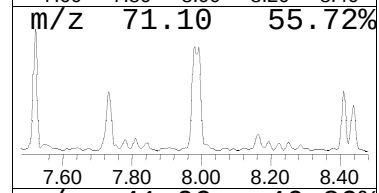
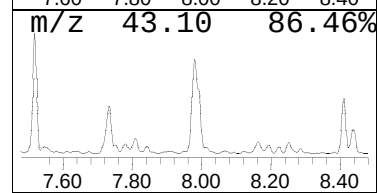
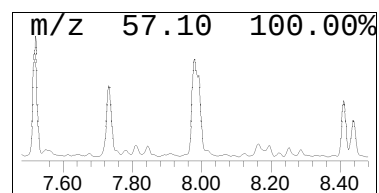
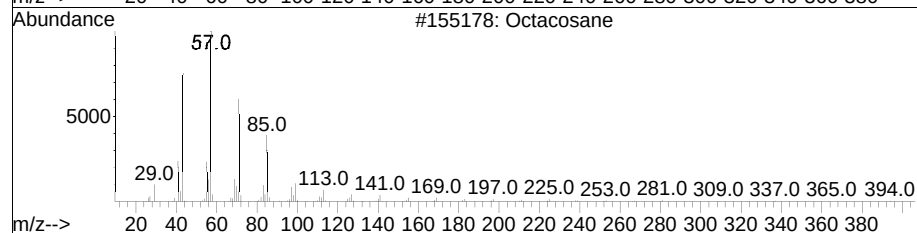
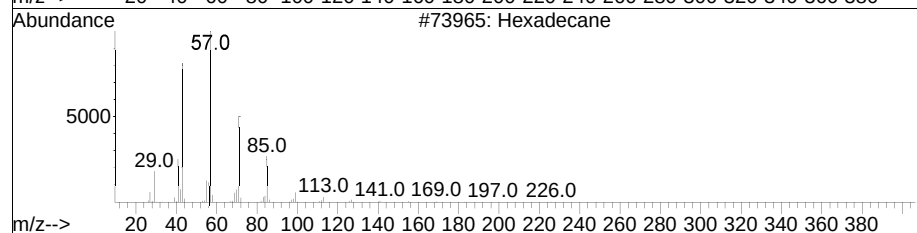
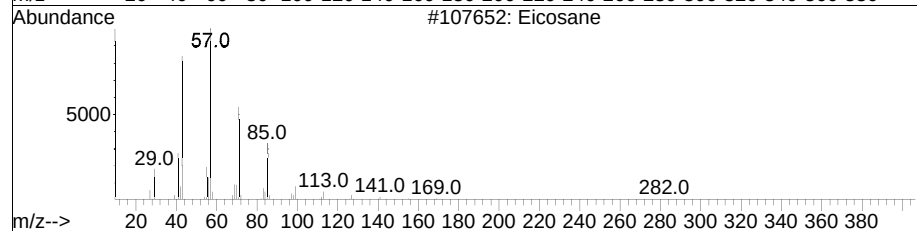
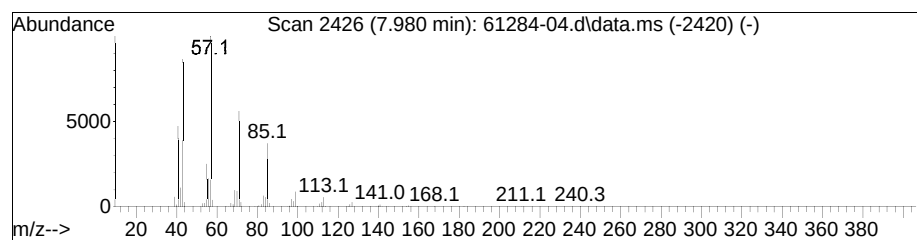
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Unknown Alkane Concentration Rank 1

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 7.980 | 189.44 ug/ml | 6178850 | IS1_Phenanthrene-d10 | 8.389 |

| Hit# of | 5          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane   |              | 282 | C20H42  | 000112-95-8 | 91   |
| 2       | Hexadecane |              | 226 | C16H34  | 000544-76-3 | 91   |
| 3       | Octacosane |              | 394 | C28H58  | 000630-02-4 | 90   |
| 4       | Nonadecane |              | 268 | C19H40  | 000629-92-5 | 87   |
| 5       | Tridecane  |              | 184 | C13H28  | 000629-50-5 | 86   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-04.d  
Acq On : 26 Dec 2019 6:23 pm  
Operator : SV103:ek  
Sample : l1961284-04d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 18 Sample Multiplier: 1

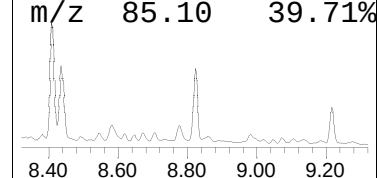
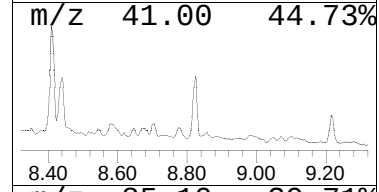
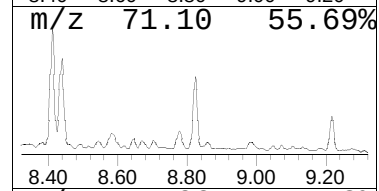
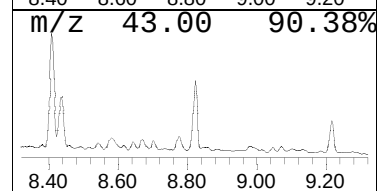
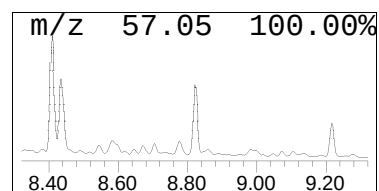
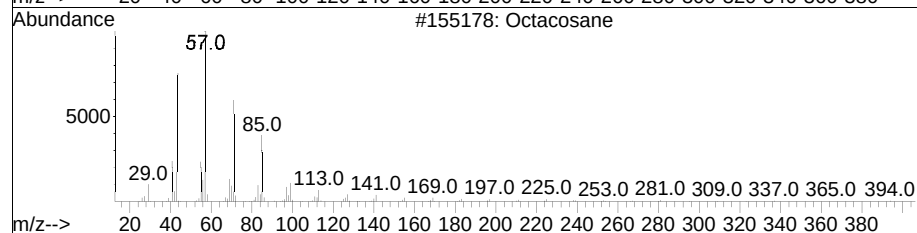
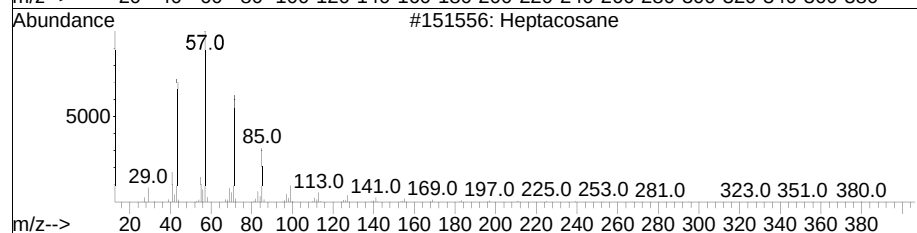
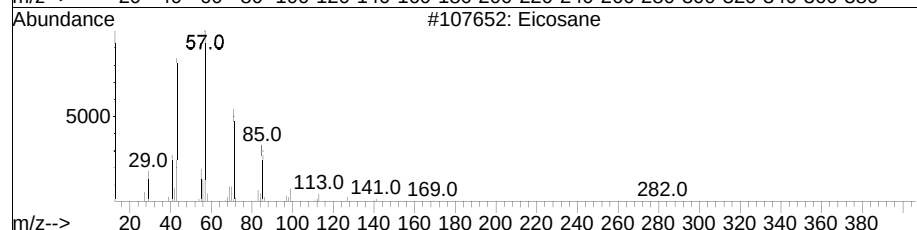
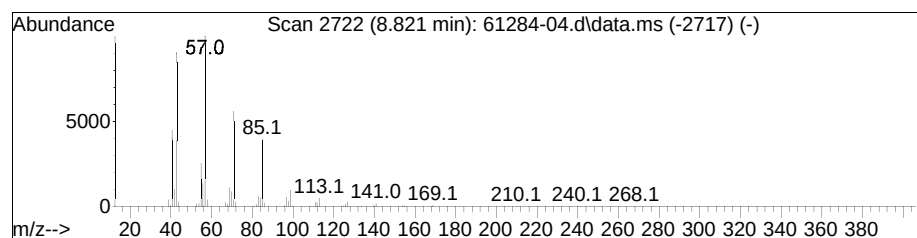
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Unknown Alkane Concentration Rank 11

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 8.821 | 38.58 ug/ml | 1258210 | IS3_Phenanthrene-d10 | 8.389 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 91   |
| 2       | Heptacosane |              | 380 | C27H56  | 000593-49-7 | 90   |
| 3       | Octacosane  |              | 394 | C28H58  | 000630-02-4 | 90   |
| 4       | Nonadecane  |              | 268 | C19H40  | 000629-92-5 | 87   |
| 5       | Pentadecane |              | 212 | C15H32  | 000629-62-9 | 86   |





# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-04.d  
 Acq On : 26 Dec 2019 6:23 pm  
 Operator : SV103:ek  
 Sample : l1961284-04d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name |            | RT    | EstConc | Units | Response | --Internal<br># | Standard<br>RT | Standard<br>Resp | Standard<br>Conc |
|------------------|------------|-------|---------|-------|----------|-----------------|----------------|------------------|------------------|
| Unknown          | Alkane     | 4.715 | 74.4    | ug/ml | 2879610  | 4               | 5.284          | 1548050          | 40.0             |
| Unknown          | Benzene    | 5.070 | 35.6    | ug/ml | 1377800  | 4               | 5.284          | 1548050          | 40.0             |
| Unknown          | Alkane     | 5.380 | 112.6   | ug/ml | 4359230  | 5               | 5.284          | 1548050          | 40.0             |
| Unknown          | Alkane     | 5.457 | 41.5    | ug/ml | 1606160  | 5               | 5.284          | 1548050          | 40.0             |
| Unknown          | Alkane     | 5.764 | 37.3    | ug/ml | 1441690  | 5               | 5.284          | 1548050          | 40.0             |
| Unknown          | Alkane     | 5.809 | 57.7    | ug/ml | 2233490  | 5               | 5.284          | 1548050          | 40.0             |
| Unknown          |            | 6.238 | 44.1    | ug/ml | 1787550  | 6               | 6.977          | 1621520          | 40.0             |
| Unknown          | Alkane     | 6.525 | 152.3   | ug/ml | 6175270  | 6               | 6.977          | 1621520          | 40.0             |
| Unknown          | Naphtha... | 6.596 | 63.8    | ug/ml | 2588170  | 6               | 6.977          | 1621520          | 40.0             |
| Unknown          | Naphtha... | 6.670 | 68.1    | ug/ml | 2761010  | 6               | 6.977          | 1621520          | 40.0             |
| Unknown          | Alkane     | 6.835 | 57.4    | ug/ml | 2326100  | 6               | 6.977          | 1621520          | 40.0             |
| Unknown          | Naphtha... | 7.105 | 36.9    | ug/ml | 1497310  | 8               | 6.977          | 1621520          | 40.0             |
| Unknown          | PAH        | 7.309 | 34.5    | ug/ml | 1398190  | 8               | 6.977          | 1621520          | 40.0             |
| Unknown          | Alkane     | 7.980 | 189.4   | ug/ml | 6178850  | 9               | 8.389          | 1304650          | 40.0             |
| Unknown          | Alkane     | 8.821 | 38.6    | ug/ml | 1258210  | 11              | 8.389          | 1304650          | 40.0             |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d, 32, 5, nytcl, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 06:52:59 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|---------|----------|
| Internal Standards            |                |      |          |        |         |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.036          | 152  | 106617   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 124940      |                |      | Recovery | =      | 85.33%  |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.036          | 152  | 106617   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 107713      |                |      | Recovery | =      | 98.98%  |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.036          | 152  | 106617   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 117782      |                |      | Recovery | =      | 90.52%  |          |
| 35) IS1_Naphthalene-d8        | 5.284          | 136  | 447164   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 510434      |                |      | Recovery | =      | 87.60%  |          |
| 55) IS2_Naphthalene-d8        | 5.284          | 136  | 447164   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 448385      |                |      | Recovery | =      | 99.73%  |          |
| 63) IS1_Acenaphthene-d10      | 6.977          | 164  | 257851   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 284683      |                |      | Recovery | =      | 90.57%  |          |
| 83) IS2_Acenaphthene-d10      | 6.977          | 164  | 257851   | 40.000 | ug/ml   | 0.00     |
| Standard Area 3 = 253761      |                |      | Recovery | =      | 101.61% |          |
| 86) IS3_Acenaphthene-d10      | 6.977          | 164  | 257851   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 268914      |                |      | Recovery | =      | 95.89%  |          |
| 88) IS1_Phenanthrene-d10      | 8.387          | 188  | 499294   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 550424      |                |      | Recovery | =      | 90.71%  |          |
| 100) IS3_Phenanthrene-d10     | 8.387          | 188  | 499294   | 40.000 | ug/ml   | 0.00     |
| Standard Area 2 = 514565      |                |      | Recovery | =      | 97.03%  |          |
| 104) IS1_Chrysene-d12         | 10.989         | 240  | 438813   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 503667      |                |      | Recovery | =      | 87.12%  |          |
| 113) IS1_Perylene-d12         | 12.848         | 264  | 455930   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 526137      |                |      | Recovery | =      | 86.66%  |          |
| System Monitoring Compounds   |                |      |          |        |         |          |
| 4) 2-Fluorophenol             | 2.732          | 112  | 24411    | 8.522  | ug/ml   | 0.02     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 17.04%  |          |
| 7) Phenol-d6                  | 3.769          | 99   | 32668    | 9.094  | ug/ml   | 0.01     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 18.19%  |          |
| 19) Nitrobenzene-d5           | 4.602          | 82   | 16797    | 5.150  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 20.60%# |          |
| 46) 2-Fluorobiphenyl          | 6.361          | 172  | 34613    | 4.368  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 17.47%# |          |
| 79) 2,4,6-Tribromophenol      | 7.739          | 330  | 8660     | 7.366  | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 14.73%# |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d, 32, 5, nytcl, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 06:52:59 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| 96) 4-Terphenyl-d14           | 9.955  | 244   | 38749    | 4.484    | ug/ml | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 17.94%#  |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        | N.D.     |       |          |
| 8) Phenol                     | 0.000  |       | 0        | N.D.     |       |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        | N.D.     |       |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        | N.D.     |       |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        | N.D.     |       |          |
| 16) Hexachloroethane          | 0.000  |       | 0        | N.D.     | d     |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        | N.D.     | d     |          |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        | N.D.     |       |          |
| 20) Nitrobenzene              | 0.000  |       | 0        | N.D.     | d     |          |
| 21) Isophorone                | 0.000  |       | 0        | N.D.     | d     |          |
| 22) 2-Nitrophenol             | 0.000  |       | 0        | N.D.     | d     |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        | N.D.     | d     |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        | N.D.     | d     |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        | N.D.     | d     |          |
| 28) Benzaldehyde              | 0.000  |       | 0        | N.D.     | d     |          |
| 29) Acetophenone              | 0.000  |       | 0        | N.D.     | d     |          |
| 36) Naphthalene               | 5.304  | 128   | 191968M3 | 17.567   | ug/ml |          |
| 38) 4-Chloroaniline           | 0.000  |       | 0        | N.D.     | d     |          |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        | N.D.     |       |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        | N.D.     | d     |          |
| 41) 2-Methylnaphthalene       | 5.986  | 142   | 754311   | 99.567   | ug/ml | 98       |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        | N.D.     |       |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d     |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        | N.D.     | d     |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        | N.D.     | d     |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        | N.D.     | d     |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        | N.D.     | d     |          |
| 52) Acenaphthylene            | 0.000  |       | 0        | N.D.     | d     |          |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        | N.D.     | d     |          |
| 60) Caprolactam               | 0.000  |       | 0        | N.D.     | d     |          |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        | N.D.     |       |          |
| 62) Biphenyl                  | 6.449  | 154   | 106161   | 11.162   | ug/ml | 96       |
| 64) 3-Nitroaniline            | 0.000  |       | 0        | N.D.     | d     |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d, 32, 5, nytcl, rv, jt  
 Misc : wg1324867, wg1323715, ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 06:52:59 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                       | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 65) Acenaphthene               | 7.006 | 154  | 19088M3  | 2.733  | ug/ml  |          |
| 66) 2,4-Dinitrophenol          | 0.000 |      | 0        | N.D.   | d      |          |
| 67) Dibenzofuran               | 7.176 | 168  | 48613    | 4.710  | ug/ml# | 81       |
| 68) 2,4-Dinitrotoluene         | 0.000 |      | 0        | N.D.   | d      |          |
| 69) 4-Nitrophenol              | 0.000 |      | 0        | N.D.   | d      |          |
| 71) 2,3,4,6-Tetrachlorophenol  | 0.000 |      | 0        | N.D.   | d      |          |
| 72) Diethyl phthalate          | 0.000 |      | 0        | N.D.   | d      |          |
| 73) Fluorene                   | 7.503 | 166  | 53178M3  | 6.281  | ug/ml  |          |
| 74) 4-Chlorophenyl phenyl ...  | 0.000 |      | 0        | N.D.   | d      |          |
| 75) 4-Nitroaniline             | 0.000 |      | 0        | N.D.   | d      |          |
| 76) 4,6-Dinitro-o-cresol       | 0.000 |      | 0        | N.D.   | d      |          |
| 77) NDPA/DPA                   | 0.000 |      | 0        | N.D.   | d      |          |
| 80) 4-Bromophenyl phenyl e...  | 0.000 |      | 0        | N.D.   | d      |          |
| 81) Hexachlorobenzene          | 0.000 |      | 0        | N.D.   | d      |          |
| 82) Pentachlorophenol          | 0.000 |      | 0        | N.D.   | d      |          |
| 87) Atrazine                   | 0.000 |      | 0        | N.D.   | d      |          |
| 89) Phenanthrene               | 8.409 | 178  | 184438   | 14.257 | ug/ml  | 96       |
| 90) Anthracene                 | 8.460 | 178  | 11333    | 0.869  | ug/ml# | 1        |
| 91) Carbazole                  | 0.000 |      | 0        | N.D.   | d      |          |
| 92) Di-n-butylphthalate        | 0.000 |      | 0        | N.D.   | d      |          |
| 93) Fluoranthene               | 0.000 |      | 0        | N.D.   | d      |          |
| 95) Pyrene                     | 9.750 | 202  | 10817    | 0.723  | ug/ml# | 76       |
| 97) Butyl benzyl phthalate     | 0.000 |      | 0        | N.D.   | d      |          |
| 105) Benzo(a)anthracene        | 0.000 |      | 0        | N.D.   | d      |          |
| 106) 3,3'-Dichlorobenzidine    | 0.000 |      | 0        | N.D.   | d      |          |
| 107) Chrysene                  | 0.000 |      | 0        | N.D.   | d      |          |
| 108) Bis(2-ethylhexyl)phtha... | 0.000 |      | 0        | N.D.   | d      |          |
| 109) Di-n-octylphthalate       | 0.000 |      | 0        | N.D.   | d      |          |
| 110) Benzo(b)fluoranthene      | 0.000 |      | 0        | N.D.   | d      |          |
| 111) Benzo(k)fluoranthene      | 0.000 |      | 0        | N.D.   | d      |          |
| 112) Benzo(a)pyrene            | 0.000 |      | 0        | N.D.   | d      |          |
| 114) Indeno(1,2,3-cd)pyrene    | 0.000 |      | 0        | N.D.   | d      |          |
| 115) Dibenzo(a,h)anthracene    | 0.000 |      | 0        | N.D.   | d      |          |
| 116) Benzo(ghi)perylene        | 0.000 |      | 0        | N.D.   | d      |          |
| -----                          |       |      |          |        |        |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 06:52:59 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191226\ABN1226.d  
 : 2 - I:\8270\SV103\191226\ADP1226.d  
 : 3 - I:\8270\SV103\191226\AP91226.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

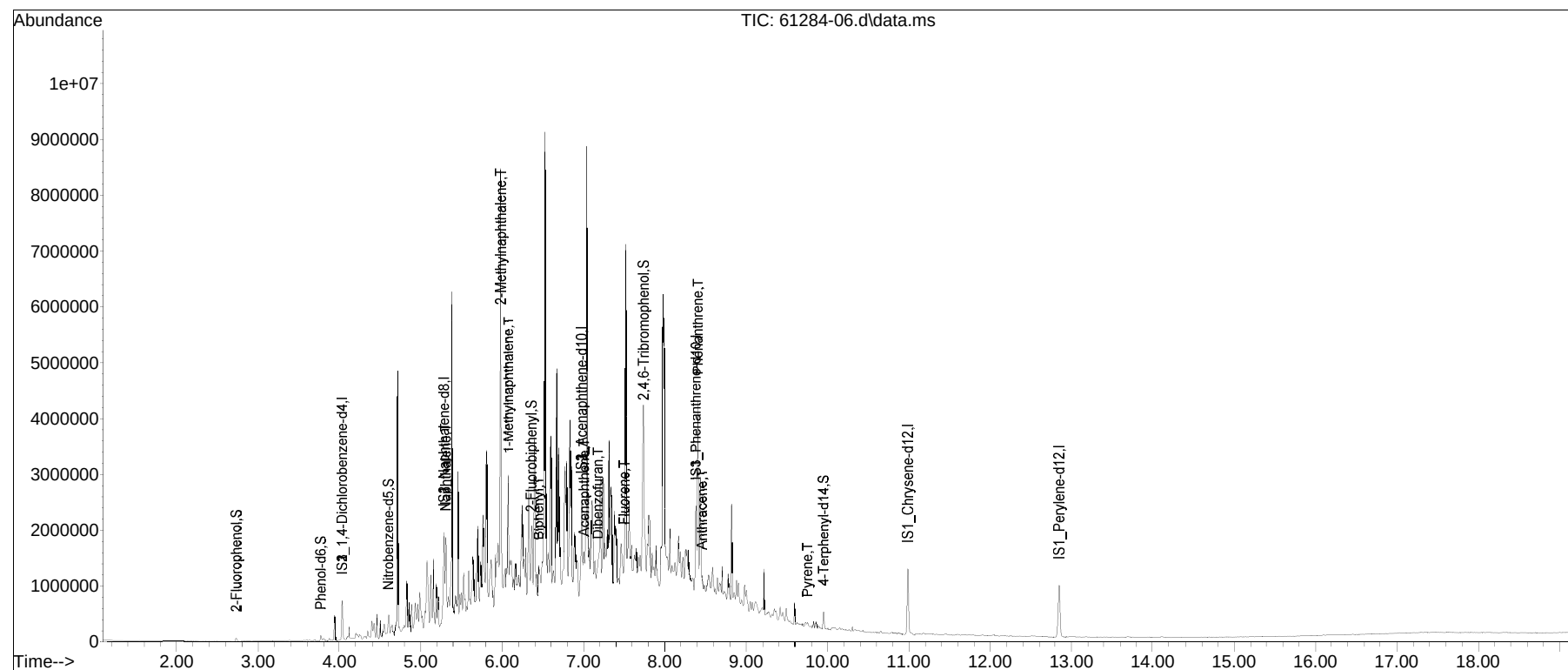
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

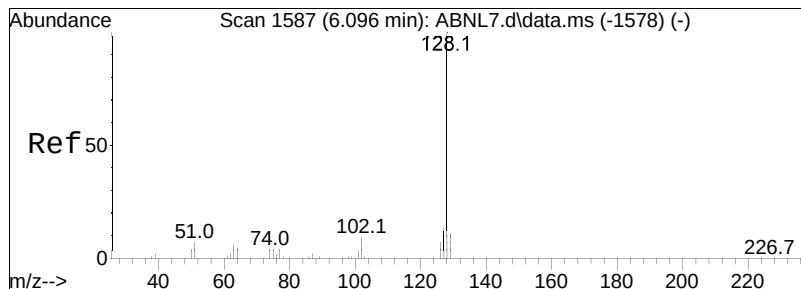
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 06:52:59 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:59:58 2019  
 Response via : Initial Calibration

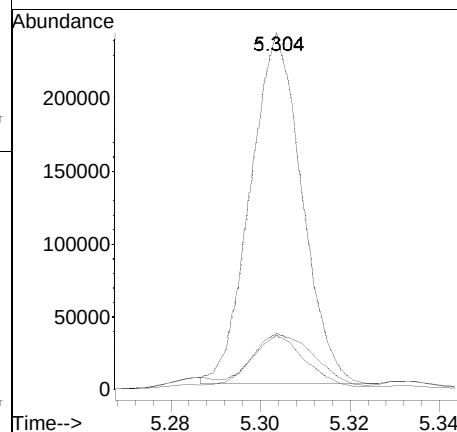
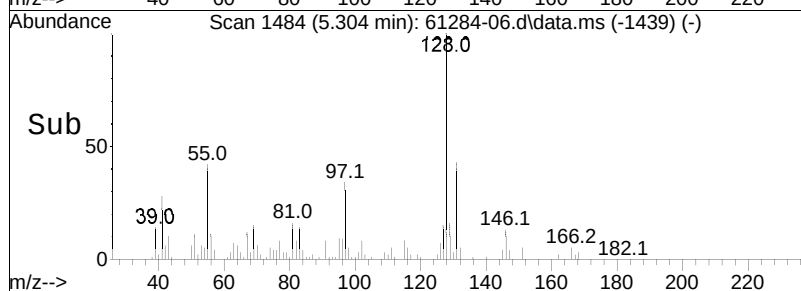
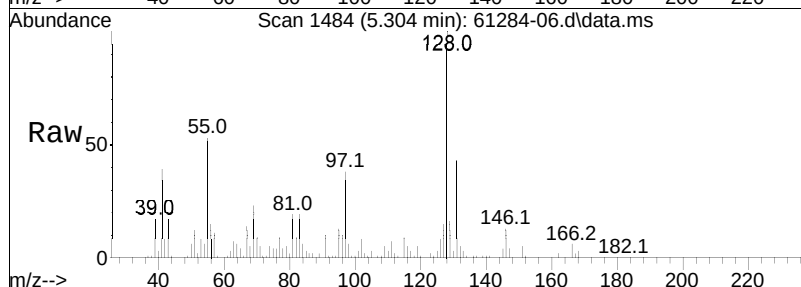
Sub List : 8270TCL\_REV2 - TCL/CT/MA\AP91226.d•

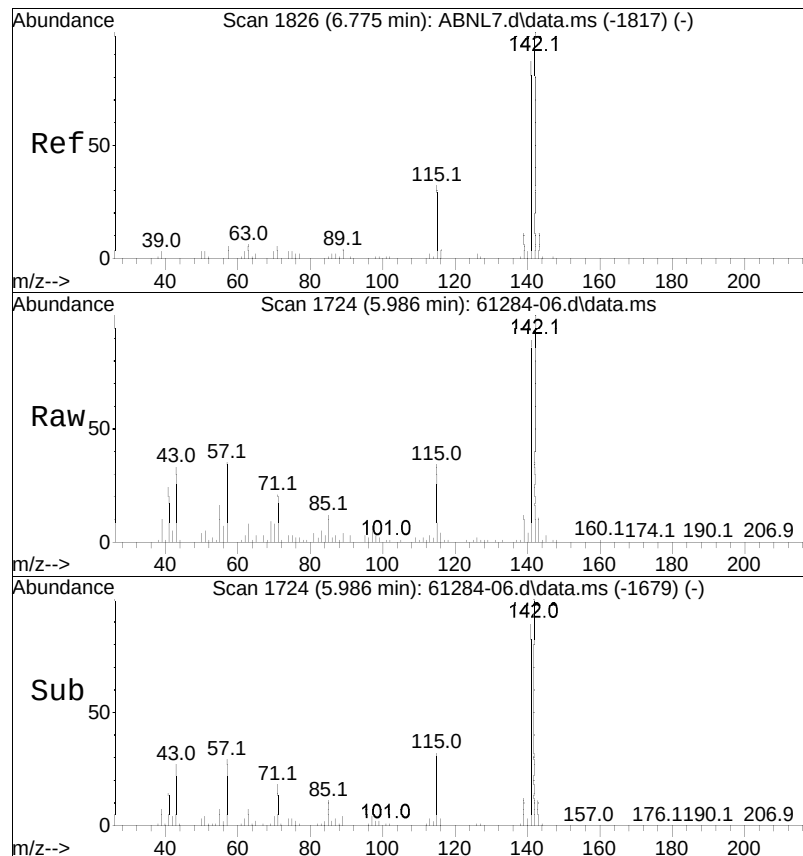




#36  
 Naphthalene  
 Concen: 17.57 ug/ml M3  
 RT: 5.304 min Scan# 1484  
 Delta R.T. 0.003 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

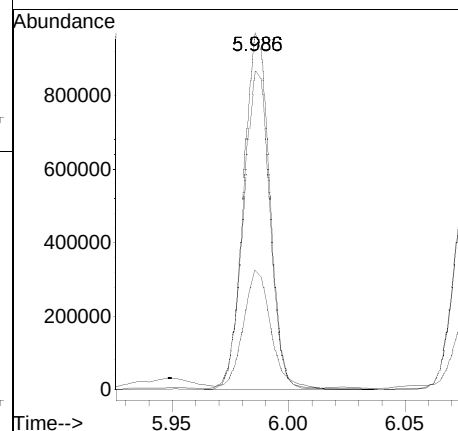
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 129     | 23.2  | 8.7  | 13.1# |       |
| 127     | 18.2  | 10.7 | 16.1# |       |



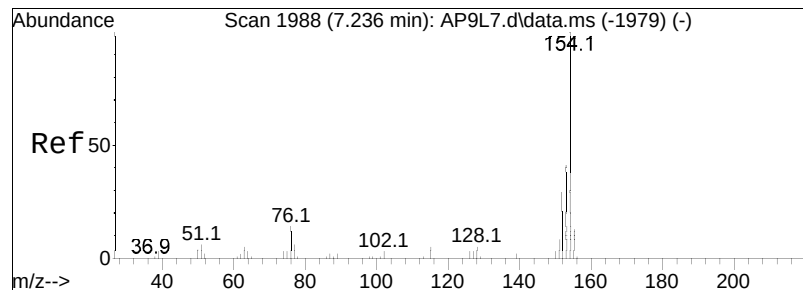


#41  
 2-Methylnaphthalene  
 Concen: 99.57 ug/ml  
 RT: 5.986 min Scan# 1724  
 Delta R.T. 0.003 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.3  | 71.8  | 107.8 |
| 115     | 34.6  | 29.1  | 43.7  |

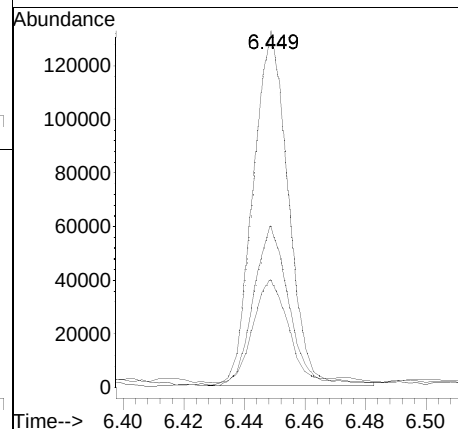
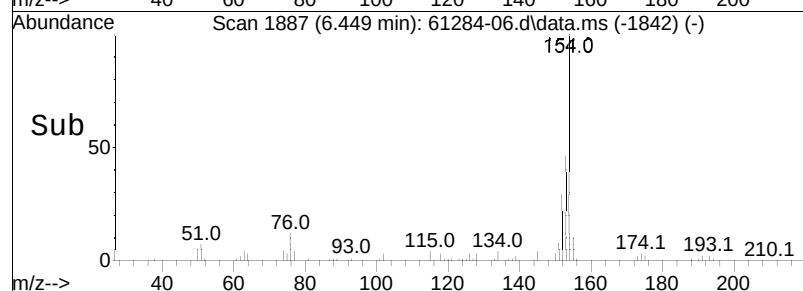
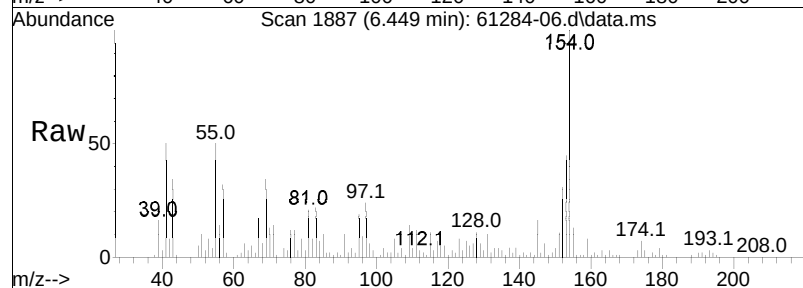


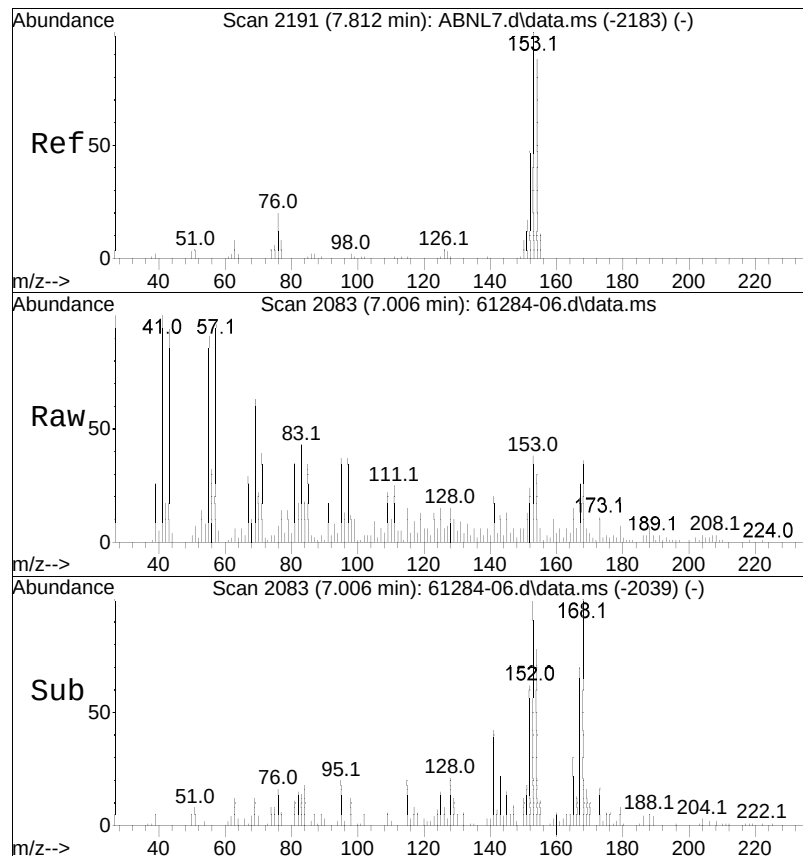




#62  
 Biphenyl  
 Concen: 11.16 ug/ml  
 RT: 6.449 min Scan# 1887  
 Delta R.T. 0.003 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

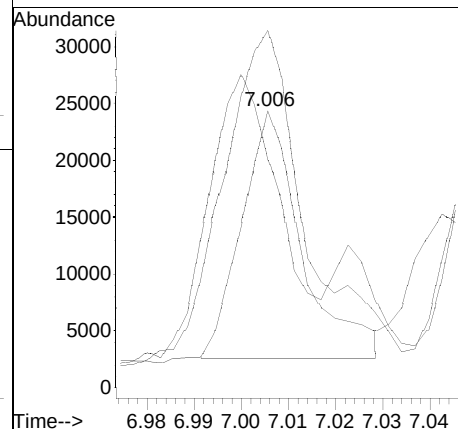
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 106161 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 46.1  | 33.5  | 50.3   |
| 152       | 28.8  | 22.6  | 34.0   |

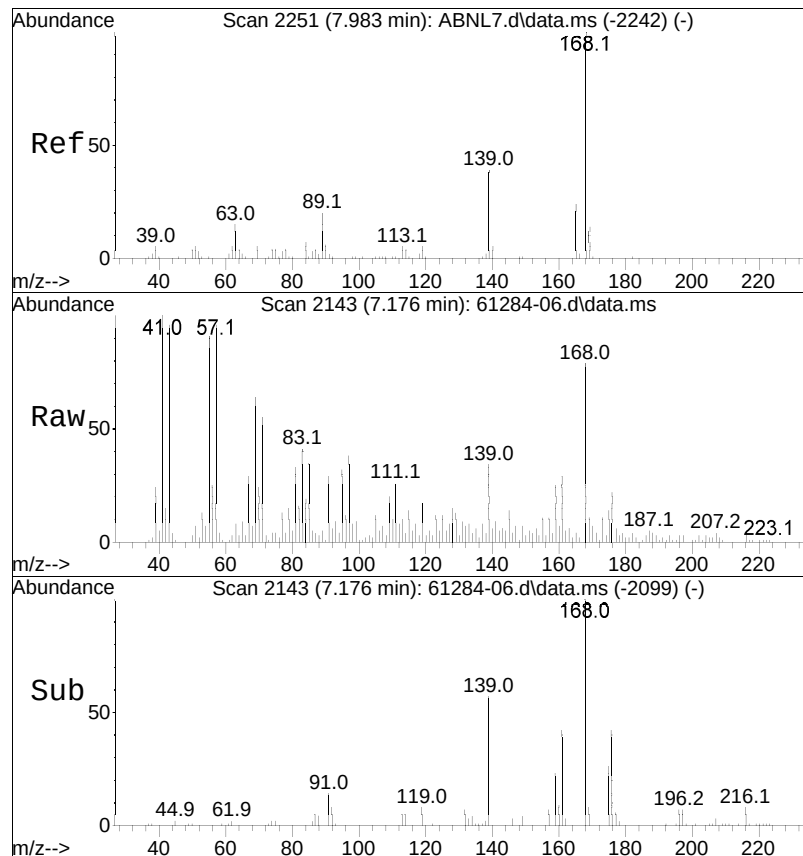




#65  
 Acenaphthene  
 Concen: 2.73 ug/ml M3  
 RT: 7.006 min Scan# 2083  
 Delta R.T. 0.000 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

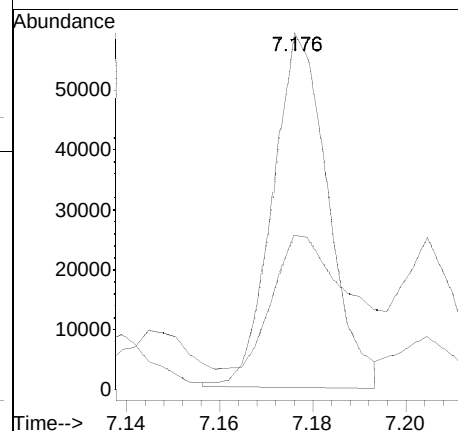
| Tgt | Ion   | Ratio | Lower  | Upper |
|-----|-------|-------|--------|-------|
| 154 | 100   |       |        |       |
| 153 | 190.3 | 91.3  | 136.9# |       |
| 152 | 142.8 | 41.0  | 61.4#  |       |

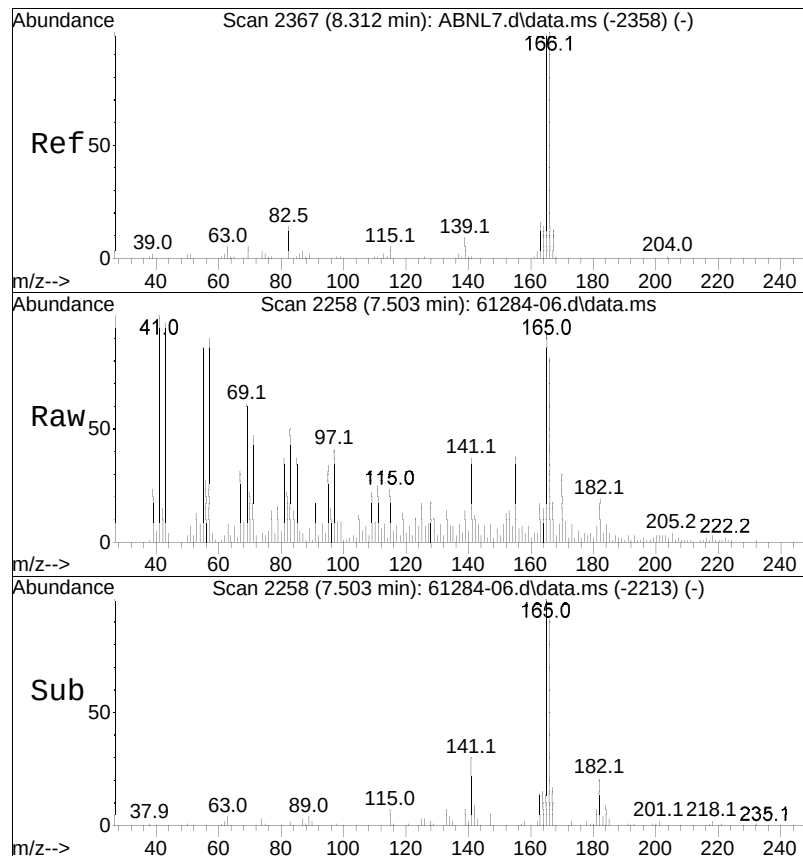




#67  
 Dibenzofuran  
 Concen: 4.71 ug/ml  
 RT: 7.176 min Scan# 2143  
 Delta R.T. 0.000 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

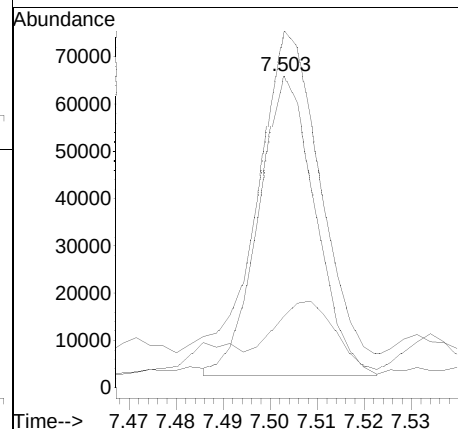
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 53.5  | 33.2  | 49.8# |

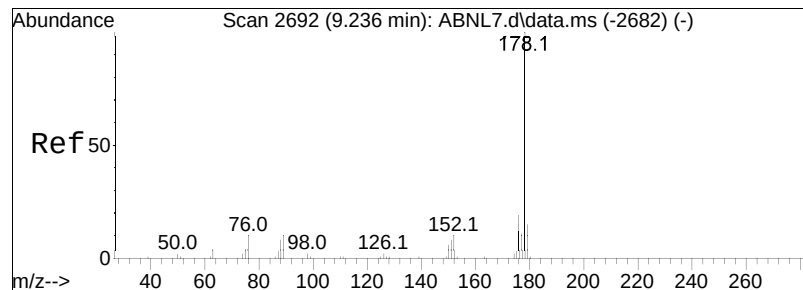




#73  
 Fluorene  
 Concen: 6.28 ug/ml M3  
 RT: 7.503 min Scan# 2258  
 Delta R.T. 0.003 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 53178 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 114.7 | 79.3  | 118.9 |
| 167       | 24.6  | 10.6  | 16.0# |





#89

Phenanthrene

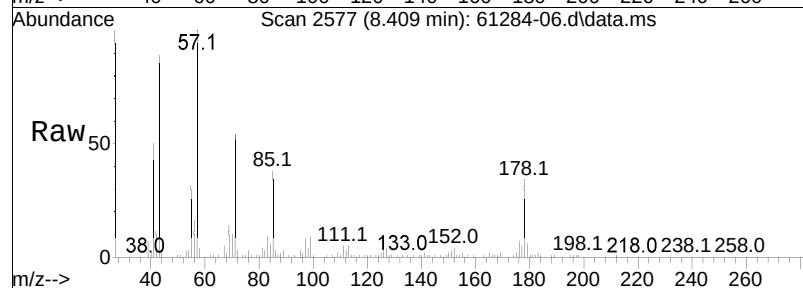
Concen: 14.26 ug/ml

RT: 8.409 min Scan# 2577

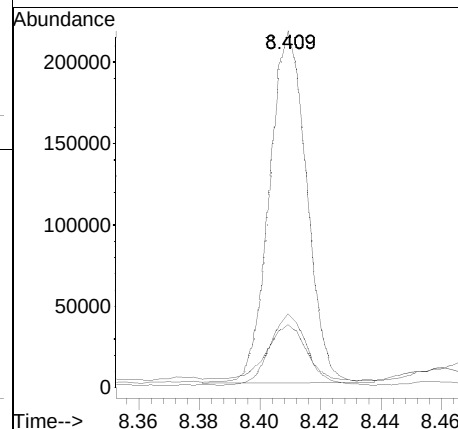
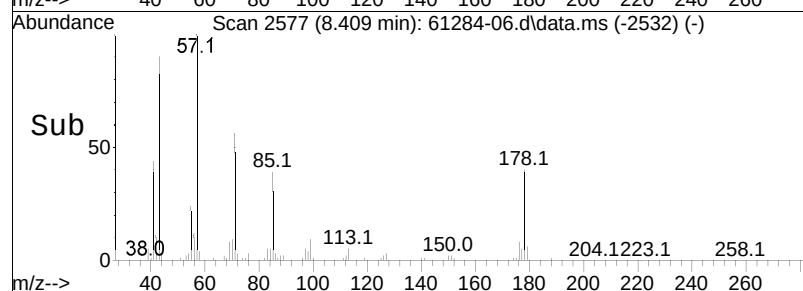
Delta R.T. 0.003 min

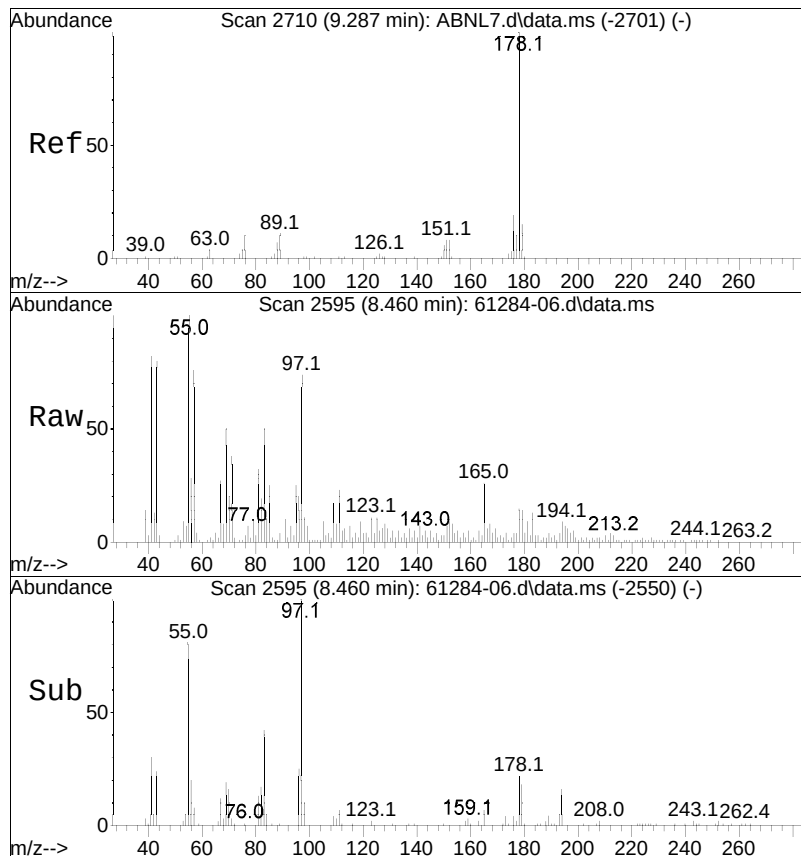
Lab File: 61284-06.d

Acq: 26 Dec 2019 6:48 pm



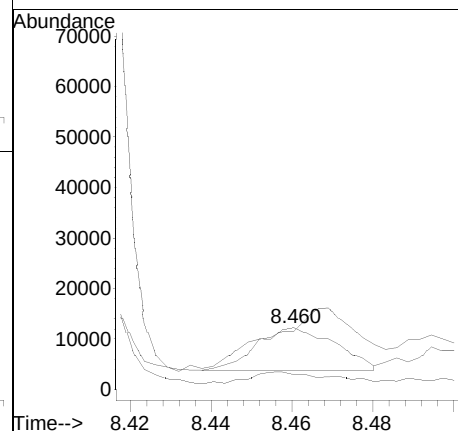
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 184438 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 17.7  | 12.2  | 18.2   |
| 176       | 20.4  | 15.4  | 23.2   |

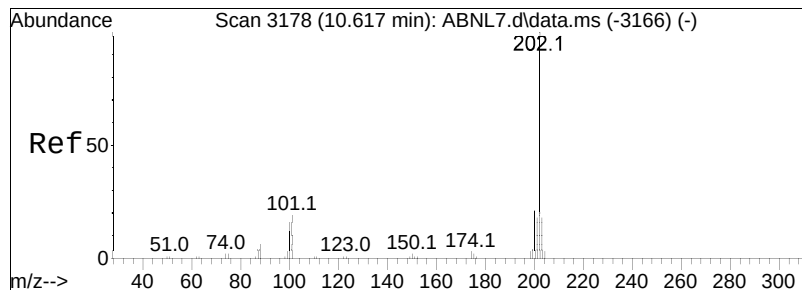




#90  
 Anthracene  
 Concen: 0.87 ug/ml  
 RT: 8.460 min Scan# 2595  
 Delta R.T. 0.003 min  
 Lab File: 61284-06.d  
 Acq: 26 Dec 2019 6:48 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 172.0 | 12.1  | 18.1# |
| 176     | 28.2  | 14.8  | 22.2# |





#95

Pyrene

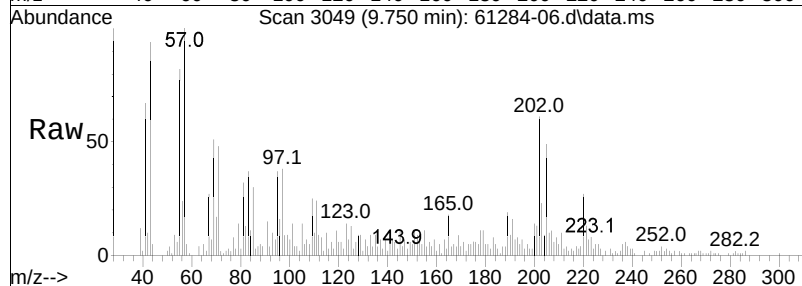
Concen: 0.72 ug/ml

RT: 9.750 min Scan# 3049

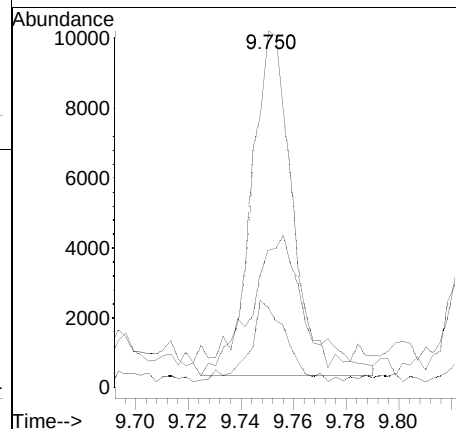
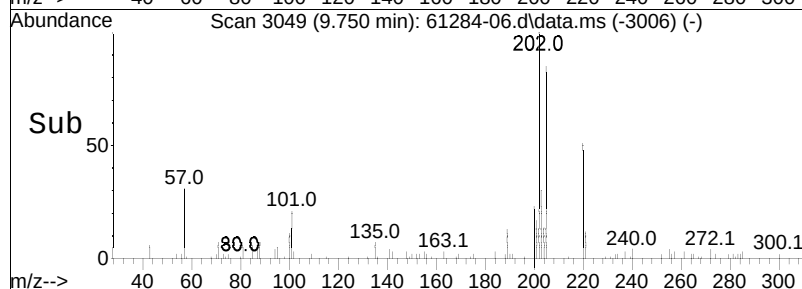
Delta R.T. -0.003 min

Lab File: 61284-06.d

Acq: 26 Dec 2019 6:48 pm



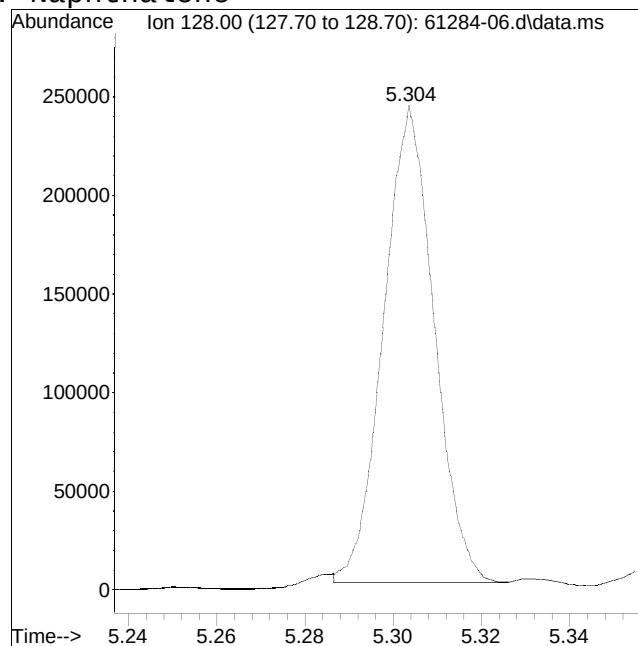
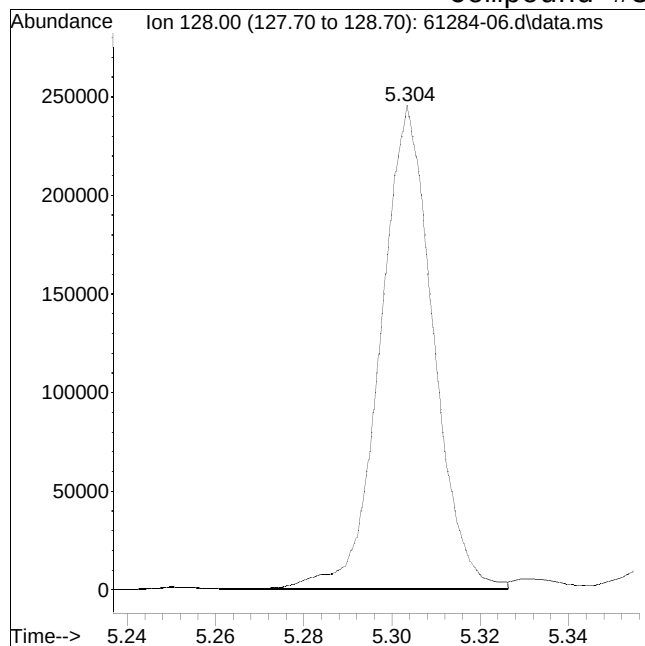
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 10817 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.7  | 17.0  | 25.4  |
| 203       | 40.2  | 14.2  | 21.2# |



# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : 61284-06.d Operator : SV103:ek  
Date Inj'd : 12/26/2019 6:48 pm Instrument : SV103  
Sample : l1961284-06d,32,5,nytcl,rvQuant Date : 12/27/2019 3:33 pm

## Compound #36: Naphthalene



Original Peak Response = 204234

Manual Peak Response = 191968 M3

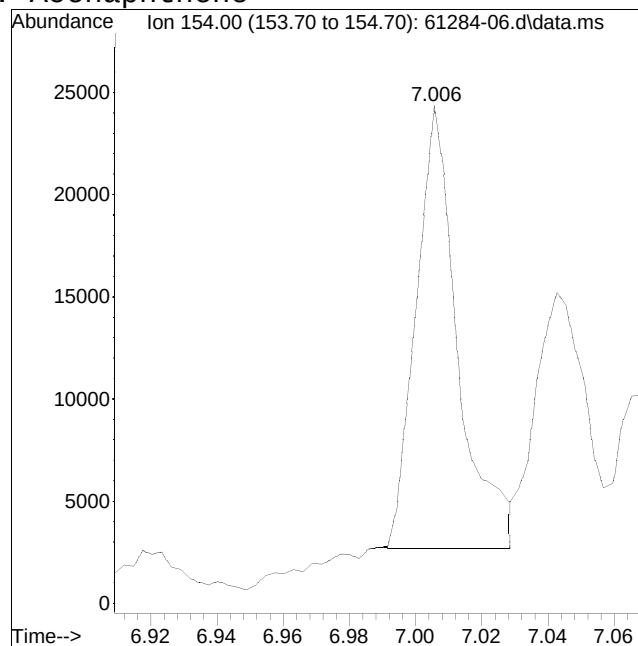
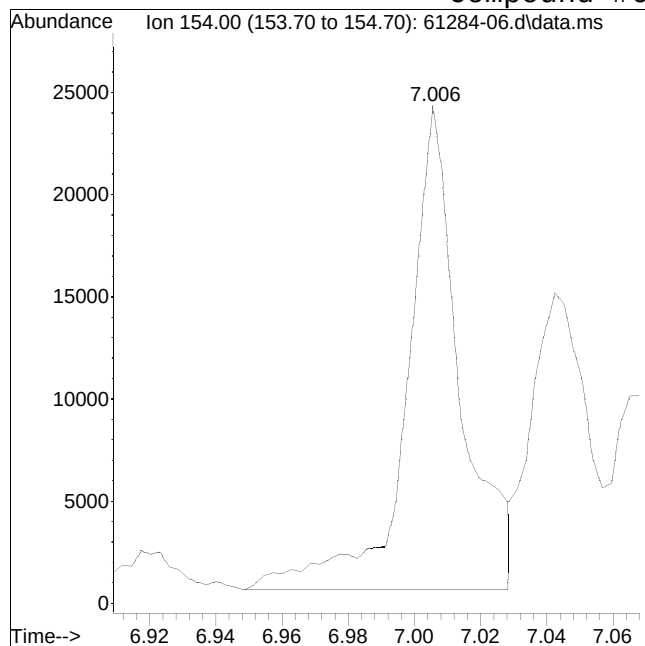
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : 61284-06.d Operator : SV103:ek  
Date Inj'd : 12/26/2019 6:48 pm Instrument : SV103  
Sample : l1961284-06d,32,5,nytcl,rvQuant Date : 12/27/2019 3:33 pm

## Compound #65: Acenaphthene



Original Peak Response = 26894

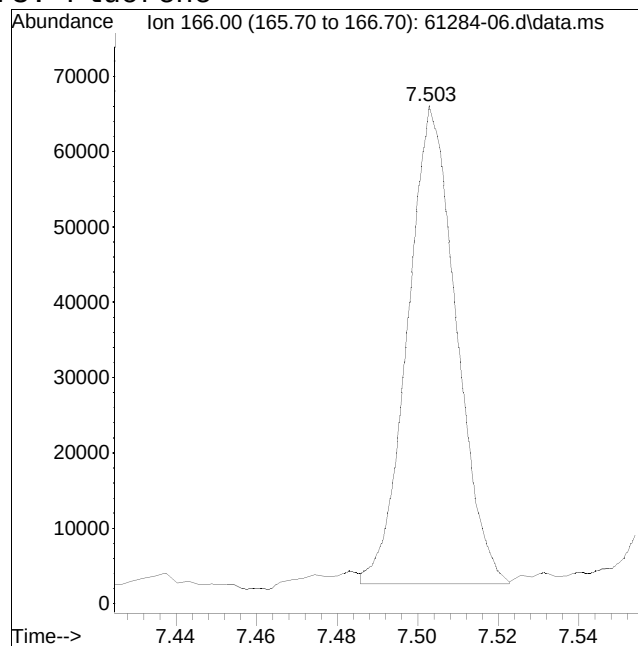
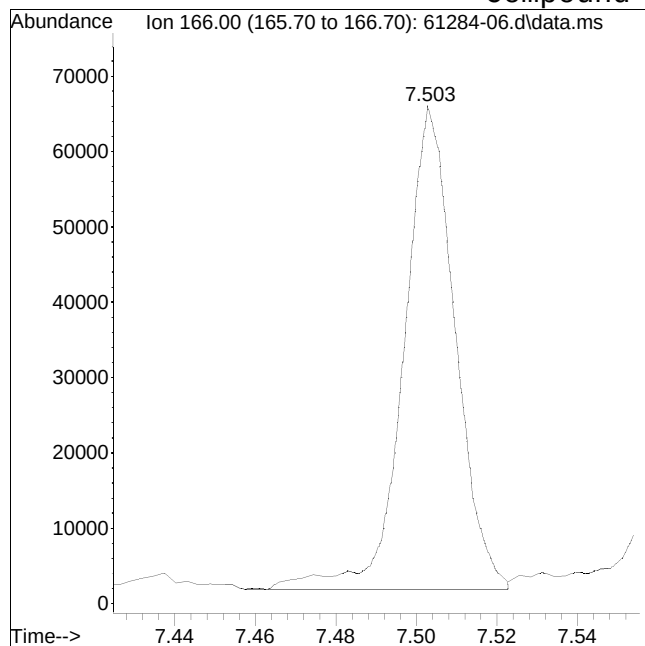
Manual Peak Response = 19088 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : 61284-06.d Operator : SV103:ek  
Date Inj'd : 12/26/2019 6:48 pm Instrument : SV103  
Sample : l1961284-06d,32,5,nytcl,rv Quant Date : 12/27/2019 3:33 pm

## Compound #73: Fluorene



Original Peak Response = 57213

Manual Peak Response = 53178 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 61284-06.d\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.940       | 997           | 1004        | 1012         | rVB      | 441122         | 393188        | 4.72%           | 0.308%        |
| 2         | 4.036       | 1031          | 1038        | 1053         | rVB      | 706241         | 646590        | 7.75%           | 0.506%        |
| 3         | 4.122       | 1063          | 1068        | 1073         | rVB      | 205163         | 164044        | 1.97%           | 0.128%        |
| 4         | 4.343       | 1141          | 1146        | 1152         | rBV      | 136231         | 125271        | 1.50%           | 0.098%        |
| 5         | 4.392       | 1157          | 1163        | 1167         | rVV4     | 289757         | 268784        | 3.22%           | 0.210%        |
| 6         | 4.417       | 1167          | 1172        | 1178         | rVB3     | 248791         | 256496        | 3.08%           | 0.201%        |
| 7         | 4.451       | 1178          | 1184        | 1194         | rVB      | 417147         | 421954        | 5.06%           | 0.330%        |
| 8         | 4.499       | 1194          | 1201        | 1209         | rBV      | 313731         | 311786        | 3.74%           | 0.244%        |
| 9         | 4.551       | 1209          | 1219        | 1225         | rBV5     | 230845         | 330524        | 3.96%           | 0.259%        |
| 10        | 4.605       | 1231          | 1238        | 1243         | rBV4     | 337154         | 345943        | 4.15%           | 0.271%        |
| 11        | 4.690       | 1263          | 1268        | 1270         | rBV      | 174647         | 132388        | 1.59%           | 0.104%        |
| 12        | 4.715       | 1270          | 1277        | 1283         | rVB      | 4635269        | 3637878       | 43.63%          | 2.846%        |
| 13        | 4.829       | 1310          | 1317        | 1322         | rVB3     | 838720         | 719931        | 8.63%           | 0.563%        |
| 14        | 4.852       | 1322          | 1325        | 1336         | rVB      | 527536         | 506046        | 6.07%           | 0.396%        |
| 15        | 4.894       | 1336          | 1340        | 1346         | rBV      | 499617         | 423334        | 5.08%           | 0.331%        |
| 16        | 4.937       | 1347          | 1355        | 1360         | rBV2     | 456510         | 491159        | 5.89%           | 0.384%        |
| 17        | 4.965       | 1361          | 1365        | 1369         | rVB      | 320168         | 215042        | 2.58%           | 0.168%        |
| 18        | 4.988       | 1369          | 1373        | 1381         | rBV4     | 529939         | 512672        | 6.15%           | 0.401%        |
| 19        | 5.051       | 1388          | 1395        | 1397         | rBV2     | 312164         | 308311        | 3.70%           | 0.241%        |
| 20        | 5.071       | 1397          | 1402        | 1412         | rVV5     | 1196575        | 1749416       | 20.98%          | 1.368%        |
| 21        | 5.116       | 1412          | 1418        | 1423         | rVV3     | 934053         | 857780        | 10.29%          | 0.671%        |
| 22        | 5.147       | 1424          | 1429        | 1439         | rVV3     | 1214201        | 1338837       | 16.06%          | 1.047%        |
| 23        | 5.190       | 1439          | 1444        | 1448         | rVV      | 771435         | 633895        | 7.60%           | 0.496%        |
| 24        | 5.213       | 1448          | 1452        | 1460         | rVB2     | 535791         | 486520        | 5.83%           | 0.381%        |
| 25        | 5.284       | 1467          | 1477        | 1481         | rBV      | 1635189        | 1711855       | 20.53%          | 1.339%        |
| 26        | 5.304       | 1481          | 1484        | 1490         | rVV3     | 1450115        | 1342839       | 16.10%          | 1.050%        |
| 27        | 5.332       | 1491          | 1494        | 1498         | rVV3     | 331945         | 294347        | 3.53%           | 0.230%        |
| 28        | 5.380       | 1500          | 1511        | 1516         | rVB      | 5663621        | 5193120       | 62.28%          | 4.062%        |

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |         |         |         |        |
|----|-------|------|------|------|------|---------|---------|---------|--------|
| 29 | 5.429 | 1524 | 1528 | 1532 | rBV3 | 327637  | 272132  | 3.26%   | 0.213% |
| 30 | 5.457 | 1532 | 1538 | 1543 | rVB  | 2554453 | 2006794 | 24.07%  | 1.570% |
| 31 | 5.483 | 1543 | 1547 | 1551 | rBV4 | 358909  | 304917  | 3.66%   | 0.239% |
| 32 | 5.503 | 1551 | 1554 | 1558 | rVB3 | 316081  | 213864  | 2.56%   | 0.167% |
| 33 | 5.528 | 1558 | 1563 | 1567 | rBV2 | 666848  | 542665  | 6.51%   | 0.424% |
| 34 | 5.588 | 1579 | 1584 | 1587 | rBV2 | 678151  | 517196  | 6.20%   | 0.405% |
| 35 | 5.639 | 1592 | 1602 | 1612 | rVV6 | 909143  | 1467944 | 17.60%  | 1.148% |
| 36 | 5.696 | 1615 | 1622 | 1631 | rVV6 | 1395962 | 1717310 | 20.59%  | 1.343% |
| 37 | 5.733 | 1631 | 1635 | 1641 | rVV4 | 742239  | 753995  | 9.04%   | 0.590% |
| 38 | 5.764 | 1642 | 1646 | 1655 | rVV5 | 1545393 | 1857342 | 22.27%  | 1.453% |
| 39 | 5.809 | 1655 | 1662 | 1671 | rVV3 | 2675367 | 2865108 | 34.36%  | 2.241% |
| 40 | 5.861 | 1672 | 1680 | 1686 | rVB6 | 674950  | 902925  | 10.83%  | 0.706% |
| 41 | 5.917 | 1695 | 1700 | 1703 | rBV3 | 845335  | 703539  | 8.44%   | 0.550% |
| 42 | 5.937 | 1704 | 1707 | 1708 | rVV2 | 669676  | 419465  | 5.03%   | 0.328% |
| 43 | 5.949 | 1709 | 1711 | 1715 | rVV3 | 954822  | 788051  | 9.45%   | 0.616% |
| 44 | 5.977 | 1715 | 1721 | 1732 | rVB2 | 7544405 | 8338837 | 100.00% | 6.523% |
| 45 | 6.074 | 1749 | 1755 | 1760 | rVB2 | 1783824 | 1636257 | 19.62%  | 1.280% |
| 46 | 6.096 | 1760 | 1763 | 1765 | rBV3 | 263363  | 179478  | 2.15%   | 0.140% |
| 47 | 6.165 | 1784 | 1787 | 1792 | rBV4 | 441241  | 333294  | 4.00%   | 0.261% |
| 48 | 6.241 | 1806 | 1814 | 1821 | rBV3 | 1426497 | 2052474 | 24.61%  | 1.605% |
| 49 | 6.295 | 1830 | 1833 | 1838 | rVB2 | 850093  | 606526  | 7.27%   | 0.474% |
| 50 | 6.329 | 1839 | 1845 | 1852 | rBV3 | 1898378 | 1869841 | 22.42%  | 1.463% |
| 51 | 6.366 | 1852 | 1858 | 1862 | rVB4 | 1071490 | 939810  | 11.27%  | 0.735% |
| 52 | 6.392 | 1862 | 1867 | 1874 | rBV  | 2640629 | 2135098 | 25.60%  | 1.670% |
| 53 | 6.452 | 1883 | 1888 | 1890 | rBV  | 522691  | 459661  | 5.51%   | 0.360% |
| 54 | 6.491 | 1899 | 1902 | 1903 | rBV2 | 317422  | 171551  | 2.06%   | 0.134% |
| 55 | 6.508 | 1904 | 1908 | 1909 | rVV  | 793855  | 559524  | 6.71%   | 0.438% |
| 56 | 6.528 | 1909 | 1915 | 1924 | rVB2 | 7923410 | 7205925 | 86.41%  | 5.636% |
| 57 | 6.599 | 1934 | 1940 | 1947 | rVB2 | 2642276 | 3109741 | 37.29%  | 2.432% |
| 58 | 6.670 | 1958 | 1965 | 1969 | rBV  | 3800850 | 3323289 | 39.85%  | 2.599% |
| 59 | 6.693 | 1969 | 1973 | 1977 | rVB  | 1808116 | 1341373 | 16.09%  | 1.049% |
| 60 | 6.775 | 1997 | 2002 | 2005 | rBV2 | 1723113 | 1505414 | 18.05%  | 1.178% |

## LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|    |       |      |      |      |      |         |         |        |        |
|----|-------|------|------|------|------|---------|---------|--------|--------|
| 61 | 6.793 | 2005 | 2008 | 2014 | rVB  | 2064767 | 1544208 | 18.52% | 1.208% |
| 62 | 6.835 | 2014 | 2023 | 2026 | rBV  | 2804200 | 2789027 | 33.45% | 2.182% |
| 63 | 6.852 | 2026 | 2029 | 2037 | rVB4 | 2058810 | 1644817 | 19.72% | 1.287% |
| 64 | 6.889 | 2037 | 2042 | 2045 | rBV2 | 887665  | 743560  | 8.92%  | 0.582% |
| 65 | 6.977 | 2068 | 2073 | 2077 | rBV  | 1344418 | 1042304 | 12.50% | 0.815% |
| 66 | 7.040 | 2085 | 2095 | 2102 | rBV  | 7424830 | 6544591 | 78.48% | 5.119% |
| 67 | 7.105 | 2112 | 2118 | 2127 | rVB2 | 1321555 | 1761467 | 21.12% | 1.378% |
| 68 | 7.205 | 2149 | 2153 | 2158 | rVB  | 1725643 | 1268072 | 15.21% | 0.992% |
| 69 | 7.239 | 2160 | 2165 | 2169 | rVV  | 1562007 | 1186675 | 14.23% | 0.928% |
| 70 | 7.287 | 2179 | 2182 | 2185 | rBV  | 435892  | 285522  | 3.42%  | 0.223% |
| 71 | 7.310 | 2185 | 2190 | 2195 | rBV2 | 1938760 | 1607200 | 19.27% | 1.257% |
| 72 | 7.335 | 2195 | 2199 | 2201 | rBV2 | 993861  | 753102  | 9.03%  | 0.589% |
| 73 | 7.381 | 2210 | 2215 | 2218 | rBV  | 1255374 | 1103201 | 13.23% | 0.863% |
| 74 | 7.469 | 2241 | 2246 | 2255 | rBV5 | 640924  | 799512  | 9.59%  | 0.625% |
| 75 | 7.520 | 2256 | 2264 | 2270 | rBV  | 5826316 | 5271918 | 63.22% | 4.124% |
| 76 | 7.736 | 2332 | 2340 | 2351 | rVB  | 2981687 | 3778749 | 45.32% | 2.956% |
| 77 | 7.781 | 2352 | 2356 | 2358 | rBV3 | 426966  | 348079  | 4.17%  | 0.272% |
| 78 | 7.844 | 2375 | 2378 | 2382 | rBV  | 421261  | 288730  | 3.46%  | 0.226% |
| 79 | 7.889 | 2390 | 2394 | 2410 | rVB6 | 709304  | 988658  | 11.86% | 0.773% |
| 80 | 7.958 | 2414 | 2418 | 2419 | rBV2 | 534726  | 333586  | 4.00%  | 0.261% |
| 81 | 7.977 | 2420 | 2425 | 2429 | rBV  | 4545783 | 4597773 | 55.14% | 3.596% |
| 82 | 8.063 | 2450 | 2455 | 2462 | rVB6 | 795075  | 792844  | 9.51%  | 0.620% |
| 83 | 8.250 | 2517 | 2521 | 2524 | rBV2 | 516894  | 454806  | 5.45%  | 0.356% |
| 84 | 8.387 | 2564 | 2569 | 2573 | rBV  | 1425670 | 1259504 | 15.10% | 0.985% |
| 85 | 8.409 | 2573 | 2577 | 2582 | rVV  | 3255496 | 2589266 | 31.05% | 2.025% |
| 86 | 8.438 | 2582 | 2587 | 2593 | rVB  | 1820745 | 1608841 | 19.29% | 1.258% |
| 87 | 8.705 | 2677 | 2681 | 2687 | rVB4 | 504103  | 434476  | 5.21%  | 0.340% |
| 88 | 8.779 | 2702 | 2707 | 2716 | rVB5 | 460119  | 547080  | 6.56%  | 0.428% |
| 89 | 8.821 | 2717 | 2722 | 2728 | rBV  | 1716266 | 1395815 | 16.74% | 1.092% |
| 90 | 8.881 | 2739 | 2743 | 2748 | rBV  | 349802  | 305869  | 3.67%  | 0.239% |
| 91 | 8.907 | 2749 | 2752 | 2760 | rVB  | 374807  | 307133  | 3.68%  | 0.240% |

# LSC Area Percent Report

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytcl,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 92  | 8.980  | 2774 | 2778 | 2782 | rBV2 | 342797  | 291483  | 3.50%  | 0.228% |
| 93  | 9.216  | 2856 | 2861 | 2868 | rVB  | 804051  | 654395  | 7.85%  | 0.512% |
| 94  | 9.418  | 2928 | 2932 | 2939 | rVB  | 173884  | 131259  | 1.57%  | 0.103% |
| 95  | 9.489  | 2953 | 2957 | 2964 | rBV3 | 213259  | 197177  | 2.36%  | 0.154% |
| 96  | 9.594  | 2989 | 2994 | 3000 | rVB  | 384227  | 308808  | 3.70%  | 0.242% |
| 97  | 9.858  | 3084 | 3087 | 3095 | rVB5 | 119013  | 121118  | 1.45%  | 0.095% |
| 98  | 9.955  | 3116 | 3121 | 3128 | rVB2 | 306835  | 264987  | 3.18%  | 0.207% |
| 99  | 10.989 | 3477 | 3485 | 3493 | rBV2 | 1159690 | 1226059 | 14.70% | 0.959% |
| 100 | 12.848 | 4127 | 4139 | 4153 | rBV2 | 926203  | 1353132 | 16.23% | 1.058% |

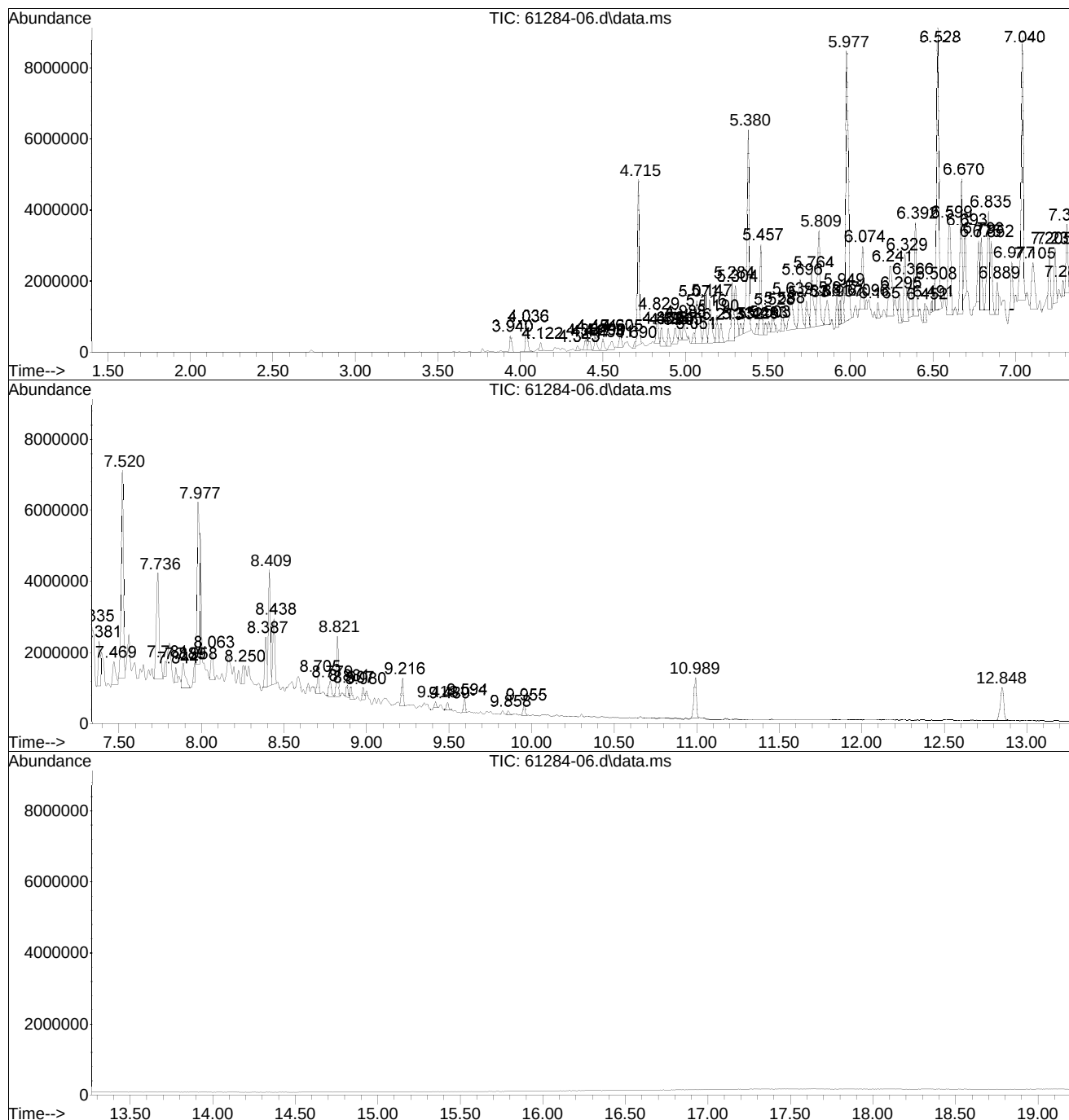
Sum of corrected areas: 127846093

# LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

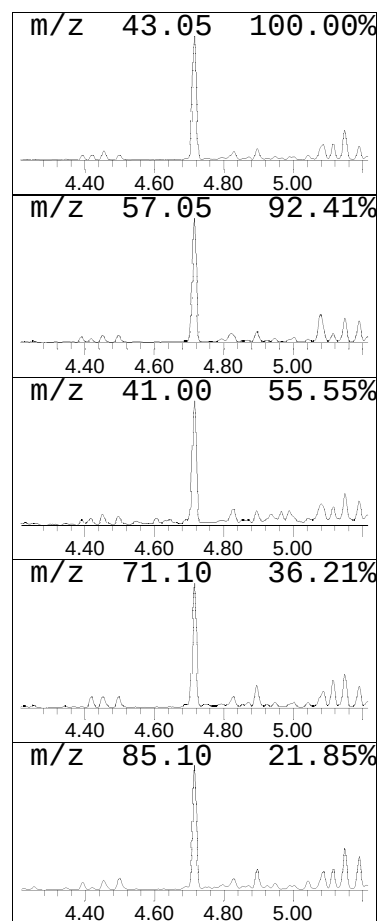
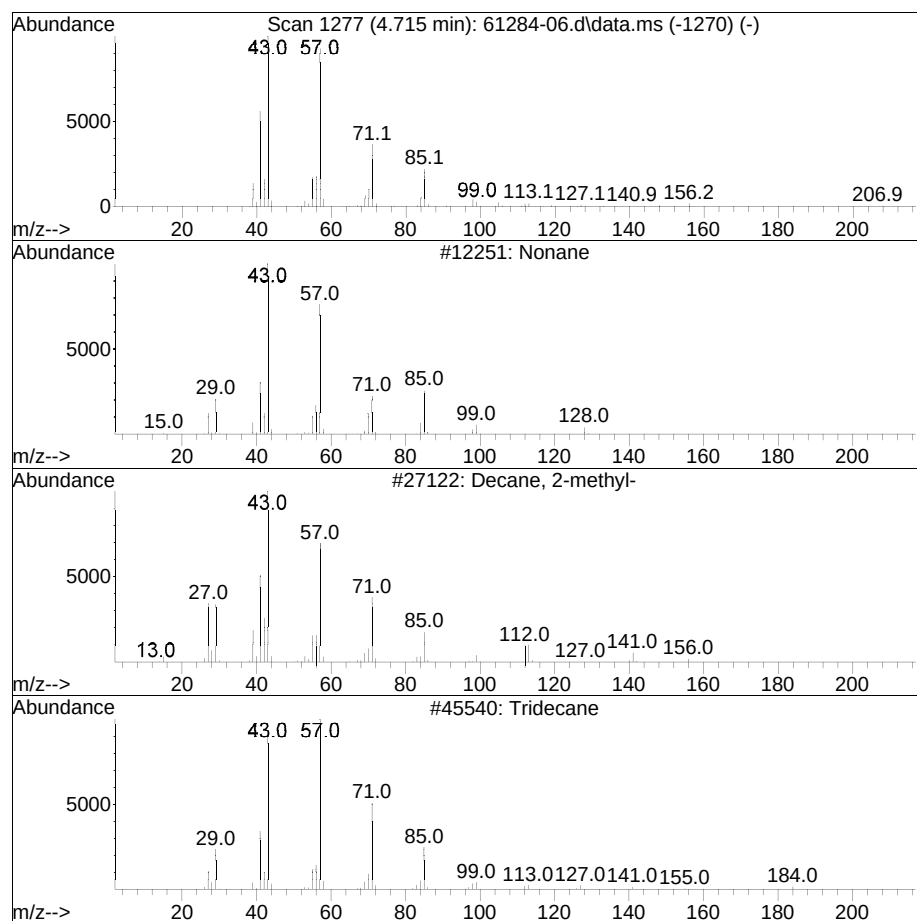
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Unknown Alkane Concentration Rank 7

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 4.715 | 85.00 ug/ml | 3637880 | IS1_Naphthalene-d8 | 5.284 |

| Hit# of | 5                     | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------|--------------|-----|---------|-------------|------|
| 1       | Nonane                |              | 128 | C9H20   | 000111-84-2 | 78   |
| 2       | Decane, 2-methyl-     |              | 156 | C11H24  | 006975-98-0 | 72   |
| 3       | Tridecane             |              | 184 | C13H28  | 000629-50-5 | 59   |
| 4       | Octane, 2,7-dimethyl- |              | 142 | C10H22  | 001072-16-8 | 59   |
| 5       | Decane, 5-methyl-     |              | 156 | C11H24  | 013151-35-4 | 58   |





## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

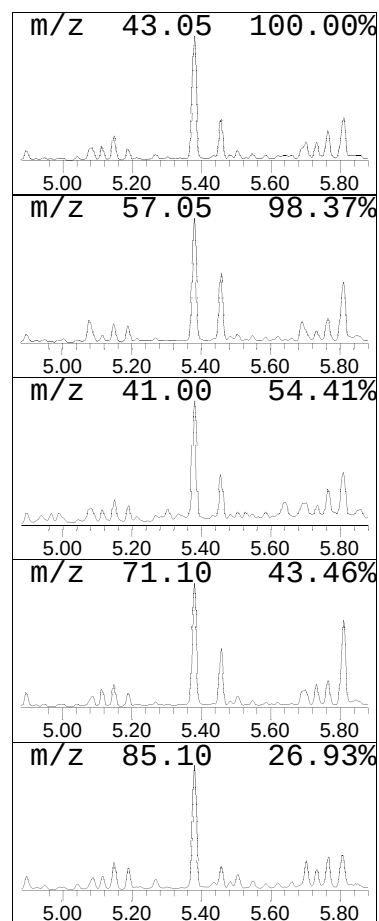
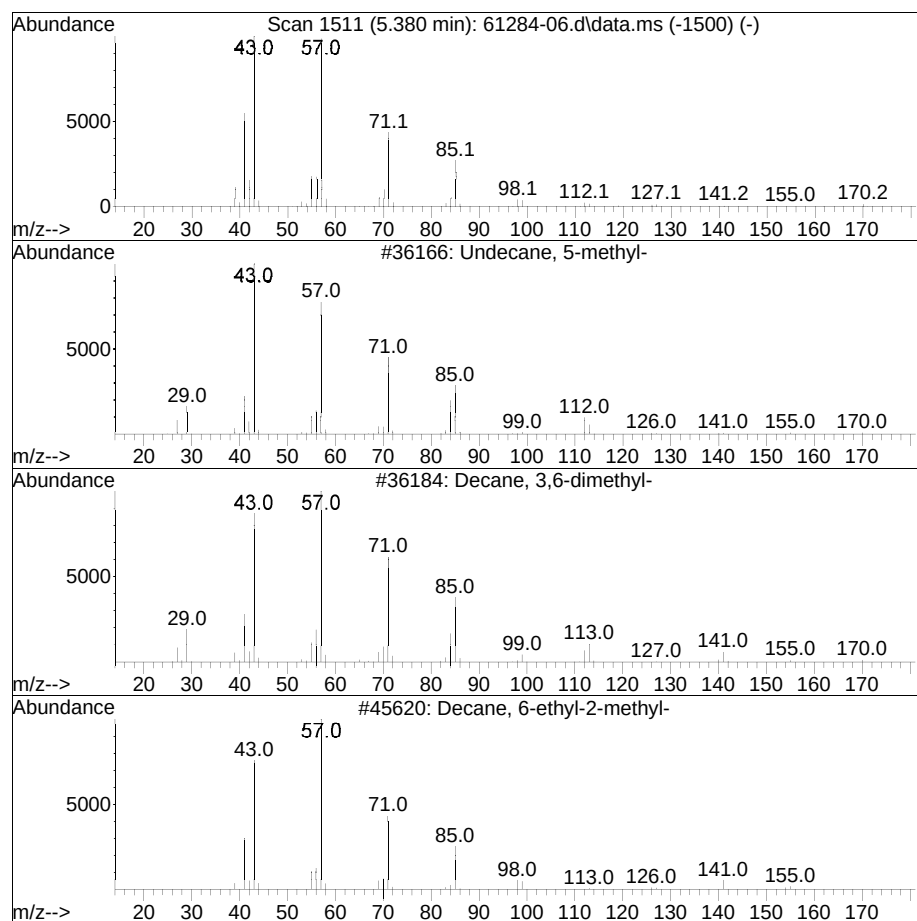
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Unknown Alkane Concentration Rank 4

| R.T.  | EstConc      | Area    | Relative to ISTD   | R.T.  |
|-------|--------------|---------|--------------------|-------|
| 5.380 | 121.35 ug/ml | 5193120 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                         | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|---------------------------|--------------|--------|-------------|------|------|
| 1       | Undecane, 5-methyl-       | 170          | C12H26 | 001632-70-8 | 80   |      |
| 2       | Decane, 3,6-dimethyl-     | 170          | C12H26 | 017312-53-7 | 80   |      |
| 3       | Decane, 6-ethyl-2-methyl- | 184          | C13H28 | 062108-21-8 | 78   |      |
| 4       | Undecane, 2-methyl-       | 170          | C12H26 | 007045-71-8 | 78   |      |
| 5       | Heptane, 3,4-dimethyl-    | 128          | C9H20  | 000922-28-1 | 64   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytccl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

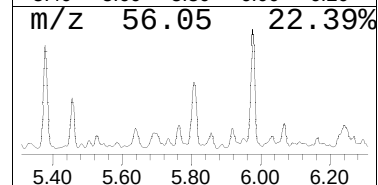
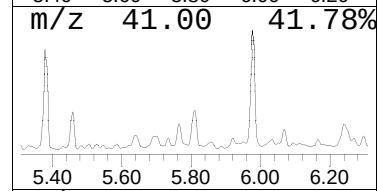
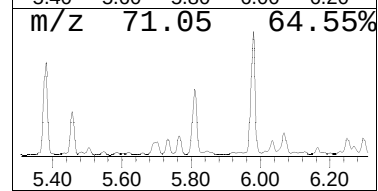
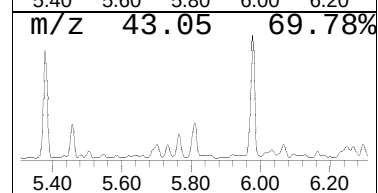
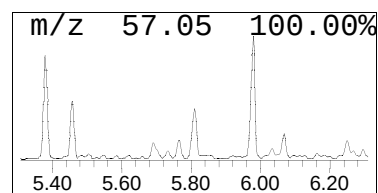
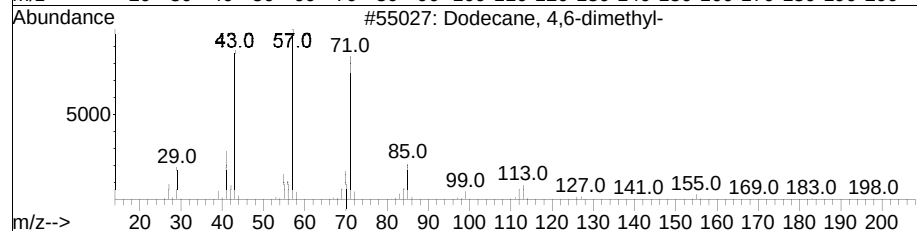
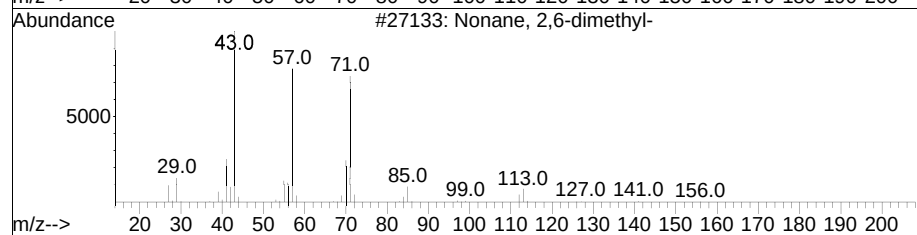
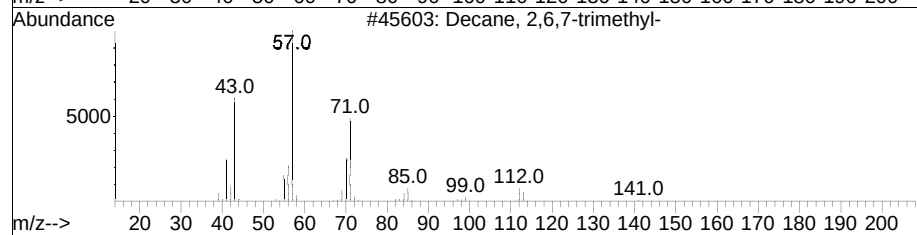
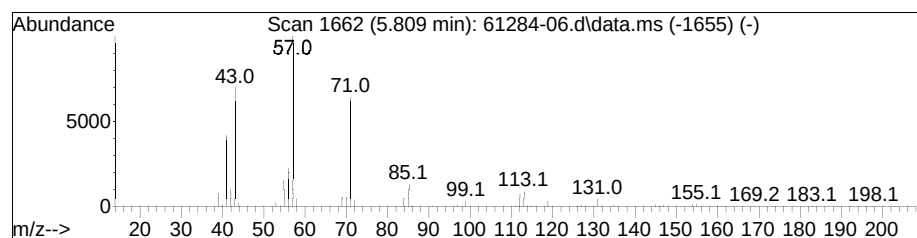
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Unknown Alkane Concentration Rank 10

| R.T.  | EstConc     | Area    | Relative to ISTD   | R.T.  |
|-------|-------------|---------|--------------------|-------|
| 5.809 | 66.95 ug/ml | 2865110 | IS2_Naphthalene-d8 | 5.284 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Decane, 2,6,7-trimethyl- |              | 184 | C13H28  | 062108-25-2 | 90   |
| 2       | Nonane, 2,6-dimethyl-    |              | 156 | C11H24  | 017302-28-2 | 83   |
| 3       | Dodecane, 4,6-dimethyl-  |              | 198 | C14H30  | 061141-72-8 | 64   |
| 4       | Octane, 3,6-dimethyl-    |              | 142 | C10H22  | 015869-94-0 | 64   |
| 5       | Nonane, 3-methyl-        |              | 142 | C10H22  | 005911-04-6 | 53   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

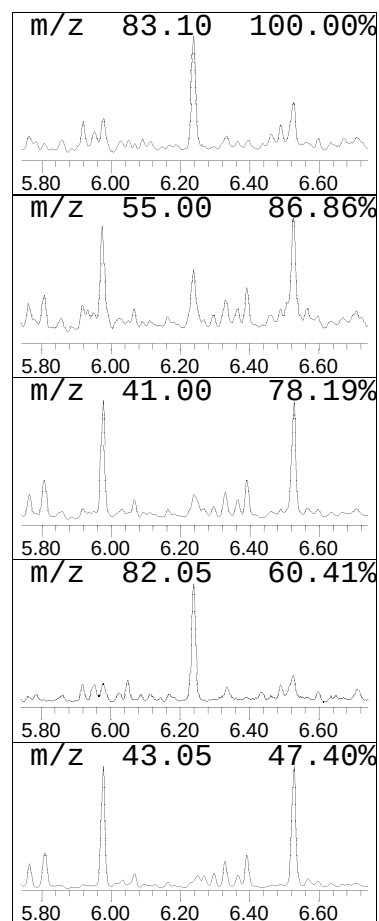
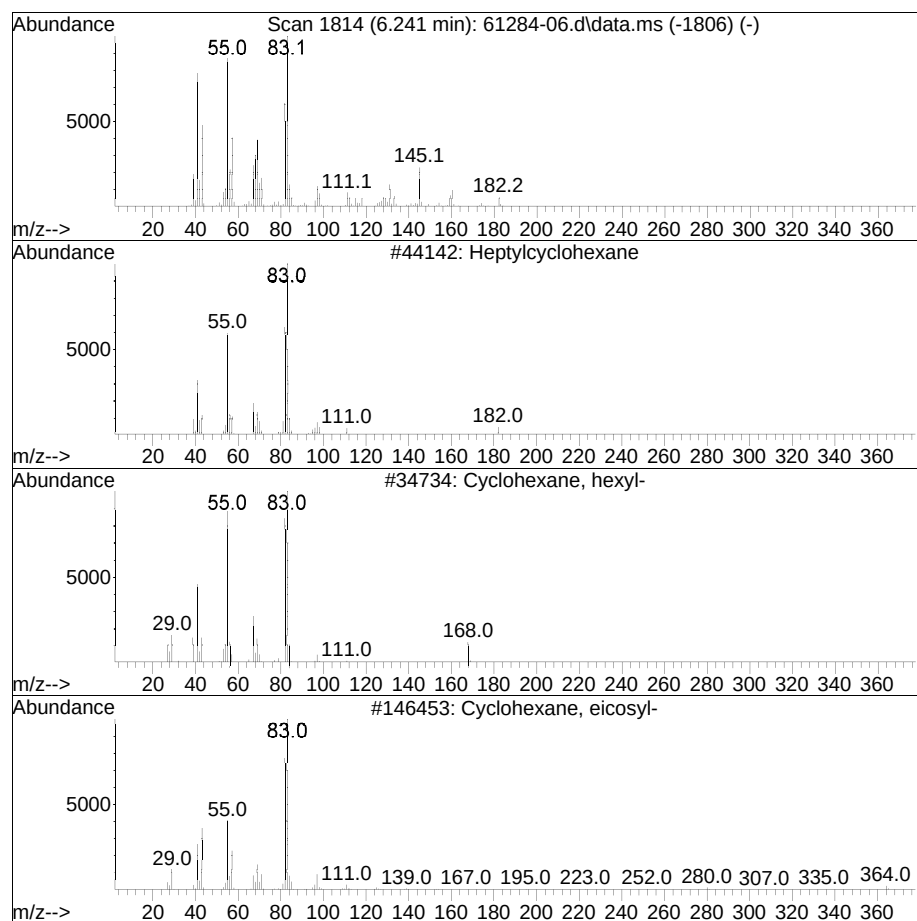
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Unknown Cycloalkane Concentration Rank 8

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.241 | 78.77 ug/ml | 2052470 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------|-----|---------|-------------|------|
| 1       |   | Heptylcyclohexane              | 182 | C13H26  | 005617-41-4 | 62   |
| 2       |   | Cyclohexane, hexyl-            | 168 | C12H24  | 004292-75-5 | 50   |
| 3       |   | Cyclohexane, eicosyl-          | 364 | C26H52  | 004443-55-4 | 50   |
| 4       |   | Cyclohexane, (4-methylpentyl)- | 168 | C12H24  | 061142-20-9 | 50   |
| 5       |   | Cyclohexane, ethyl-            | 112 | C8H16   | 001678-91-7 | 47   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytccl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

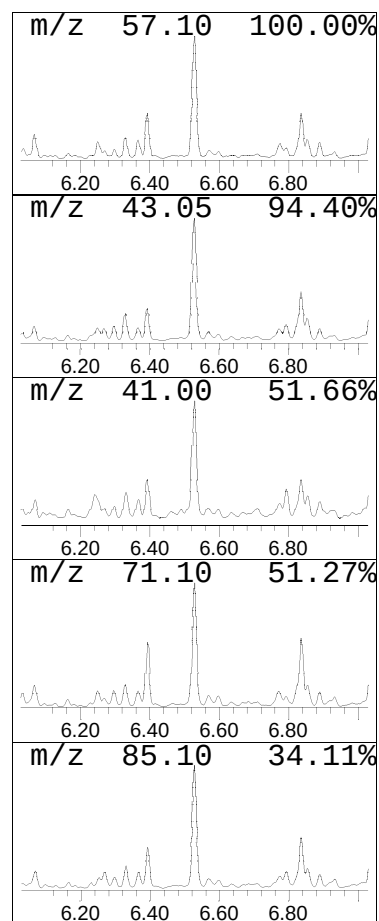
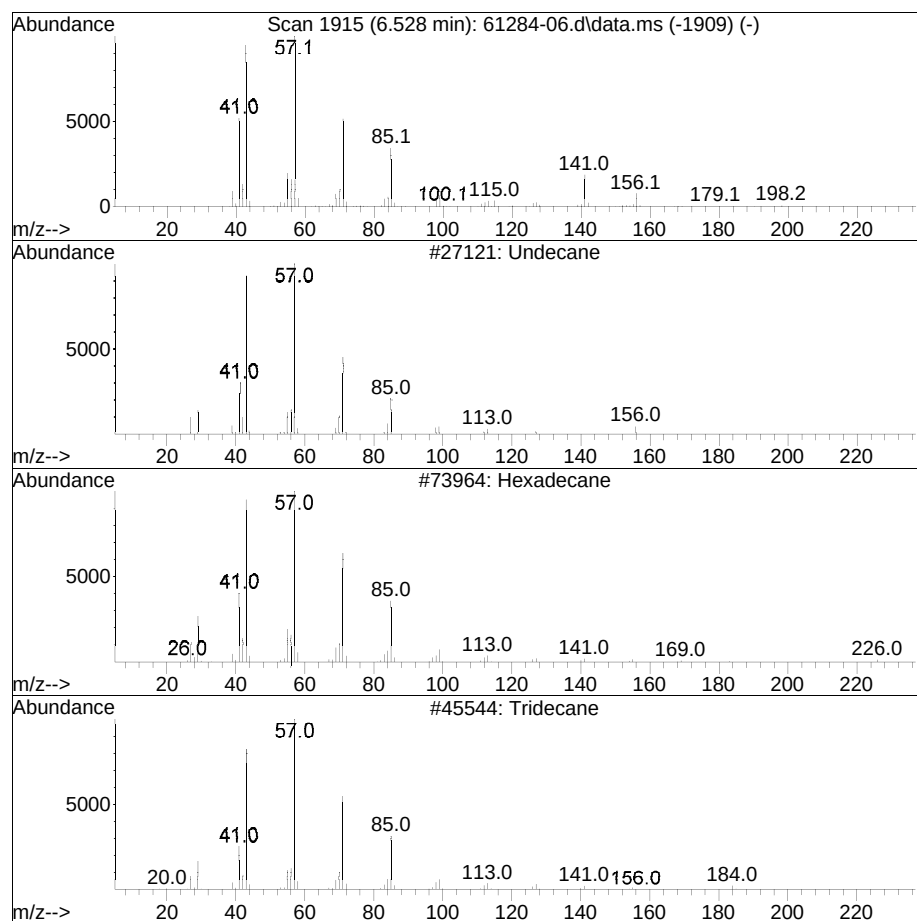
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Unknown Alkane Concentration Rank 1

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 6.528 | 276.54 ug/ml | 7205930 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | Undecane             |              | 156 | C11H24  | 001120-21-4 | 93   |
| 2       | Hexadecane           |              | 226 | C16H34  | 000544-76-3 | 87   |
| 3       | Tridecane            |              | 184 | C13H28  | 000629-50-5 | 86   |
| 4       | Tridecane, 6-methyl- |              | 198 | C14H30  | 013287-21-3 | 74   |
| 5       | Tetradecane          |              | 198 | C14H30  | 000629-59-4 | 72   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

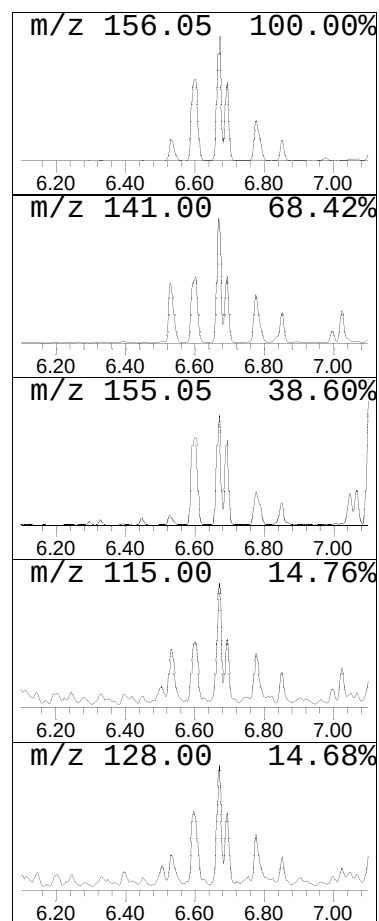
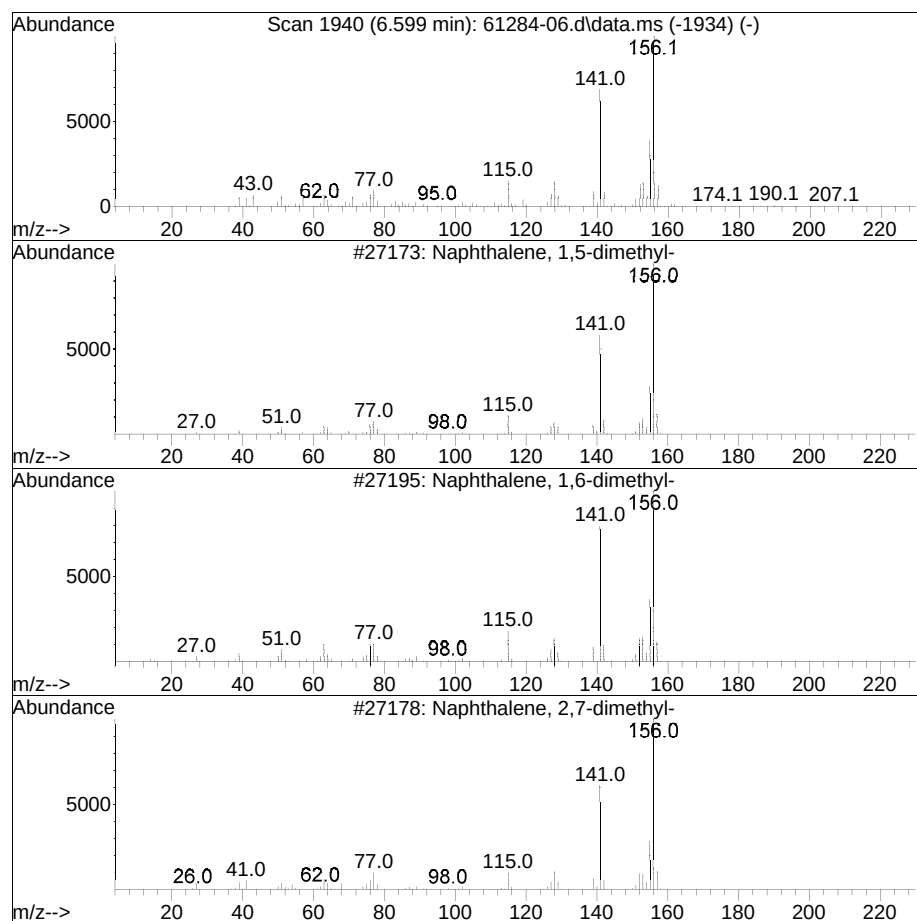
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Unknown Naphthalene Concentration Rank 5

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 6.599 | 119.34 ug/ml | 3109740 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 2       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 3       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 4       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 95   |
| 5       |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 95   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

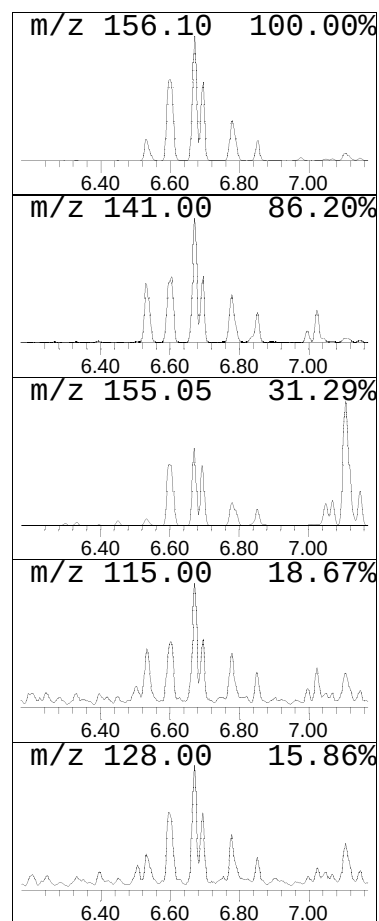
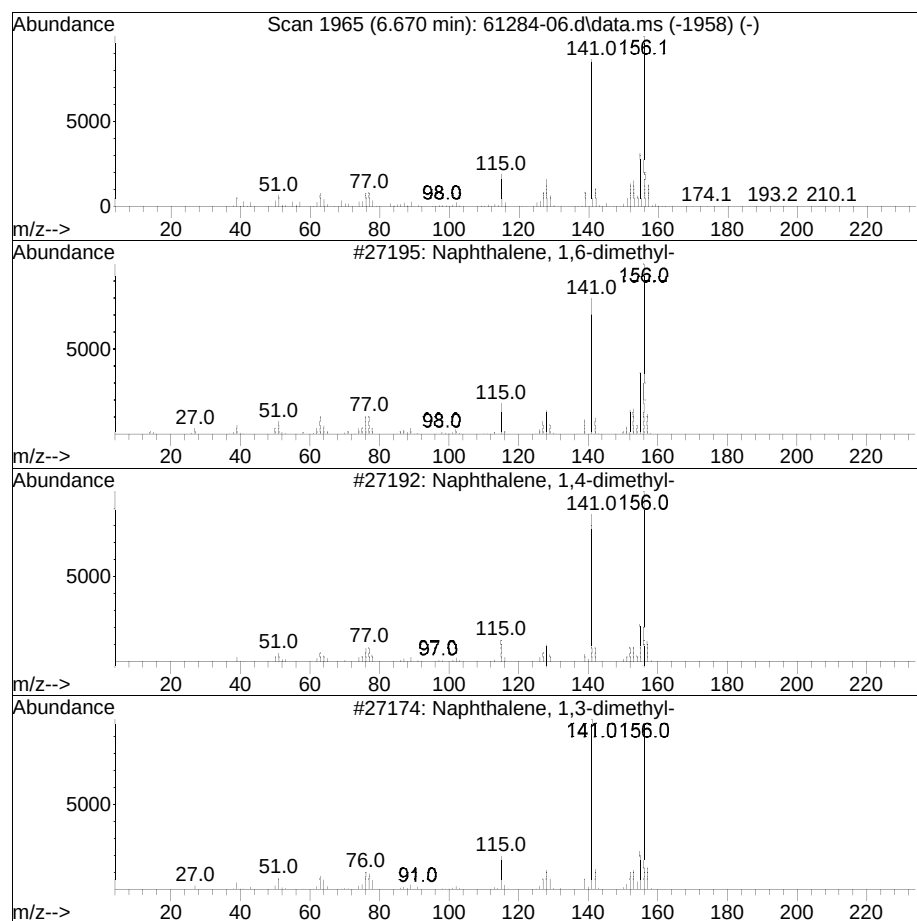
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Unknown Naphthalene Concentration Rank 3

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 6.670 | 127.54 ug/ml | 3323290 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 97   |      |
| 2       | Naphthalene, 1,4-dimethyl- | 156          | C12H12 | 000571-58-4 | 97   |      |
| 3       | Naphthalene, 1,3-dimethyl- | 156          | C12H12 | 000575-41-7 | 96   |      |
| 4       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 96   |      |
| 5       | Naphthalene, 1,7-dimethyl- | 156          | C12H12 | 000575-37-1 | 95   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

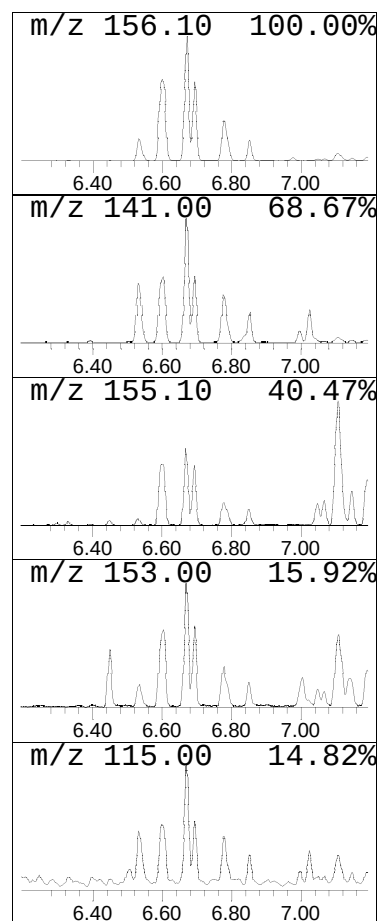
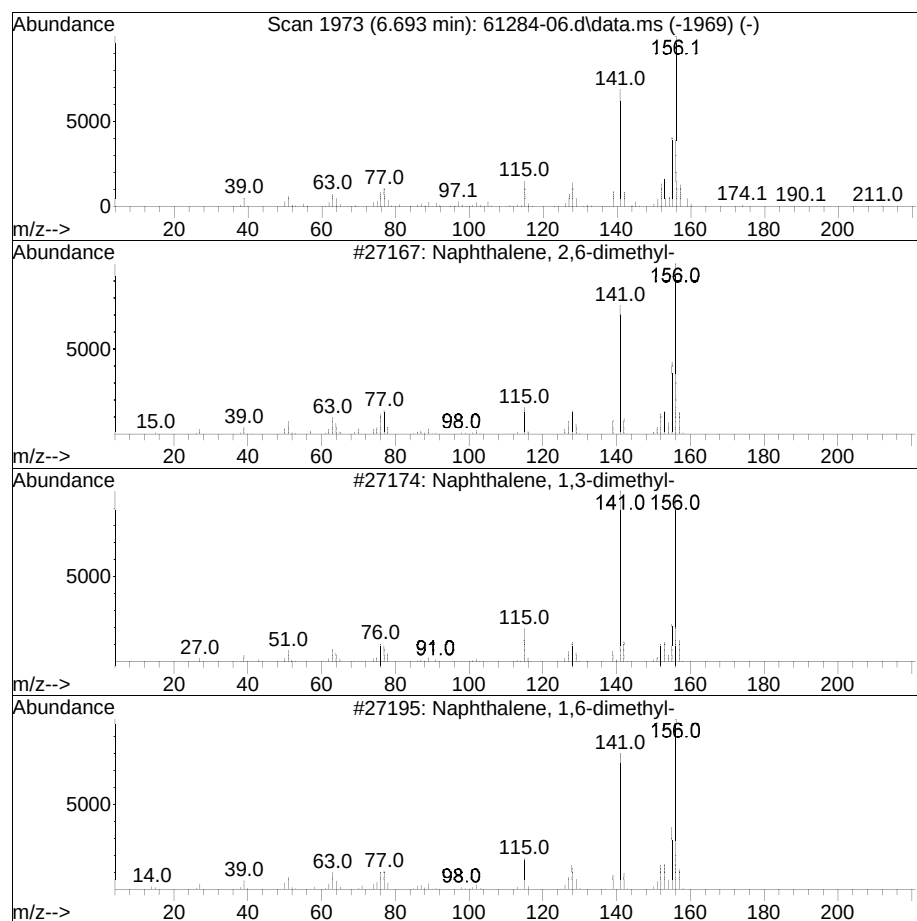
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Unknown Naphthalene Concentration Rank 15

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.693 | 51.48 ug/ml | 1341370 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 2       |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 3       |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 4       |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 96   |
| 5       |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytcl,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

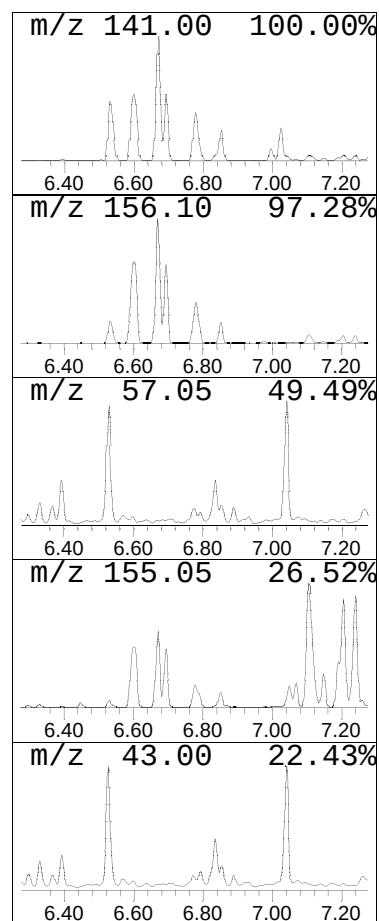
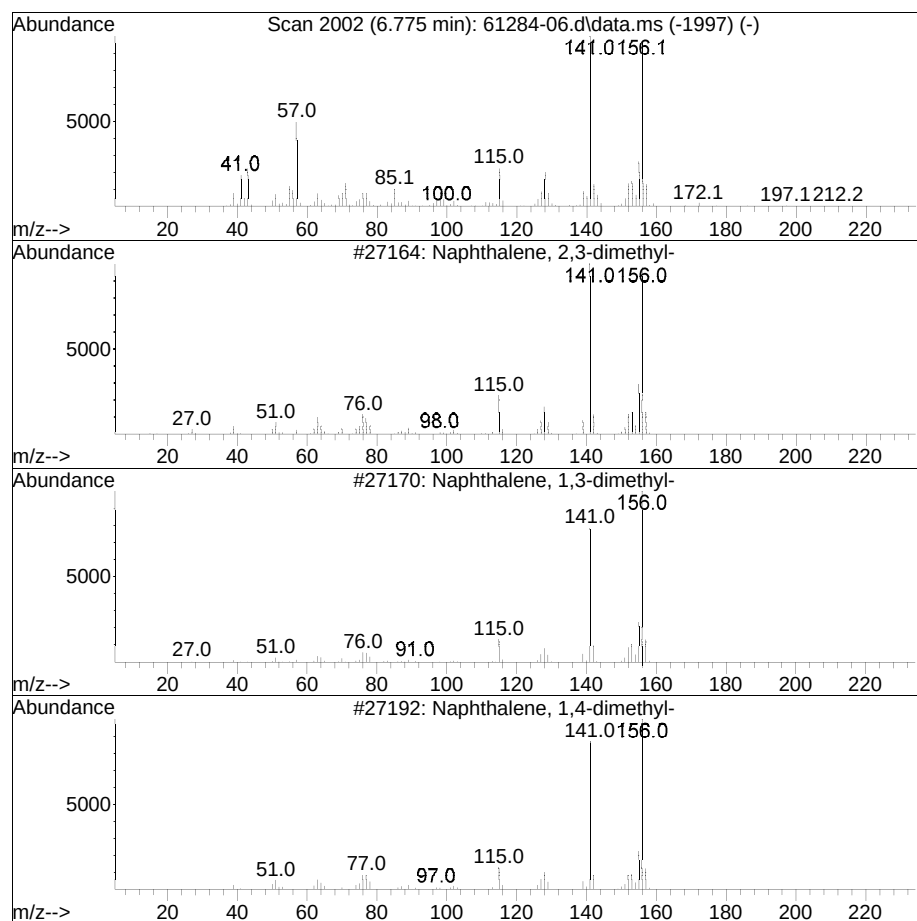
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Unknown Naphthalene Concentration Rank 14

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.775 | 57.77 ug/ml | 1505410 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 95   |      |
| 2       | Naphthalene, 1,3-dimethyl- | 156          | C12H12 | 000575-41-7 | 95   |      |
| 3       | Naphthalene, 1,4-dimethyl- | 156          | C12H12 | 000571-58-4 | 95   |      |
| 4       | Naphthalene, 1,2-dimethyl- | 156          | C12H12 | 000573-98-8 | 91   |      |
| 5       | Naphthalene, 1,6-dimethyl- | 156          | C12H12 | 000575-43-9 | 91   |      |





## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

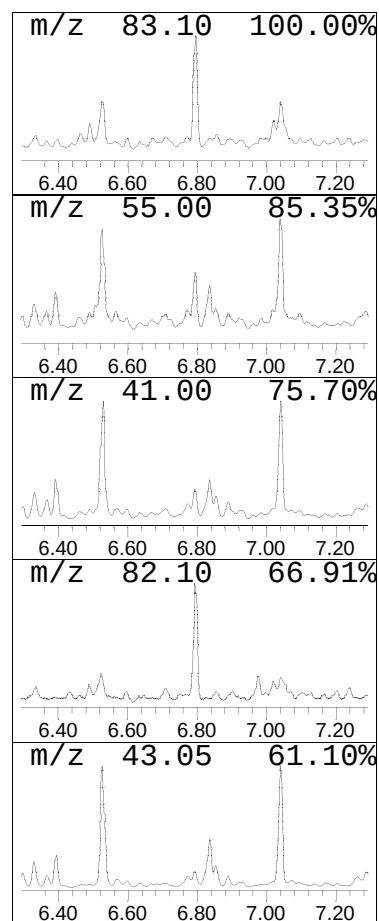
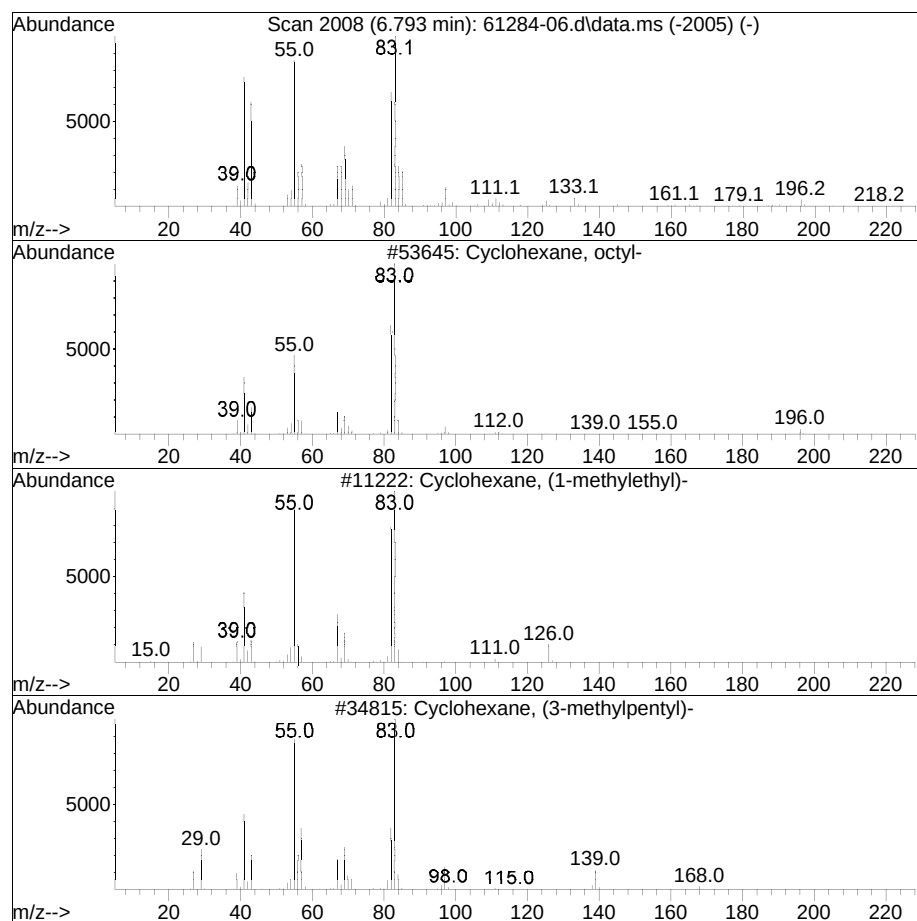
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Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Unknown Concentration Rank 13

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.793 | 59.26 ug/ml | 1544210 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------|-----|---------|-------------|------|
| 1       |   | Cyclohexane, octyl-            | 196 | C14H28  | 001795-15-9 | 52   |
| 2       |   | Cyclohexane, (1-methylethyl)-  | 126 | C9H18   | 000696-29-7 | 50   |
| 3       |   | Cyclohexane, (3-methylpentyl)- | 168 | C12H24  | 061142-38-9 | 50   |
| 4       |   | 1-Butene, 2,3,3-trimethyl-     | 98  | C7H14   | 000594-56-9 | 38   |
| 5       |   | 7-Tetradecene, (Z)-            | 196 | C14H28  | 041446-60-0 | 25   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

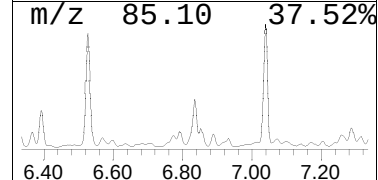
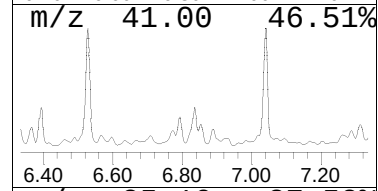
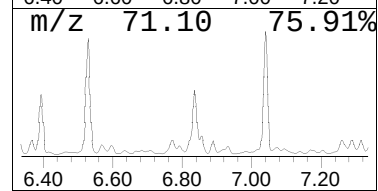
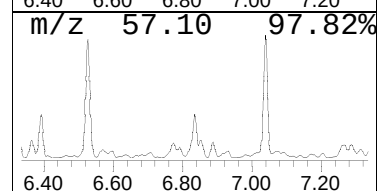
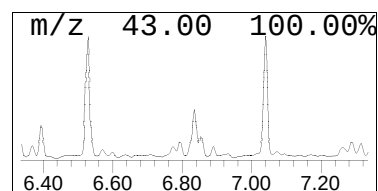
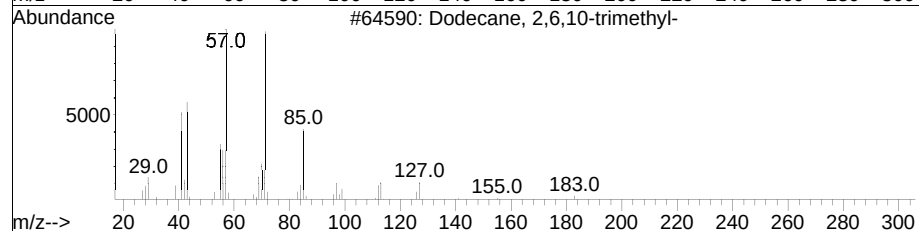
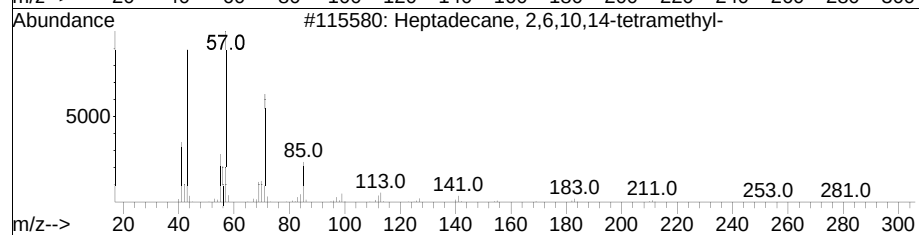
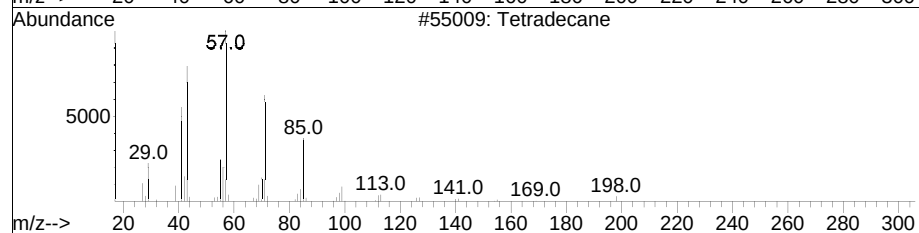
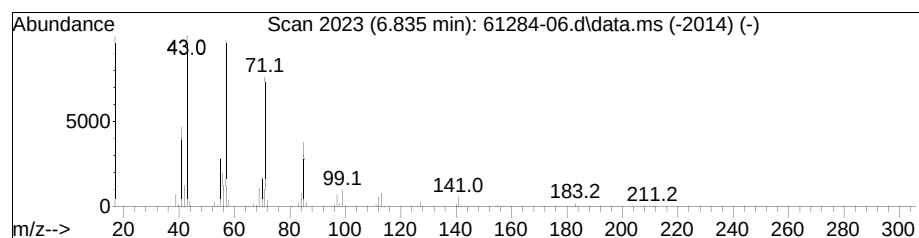
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Unknown Alkane Concentration Rank 6

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 6.835 | 107.03 ug/ml | 2789030 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Tetradecane                         | 198 | C14H30  | 000629-59-4 | 90   |
| 2       |   | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44  | 018344-37-1 | 90   |
| 3       |   | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32  | 003891-98-3 | 90   |
| 4       |   | Heptadecane, 2,6-dimethyl-          | 268 | C19H40  | 054105-67-8 | 87   |
| 5       |   | Eicosane                            | 282 | C20H42  | 000112-95-8 | 86   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

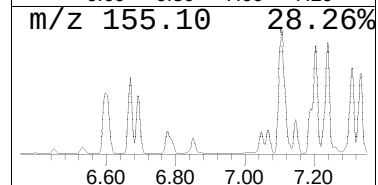
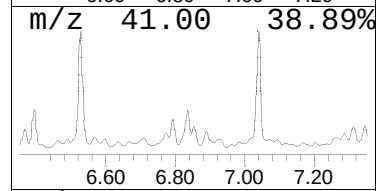
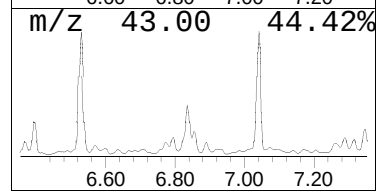
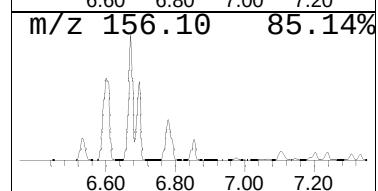
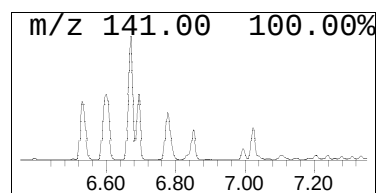
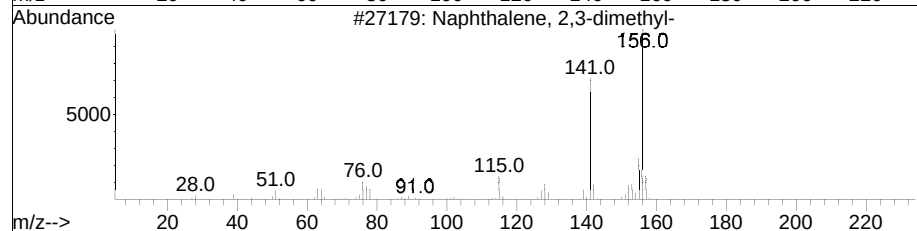
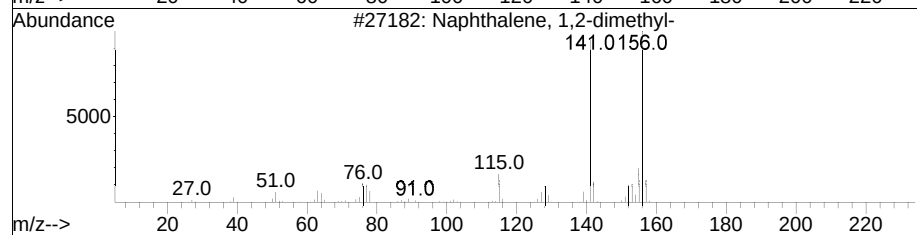
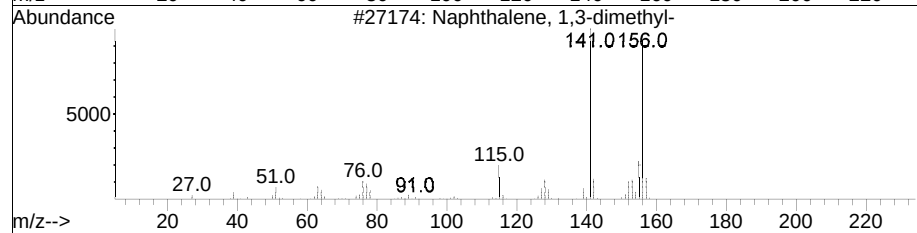
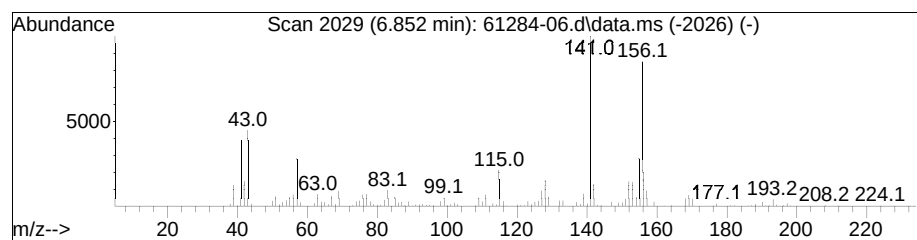
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Unknown Naphthalene Concentration Rank 11

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 6.852 | 63.12 ug/ml | 1644820 | IS1_Acenaphthene-d10 | 6.977 |

| Hit# of | 5                          | Tentative ID | MW     | MolForm     | CAS# | Qual |
|---------|----------------------------|--------------|--------|-------------|------|------|
| 1       | Naphthalene, 1,3-dimethyl- | 156          | C12H12 | 000575-41-7 | 91   |      |
| 2       | Naphthalene, 1,2-dimethyl- | 156          | C12H12 | 000573-98-8 | 72   |      |
| 3       | Naphthalene, 2,3-dimethyl- | 156          | C12H12 | 000581-40-8 | 70   |      |
| 4       | Naphthalene, 1,4-dimethyl- | 156          | C12H12 | 000571-58-4 | 70   |      |
| 5       | Naphthalene, 1,5-dimethyl- | 156          | C12H12 | 000571-61-9 | 64   |      |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

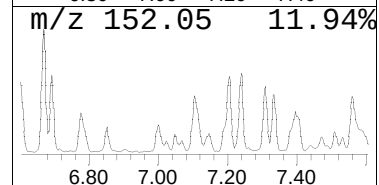
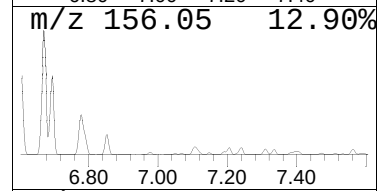
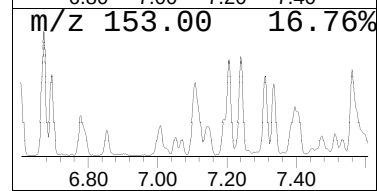
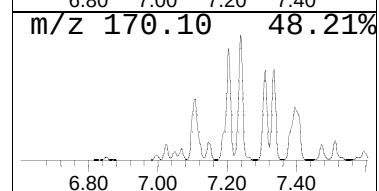
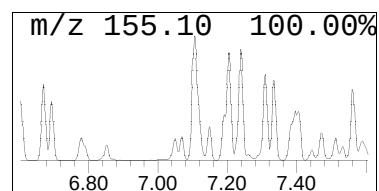
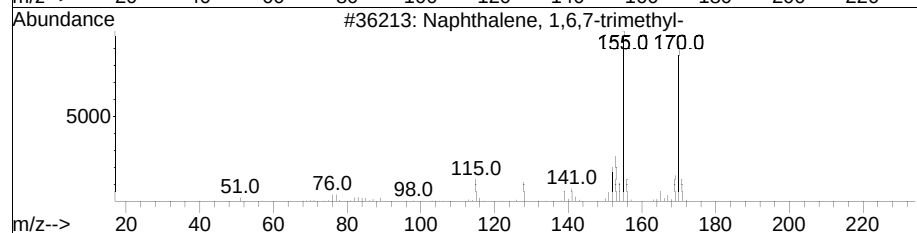
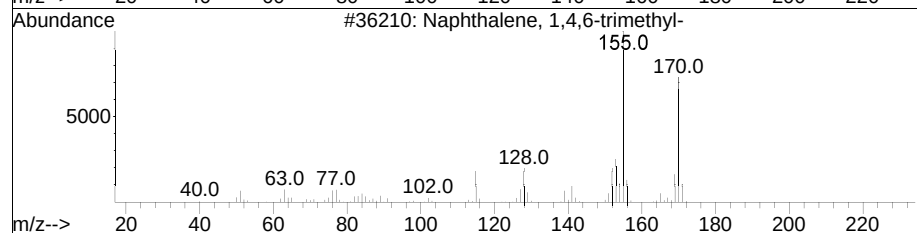
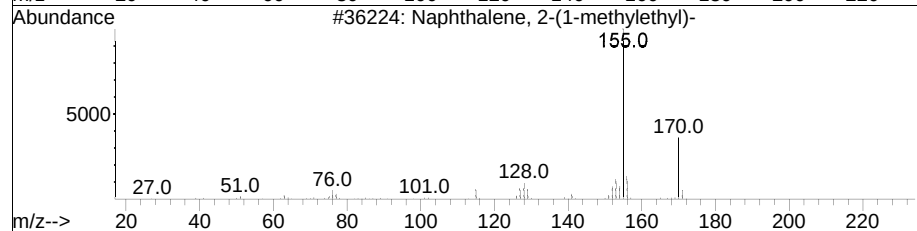
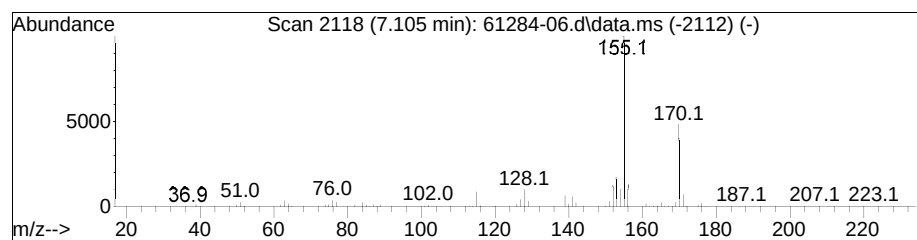
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Unknown Naphthalene Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 7.105 | 67.60 ug/ml | 1761470 | IS3_Acenaphthene-d10 | 6.977 |

| Hit# of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14  | 002027-17-0 | 91   |
| 2       |   | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2 | 89   |
| 3       |   | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7 | 89   |
| 4       |   | 2-Naphthyl methyl ketone        | 170 | C12H10O | 000093-08-3 | 72   |
| 5       |   | 1'-Acetonaphthone               | 170 | C12H10O | 000941-98-0 | 72   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

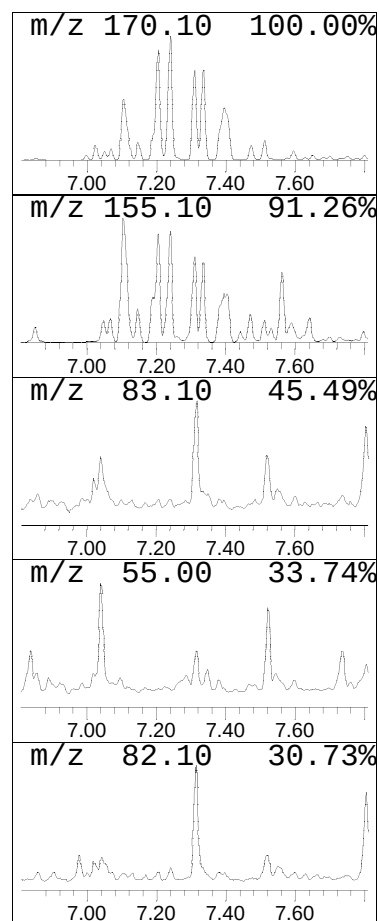
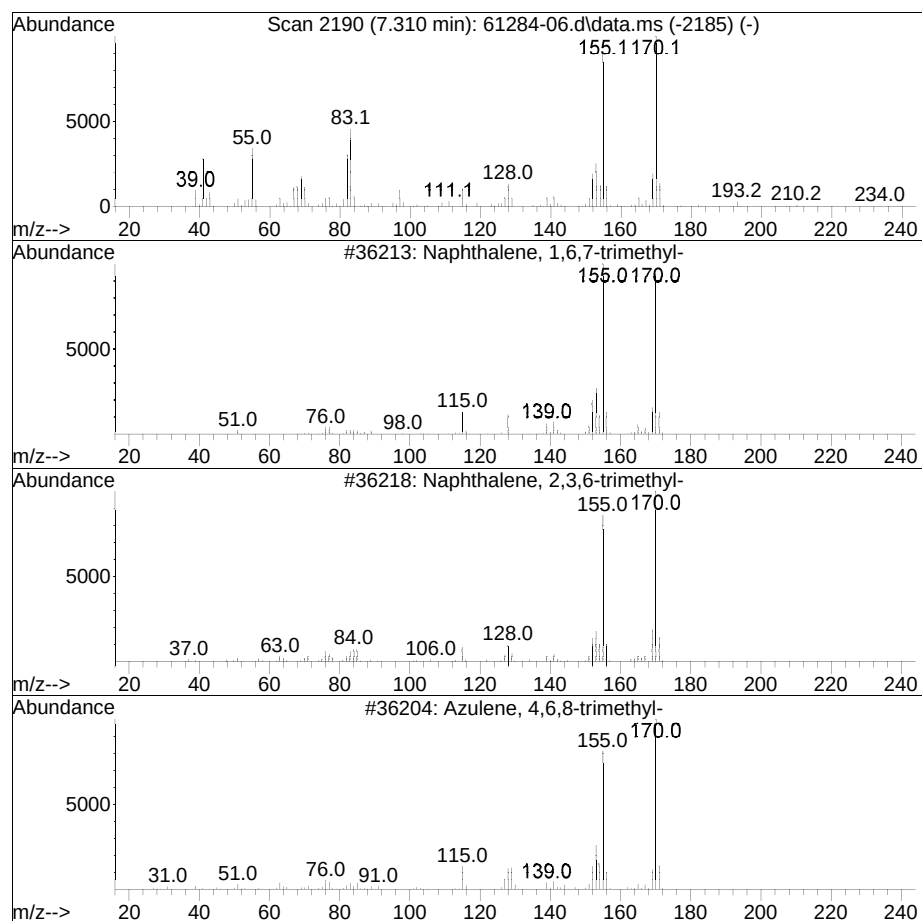
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Unknown PAH Concentration Rank 12

| R.T.  | EstConc     | Area    | Relative to ISTD     | R.T.  |
|-------|-------------|---------|----------------------|-------|
| 7.310 | 61.68 ug/ml | 1607200 | IS3_Acenaphthene-d10 | 6.977 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Naphthalene, 1,6,7-trimethyl-       | 170 | C13H14  | 002245-38-7  | 98   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14  | 000829-26-5  | 96   |
| 3    |    |   | Azulene, 4,6,8-trimethyl-           | 170 | C13H14  | 000941-81-1  | 90   |
| 4    |    |   | 1-(2,2-Dimethylcyclopropyl)-2-ph... | 170 | C13H14  | 1000294-91-1 | 64   |
| 5    |    |   | 1H,3H-Thieno[3,4-c]thiophene, 4,... | 170 | C8H10S2 | 015441-54-0  | 53   |



## Library Search Compound Report

Data Path : I:\8270\SV103\191226\  
Data File : 61284-06.d  
Acq On : 26 Dec 2019 6:48 pm  
Operator : SV103:ek  
Sample : l1961284-06d,32,5,nytc1,rv,jt  
Misc : wg1324867,wg1323715,ical16333  
ALS Vial : 19 Sample Multiplier: 1

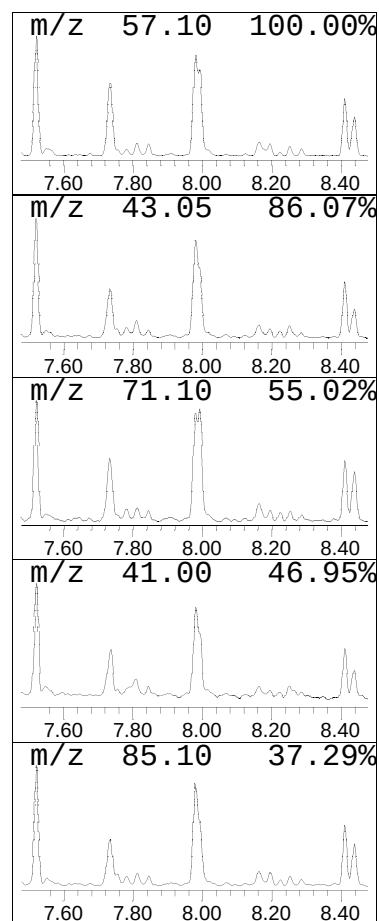
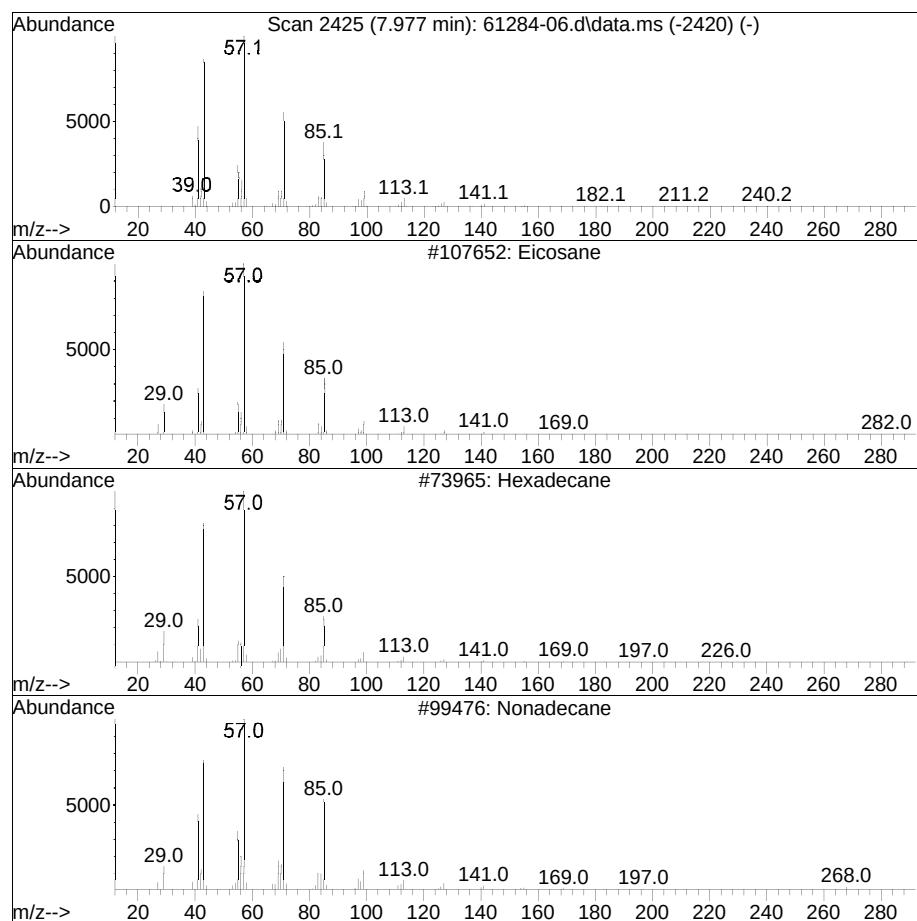
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Unknown Alkane Concentration Rank 2

| R.T.  | EstConc      | Area    | Relative to ISTD     | R.T.  |
|-------|--------------|---------|----------------------|-------|
| 7.977 | 146.02 ug/ml | 4597770 | IS1_Phenanthrene-d10 | 8.387 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 91   |
| 2       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 91   |
| 3       | Nonadecane  |              | 268 | C19H40  | 000629-92-5 | 87   |
| 4       | Tridecane   |              | 184 | C13H28  | 000629-50-5 | 86   |
| 5       | Tetradecane |              | 198 | C14H30  | 000629-59-4 | 80   |



# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV103\191226\  
 Data File : 61284-06.d  
 Acq On : 26 Dec 2019 6:48 pm  
 Operator : SV103:ek  
 Sample : l1961284-06d,32,5,nytc1,rv,jt  
 Misc : wg1324867,wg1323715,ical16333  
 ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name |            | RT    | EstConc | Units | Response | --Internal<br># | Standard<br>RT | Standard<br>Resp | Standard<br>Conc |
|------------------|------------|-------|---------|-------|----------|-----------------|----------------|------------------|------------------|
| Unknown          | Alkane     | 4.715 | 85.0    | ug/ml | 3637880  | 4               | 5.284          | 1711860          | 40.0             |
| Unknown          | Alkane     | 5.380 | 121.3   | ug/ml | 5193120  | 5               | 5.284          | 1711860          | 40.0             |
| Unknown          | Alkane     | 5.809 | 66.9    | ug/ml | 2865110  | 5               | 5.284          | 1711860          | 40.0             |
| Unknown          | Cycloal... | 6.241 | 78.8    | ug/ml | 2052470  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Alkane     | 6.528 | 276.5   | ug/ml | 7205930  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Naphtha... | 6.599 | 119.3   | ug/ml | 3109740  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Naphtha... | 6.670 | 127.5   | ug/ml | 3323290  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Naphtha... | 6.693 | 51.5    | ug/ml | 1341370  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Naphtha... | 6.775 | 57.8    | ug/ml | 1505410  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          |            | 6.793 | 59.3    | ug/ml | 1544210  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Alkane     | 6.835 | 107.0   | ug/ml | 2789030  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Naphtha... | 6.852 | 63.1    | ug/ml | 1644820  | 6               | 6.977          | 1042300          | 40.0             |
| Unknown          | Naphtha... | 7.105 | 67.6    | ug/ml | 1761470  | 8               | 6.977          | 1042300          | 40.0             |
| Unknown          | PAH        | 7.310 | 61.7    | ug/ml | 1607200  | 8               | 6.977          | 1042300          | 40.0             |
| Unknown          | Alkane     | 7.977 | 146.0   | ug/ml | 4597770  | 9               | 8.387          | 1259500          | 40.0             |

## **Semivolatiles Standards Data**



# **Initial Calibration**

# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Calibration dates : 06/09/19 14:39 06/10/19 04:22

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL15860

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) I IS1_1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 2) t N-Nitrosodimethylamine         | 0.688          | 0.716 | 0.781 | 0.689 | 0.749 | 0.713 | 0.705 | 0.697 | 0.704 | 0.695 | 0.714 | 4.16  |
| 3) t Pyridine                       | 1.253          | 1.159 | 1.325 | 1.368 | 1.339 | 1.218 | 1.277 | 1.221 | 1.254 | 1.257 | 1.267 | 4.96  |
| 4) S 2-Fluorophenol                 | 1.085          | 0.985 | 1.205 | 1.135 | 1.124 | 1.154 | 1.112 | 1.102 | 1.088 | 1.071 | 1.106 | 5.22  |
| 5) T Aniline                        | 1.870          | 1.894 | 1.967 | 1.932 | 1.907 | 1.822 | 1.735 | 1.653 | 1.607 | 1.579 | 1.797 | 7.94  |
| 6) t 2-Chlorophenol                 | 1.170          | 1.173 | 1.323 | 1.295 | 1.311 | 1.282 | 1.256 | 1.229 | 1.211 | 1.188 | 1.244 | 4.62  |
| 7) S Phenol-d6                      | 1.401          | 1.286 | 1.453 | 1.405 | 1.404 | 1.375 | 1.328 | 1.270 | 1.255 | 1.211 | 1.339 | 5.99  |
| 8) T Phenol                         | 1.630          | 1.475 | 1.683 | 1.651 | 1.633 | 1.620 | 1.547 | 1.515 | 1.481 | 1.449 | 1.568 | 5.41  |
| 9) T bis(2-Chloroethyl)ether        | 1.139          | 1.101 | 1.172 | 1.112 | 1.135 | 1.067 | 1.025 | 0.972 | 0.961 | 0.936 | 1.062 | 7.88  |
| 10) T 1,3-Dichlorobenzene           | 1.744          | 1.560 | 1.671 | 1.562 | 1.603 | 1.528 | 1.457 | 1.424 | 1.366 | 1.325 | 1.524 | 8.70  |
| 11) T 1,4-Dichlorobenzene           | 1.696          | 1.621 | 1.678 | 1.593 | 1.559 | 1.542 | 1.469 | 1.422 | 1.372 | 1.328 | 1.528 | 8.28  |
| 12) T 1,2-Dichlorobenzene           |                | 1.466 | 1.705 | 1.537 | 1.560 | 1.473 | 1.391 | 1.296 | 1.239 | 1.169 | 1.426 | 11.90 |
| 13) t Benzyl alcohol                | 0.922          | 0.915 | 0.898 | 0.946 | 0.978 | 0.981 | 0.939 | 0.893 | 0.849 | 0.815 | 0.914 | 5.76  |
| 14) T bis(2-chloroisopropyl)ether   | 1.995          | 1.949 | 2.042 | 1.951 | 1.982 | 1.918 | 1.797 | 1.693 | 1.634 | 1.598 | 1.856 | 8.74  |
| 15) T 2-Methylphenol                | 0.916          | 1.029 | 1.153 | 1.113 | 1.155 | 1.152 | 1.108 | 1.074 | 1.036 | 0.987 | 1.072 | 7.45  |
| 16) T Hexachloroethane              | 0.606          | 0.576 | 0.633 | 0.579 | 0.609 | 0.586 | 0.573 | 0.549 | 0.533 | 0.524 | 0.577 | 5.94  |
| 17) T n-Nitrosodi-n-propylamine     | 0.789          | 0.765 | 0.826 | 0.814 | 0.882 | 0.867 | 0.856 | 0.830 | 0.803 | 0.812 | 0.824 | 4.36  |
| 18) T 3-Methylphenol/4-Methylphenol | 1.073          | 1.101 | 1.278 | 1.211 | 1.242 | 1.211 | 1.189 | 1.145 | 1.096 | 1.073 | 1.162 | 6.39  |
| 19) S Nitrobenzene-d5               | 1.175          | 1.082 | 1.178 | 1.203 | 1.276 | 1.257 | 1.253 | 1.207 | 1.183 | 1.184 | 1.200 | 4.60  |
| 20) T Nitrobenzene                  | 1.252          | 1.118 | 1.259 | 1.280 | 1.314 | 1.282 | 1.261 | 1.220 | 1.165 | 1.155 | 1.231 | 5.20  |
| 21) T Isophorone                    | 1.889          | 2.016 | 2.277 | 2.170 | 2.362 | 2.297 | 2.201 | 2.114 | 2.098 | 2.182 | 2.161 | 6.47  |
| 22) T 2-Nitrophenol                 |                |       |       | 0.574 | 0.634 | 0.656 | 0.668 | 0.669 | 0.664 | 0.655 | 0.646 | 5.21  |
| 23) T 2,4-Dimethylphenol            | 1.052          | 1.103 | 1.214 | 1.308 | 1.277 | 1.263 | 1.233 | 1.192 | 1.178 | 1.176 | 1.200 | 6.53  |
| 24) T bis(2-Chloroethoxy)methane    | 1.480          | 1.528 | 1.650 | 1.586 | 1.572 | 1.500 | 1.439 | 1.343 | 1.335 | 1.364 | 1.480 | 7.34  |
| 25) T 2,4-Dichlorophenol            | 1.024          | 1.083 | 1.191 | 1.275 | 1.275 | 1.279 | 1.263 | 1.190 | 1.159 | 1.185 | 1.192 | 7.26  |
| 26) T 1,2,4-Trichlorobenzene        | 1.603          | 1.467 | 1.535 | 1.459 | 1.460 | 1.436 | 1.372 | 1.307 | 1.294 | 1.304 | 1.424 | 7.27  |
| 27) I IS2_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 28) T Benzaldehyde                  | 0.907          | 0.823 | 0.833 | 0.912 | 0.929 | 0.925 | 0.923 | 0.762 | 0.673 | 0.846 | 0.853 | 9.88  |
| 29) T Acetophenone                  | 1.629          | 1.530 | 1.525 | 1.606 | 1.742 | 1.722 | 1.694 | 1.599 | 1.559 | 1.511 | 1.611 | 5.22  |
| 30) T m-Toluidine                   | 1.278          | 1.267 | 1.440 | 1.485 | 1.592 | 1.551 | 1.630 | 1.374 | 1.253 | 1.426 | 1.430 | 9.56  |
| 31) T 2-Chloroaniline               | 1.537          | 1.458 | 1.475 | 1.533 | 1.613 | 1.605 | 1.593 | 1.509 | 1.438 | 1.387 | 1.515 | 5.01  |
| 32) I IS3_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 33) T 1,4-Dioxane                   | 0.395          | 0.407 | 0.461 | 0.430 | 0.441 | 0.441 | 0.432 | 0.425 | 0.407 | 0.392 | 0.423 | 5.27  |
| 34) T n-Decane                      | 1.135          | 1.163 | 1.140 | 1.132 | 1.177 | 1.130 | 1.103 | 1.060 | 0.994 | 0.960 | 1.099 | 6.57  |
| 35) I IS1_Naphthalene-d8            | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 36) T Naphthalene                   |                | 1.125 | 1.179 | 1.100 | 1.106 | 1.043 | 0.979 | 0.933 | 0.860 | 0.811 | 1.015 | 12.51 |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Calibration dates : 06/09/19 14:39 06/10/19 04:22

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL15860

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                         | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 37) T Benzoic Acid               |                |       |       | 0.114 | 0.159 | 0.197 | 0.251 | 0.267 | 0.264 | 0.272 | *L    | 0.9990 |
| 38) T 4-Chloroaniline            | 0.135          | 0.137 | 0.131 | 0.124 | 0.133 | 0.127 | 0.120 | 0.119 | 0.113 | 0.110 | 0.125 | 7.39   |
| 39) T Hexachlorobutadiene        | 0.229          | 0.226 | 0.235 | 0.225 | 0.235 | 0.219 | 0.215 | 0.210 | 0.203 | 0.204 | 0.220 | 5.33   |
| 40) T p-Chloro-m-cresol          | 0.232          | 0.267 | 0.280 | 0.290 | 0.309 | 0.300 | 0.303 | 0.289 | 0.275 | 0.268 | 0.281 | 8.01   |
| 41) T 2-Methylnaphthalene        | 0.781          | 0.780 | 0.832 | 0.811 | 0.785 | 0.751 | 0.731 | 0.677 | 0.636 | 0.608 | 0.739 | 10.21  |
| 42) T 1-Methylnaphthalene        | 0.287          | 0.254 | 0.268 | 0.266 | 0.251 | 0.243 | 0.233 | 0.220 | 0.210 | 0.205 | 0.244 | 10.94  |
| 43) T Hexachlorocyclopentadiene  |                |       |       | 0.242 | 0.263 | 0.273 | 0.290 | 0.291 | 0.289 | 0.288 | 0.277 | 6.70   |
| 44) T 2,4,6-Trichlorophenol      |                | 0.206 | 0.239 | 0.246 | 0.260 | 0.258 | 0.261 | 0.269 | 0.254 | 0.249 | 0.249 | 7.39   |
| 45) T 2,4,5-Trichlorophenol      |                | 0.222 | 0.272 | 0.257 | 0.277 | 0.282 | 0.280 | 0.260 | 0.261 | 0.264 | 0.264 | 6.91   |
| 46) S 2-Fluorobiphenyl           | 1.006          | 0.905 | 0.940 | 0.926 | 0.917 | 0.866 | 0.828 | 0.785 | 0.738 | 0.713 | 0.862 | 10.96  |
| 47) T 2-Chloronaphthalene        | 0.820          | 0.805 | 0.827 | 0.805 | 0.782 | 0.742 | 0.727 | 0.687 | 0.655 | 0.622 | 0.747 | 9.76   |
| 48) T 2-Nitroaniline             |                |       |       | 0.187 | 0.214 | 0.224 | 0.239 | 0.237 | 0.229 | 0.230 | 0.223 | 8.08   |
| 49) T 1,4-Dinitrobenzene         |                |       |       | 0.072 | 0.089 | 0.092 | 0.100 | 0.101 | 0.099 | 0.101 | 0.093 | 11.21  |
| 50) T 1,3-Dinitrobenzene         |                |       |       | 0.097 | 0.112 | 0.109 | 0.107 | 0.104 | 0.102 | 0.100 | 0.104 | 5.14   |
| 51) T Dimethyl phthalate         |                | 0.875 | 0.939 | 0.899 | 0.938 | 0.887 | 0.830 | 0.783 | 0.743 | 0.700 | 0.844 | 10.17  |
| 52) T Acenaphthylene             | 1.205          | 1.153 | 1.276 | 1.237 | 1.271 | 1.216 | 1.132 | 1.066 | 1.000 | 0.957 | 1.151 | 9.71   |
| 53) T 2,6-Dinitrotoluene         |                | 0.130 | 0.165 | 0.179 | 0.191 | 0.187 | 0.184 | 0.180 | 0.175 | 0.179 | 0.174 | 10.46  |
| 54) T 1,2-Dinitrobenzene         |                |       |       | 0.061 | 0.068 | 0.063 | 0.063 | 0.062 | 0.061 | 0.063 | 0.063 | 3.74   |
| 55) I IS2_Naphthalene-d8         | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 56) T a-Terpineol                | 0.210          | 0.218 | 0.218 | 0.219 | 0.255 | 0.254 | 0.258 | 0.251 | 0.232 | 0.211 | 0.233 | 8.43   |
| 57) T 3-Chloroaniline            | 0.136          | 0.126 | 0.123 | 0.133 | 0.138 | 0.133 | 0.129 | 0.121 | 0.110 | 0.108 | 0.126 | 8.30   |
| 58) T 2,6-Dichlorophenol         | 0.228          | 0.251 | 0.261 | 0.282 | 0.325 | 0.319 | 0.321 | 0.315 | 0.301 | 0.284 | 0.289 | 11.59  |
| 59) T 1-chloro-2-nitrobenzene    |                | 0.104 | 0.120 | 0.117 | 0.137 | 0.134 | 0.138 | 0.136 | 0.131 | 0.127 | 0.127 | 8.97   |
| 60) T Caprolactam                |                |       |       | 0.104 | 0.132 | 0.140 | 0.152 | 0.157 | 0.156 | 0.152 | 0.142 | 13.40  |
| 61) T 1,2,4,5-Tetrachlorobenzene | 0.419          | 0.402 | 0.410 | 0.396 | 0.423 | 0.400 | 0.394 | 0.378 | 0.355 | 0.337 | 0.391 | 7.04   |
| 62) T Biphenyl                   | 0.934          | 0.863 | 0.879 | 0.901 | 0.951 | 0.882 | 0.844 | 0.793 | 0.732 | 0.673 | 0.845 | 10.44  |
| 63) I IS1_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 64) T 3-Nitroaniline             |                | 0.269 | 0.315 | 0.338 | 0.364 | 0.356 | 0.355 | 0.360 | 0.346 | 0.335 | 0.338 | 8.80   |
| 65) T Acenaphthene               | 1.345          | 1.297 | 1.356 | 1.243 | 1.205 | 1.171 | 1.084 | 1.033 | 1.000 | 0.946 | 1.168 | 12.54  |
| 66) T 2,4-Dinitrophenol          |                |       |       | 0.116 | 0.145 | 0.164 | 0.192 | 0.207 | 0.214 | 0.212 | *L    | 0.9990 |
| 67) T Dibenzofuran               |                | 2.010 | 2.070 | 1.952 | 1.908 | 1.817 | 1.660 | 1.562 | 1.486 | 1.408 | 1.763 | 13.72  |
| 68) T 2,4-Dinitrotoluene         |                | 0.313 | 0.360 | 0.378 | 0.410 | 0.409 | 0.400 | 0.392 | 0.381 | 0.380 | 0.380 | 7.85   |
| 69) T 4-Nitrophenol              |                | 0.181 | 0.233 | 0.235 | 0.257 | 0.257 | 0.254 | 0.257 | 0.252 | 0.242 | 0.241 | 10.10  |
| 70) T 2,3,5,6-Tetrachlorophenol  |                | 0.347 | 0.353 | 0.389 | 0.431 | 0.428 | 0.418 | 0.426 | 0.419 | 0.418 | 0.403 | 8.06   |
| 71) T 2,3,4,6-Tetrachlorophenol  |                | 0.391 | 0.432 | 0.438 | 0.453 | 0.447 | 0.435 | 0.435 | 0.428 | 0.423 | 0.431 | 4.12   |
| 72) T Diethyl phthalate          | 1.396          | 1.452 | 1.580 | 1.508 | 1.570 | 1.490 | 1.412 | 1.350 | 1.334 | 1.291 | 1.438 | 6.87   |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Calibration dates : 06/09/19 14:39 06/10/19 04:22

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL15860

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                          | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg    | %RSD   |
|-----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 73) T Fluorene                    | 1.471          | 1.494 | 1.530 | 1.489 | 1.516 | 1.459 | 1.378 | 1.295 | 1.230 | 1.139 | 1.400  | 9.66   |
| 74) T 4-Chlorophenyl-phenylether  | 0.824          | 0.751 | 0.776 | 0.744 | 0.740 | 0.718 | 0.683 | 0.646 | 0.635 | 0.622 | 0.714  | 9.25   |
| 75) T 4-Nitroaniline              |                |       | 0.346 | 0.349 | 0.382 | 0.375 | 0.377 | 0.372 | 0.356 | 0.351 | 0.363  | 3.97   |
| 76) T 4,6-Dinitro-o-cresol        |                |       |       | 0.163 | 0.201 | 0.215 | 0.237 | 0.244 | 0.243 | 0.248 | 0.221  | 13.99  |
| 77) T NDPA/DPA                    | 1.252          | 1.248 | 1.264 | 1.295 | 1.301 | 1.238 | 1.149 | 1.107 | 1.067 | 1.024 | 1.194  | 8.34   |
| 78) T Azobenzene                  | 1.266          | 1.313 | 1.393 | 1.389 | 1.392 | 1.370 | 1.264 | 1.181 | 1.134 | 1.090 | 1.279  | 8.79   |
| 79) S 2,4,6-Tribromophenol        |                | 0.221 | 0.243 | 0.239 | 0.264 | 0.268 | 0.278 | 0.283 | 0.281 | 0.296 | 0.264  | 9.38   |
| 80) T 4-Bromophenyl-phenylether   | 0.469          | 0.458 | 0.483 | 0.460 | 0.484 | 0.465 | 0.457 | 0.443 | 0.441 | 0.447 | 0.461  | 3.29   |
| 81) T Hexachlorobenzene           | 0.574          | 0.563 | 0.578 | 0.557 | 0.566 | 0.544 | 0.523 | 0.519 | 0.515 | 0.528 | 0.547  | 4.37   |
| 82) T Pentachlorophenol           |                |       | 0.226 | 0.259 | 0.299 | 0.321 | 0.345 | 0.356 | 0.358 | 0.361 | *L     | 0.9998 |
| 83) I IS2_Acenaphthene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 84) T Dichloran                   |                |       |       | 0.100 | 0.144 | 0.160 | 0.188 | 0.198 | 0.201 | 0.194 | *L     | 0.9994 |
| 85) T Pentachloronitrobenzene     |                |       |       | 0.142 | 0.194 | 0.183 | 0.192 | 0.194 | 0.194 | 0.184 | 0.183  | 10.28  |
| 86) I IS3_Acenaphthene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 87) T Atrazine                    |                |       | 0.195 | 0.221 | 0.288 | 0.326 | 0.355 | 0.370 | 0.358 | 0.350 | *L     | 0.9992 |
| 88) I IS1_Phenanthrene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 89) T Phenanthrene                | 1.348          | 1.269 | 1.264 | 1.218 | 1.203 | 1.142 | 1.072 | 1.028 | 0.943 | 0.904 | 1.139  | 12.98  |
| 90) T Anthracene                  | 1.204          | 1.173 | 1.201 | 1.182 | 1.204 | 1.174 | 1.110 | 1.069 | 0.961 | 0.915 | 1.119  | 9.43   |
| 91) T Carbazole                   | 0.977          | 1.025 | 1.124 | 1.117 | 1.126 | 1.091 | 1.039 | 1.003 | 0.906 | 0.890 | 1.030  | 8.45   |
| 92) T Di-n-butylphthalate         |                | 0.926 | 1.011 | 1.119 | 1.235 | 1.267 | 1.256 | 1.173 | 1.073 | 1.057 | 1.124  | 10.51  |
| 93) T Fluoranthene                | 1.365          | 1.318 | 1.380 | 1.398 | 1.419 | 1.427 | 1.343 | 1.308 | 1.183 | 1.140 | 1.328  | 7.29   |
| 94) T Benzidine                   |                |       | 0.575 | 0.694 | 0.833 | 0.871 | 0.907 | 0.937 | 0.854 | 0.838 | 0.814  | 14.75  |
| 95) T Pyrene                      | 1.469          | 1.493 | 1.545 | 1.540 | 1.559 | 1.505 | 1.440 | 1.376 | 1.233 | 1.179 | 1.434  | 9.22   |
| 96) S 4-Terphenyl-d14             | 0.870          | 0.891 | 0.965 | 0.931 | 0.948 | 0.924 | 0.903 | 0.876 | 0.796 | 0.793 | 0.890  | 6.57   |
| 97) T Butyl benzyl phthalate      |                |       | 0.414 | 0.510 | 0.559 | 0.589 | 0.582 | 0.541 | 0.525 | 0.531 | 11.13  |        |
| 98) I IS2_Phenanthrene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 99) T Diphenamid                  |                |       | 0.377 | 0.465 | 0.473 | 0.494 | 0.487 | 0.459 | 0.427 | 0.454 | 8.93   |        |
| 100) I IS3_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 101) T n-Octadecane               |                | 0.320 | 0.327 | 0.362 | 0.391 | 0.402 | 0.398 | 0.362 | 0.338 | 0.323 | 0.358  | 9.16   |
| 102) T Parathion                  |                |       | 0.044 | 0.054 | 0.082 | 0.114 | 0.124 | 0.124 | 0.120 | 0.120 | *L     | 0.9977 |
| 103) T 3,3'-Dimethylbenzidine     |                |       | 0.341 | 0.569 | 0.664 | 0.783 | 0.808 | 0.775 | 0.759 | *L    | 0.9988 |        |
| 104) I IS1_Chrysene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 105) T Benzo[a]anthracene         | 1.255          | 1.279 | 1.322 | 1.284 | 1.280 | 1.263 | 1.228 | 1.174 | 1.154 | 1.197 | 1.244  | 4.33   |
| 106) T 3,3'-Dichlorobenzidine     |                | 0.336 | 0.388 | 0.444 | 0.487 | 0.505 | 0.513 | 0.511 | 0.510 | 0.520 | 0.468  | 14.01  |
| 107) T Chrysene                   | 1.504          | 1.412 | 1.433 | 1.366 | 1.378 | 1.326 | 1.251 | 1.230 | 1.171 | 1.195 | 1.327  | 8.37   |
| 108) T bis(2-Ethylhexyl)phthalate |                | 0.410 | 0.535 | 0.664 | 0.824 | 0.829 | 0.849 | 0.797 | 0.798 | 0.816 | *L     | 0.9992 |



# Initial Calibration Summary

## Form 6

### Semivolatiles

**Client** : LaBella Associates, P.C. **Lab Number** : L1961284  
**Project Name** : FORMER WOLLENSACK OPTICAL **Project Number** : 2182207  
**Instrument ID** : GCMS5 **Ical Ref** : ICAL15860  
**Calibration dates** : 06/09/19 14:39 06/10/19 04:22

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                      | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 109) T Di-n-octylphthalate    |                |       |       | 0.891 | 1.196 | 1.337 | 1.414 | 1.359 | 1.358 | 1.351 | 1.272 | 14.21 |
| 110) T Benzo(b)fluoranthene   | 1.099          | 1.267 | 1.395 | 1.342 | 1.344 | 1.491 | 1.343 | 1.351 | 1.415 | 1.602 | 1.365 | 9.69  |
| 111) T Benzo(k)fluoranthene   | 1.150          | 1.307 | 1.402 | 1.366 | 1.422 | 1.246 | 1.350 | 1.299 | 1.240 | 1.080 | 1.286 | 8.51  |
| 112) T Benzo(a)pyrene         |                | 1.125 | 1.255 | 1.267 | 1.311 | 1.349 | 1.323 | 1.346 | 1.354 | 1.376 | 1.301 | 5.93  |
| 113) I IS1_Perylene-d12       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 114) T Indeno(1,2,3-cd)pyrene |                | 0.794 | 0.949 | 1.029 | 1.020 | 1.073 | 1.097 | 1.170 | 1.191 | 1.154 | 1.053 | 11.87 |
| 115) T Dibenzo[a,h]anthracene | 0.881          | 0.945 | 1.095 | 1.072 | 1.116 | 1.087 | 1.071 | 1.067 | 1.030 | 0.990 | 1.035 | 7.21  |
| 116) T Benzo(g,h,i)perylene   | 0.980          | 1.056 | 1.196 | 1.161 | 1.189 | 1.143 | 1.166 | 1.139 | 1.131 | 1.103 | 1.126 | 5.85  |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Calibration dates : 10/06/19 18:00 10/07/19 11:31

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16199

#### Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|-------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1) I IS1_1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 2) t N-Nitrosodimethylamine         | 0.775          | 0.829 | 0.824 | 0.741 | 0.784 | 0.770 | 0.745 | 0.764 | 0.750 | 0.743 | 0.773 | 4.13   |
| 3) t Pyridine                       | 1.281          | 1.469 | 1.409 | 1.241 | 1.278 | 1.270 | 1.263 | 1.320 | 1.303 | 1.297 | 1.313 | 5.43   |
| 4) S 2-Fluorophenol                 | 1.231          | 1.386 | 1.375 | 1.231 | 1.334 | 1.288 | 1.279 | 1.309 | 1.285 | 1.259 | 1.298 | 4.15   |
| 5) T Aniline                        | 2.120          | 2.105 | 2.179 | 1.973 | 2.092 | 2.089 | 2.017 | 2.067 | 2.039 | 1.984 | 2.067 | 3.10   |
| 6) t 2-Chlorophenol                 | 1.324          | 1.499 | 1.507 | 1.348 | 1.448 | 1.444 | 1.410 | 1.465 | 1.447 | 1.407 | 1.430 | 4.14   |
| 7) S Phenol-d6                      | 1.482          | 1.613 | 1.572 | 1.484 | 1.569 | 1.588 | 1.510 | 1.564 | 1.550 | 1.522 | 1.545 | 2.87   |
| 8) T Phenol                         | 1.776          | 1.948 | 1.811 | 1.693 | 1.775 | 1.790 | 1.750 | 1.794 | 1.763 | 1.740 | 1.784 | 3.73   |
| 9) T bis(2-Chloroethyl)ether        | 1.254          | 1.409 | 1.322 | 1.221 | 1.255 | 1.234 | 1.186 | 1.216 | 1.230 | 1.205 | 1.253 | 5.26   |
| 10) T 1,3-Dichlorobenzene           | 1.562          | 1.713 | 1.694 | 1.580 | 1.636 | 1.607 | 1.563 | 1.578 | 1.589 | 1.545 | 1.607 | 3.54   |
| 11) T 1,4-Dichlorobenzene           | 1.650          | 1.799 | 1.760 | 1.657 | 1.663 | 1.645 | 1.591 | 1.634 | 1.619 | 1.581 | 1.660 | 4.16   |
| 12) T 1,2-Dichlorobenzene           | 1.666          | 1.761 | 1.715 | 1.563 | 1.603 | 1.580 | 1.523 | 1.553 | 1.545 | 1.533 | 1.604 | 5.12   |
| 13) t Benzyl alcohol                | 0.997          | 1.097 | 0.992 | 0.959 | 1.022 | 1.041 | 1.001 | 1.040 | 1.051 | 1.054 | 1.026 | 3.85   |
| 14) T bis(2-chloroisopropyl)ether   | 1.788          | 1.862 | 1.777 | 1.654 | 1.689 | 1.687 | 1.663 | 1.686 | 1.687 | 1.656 | 1.715 | 4.07   |
| 15) T 2-Methylphenol                | 1.250          | 1.304 | 1.249 | 1.212 | 1.221 | 1.272 | 1.234 | 1.279 | 1.278 | 1.280 | 1.258 | 2.34   |
| 16) T Hexachloroethane              | 0.691          | 0.645 | 0.686 | 0.615 | 0.629 | 0.601 | 0.602 | 0.607 | 0.610 | 0.613 | 0.630 | 5.32   |
| 17) T n-Nitrosodi-n-propylamine     | 0.877          | 0.922 | 0.905 | 0.832 | 0.855 | 0.892 | 0.873 | 0.899 | 0.904 | 0.899 | 0.886 | 3.05   |
| 18) T 3-Methylphenol/4-Methylphenol | 1.302          | 1.360 | 1.307 | 1.241 | 1.302 | 1.336 | 1.317 | 1.362 | 1.365 | 1.362 | 1.325 | 2.99   |
| 19) S Nitrobenzene-d5               | 1.684          | 1.711 | 1.620 | 1.504 | 1.545 | 1.630 | 1.591 | 1.655 | 1.648 | 1.651 | *L    | 0.9997 |
| 20) T Nitrobenzene                  | 1.332          | 1.395 | 1.365 | 1.211 | 1.317 | 1.317 | 1.309 | 1.323 | 1.354 | 1.363 | 1.329 | 3.71   |
| 21) T Isophorone                    | 2.367          | 2.644 | 2.511 | 2.237 | 2.419 | 2.525 | 2.429 | 2.495 | 2.518 | 2.541 | 2.469 | 4.52   |
| 22) T 2-Nitrophenol                 | 0.564          | 0.650 | 0.576 | 0.614 | 0.656 | 0.698 | 0.720 | 0.763 | 0.779 | 0.785 | 0.680 | 11.98  |
| 23) T 2,4-Dimethylphenol            | 1.207          | 1.404 | 1.297 | 1.254 | 1.304 | 1.319 | 1.279 | 1.359 | 1.367 | 1.385 | 1.317 | 4.70   |
| 24) T bis(2-Chloroethoxy)methane    | 1.575          | 1.772 | 1.718 | 1.555 | 1.671 | 1.666 | 1.639 | 1.652 | 1.683 | 1.690 | 1.662 | 3.81   |
| 25) T 2,4-Dichlorophenol            | 1.085          | 1.146 | 1.179 | 1.084 | 1.203 | 1.218 | 1.219 | 1.254 | 1.279 | 1.275 | 1.194 | 5.94   |
| 26) T 1,2,4-Trichlorobenzene        | 1.368          | 1.403 | 1.344 | 1.243 | 1.280 | 1.276 | 1.251 | 1.288 | 1.310 | 1.341 | 1.310 | 3.99   |
| 27) I IS2_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 28) T Benzaldehyde                  | 1.289          | 1.249 | 1.325 | 1.189 | 1.299 | 1.185 | 1.143 | 1.192 | 1.165 | 1.131 | 1.217 | 5.65   |
| 29) T Acetophenone                  | 2.049          | 1.912 | 2.009 | 1.910 | 2.067 | 1.917 | 1.818 | 1.918 | 1.890 | 1.864 | 1.935 | 4.16   |
| 30) T m-Toluidine                   | 2.084          | 1.931 | 1.964 | 1.968 | 2.116 | 1.977 | 1.896 | 2.023 | 1.985 | 1.937 | 1.988 | 3.45   |
| 31) T 2-Chloroaniline               | 1.911          | 1.777 | 1.858 | 1.862 | 2.045 | 1.844 | 1.757 | 1.882 | 1.831 | 1.804 | 1.857 | 4.36   |
| 32) I IS3_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 33) T 1,4-Dioxane                   | 0.531          | 0.514 | 0.556 | 0.540 | 0.517 | 0.520 | 0.493 | 0.539 | 0.498 | 0.492 | 0.520 | 4.13   |
| 34) T n-Decane                      | 1.361          | 1.540 | 1.318 | 1.369 | 1.346 | 1.293 | 1.260 | 1.310 | 1.271 | 1.218 | 1.328 | 6.62   |
| 35) I IS1_Naphthalene-d8            | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 36) T Naphthalene                   | 1.168          | 1.152 | 1.144 | 1.043 | 1.114 | 1.090 | 1.063 | 1.047 | 1.046 | 1.015 | 1.088 | 4.92   |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Calibration dates : 10/06/19 18:00 10/07/19 11:31

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16199

#### Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound                         | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 37) T Benzoic Acid               |                |       |       |       | 0.165 | 0.210 | 0.238 | 0.262 | 0.273 | 0.262 | *L    | 0.9991 |
| 38) T 4-Chloroaniline            | 0.123          | 0.127 | 0.116 | 0.101 | 0.108 | 0.109 | 0.110 | 0.112 | 0.113 | 0.110 | 0.113 | 6.58   |
| 39) T Hexachlorobutadiene        | 0.185          | 0.203 | 0.176 | 0.172 | 0.172 | 0.172 | 0.165 | 0.162 | 0.172 | 0.169 | 0.175 | 6.59   |
| 40) T p-Chloro-m-cresol          | 0.279          | 0.285 | 0.282 | 0.264 | 0.282 | 0.292 | 0.291 | 0.298 | 0.298 | 0.293 | 0.286 | 3.61   |
| 41) T 2-Methylnaphthalene        | 0.725          | 0.723 | 0.746 | 0.689 | 0.746 | 0.729 | 0.716 | 0.715 | 0.715 | 0.699 | 0.720 | 2.49   |
| 42) T 1-Methylnaphthalene        | 0.229          | 0.228 | 0.229 | 0.206 | 0.212 | 0.207 | 0.207 | 0.208 | 0.207 | 0.208 | 0.214 | 4.73   |
| 43) T Hexachlorocyclopentadiene  |                |       |       | 0.187 | 0.208 | 0.216 | 0.225 | 0.225 | 0.236 | 0.238 | 0.220 | 8.04   |
| 44) T 2,4,6-Trichlorophenol      |                | 0.202 | 0.200 | 0.187 | 0.208 | 0.214 | 0.216 | 0.218 | 0.231 | 0.230 | 0.212 | 6.77   |
| 45) T 2,4,5-Trichlorophenol      | 0.192          | 0.218 | 0.215 | 0.210 | 0.234 | 0.230 | 0.231 | 0.238 | 0.231 | 0.239 | 0.224 | 6.64   |
| 46) S 2-Fluorobiphenyl           | 1.043          | 1.014 | 0.996 | 0.935 | 0.977 | 0.982 | 0.956 | 0.958 | 0.957 | 0.961 | 0.978 | 3.29   |
| 47) T 2-Chloronaphthalene        | 0.698          | 0.715 | 0.701 | 0.634 | 0.689 | 0.690 | 0.681 | 0.682 | 0.678 | 0.687 | 0.686 | 3.09   |
| 48) T 2-Nitroaniline             |                |       | 0.195 | 0.189 | 0.206 | 0.230 | 0.237 | 0.249 | 0.247 | 0.250 | 0.225 | 11.13  |
| 49) T 1,4-Dinitrobenzene         |                |       |       | 0.069 | 0.082 | 0.087 | 0.096 | 0.103 | 0.104 | 0.107 | 0.093 | 14.91  |
| 50) T 1,3-Dinitrobenzene         |                |       |       | 0.082 | 0.104 | 0.105 | 0.112 | 0.121 | 0.120 | 0.123 | 0.110 | 13.32  |
| 51) T Dimethyl phthalate         | 0.766          | 0.854 | 0.811 | 0.738 | 0.824 | 0.816 | 0.823 | 0.820 | 0.801 | 0.813 | 0.807 | 4.04   |
| 52) T Acenaphthylene             | 1.077          | 1.135 | 1.109 | 1.045 | 1.139 | 1.129 | 1.146 | 1.146 | 1.123 | 1.134 | 1.118 | 2.96   |
| 53) T 2,6-Dinitrotoluene         |                | 0.147 | 0.151 | 0.135 | 0.168 | 0.177 | 0.181 | 0.186 | 0.184 | 0.191 | 0.169 | 11.86  |
| 54) T 1,2-Dinitrobenzene         |                |       | 0.054 | 0.054 | 0.065 | 0.067 | 0.071 | 0.075 | 0.073 | 0.075 | 0.067 | 12.80  |
| 55) I IS2_Naphthalene-d8         | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 56) T a-Terpineol                | 0.300          | 0.240 | 0.231 | 0.242 | 0.257 | 0.251 | 0.233 | 0.254 | 0.242 | 0.241 | 0.249 | 7.90   |
| 57) T 3-Chloroaniline            | 0.149          | 0.137 | 0.134 | 0.133 | 0.134 | 0.133 | 0.122 | 0.130 | 0.127 | 0.124 | 0.132 | 5.58   |
| 58) T 2,6-Dichlorophenol         | 0.298          | 0.288 | 0.274 | 0.292 | 0.316 | 0.299 | 0.282 | 0.304 | 0.301 | 0.289 | 0.294 | 4.05   |
| 59) T 1-chloro-2-nitrobenzene    | 0.133          | 0.134 | 0.132 | 0.129 | 0.145 | 0.138 | 0.129 | 0.142 | 0.138 | 0.135 | 0.136 | 3.93   |
| 60) T Caprolactam                |                |       | 0.153 | 0.127 | 0.144 | 0.143 | 0.138 | 0.150 | 0.149 | 0.144 | 0.143 | 5.82   |
| 61) T 1,2,4,5-Tetrachlorobenzene | 0.354          | 0.318 | 0.323 | 0.319 | 0.340 | 0.319 | 0.299 | 0.320 | 0.311 | 0.309 | 0.321 | 4.86   |
| 62) T Biphenyl                   | 0.929          | 0.870 | 0.892 | 0.894 | 0.929 | 0.885 | 0.813 | 0.867 | 0.838 | 0.816 | 0.873 | 4.74   |
| 63) I IS1_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 64) T 3-Nitroaniline             |                | 0.330 | 0.339 | 0.325 | 0.367 | 0.377 | 0.378 | 0.391 | 0.390 | 0.390 | 0.365 | 7.29   |
| 65) T Acenaphthene               | 1.277          | 1.342 | 1.270 | 1.168 | 1.269 | 1.199 | 1.154 | 1.196 | 1.177 | 1.152 | 1.220 | 5.29   |
| 66) T 2,4-Dinitrophenol          |                |       |       | 0.080 | 0.124 | 0.141 | 0.162 | 0.185 | 0.184 | 0.187 | *L    | 0.9988 |
| 67) T Dibenzofuran               |                | 1.999 | 1.925 | 1.727 | 1.857 | 1.856 | 1.768 | 1.799 | 1.784 | 1.771 | 1.832 | 4.72   |
| 68) T 2,4-Dinitrotoluene         |                | 0.320 | 0.354 | 0.335 | 0.403 | 0.416 | 0.425 | 0.449 | 0.452 | 0.454 | 0.401 | 12.99  |
| 69) T 4-Nitrophenol              |                |       |       | 0.212 | 0.240 | 0.236 | 0.244 | 0.259 | 0.253 | 0.253 | 0.243 | 6.43   |
| 70) T 2,3,5,6-Tetrachlorophenol  |                |       | 0.339 | 0.314 | 0.337 | 0.350 | 0.355 | 0.372 | 0.372 | 0.368 | 0.351 | 5.80   |
| 71) T 2,3,4,6-Tetrachlorophenol  |                |       | 0.339 | 0.324 | 0.363 | 0.361 | 0.355 | 0.369 | 0.372 | 0.371 | 0.357 | 4.79   |
| 72) T Diethyl phthalate          | 1.597          | 1.563 | 1.574 | 1.427 | 1.532 | 1.564 | 1.509 | 1.530 | 1.505 | 1.501 | 1.530 | 3.17   |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Calibration dates : 10/06/19 18:00 10/07/19 11:31

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16199

#### Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound                          | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|-----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 73) T Fluorene                    | 1.550          | 1.451 | 1.491 | 1.434 | 1.475 | 1.484 | 1.440 | 1.469 | 1.468 | 1.454 | 1.471 | 2.25   |
| 74) T 4-Chlorophenyl-phenylether  | 0.684          | 0.751 | 0.700 | 0.619 | 0.679 | 0.665 | 0.656 | 0.659 | 0.662 | 0.652 | 0.673 | 5.20   |
| 75) T 4-Nitroaniline              |                | 0.343 | 0.381 | 0.367 | 0.417 | 0.436 | 0.436 | 0.460 | 0.446 | 0.450 | 0.415 | 10.00  |
| 76) T 4,6-Dinitro-o-cresol        |                |       |       | 0.146 | 0.186 | 0.211 | 0.236 | 0.257 | 0.256 | 0.264 | *L    | 0.9992 |
| 77) T NDPA/DPA                    | 1.306          | 1.331 | 1.292 | 1.202 | 1.322 | 1.274 | 1.238 | 1.261 | 1.253 | 1.237 | 1.272 | 3.26   |
| 78) T Azobenzene                  | 1.377          | 1.394 | 1.426 | 1.286 | 1.393 | 1.375 | 1.342 | 1.359 | 1.344 | 1.334 | 1.363 | 2.87   |
| 79) S 2,4,6-Tribromophenol        | 0.226          | 0.213 | 0.227 | 0.203 | 0.234 | 0.238 | 0.242 | 0.250 | 0.251 | 0.252 | 0.234 | 7.11   |
| 80) T 4-Bromophenyl-phenylether   | 0.394          | 0.414 | 0.411 | 0.382 | 0.432 | 0.415 | 0.409 | 0.408 | 0.407 | 0.416 | 0.409 | 3.23   |
| 81) T Hexachlorobenzene           | 0.531          | 0.535 | 0.509 | 0.456 | 0.503 | 0.475 | 0.475 | 0.470 | 0.474 | 0.484 | 0.491 | 5.46   |
| 82) T Pentachlorophenol           |                |       | 0.234 | 0.235 | 0.288 | 0.292 | 0.314 | 0.328 | 0.317 | 0.329 | 0.292 | 13.17  |
| 83) I IS2_Acenaphthene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 84) T Dichloran                   |                |       |       | 0.129 | 0.158 | 0.161 | 0.166 | 0.194 | 0.193 | 0.184 | 0.169 | 13.57  |
| 85) T Pentachloronitrobenzene     |                |       | 0.145 | 0.143 | 0.156 | 0.153 | 0.158 | 0.171 | 0.167 | 0.163 | 0.157 | 6.39   |
| 86) I IS3_Acenaphthene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 87) T Atrazine                    |                | 0.354 | 0.303 | 0.355 | 0.376 | 0.364 | 0.363 | 0.377 | 0.382 | 0.363 | 0.360 | 6.51   |
| 88) I IS1_Phenanthrene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 89) T Phenanthrene                | 1.266          | 1.230 | 1.245 | 1.148 | 1.169 | 1.159 | 1.115 | 1.130 | 1.130 | 1.102 | 1.169 | 4.94   |
| 90) T Anthracene                  | 1.203          | 1.211 | 1.189 | 1.121 | 1.178 | 1.189 | 1.148 | 1.151 | 1.178 | 1.147 | 1.171 | 2.46   |
| 91) T Carbazole                   | 1.126          | 1.151 | 1.128 | 1.076 | 1.132 | 1.132 | 1.098 | 1.121 | 1.108 | 1.092 | 1.117 | 2.02   |
| 92) T Di-n-butylphthalate         | 1.264          | 1.331 | 1.301 | 1.237 | 1.399 | 1.413 | 1.404 | 1.419 | 1.423 | 1.386 | 1.358 | 5.10   |
| 93) T Fluoranthene                | 1.276          | 1.355 | 1.335 | 1.247 | 1.285 | 1.299 | 1.270 | 1.304 | 1.288 | 1.277 | 1.294 | 2.46   |
| 94) T Benzidine                   |                |       | 0.807 | 0.823 | 0.866 | 0.887 | 0.904 | 0.972 | 0.937 | 0.961 | 0.895 | 6.81   |
| 95) T Pyrene                      | 1.392          | 1.427 | 1.388 | 1.341 | 1.400 | 1.367 | 1.332 | 1.363 | 1.335 | 1.339 | 1.368 | 2.37   |
| 96) S 4-Terphenyl-d14             | 1.113          | 1.182 | 1.095 | 1.073 | 1.141 | 1.113 | 1.096 | 1.119 | 1.095 | 1.113 | 1.114 | 2.69   |
| 97) T Butyl benzyl phthalate      |                |       | 0.522 | 0.527 | 0.619 | 0.624 | 0.652 | 0.679 | 0.674 | 0.682 | 0.622 | 10.43  |
| 98) I IS2_Phenanthrene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 99) T Diphenamid                  |                |       | 0.508 | 0.543 | 0.594 | 0.571 | 0.537 | 0.583 | 0.559 | 0.530 | 0.553 | 5.21   |
| 100) I IS3_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 101) T n-Octadecane               | 0.413          | 0.453 | 0.415 | 0.427 | 0.457 | 0.440 | 0.442 | 0.438 | 0.452 | 0.404 | 0.434 | 4.27   |
| 102) T Parathion                  |                |       | 0.095 | 0.107 | 0.113 | 0.130 | 0.141 | 0.151 | 0.144 | 0.126 | 0.126 | 16.81  |
| 103) T 3,3'-Dimethylbenzidine     |                |       | 0.650 | 0.756 | 0.759 | 0.804 | 0.837 | 0.835 | 0.842 | 0.783 | 0.783 | 8.82   |
| 104) I IS1_Chrysene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 105) T Benzo[a]anthracene         | 1.410          | 1.336 | 1.326 | 1.227 | 1.321 | 1.328 | 1.293 | 1.323 | 1.332 | 1.298 | 1.319 | 3.43   |
| 106) T 3,3'-Dichlorobenzidine     |                | 0.482 | 0.479 | 0.451 | 0.511 | 0.523 | 0.532 | 0.556 | 0.566 | 0.561 | 0.518 | 7.84   |
| 107) T Chrysene                   | 1.475          | 1.393 | 1.380 | 1.269 | 1.342 | 1.300 | 1.264 | 1.249 | 1.244 | 1.211 | 1.313 | 6.31   |
| 108) T bis(2-Ethylhexyl)phthalate |                | 0.818 | 0.840 | 0.800 | 0.955 | 1.015 | 1.044 | 1.010 | 1.056 | 1.005 | 0.949 | 10.73  |





# Initial Calibration Summary

## Form 6

### Semivolatiles

**Client** : LaBella Associates, P.C. **Lab Number** : L1961284  
**Project Name** : FORMER WOLLENSACK OPTICAL **Project Number** : 2182207  
**Instrument ID** : BUFFY **Ical Ref** : ICAL16199  
**Calibration dates** : 10/06/19 18:00 10/07/19 11:31

#### Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound                      | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 109) T Di-n-octylphthalate    |                |       |       | 1.238 | 1.556 | 1.692 | 1.797 | 1.799 | 1.851 | 1.799 | 1.676 | 12.93 |
| 110) T Benzo(b)fluoranthene   | 1.393          | 1.426 | 1.357 | 1.303 | 1.405 | 1.383 | 1.382 | 1.396 | 1.359 | 1.409 | 1.381 | 2.52  |
| 111) T Benzo(k)fluoranthene   | 1.365          | 1.372 | 1.330 | 1.317 | 1.414 | 1.401 | 1.357 | 1.419 | 1.367 | 1.357 | 1.370 | 2.44  |
| 112) T Benzo(a)pyrene         | 1.259          | 1.347 | 1.282 | 1.267 | 1.336 | 1.344 | 1.359 | 1.406 | 1.356 | 1.372 | 1.333 | 3.60  |
| 113) I IS1_Perylene-d12       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 114) T Indeno(1,2,3-cd)pyrene |                | 1.027 | 1.024 | 0.974 | 1.075 | 1.091 | 1.126 | 1.192 | 1.220 | 1.232 | 1.107 | 8.32  |
| 115) T Dibenzo[a,h]anthracene | 1.038          | 1.083 | 1.050 | 1.047 | 1.097 | 1.116 | 1.122 | 1.172 | 1.175 | 1.200 | 1.110 | 5.22  |
| 116) T Benzo(g,h,i)perylene   | 1.086          | 1.130 | 1.129 | 1.077 | 1.164 | 1.169 | 1.169 | 1.232 | 1.212 | 1.224 | 1.159 | 4.66  |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Calibration dates : 12/01/19 11:31 12/02/19 00:25

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16333

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) I IS1_1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 2) t N-Nitrosodimethylamine         |                | 0.726 | 0.728 | 0.706 | 0.726 | 0.721 | 0.763 | 0.744 | 0.730 | 0.732 | 0.731 | 2.16  |
| 3) t Pyridine                       |                | 1.125 | 1.150 | 1.204 | 1.232 | 1.202 | 1.218 | 1.215 | 1.142 | 1.155 | 1.183 | 3.32  |
| 4) S 2-Fluorophenol                 | 0.519          | 1.107 | 1.098 | 1.143 | 1.155 | 1.131 | 1.163 | 1.149 | 1.136 | 1.146 | 1.075 | 18.25 |
| 5) T Aniline                        |                | 1.787 | 1.902 | 1.820 | 1.871 | 1.860 | 1.901 | 1.886 | 1.862 | 1.899 | 1.865 | 2.10  |
| 6) t 2-Chlorophenol                 | 0.564          | 1.319 | 1.299 | 1.289 | 1.340 | 1.320 | 1.340 | 1.328 | 1.289 | 1.320 | 1.241 | 19.21 |
| 7) S Phenol-d6                      | 0.622          | 1.396 | 1.368 | 1.395 | 1.442 | 1.443 | 1.488 | 1.452 | 1.427 | 1.445 | 1.348 | 19.09 |
| 8) T Phenol                         |                | 1.448 | 1.448 | 1.507 | 1.541 | 1.527 | 1.567 | 1.533 | 1.525 | 1.538 | 1.515 | 2.70  |
| 9) T bis(2-Chloroethyl)ether        | 0.577          | 1.189 | 1.177 | 1.177 | 1.224 | 1.153 | 1.183 | 1.178 | 1.153 | 1.182 | 1.119 | 17.12 |
| 10) T 1,3-Dichlorobenzene           |                | 1.501 | 1.462 | 1.504 | 1.488 | 1.446 | 1.464 | 1.435 | 1.412 | 1.433 | 1.460 | 2.20  |
| 11) T 1,4-Dichlorobenzene           |                | 1.573 | 1.503 | 1.544 | 1.539 | 1.485 | 1.487 | 1.446 | 1.435 | 1.456 | 1.496 | 3.19  |
| 12) T 1,2-Dichlorobenzene           |                | 1.490 | 1.486 | 1.482 | 1.499 | 1.455 | 1.448 | 1.408 | 1.386 | 1.401 | 1.451 | 2.95  |
| 13) t Benzyl alcohol                |                | 0.929 | 0.836 | 0.885 | 0.992 | 0.980 | 1.040 | 1.030 | 1.032 | 1.057 | 0.976 | 7.86  |
| 14) T bis(2-chloroisopropyl)ether   |                | 2.657 | 2.593 | 2.622 | 2.620 | 2.514 | 2.504 | 2.384 | 2.312 | 2.321 | 2.503 | 5.36  |
| 15) T 2-Methylphenol                |                | 1.155 | 1.142 | 1.192 | 1.241 | 1.164 | 1.210 | 1.179 | 1.171 | 1.184 | 1.182 | 2.54  |
| 16) T Hexachloroethane              |                | 0.643 | 0.625 | 0.636 | 0.597 | 0.593 | 0.587 | 0.567 | 0.566 | 0.573 | 0.599 | 4.94  |
| 17) T n-Nitrosodi-n-propylamine     | 0.522          | 0.971 | 0.942 | 0.973 | 0.990 | 0.959 | 0.966 | 0.948 | 0.933 | 0.956 | 0.916 | 15.22 |
| 18) T 3-Methylphenol/4-Methylphenol |                | 1.210 | 1.172 | 1.200 | 1.273 | 1.234 | 1.271 | 1.267 | 1.254 | 1.279 | 1.240 | 3.06  |
| 19) S Nitrobenzene-d5               | 0.581          | 1.293 | 1.225 | 1.308 | 1.317 | 1.301 | 1.325 | 1.337 | 1.327 |       | 1.224 | 19.88 |
| 20) T Nitrobenzene                  |                | 1.306 | 1.254 | 1.354 | 1.335 | 1.286 | 1.370 | 1.347 | 1.338 | 1.366 | 1.328 | 2.92  |
| 21) T Isophorone                    | 1.412          | 2.678 | 2.583 | 2.588 | 2.633 | 2.539 | 2.539 | 2.495 | 2.450 | 2.501 | 2.442 | 15.08 |
| 22) T 2-Nitrophenol                 |                |       |       | 0.668 | 0.705 | 0.688 | 0.724 | 0.718 | 0.717 | 0.737 | 0.708 | 3.28  |
| 23) T 2,4-Dimethylphenol            |                | 1.163 | 1.188 | 1.226 | 1.263 | 1.249 | 1.274 | 1.254 | 1.236 | 1.267 | 1.236 | 3.05  |
| 24) T bis(2-Chloroethoxy)methane    | 0.733          | 1.608 | 1.542 | 1.605 | 1.597 | 1.558 | 1.590 | 1.555 | 1.542 | 1.578 | 1.491 | 17.95 |
| 25) T 2,4-Dichlorophenol            |                | 1.095 | 1.149 | 1.131 | 1.176 | 1.147 | 1.182 | 1.172 | 1.164 | 1.187 | 1.156 | 2.54  |
| 26) T 1,2,4-Trichlorobenzene        |                | 1.313 | 1.273 | 1.290 | 1.280 | 1.237 | 1.259 | 1.221 | 1.224 | 1.250 | 1.261 | 2.47  |
| 27) I IS2_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 28) T Benzaldehyde                  |                | 0.955 | 0.930 | 0.983 | 1.086 | 1.059 | 1.090 | 1.109 | 1.101 | 1.121 | 1.048 | 6.92  |
| 29) T Acetophenone                  |                | 1.628 | 1.608 | 1.690 | 1.797 | 1.862 | 1.930 | 1.900 | 1.900 | 1.949 | 1.807 | 7.35  |
| 30) T m-Toluidine                   |                | 1.719 | 1.762 | 1.848 | 1.949 | 1.950 | 1.975 | 2.007 | 1.960 | 2.028 | 1.911 | 5.71  |
| 31) T 2-Chloroaniline               |                | 1.651 | 1.657 | 1.688 | 1.788 | 1.753 | 1.782 | 1.789 | 1.771 | 1.817 | 1.744 | 3.56  |
| 32) I IS3_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 33) 1,4-Dioxane                     | 0.611          | 0.594 | 0.490 | 0.536 | 0.553 | 0.522 | 0.527 | 0.504 | 0.519 | 0.512 | 0.537 | 7.21  |
| 34) T n-Decane                      | 1.860          | 1.871 | 1.845 | 1.848 | 1.859 | 1.892 | 1.860 | 1.830 | 1.842 | 1.814 | 1.852 | 1.17  |
| 35) I IS1_Naphthalene-d8            | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 36) T Naphthalene                   |                | 1.007 | 0.991 | 1.008 | 1.019 | 0.973 | 0.979 | 0.945 | 0.932 | 0.944 | 0.977 | 3.22  |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Calibration dates : 12/01/19 11:31 12/02/19 00:25

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16333

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                         | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 37) T Benzoic Acid               |                |       |       |       | 0.182 | 0.197 | 0.222 | 0.237 | 0.236 | 0.244 | 0.220 | 11.29  |
| 38) T 4-Chloroaniline            |                | 0.107 | 0.117 | 0.114 | 0.120 | 0.118 | 0.118 | 0.122 | 0.119 | 0.122 | 0.117 | 3.88   |
| 39) T Hexachlorobutadiene        | 0.096          | 0.179 | 0.187 | 0.179 | 0.176 | 0.171 | 0.173 | 0.167 | 0.165 | 0.172 | 0.166 | 15.35  |
| 40) T p-Chloro-m-cresol          |                | 0.264 | 0.258 | 0.255 | 0.283 | 0.269 | 0.276 | 0.276 | 0.272 | 0.276 | 0.270 | 3.41   |
| 41) T 2-Methylnaphthalene        |                | 0.682 | 0.680 | 0.673 | 0.708 | 0.676 | 0.679 | 0.672 | 0.659 | 0.670 | 0.678 | 1.94   |
| 42) T 1-Methylnaphthalene        |                | 0.222 | 0.219 | 0.219 | 0.224 | 0.211 | 0.212 | 0.209 | 0.207 | 0.211 | 0.215 | 2.86   |
| 43) T Hexachlorocyclopentadiene  |                |       |       |       | 0.144 | 0.153 | 0.184 | 0.196 | 0.202 | 0.215 | 0.182 | 15.42  |
| 44) T 2,4,6-Trichlorophenol      |                | 0.199 | 0.195 | 0.194 | 0.207 | 0.200 | 0.204 | 0.206 | 0.206 | 0.209 | 0.202 | 2.68   |
| 45) T 2,4,5-Trichlorophenol      |                | 0.204 | 0.203 | 0.212 | 0.223 | 0.214 | 0.216 | 0.223 | 0.220 | 0.225 | 0.216 | 3.73   |
| 46) S 2-Fluorobiphenyl           | 0.376          | 0.739 | 0.756 | 0.764 | 0.788 | 0.737 | 0.755 | 0.736 | 0.728 |       | 0.709 | 17.77  |
| 47) T 2-Chloronaphthalene        |                | 0.618 | 0.633 | 0.633 | 0.639 | 0.616 | 0.624 | 0.617 | 0.611 | 0.623 | 0.624 | 1.50   |
| 48) T 2-Nitroaniline             |                |       |       | 0.187 | 0.208 | 0.202 | 0.216 | 0.220 | 0.221 | 0.220 | 0.211 | 6.07   |
| 49) T 1,4-Dinitrobenzene         |                |       |       |       | 0.093 | 0.095 | 0.098 | 0.103 | 0.102 | 0.105 | 0.099 | 4.67   |
| 50) T 1,3-Dinitrobenzene         |                |       |       |       | 0.105 | 0.102 | 0.114 | 0.116 | 0.115 | 0.115 | 0.111 | 5.22   |
| 51) T Dimethyl phthalate         |                | 0.793 | 0.778 | 0.789 | 0.830 | 0.756 | 0.753 | 0.750 | 0.730 | 0.734 | 0.768 | 4.20   |
| 52) T Acenaphthylene             |                | 1.062 | 1.058 | 1.069 | 1.111 | 1.043 | 1.033 | 1.035 | 1.017 | 1.018 | 1.050 | 2.82   |
| 53) T 2,6-Dinitrotoluene         |                | 0.149 | 0.152 | 0.170 | 0.177 | 0.171 | 0.170 | 0.171 | 0.168 | 0.169 | 0.166 | 5.54   |
| 54) T 1,2-Dinitrobenzene         |                |       |       | 0.072 | 0.075 | 0.072 | 0.072 | 0.074 | 0.072 | 0.072 | 0.073 | 1.95   |
| 55) I IS2_Naphthalene-d8         | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 56) T a-Terpineol                |                | 0.360 | 0.363 | 0.349 | 0.367 | 0.363 | 0.367 | 0.364 | 0.360 | 0.370 | 0.363 | 1.74   |
| 57) T 3-Chloroaniline            |                | 0.126 | 0.123 | 0.130 | 0.146 | 0.122 | 0.141 | 0.144 | 0.144 | 0.149 | 0.136 | 7.83   |
| 58) T 2,6-Dichlorophenol         |                | 0.283 | 0.291 | 0.285 | 0.287 | 0.297 | 0.304 | 0.307 | 0.304 | 0.317 | 0.297 | 3.81   |
| 59) T 1-chloro-2-nitrobenzene    |                |       | 0.135 | 0.134 | 0.145 | 0.142 | 0.142 | 0.143 | 0.142 | 0.148 | 0.141 | 3.33   |
| 60) T Caprolactam                |                |       | 0.209 | 0.210 | 0.209 | 0.214 | 0.219 | 0.218 | 0.216 | 0.226 | 0.215 | 2.84   |
| 61) T 1,2,4,5-Tetrachlorobenzene |                | 0.323 | 0.339 | 0.329 | 0.334 | 0.321 | 0.329 | 0.327 | 0.323 | 0.335 | 0.329 | 1.88   |
| 62) T Biphenyl                   |                | 0.804 | 0.836 | 0.839 | 0.863 | 0.856 | 0.871 | 0.865 | 0.848 | 0.876 | 0.851 | 2.62   |
| 63) I IS1_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 64) T 3-Nitroaniline             |                |       |       | 0.290 | 0.309 | 0.306 | 0.312 | 0.321 | 0.316 | 0.324 | 0.311 | 3.64   |
| 65) T Acenaphthene               |                | 1.142 | 1.113 | 1.092 | 1.116 | 1.091 | 1.074 | 1.053 | 1.028 | 1.044 | 1.084 | 3.44   |
| 66) T 2,4-Dinitrophenol          |                |       |       | 0.083 | 0.124 | 0.144 | 0.170 | 0.185 | 0.185 | 0.190 | *L    | 0.9992 |
| 67) T Dibenzofuran               |                | 1.579 | 1.627 | 1.616 | 1.698 | 1.617 | 1.605 | 1.587 | 1.532 | 1.548 | 1.601 | 3.03   |
| 68) T 2,4-Dinitrotoluene         |                | 0.363 | 0.353 | 0.366 | 0.402 | 0.385 | 0.394 | 0.402 | 0.396 | 0.397 | 0.384 | 4.86   |
| 69) T 4-Nitrophenol              |                |       |       | 0.186 | 0.212 | 0.252 | 0.229 | 0.240 | 0.242 | 0.249 | 0.230 | 10.22  |
| 70) T 2,3,5,6-Tetrachlorophenol  |                |       | 0.277 | 0.283 | 0.305 | 0.306 | 0.313 | 0.323 | 0.319 | 0.331 | 0.307 | 6.18   |
| 71) T 2,3,4,6-Tetrachlorophenol  |                |       | 0.309 | 0.305 | 0.334 | 0.319 | 0.321 | 0.324 | 0.317 | 0.324 | 0.319 | 2.80   |
| 72) T Diethyl phthalate          |                | 1.392 | 1.377 | 1.406 | 1.464 | 1.376 | 1.372 | 1.336 | 1.311 | 1.315 | 1.372 | 3.49   |



# Initial Calibration Summary

## Form 6

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Calibration dates : 12/01/19 11:31 12/02/19 00:25

Lab Number : L1961284  
 Project Number : 2182207  
 Ical Ref : ICAL16333

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                          | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 73) T Fluorene                    |                | 1.324 | 1.294 | 1.328 | 1.383 | 1.324 | 1.312 | 1.297 | 1.273 | 1.287 | 1.313 | 2.46  |
| 74) T 4-Chlorophenyl-phenylether  |                | 0.635 | 0.612 | 0.629 | 0.634 | 0.624 | 0.613 | 0.607 | 0.591 | 0.605 | 0.617 | 2.42  |
| 75) T 4-Nitroaniline              |                |       |       | 0.274 | 0.293 | 0.299 | 0.305 | 0.317 | 0.313 | 0.317 | 0.302 | 5.16  |
| 76) T 4,6-Dinitro-o-cresol        |                |       |       | 0.178 | 0.222 | 0.219 | 0.243 | 0.250 | 0.251 | 0.250 | 0.230 | 11.60 |
| 77) T NDPA/DPA                    | 0.494          | 1.076 | 1.101 | 1.107 | 1.177 | 1.124 | 1.126 | 1.122 | 1.095 | 1.094 | 1.051 | 18.80 |
| 78) T Azobenzene                  |                | 1.196 | 1.182 | 1.238 | 1.295 | 1.259 | 1.272 | 1.255 | 1.227 | 1.256 | 1.242 | 2.90  |
| 79) S 2,4,6-Tribromophenol        |                | 0.174 | 0.177 | 0.183 | 0.177 | 0.180 | 0.184 | 0.188 | 0.187 | 0.192 | 0.182 | 3.30  |
| 80) T 4-Bromophenyl-phenylether   |                | 0.342 | 0.336 | 0.347 | 0.349 | 0.343 | 0.345 | 0.343 | 0.333 | 0.344 | 0.342 | 1.42  |
| 81) T Hexachlorobenzene           | 0.212          | 0.420 | 0.409 | 0.404 | 0.420 | 0.390 | 0.390 | 0.390 | 0.390 | 0.401 | 0.383 | 16.00 |
| 82) T Pentachlorophenol           |                |       | 0.129 | 0.141 | 0.173 | 0.192 | 0.209 | 0.213 | 0.187 | 0.183 | 0.178 | 16.83 |
| 83) I IS2_Acenaphthene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 84) T Dichloran                   |                |       |       | 0.142 | 0.175 | 0.180 | 0.186 | 0.196 | 0.202 | 0.208 | 0.184 | 11.96 |
| 85) T Pentachloronitrobenzene     |                |       | 0.158 | 0.155 | 0.165 | 0.169 | 0.173 | 0.172 | 0.174 | 0.180 | 0.168 | 4.95  |
| 86) I IS3_Acenaphthene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 87) T Atrazine                    |                |       | 0.342 | 0.348 | 0.350 | 0.376 | 0.380 | 0.386 | 0.390 | 0.394 | 0.371 | 5.59  |
| 88) I IS1_Phenanthrene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 89) T Phenanthrene                |                | 1.072 | 1.081 | 1.076 | 1.058 | 1.027 | 1.036 | 1.005 | 0.992 | 0.981 | 1.036 | 3.66  |
| 90) T Anthracene                  |                | 1.047 | 1.020 | 1.052 | 1.054 | 1.052 | 1.076 | 1.035 | 1.042 | 1.031 | 1.045 | 1.54  |
| 91) T Carbazole                   |                | 0.907 | 0.913 | 0.934 | 0.973 | 0.963 | 0.976 | 0.953 | 0.946 | 0.935 | 0.944 | 2.59  |
| 92) T Di-n-butylphthalate         |                |       | 1.200 | 1.222 | 1.243 | 1.227 | 1.264 | 1.202 | 1.187 | 1.163 | 1.214 | 2.64  |
| 93) T Fluoranthene                |                | 1.128 | 1.151 | 1.150 | 1.188 | 1.156 | 1.156 | 1.131 | 1.114 | 1.085 | 1.140 | 2.61  |
| 94) T Benzidine                   |                | 0.679 | 0.658 | 0.723 | 0.763 | 0.763 | 0.809 | 0.794 | 0.805 | 0.789 | 0.754 | 7.35  |
| 95) T Pyrene                      |                | 1.224 | 1.228 | 1.230 | 1.244 | 1.200 | 1.204 | 1.178 | 1.152 | 1.130 | 1.199 | 3.23  |
| 96) S 4-Terphenyl-d14             | 0.366          | 0.730 | 0.730 | 0.738 | 0.757 | 0.721 | 0.746 | 0.718 | 0.724 |       | 0.692 | 17.76 |
| 97) T Butyl benzyl phthalate      |                |       | 0.522 | 0.545 | 0.533 | 0.563 | 0.545 | 0.538 | 0.524 | 0.538 |       | 2.62  |
| 98) I IS2_Phenanthrene-d10        | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 99) T Diphenamid                  |                |       | 0.519 | 0.516 | 0.541 | 0.535 | 0.541 | 0.544 | 0.545 | 0.551 | 0.537 | 2.32  |
| 100) I IS3_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 101) T n-Octadecane               |                |       | 0.543 | 0.550 | 0.568 | 0.606 | 0.596 | 0.601 | 0.576 | 0.590 | 0.579 | 4.06  |
| 102) T Parathion                  |                |       |       | 0.102 | 0.113 | 0.128 | 0.139 | 0.151 | 0.156 | 0.161 | 0.136 | 16.30 |
| 103) T 3,3'-Dimethylbenzidine     |                | 0.558 | 0.591 | 0.603 | 0.681 | 0.709 | 0.738 | 0.776 | 0.804 | 0.833 | 0.699 | 14.08 |
| 104) I IS1_Chrysene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 105) T Benzo[a]anthracene         | 0.758          | 1.279 | 1.267 | 1.250 | 1.256 | 1.192 | 1.216 | 1.204 | 1.156 | 1.157 | 1.174 | 12.98 |
| 106) T 3,3'-Dichlorobenzidine     | 0.225          | 0.426 | 0.460 | 0.461 | 0.487 | 0.470 | 0.491 | 0.489 | 0.474 | 0.477 | 0.446 | 17.95 |
| 107) T Chrysene                   |                | 1.227 | 1.260 | 1.242 | 1.262 | 1.188 | 1.203 | 1.175 | 1.143 | 1.133 | 1.204 | 3.98  |
| 108) T bis(2-Ethylhexyl)phthalate |                | 0.835 | 0.864 | 0.882 | 0.930 | 0.912 | 1.003 | 0.921 | 0.887 | 0.874 | 0.901 | 5.38  |



# Initial Calibration Summary

## Form 6

### Semivolatiles

**Client** : LaBella Associates, P.C. **Lab Number** : L1961284  
**Project Name** : FORMER WOLLENSACK OPTICAL **Project Number** : 2182207  
**Instrument ID** : SV103 **Ical Ref** : ICAL16333  
**Calibration dates** : 12/01/19 11:31 12/02/19 00:25

#### Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                      | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 109) T Di-n-octylphthalate    |                |       |       | 1.475 | 1.575 | 1.537 | 1.711 | 1.593 | 1.547 | 1.523 | 1.566 | 4.74  |
| 110) T Benzo(b)fluoranthene   | 0.629          | 1.120 | 1.071 | 1.123 | 1.183 | 1.132 | 1.143 | 1.142 | 1.088 | 1.094 | 1.072 | 14.84 |
| 111) T Benzo(k)fluoranthene   | 0.610          | 1.162 | 1.171 | 1.195 | 1.181 | 1.175 | 1.217 | 1.158 | 1.150 | 1.142 | 1.116 | 16.05 |
| 112) T Benzo(a)pyrene         | 0.557          | 1.073 | 1.086 | 1.051 | 1.063 | 1.061 | 1.074 | 1.057 | 1.039 | 1.038 | 1.010 | 15.82 |
| 113) I IS1_Perylene-d12       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 114) T Indeno(1,2,3-cd)pyrene |                | 0.941 | 0.937 | 0.937 | 0.987 | 0.930 | 0.971 | 0.970 | 0.964 | 0.987 | 0.958 | 2.35  |
| 115) T Dibenzo[a,h]anthracene | 0.509          | 0.930 | 0.926 | 0.916 | 0.982 | 0.967 | 0.982 | 0.992 | 1.010 | 1.019 | 0.923 | 16.23 |
| 116) T Benzo(g,h,i)perylene   |                | 1.014 | 1.046 | 1.034 | 1.076 | 1.037 | 1.059 | 1.047 | 1.046 | 1.056 | 1.046 | 1.68  |



## Response Factor Report GCMS5

Method Path : I:\8270\GCMS5\190609ical\  
 Method File : FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Jun 10 16:17:59 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|-------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1) I IS1_1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 2) t N-Nitrosodimethylamine         | 0.688          | 0.716 | 0.781 | 0.689 | 0.749 | 0.713 | 0.705 | 0.697 | 0.704 | 0.695 | 0.714 | 4.16   |
| 3) t Pyridine                       | 1.253          | 1.159 | 1.325 | 1.368 | 1.339 | 1.218 | 1.277 | 1.221 | 1.254 | 1.257 | 1.267 | 4.96   |
| 4) S 2-Fluorophenol                 | 1.085          | 0.985 | 1.205 | 1.135 | 1.124 | 1.154 | 1.112 | 1.102 | 1.088 | 1.071 | 1.106 | 5.22   |
| 5) T Aniline                        | 1.870          | 1.894 | 1.967 | 1.932 | 1.907 | 1.822 | 1.735 | 1.653 | 1.607 | 1.579 | 1.797 | 7.94   |
| 6) t 2-Chlorophenol                 | 1.170          | 1.173 | 1.323 | 1.295 | 1.311 | 1.282 | 1.256 | 1.229 | 1.211 | 1.188 | 1.244 | 4.62   |
| 7) S Phenol-d6                      | 1.401          | 1.286 | 1.453 | 1.405 | 1.404 | 1.375 | 1.328 | 1.270 | 1.255 | 1.211 | 1.339 | 5.99   |
| 8) T Phenol                         | 1.630          | 1.475 | 1.683 | 1.651 | 1.633 | 1.620 | 1.547 | 1.515 | 1.481 | 1.449 | 1.568 | 5.41   |
| 9) T bis(2-Chloroethyl)ether        | 1.139          | 1.101 | 1.172 | 1.112 | 1.135 | 1.067 | 1.025 | 0.972 | 0.961 | 0.936 | 1.062 | 7.88   |
| 10) T 1,3-Dichlorobenzene           | 1.744          | 1.560 | 1.671 | 1.562 | 1.603 | 1.528 | 1.457 | 1.424 | 1.366 | 1.325 | 1.524 | 8.70   |
| 11) T 1,4-Dichlorobenzene           | 1.696          | 1.621 | 1.678 | 1.593 | 1.559 | 1.542 | 1.469 | 1.422 | 1.372 | 1.328 | 1.528 | 8.28   |
| 12) t 1,2-Dichlorobenzene           |                | 1.466 | 1.705 | 1.537 | 1.560 | 1.473 | 1.391 | 1.296 | 1.239 | 1.169 | 1.426 | 11.90  |
| 13) t Benzyl alcohol                | 0.922          | 0.915 | 0.898 | 0.946 | 0.978 | 0.981 | 0.939 | 0.893 | 0.849 | 0.815 | 0.914 | 5.76   |
| 14) T bis(2-chloroisopropyl)ether   | 1.995          | 1.949 | 2.042 | 1.951 | 1.982 | 1.918 | 1.797 | 1.693 | 1.634 | 1.598 | 1.856 | 8.74   |
| 15) T 2-Methylphenol                | 0.916          | 1.029 | 1.153 | 1.113 | 1.155 | 1.152 | 1.108 | 1.074 | 1.036 | 0.987 | 1.072 | 7.45   |
| 16) T Hexachloroethane              | 0.606          | 0.576 | 0.633 | 0.579 | 0.609 | 0.586 | 0.573 | 0.549 | 0.533 | 0.524 | 0.577 | 5.94   |
| 17) T n-Nitrosodi-n-propylamine     | 0.789          | 0.765 | 0.826 | 0.814 | 0.882 | 0.867 | 0.856 | 0.830 | 0.803 | 0.812 | 0.824 | 4.36   |
| 18) T 3-Methylphenol/4-Methylphenol | 1.073          | 1.101 | 1.278 | 1.211 | 1.242 | 1.211 | 1.189 | 1.145 | 1.096 | 1.073 | 1.162 | 6.39   |
| 19) S Nitrobenzene-d5               | 1.175          | 1.082 | 1.178 | 1.203 | 1.276 | 1.257 | 1.253 | 1.207 | 1.183 | 1.184 | 1.200 | 4.60   |
| 20) T Nitrobenzene                  | 1.252          | 1.118 | 1.259 | 1.280 | 1.314 | 1.282 | 1.261 | 1.220 | 1.165 | 1.155 | 1.231 | 5.20   |
| 21) T Isophorone                    | 1.889          | 2.016 | 2.277 | 2.170 | 2.362 | 2.297 | 2.201 | 2.114 | 2.098 | 2.182 | 2.161 | 6.47   |
| 22) T 2-Nitrophenol                 |                |       |       | 0.574 | 0.634 | 0.656 | 0.668 | 0.669 | 0.664 | 0.655 | 0.646 | 5.21   |
| 23) T 2,4-Dimethylphenol            | 1.052          | 1.103 | 1.214 | 1.308 | 1.277 | 1.263 | 1.233 | 1.192 | 1.178 | 1.176 | 1.200 | 6.53   |
| 24) T bis(2-Chloroethoxy)methane    | 1.480          | 1.528 | 1.650 | 1.586 | 1.572 | 1.500 | 1.439 | 1.343 | 1.335 | 1.364 | 1.480 | 7.34   |
| 25) T 2,4-Dichlorophenol            | 1.024          | 1.083 | 1.191 | 1.275 | 1.275 | 1.279 | 1.263 | 1.190 | 1.159 | 1.185 | 1.192 | 7.26   |
| 26) T 1,2,4-Trichlorobenzene        | 1.603          | 1.467 | 1.535 | 1.459 | 1.460 | 1.436 | 1.372 | 1.307 | 1.294 | 1.304 | 1.424 | 7.27   |
| 27) I IS2_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 28) T Benzaldehyde                  | 0.907          | 0.823 | 0.833 | 0.912 | 0.929 | 0.925 | 0.923 | 0.762 | 0.673 | 0.846 | 0.853 | 9.88   |
| 29) T Acetophenone                  | 1.629          | 1.530 | 1.525 | 1.606 | 1.742 | 1.722 | 1.694 | 1.599 | 1.559 | 1.511 | 1.611 | 5.22   |
| 30) T m-Toluidine                   | 1.278          | 1.267 | 1.440 | 1.485 | 1.592 | 1.551 | 1.630 | 1.374 | 1.253 | 1.426 | 1.430 | 9.56   |
| 31) T 2-Chloroaniline               | 1.537          | 1.458 | 1.475 | 1.533 | 1.613 | 1.605 | 1.593 | 1.509 | 1.438 | 1.387 | 1.515 | 5.01   |
| 32) I IS3_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 33) T 1,4-Dioxane                   | 0.395          | 0.407 | 0.461 | 0.430 | 0.441 | 0.441 | 0.432 | 0.425 | 0.407 | 0.392 | 0.423 | 5.27   |
| 34) T n-Decane                      | 1.135          | 1.163 | 1.140 | 1.132 | 1.177 | 1.130 | 1.103 | 1.060 | 0.994 | 0.960 | 1.099 | 6.57   |
| 35) I IS1_Naphthalene-d8            | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 36) T Naphthalene                   |                | 1.125 | 1.179 | 1.100 | 1.106 | 1.043 | 0.979 | 0.933 | 0.860 | 0.811 | 1.015 | 12.51  |
| 37) T Benzoic Acid                  |                |       |       | 0.114 | 0.159 | 0.197 | 0.251 | 0.267 | 0.264 | 0.272 | *L    | 0.9990 |
| 38) T 4-Chloroaniline               | 0.135          | 0.137 | 0.131 | 0.124 | 0.133 | 0.127 | 0.120 | 0.119 | 0.113 | 0.110 | 0.125 | 7.39   |
| 39) T Hexachlorobutadiene           | 0.229          | 0.226 | 0.235 | 0.225 | 0.235 | 0.219 | 0.215 | 0.210 | 0.203 | 0.204 | 0.220 | 5.33   |
| 40) T p-Chloro-m-cresol             | 0.232          | 0.267 | 0.280 | 0.290 | 0.309 | 0.300 | 0.303 | 0.289 | 0.275 | 0.268 | 0.281 | 8.01   |
| 41) T 2-Methylnaphthalene           | 0.781          | 0.780 | 0.832 | 0.811 | 0.785 | 0.751 | 0.731 | 0.677 | 0.636 | 0.608 | 0.739 | 10.21  |
| 42) T 1-Methylnaphthalene           | 0.287          | 0.254 | 0.268 | 0.266 | 0.251 | 0.243 | 0.233 | 0.220 | 0.210 | 0.205 | 0.244 | 10.94  |
| 43) T Hexachlorocyclopentadiene     |                |       |       | 0.242 | 0.263 | 0.273 | 0.290 | 0.291 | 0.289 | 0.288 | 0.277 | 6.70   |
| 44) T 2,4,6-Trichlorophenol         |                | 0.206 | 0.239 | 0.246 | 0.260 | 0.258 | 0.261 | 0.269 | 0.254 | 0.249 | 0.249 | 7.39   |
| 45) T 2,4,5-Trichlorophenol         |                | 0.222 | 0.272 | 0.257 | 0.277 | 0.282 | 0.280 | 0.260 | 0.261 | 0.264 | 0.264 | 6.91   |

## Response Factor Report GCMS5

Method Path : I:\8270\GCMS5\190609ical\  
 Method File : FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Jun 10 16:17:59 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                         | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg    | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 46) S 2-Fluorobiphenyl           | 1.006          | 0.905 | 0.940 | 0.926 | 0.917 | 0.866 | 0.828 | 0.785 | 0.738 | 0.713 | 0.862  | 10.96  |
| 47) T 2-Chloronaphthalene        | 0.820          | 0.805 | 0.827 | 0.805 | 0.782 | 0.742 | 0.727 | 0.687 | 0.655 | 0.622 | 0.747  | 9.76   |
| 48) T 2-Nitroaniline             |                |       |       | 0.187 | 0.214 | 0.224 | 0.239 | 0.237 | 0.229 | 0.230 | 0.223  | 8.08   |
| 49) T 1,4-Dinitrobenzene         |                |       |       | 0.072 | 0.089 | 0.092 | 0.100 | 0.101 | 0.099 | 0.101 | 0.093  | 11.21  |
| 50) T 1,3-Dinitrobenzene         |                |       |       | 0.097 | 0.112 | 0.109 | 0.107 | 0.104 | 0.102 | 0.100 | 0.104  | 5.14   |
| 51) T Dimethyl phthalate         |                | 0.875 | 0.939 | 0.899 | 0.938 | 0.887 | 0.830 | 0.783 | 0.743 | 0.700 | 0.844  | 10.17  |
| 52) T Acenaphthylene             | 1.205          | 1.153 | 1.276 | 1.237 | 1.271 | 1.216 | 1.132 | 1.066 | 1.000 | 0.957 | 1.151  | 9.71   |
| 53) T 2,6-Dinitrotoluene         |                | 0.130 | 0.165 | 0.179 | 0.191 | 0.187 | 0.184 | 0.180 | 0.175 | 0.179 | 0.174  | 10.46  |
| 54) T 1,2-Dinitrobenzene         |                |       |       | 0.061 | 0.068 | 0.063 | 0.063 | 0.062 | 0.061 | 0.063 | 0.063  | 3.74   |
| 55) I IS2_Naphthalene-d8         | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 56) T a-Terpineol                | 0.210          | 0.218 | 0.218 | 0.219 | 0.255 | 0.254 | 0.258 | 0.251 | 0.232 | 0.211 | 0.233  | 8.43   |
| 57) T 3-Chloroaniline            | 0.136          | 0.126 | 0.123 | 0.133 | 0.138 | 0.133 | 0.129 | 0.121 | 0.110 | 0.108 | 0.126  | 8.30   |
| 58) T 2,6-Dichlorophenol         | 0.228          | 0.251 | 0.261 | 0.282 | 0.325 | 0.319 | 0.321 | 0.315 | 0.301 | 0.284 | 0.289  | 11.59  |
| 59) T 1-chloro-2-nitrobenzene    |                | 0.104 | 0.120 | 0.117 | 0.137 | 0.134 | 0.138 | 0.136 | 0.131 | 0.127 | 0.127  | 8.97   |
| 60) T Caprolactam                |                |       |       | 0.104 | 0.132 | 0.140 | 0.152 | 0.157 | 0.156 | 0.152 | 0.142  | 13.40  |
| 61) T 1,2,4,5-Tetrachlorobenzene | 0.419          | 0.402 | 0.410 | 0.396 | 0.423 | 0.400 | 0.394 | 0.378 | 0.355 | 0.337 | 0.391  | 7.04   |
| 62) T Biphenyl                   | 0.934          | 0.863 | 0.879 | 0.901 | 0.951 | 0.882 | 0.844 | 0.793 | 0.732 | 0.673 | 0.845  | 10.44  |
| 63) I IS1_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 64) T 3-Nitroaniline             |                | 0.269 | 0.315 | 0.338 | 0.364 | 0.356 | 0.355 | 0.360 | 0.346 | 0.335 | 0.338  | 8.80   |
| 65) T Acenaphthene               | 1.345          | 1.297 | 1.356 | 1.243 | 1.205 | 1.171 | 1.084 | 1.033 | 1.000 | 0.946 | 1.168  | 12.54  |
| 66) T 2,4-Dinitrophenol          |                |       |       | 0.116 | 0.145 | 0.164 | 0.192 | 0.207 | 0.214 | 0.212 | *L     | 0.9990 |
| 67) T Dibenzofuran               |                | 2.010 | 2.070 | 1.952 | 1.908 | 1.817 | 1.660 | 1.562 | 1.486 | 1.408 | 1.763  | 13.72  |
| 68) T 2,4-Dinitrotoluene         |                | 0.313 | 0.360 | 0.378 | 0.410 | 0.409 | 0.400 | 0.392 | 0.381 | 0.380 | 0.380  | 7.85   |
| 69) T 4-Nitrophenol              |                | 0.181 | 0.233 | 0.235 | 0.257 | 0.257 | 0.254 | 0.257 | 0.252 | 0.242 | 0.241  | 10.10  |
| 70) T 2,3,5,6-Tetrachlorophenol  |                | 0.347 | 0.353 | 0.389 | 0.431 | 0.428 | 0.418 | 0.426 | 0.419 | 0.418 | 0.403  | 8.06   |
| 71) T 2,3,4,6-Tetrachlorophenol  |                | 0.391 | 0.432 | 0.438 | 0.453 | 0.447 | 0.435 | 0.435 | 0.428 | 0.423 | 0.431  | 4.12   |
| 72) T Diethyl phthalate          | 1.396          | 1.452 | 1.580 | 1.508 | 1.570 | 1.490 | 1.412 | 1.350 | 1.334 | 1.291 | 1.438  | 6.87   |
| 73) T Fluorene                   | 1.471          | 1.494 | 1.530 | 1.489 | 1.516 | 1.459 | 1.378 | 1.295 | 1.230 | 1.139 | 1.400  | 9.66   |
| 74) T 4-Chlorophenyl-phenylether | 0.824          | 0.751 | 0.776 | 0.744 | 0.740 | 0.718 | 0.683 | 0.646 | 0.635 | 0.622 | 0.714  | 9.25   |
| 75) T 4-Nitroaniline             |                |       | 0.346 | 0.349 | 0.382 | 0.375 | 0.377 | 0.372 | 0.356 | 0.351 | 0.363  | 3.97   |
| 76) T 4,6-Dinitro-o-cresol       |                |       |       | 0.163 | 0.201 | 0.215 | 0.237 | 0.244 | 0.243 | 0.248 | 0.221  | 13.99  |
| 77) T NDPA/DPA                   | 1.252          | 1.248 | 1.264 | 1.295 | 1.301 | 1.238 | 1.149 | 1.107 | 1.067 | 1.024 | 1.194  | 8.34   |
| 78) T Azobenzene                 | 1.266          | 1.313 | 1.393 | 1.389 | 1.392 | 1.370 | 1.264 | 1.181 | 1.134 | 1.090 | 1.279  | 8.79   |
| 79) S 2,4,6-Tribromophenol       |                | 0.221 | 0.243 | 0.239 | 0.264 | 0.268 | 0.278 | 0.283 | 0.281 | 0.296 | 0.264  | 9.38   |
| 80) T 4-Bromophenyl-phenylether  | 0.469          | 0.458 | 0.483 | 0.460 | 0.484 | 0.465 | 0.457 | 0.443 | 0.441 | 0.447 | 0.461  | 3.29   |
| 81) T Hexachlorobenzene          | 0.574          | 0.563 | 0.578 | 0.557 | 0.566 | 0.544 | 0.523 | 0.519 | 0.515 | 0.528 | 0.547  | 4.37   |
| 82) T Pentachlorophenol          |                |       | 0.226 | 0.259 | 0.299 | 0.321 | 0.345 | 0.356 | 0.358 | 0.361 | *L     | 0.9998 |
| 83) I IS2_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 84) T Dichloran                  |                |       |       | 0.100 | 0.144 | 0.160 | 0.188 | 0.198 | 0.201 | 0.194 | *L     | 0.9994 |
| 85) T Pentachloronitrobenzene    |                |       |       | 0.142 | 0.194 | 0.183 | 0.192 | 0.194 | 0.194 | 0.184 | 0.183  | 10.28  |
| 86) I IS3_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 87) T Atrazine                   |                | 0.195 | 0.221 | 0.288 | 0.326 | 0.355 | 0.370 | 0.358 | 0.350 | *L    | 0.9992 |        |
| 88) I IS1_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |        |        |
| 89) T Phenanthrene               | 1.348          | 1.269 | 1.264 | 1.218 | 1.203 | 1.142 | 1.072 | 1.028 | 0.943 | 0.904 | 1.139  | 12.98  |
| 90) T Anthracene                 | 1.204          | 1.173 | 1.201 | 1.182 | 1.204 | 1.174 | 1.110 | 1.069 | 0.961 | 0.915 | 1.119  | 9.43   |

## Response Factor Report GCMS5

Method Path : I:\8270\GCMS5\190609ical\  
 Method File : FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Jun 10 16:17:59 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

|        | Compound                   | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|--------|----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 91) T  | Carbazole                  | 0.977          | 1.025 | 1.124 | 1.117 | 1.126 | 1.091 | 1.039 | 1.003 | 0.906 | 0.890 | 1.030 | 8.45   |
| 92) T  | Di-n-butylphthalate        |                | 0.926 | 1.011 | 1.119 | 1.235 | 1.267 | 1.256 | 1.173 | 1.073 | 1.057 | 1.124 | 10.51  |
| 93) T  | Fluoranthene               | 1.365          | 1.318 | 1.380 | 1.398 | 1.419 | 1.427 | 1.343 | 1.308 | 1.183 | 1.140 | 1.328 | 7.29   |
| 94) T  | Benzidine                  |                |       | 0.575 | 0.694 | 0.833 | 0.871 | 0.907 | 0.937 | 0.854 | 0.838 | 0.814 | 14.75  |
| 95) T  | Pyrene                     | 1.469          | 1.493 | 1.545 | 1.540 | 1.559 | 1.505 | 1.440 | 1.376 | 1.233 | 1.179 | 1.434 | 9.22   |
| 96) S  | 4-Terphenyl-d14            | 0.870          | 0.891 | 0.965 | 0.931 | 0.948 | 0.924 | 0.903 | 0.876 | 0.796 | 0.793 | 0.890 | 6.57   |
| 97) T  | Butyl benzyl phthalate     |                |       |       | 0.414 | 0.510 | 0.559 | 0.589 | 0.582 | 0.541 | 0.525 | 0.531 | 11.13  |
| 98) I  | IS2_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 99) T  | Diphenamid                 |                |       |       | 0.377 | 0.465 | 0.473 | 0.494 | 0.487 | 0.459 | 0.427 | 0.454 | 8.93   |
| 100) I | IS3_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 101) T | n-Octadecane               |                | 0.320 | 0.327 | 0.362 | 0.391 | 0.402 | 0.398 | 0.362 | 0.338 | 0.323 | 0.358 | 9.16   |
| 102) T | Parathion                  |                |       |       | 0.044 | 0.054 | 0.082 | 0.114 | 0.124 | 0.120 | 0.120 | *L    | 0.9977 |
| 103) T | 3,3'-Dimethylbenzidine     |                |       |       | 0.341 | 0.569 | 0.664 | 0.783 | 0.808 | 0.775 | 0.759 | *L    | 0.9988 |
| 104) I | IS1_Chrysene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 105) T | Benzo[a]anthracene         | 1.255          | 1.279 | 1.322 | 1.284 | 1.280 | 1.263 | 1.228 | 1.174 | 1.154 | 1.197 | 1.244 | 4.33   |
| 106) T | 3,3'-Dichlorobenzidine     |                | 0.336 | 0.388 | 0.444 | 0.487 | 0.505 | 0.513 | 0.511 | 0.510 | 0.520 | 0.468 | 14.01  |
| 107) T | Chrysene                   | 1.504          | 1.412 | 1.433 | 1.366 | 1.378 | 1.326 | 1.251 | 1.230 | 1.171 | 1.195 | 1.327 | 8.37   |
| 108) T | bis(2-Ethylhexyl)phthalate |                | 0.410 | 0.535 | 0.664 | 0.824 | 0.829 | 0.849 | 0.797 | 0.798 | 0.816 | *L    | 0.9992 |
| 109) T | Di-n-octylphthalate        |                |       |       | 0.891 | 1.196 | 1.337 | 1.414 | 1.359 | 1.358 | 1.351 | 1.272 | 14.21  |
| 110) T | Benzo(b)fluoranthene       | 1.099          | 1.267 | 1.395 | 1.342 | 1.344 | 1.491 | 1.343 | 1.351 | 1.415 | 1.602 | 1.365 | 9.69   |
| 111) T | Benzo(k)fluoranthene       | 1.150          | 1.307 | 1.402 | 1.366 | 1.422 | 1.246 | 1.350 | 1.299 | 1.240 | 1.080 | 1.286 | 8.51   |
| 112) T | Benzo(a)pyrene             |                | 1.125 | 1.255 | 1.267 | 1.311 | 1.349 | 1.323 | 1.346 | 1.354 | 1.376 | 1.301 | 5.93   |
| 113) I | IS1_Perylene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 114) T | Indeno(1,2,3-cd)pyrene     |                | 0.794 | 0.949 | 1.029 | 1.020 | 1.073 | 1.097 | 1.170 | 1.191 | 1.154 | 1.053 | 11.87  |
| 115) T | Dibenzo[a,h]anthracene     | 0.881          | 0.945 | 1.095 | 1.072 | 1.116 | 1.087 | 1.071 | 1.067 | 1.030 | 0.990 | 1.035 | 7.21   |
| 116) T | Benzo(g,h,i)perylene       | 0.980          | 1.056 | 1.196 | 1.161 | 1.189 | 1.143 | 1.166 | 1.139 | 1.131 | 1.103 | 1.126 | 5.85   |

(#) = Out of Range

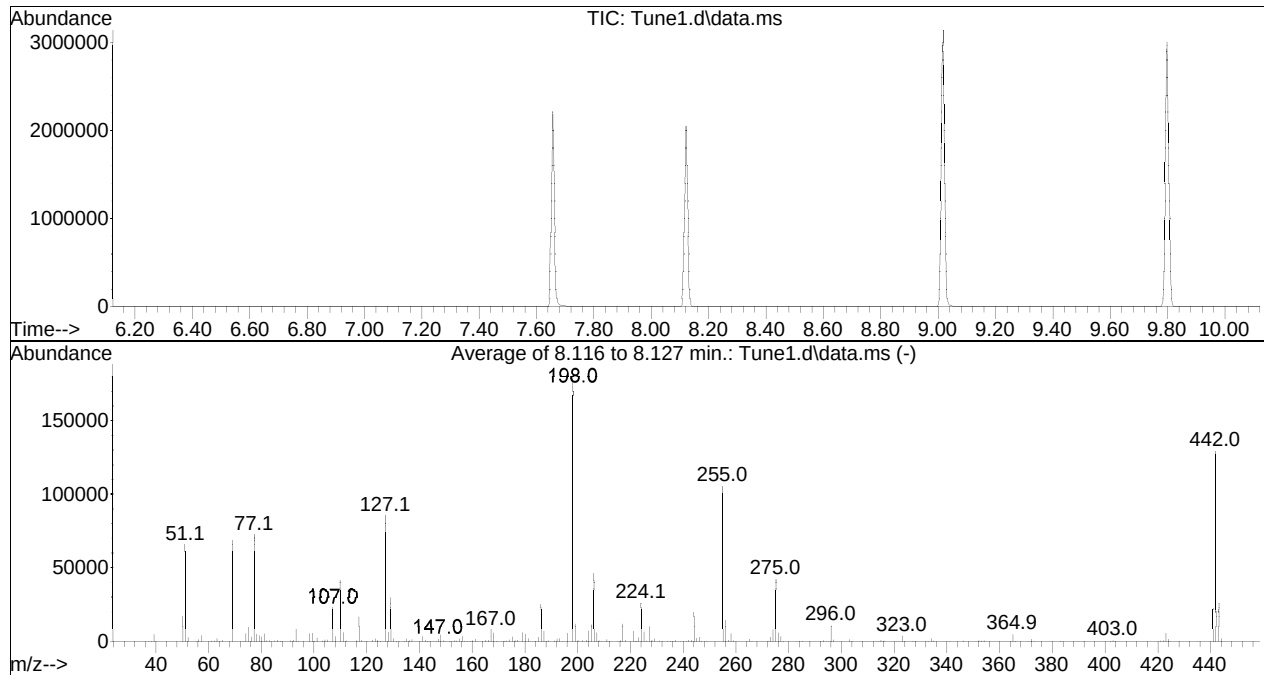


# DFTPP

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : Tune1.d  
 Acq On : 9 Jun 2019 2:11 pm  
 Operator : gcms5:ek  
 Sample : Tune1  
 Misc : wg1246641,,  
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Jun 10 16:17:59 2019

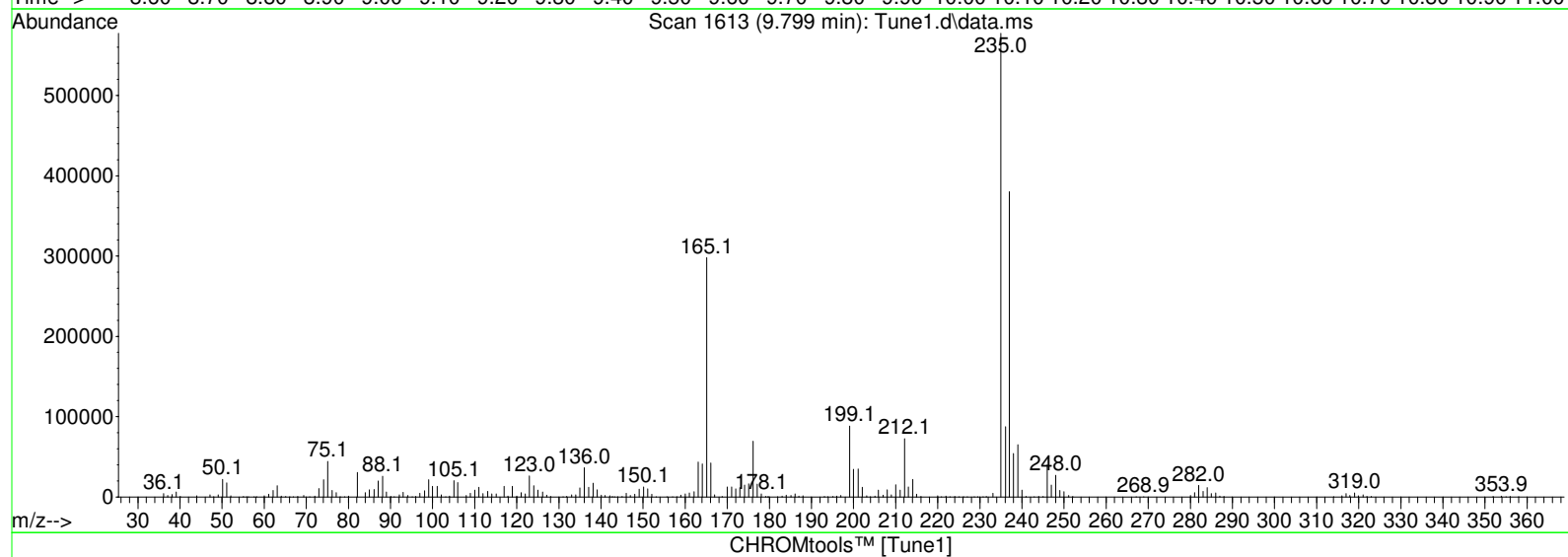
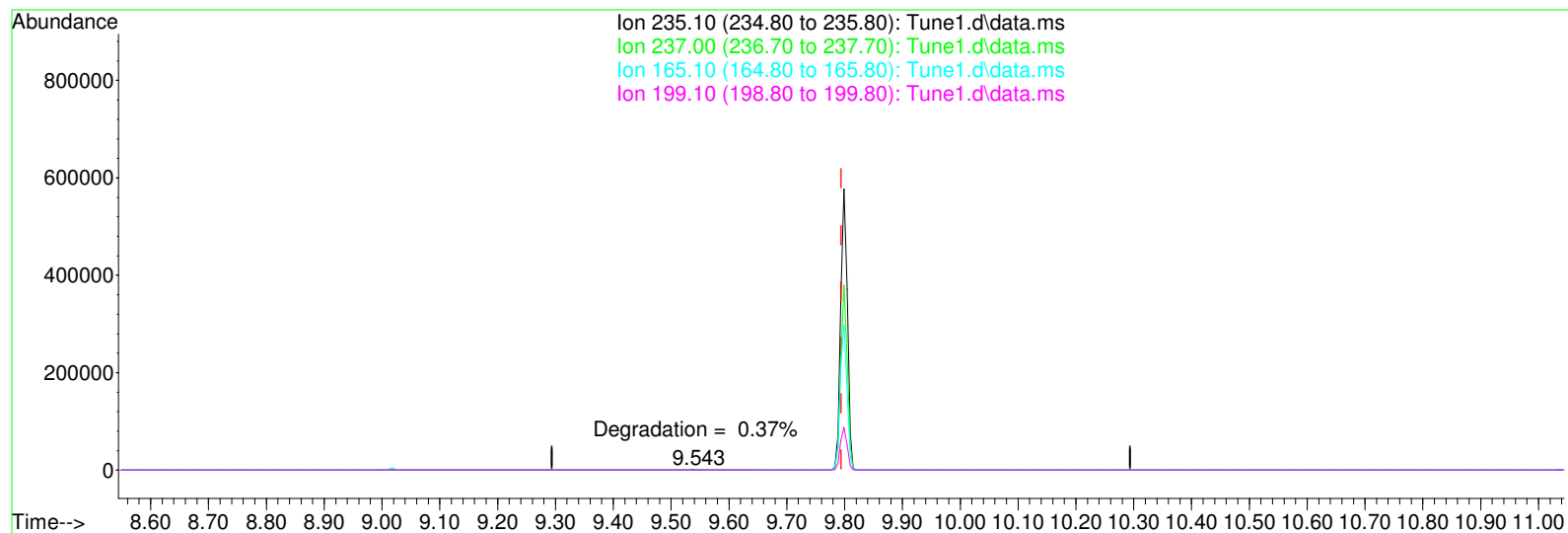


Spectrum Information: Average of 8.116 to 8.127 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 36.5      | 65333   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 70          | 69           | 0.00         | 2            | 0.5       | 333     | PASS             |
| 127         | 198          | 10           | 80           | 47.7      | 85499   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 179221  | PASS             |
| 199         | 198          | 5            | 9            | 6.7       | 12080   | PASS             |
| 275         | 198          | 10           | 60           | 23.6      | 42288   | PASS             |
| 365         | 198          | 1            | 100          | 2.7       | 4756    | PASS             |
| 441         | 442          | 0.01         | 24           | 17.1      | 22124   | PASS             |
| 442         | 198          | 50           | 100          | 72.0      | 129109  | PASS             |
| 443         | 442          | 15           | 24           | 20.0      | 25806   | PASS             |

Data Path : I:\8270\GCMS5\190609ical\  
Data File : Tune1.d  
Acq On : 9 Jun 2019 2:11 pm  
Operator : gcms5:  
Sample : Tune1  
Misc : GCMS5 190609ical  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 10 09:04:03 2019  
Quant Method : I:\8270\GCMS5\190609ical\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 09:03:10 2019  
Response via : Initial Calibration



CHROMtools™ [Tune1]

(6) ddt (T)

9.799min (+ 0.005) 76.99

response 469287

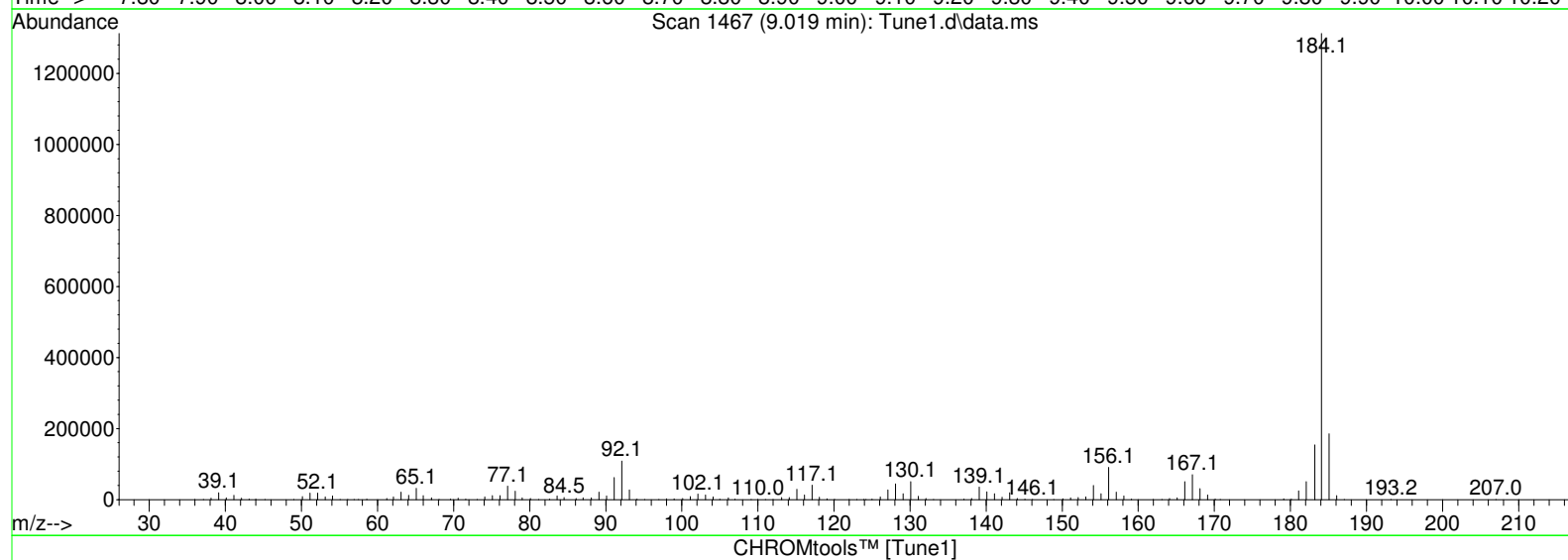
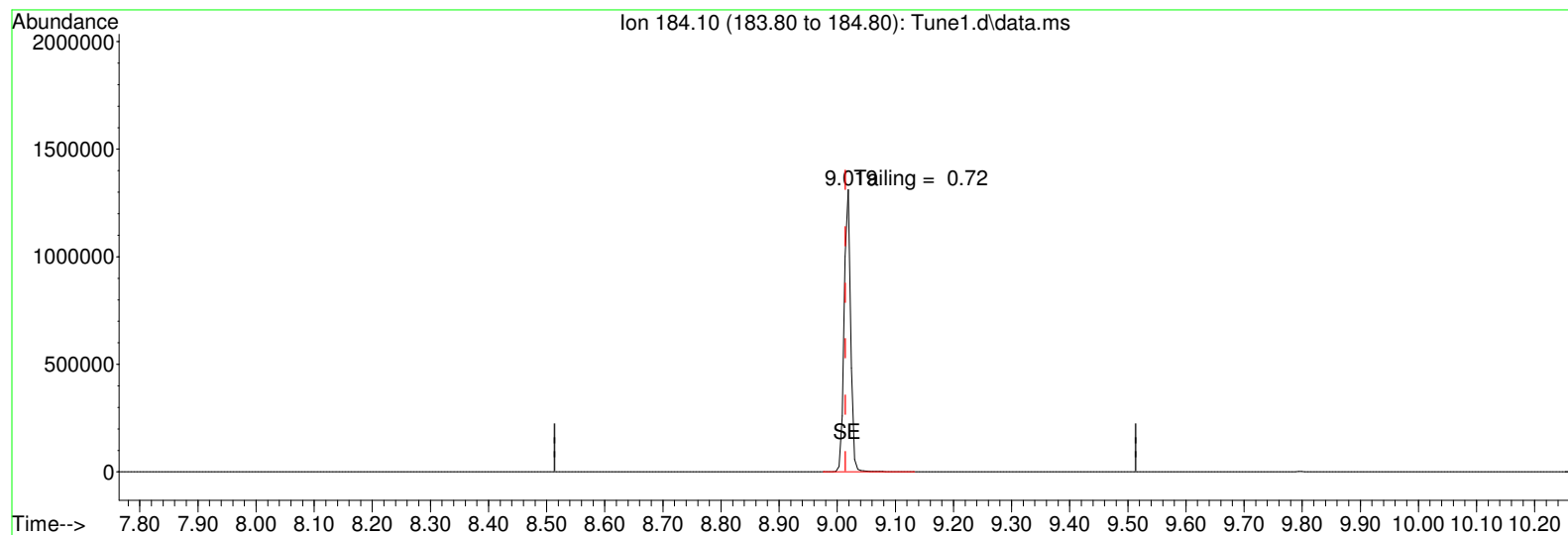
| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 65.40  | 64.50  |
| 165.10 | 48.80  | 52.11  |
| 199.10 | 14.40  | 15.49  |

Duplicate Retention Times

(5) DDD 235.00

Data Path : I:\8270\GCMS5\190609ical\  
Data File : Tune1.d  
Acq On : 9 Jun 2019 2:11 pm  
Operator : gcms5:  
Sample : Tune1  
Misc : GCMS5 190609ical  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 10 09:04:03 2019  
Quant Method : I:\8270\GCMS5\190609ical\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 09:03:10 2019  
Response via : Initial Calibration



(3) benzidine (T)

9.019min (+ 0.005) 100.26

response 1020636

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |

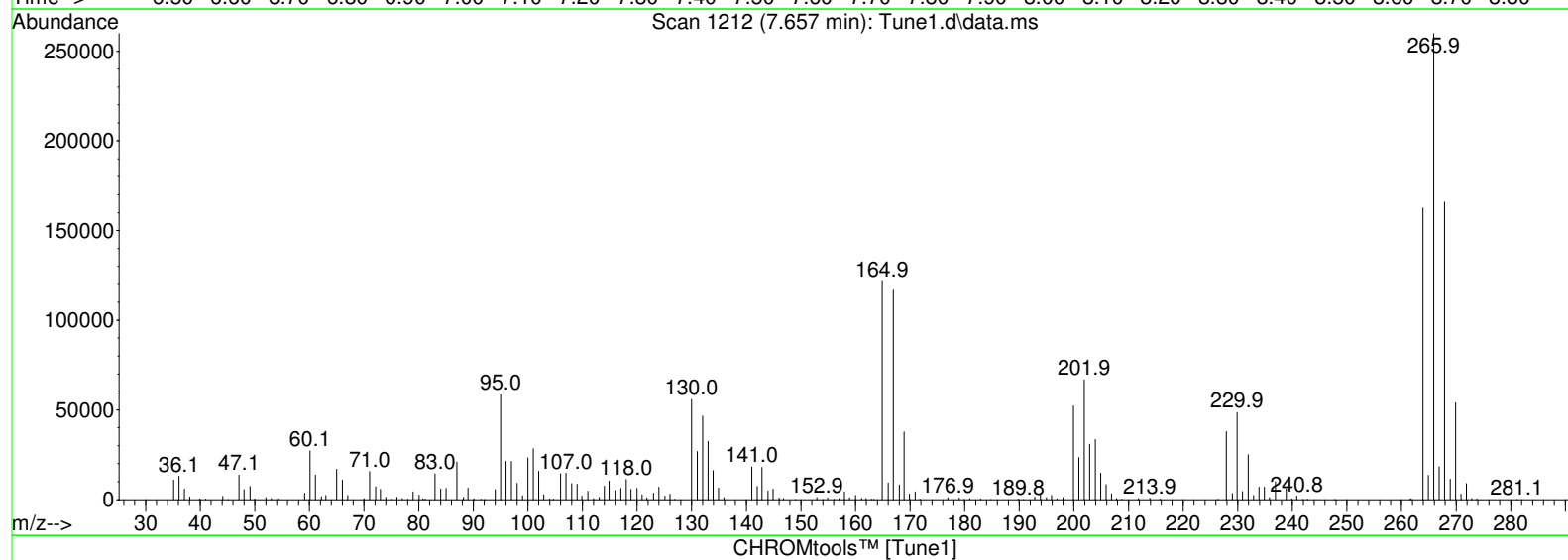
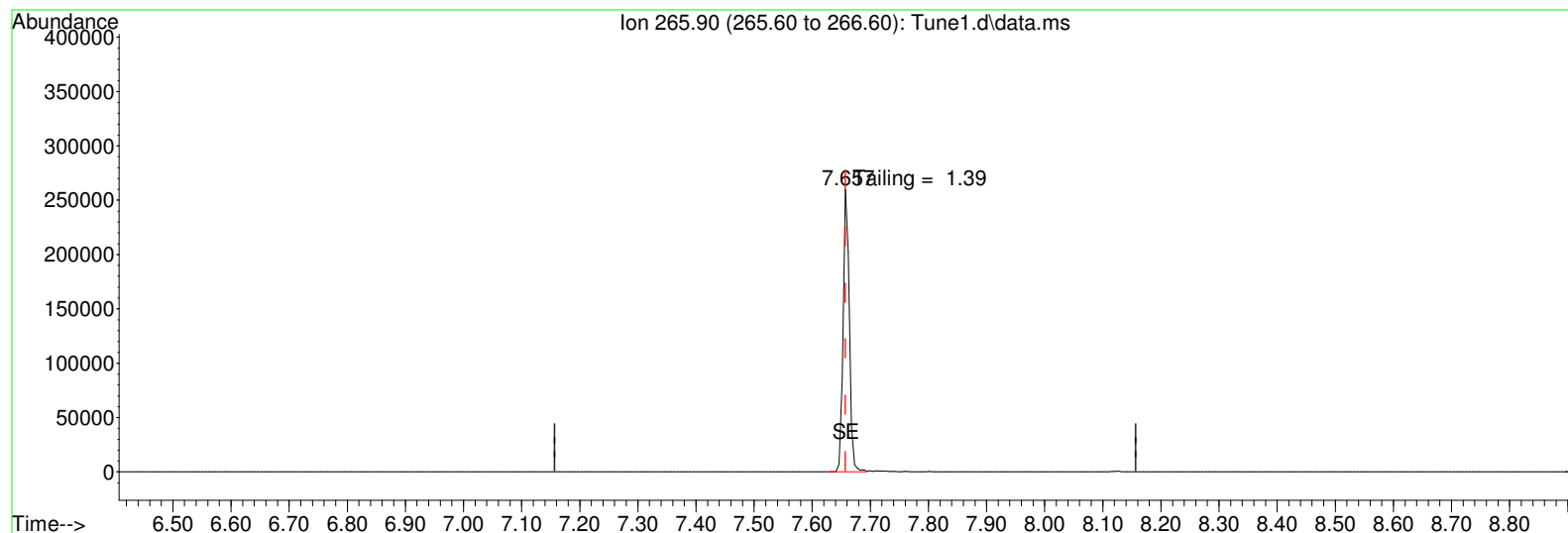
0.00 0.00 0.00

0.00 0.00 0.00

0.00 0.00 0.00

Data Path : I:\8270\GCMS5\190609ical\  
Data File : Tune1.d  
Acq On : 9 Jun 2019 2:11 pm  
Operator : gcms5:  
Sample : Tune1  
Misc : GCMS5 190609ical  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 10 09:04:03 2019  
Quant Method : I:\8270\GCMS5\190609ical\dftpppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 09:03:10 2019  
Response via : Initial Calibration



(1) pentachlorophenol (T)

7.657min (-0.000) 93.59

response 196577

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL10.d  
 Acq On : 9 Jun 2019 2:39 pm  
 Operator : gcms5:ek  
 Sample : IL1,32,,ABNL200 Lot# 8056  
 Misc : wgl246641,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:08:28 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 200328   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 196746      |                |      | Recovery | =       | 101.82%  |          |
| 35) IS1_Naphthalene-d8        | 5.151          | 136  | 768486   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery | =       | 105.20%  |          |
| 63) IS1_Acenaphthene-d10      | 6.594          | 164  | 462723   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery | =       | 105.19%  |          |
| 88) IS1_Phenanthrene-d10      | 7.812          | 188  | 926711   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery | =       | 105.94%  |          |
| 104) IS1_Chrysene-d12         | 10.216         | 240  | 843714   | 40.000  | ug/ml    | 0.01     |
| Standard Area 1 = 915891      |                |      | Recovery | =       | 92.12%   |          |
| 113) IS1_Perylene-d12         | 11.466         | 264  | 1151556  | 40.000  | ug/ml    | 0.01     |
| Standard Area 1 = 1113253     |                |      | Recovery | =       | 103.44%  |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 1072516  | 192.647 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 385.29%# |          |
| 7) Phenol-d6                  | 3.773          | 99   | 1212597  | 182.254 | ug/ml    | 0.02     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 364.51%# |          |
| 19) Nitrobenzene-d5           | 4.548          | 82   | 1185983  | 188.992 | ug/ml    | 0.01     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 755.97%# |          |
| 46) 2-Fluorobiphenyl          | 6.065          | 172  | 2741114  | 172.307 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 689.23%# |          |
| 79) 2,4,6-Tribromophenol      | 7.240          | 330  | 685868   | 213.325 | ug/ml    | 0.01     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 426.65%# |          |
| 96) 4-Terphenyl-d14           | 9.259          | 244  | 3675874  | 175.725 | ug/ml    | 0.01     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 702.90%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 695688   | 197.114 | ug/ml#   | 94       |
| 3) Pyridine                   | 1.609          | 79   | 1258584  | 196.837 | ug/ml    | 100      |
| 5) Aniline                    | 3.762          | 93   | 1581608  | 182.008 | ug/ml#   | 71       |
| 6) 2-Chlorophenol             | 3.869          | 128  | 1190312  | 189.272 | ug/ml    | 97       |
| 8) Phenol                     | 3.784          | 94   | 1450904  | 187.282 | ug/ml    | 98       |
| 9) Bis(2-chloroethyl)ether    | 3.842          | 93   | 937621   | 182.728 | ug/ml#   | 87       |
| 10) 1,3-Dichlorobenzene       | 4.003          | 146  | 1327597  | 181.912 | ug/ml    | 99       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 1329750  | 180.804 | ug/ml    | 99       |
| 12) 1,2-Dichlorobenzene       | 4.200          | 146  | 1171399  | 168.101 | ug/ml    | 99       |
| 13) Benzyl alcohol            | 4.200          | 79   | 816490   | 173.650 | ug/ml    | 99       |
| 14) Bis(2-chloroisopropyl)... | 4.329          | 45   | 1600907  | 177.847 | ug/ml    | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL10.d  
 Acq On : 9 Jun 2019 2:39 pm  
 Operator : gcms5:ek  
 Sample : IL1,32,,ABNL200 Lot# 8056  
 Misc : wg1246641,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:08:28 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 15) 2-Methylphenol            | 4.318 | 108  | 988826   | 178.155 | ug/ml  | 99       |
| 16) Hexachloroethane          | 4.494 | 117  | 525281   | 183.012 | ug/ml# | 81       |
| 17) n-Nitrosodi-n-propylamine | 4.446 | 70   | 813245   | 189.627 | ug/ml# | 90       |
| 18) 3-Methylphenol/4-Methy... | 4.462 | 108  | 1074882  | 180.434 | ug/ml  | 99       |
| 20) Nitrobenzene              | 4.564 | 77   | 1157119  | 183.244 | ug/ml  | 98       |
| 21) Isophorone                | 4.783 | 82   | 2185138  | 198.258 | ug/ml  | 96       |
| 22) 2-Nitrophenol             | 4.836 | 139  | 655663   | 195.917 | ug/ml# | 94       |
| 23) 2,4-Dimethylphenol        | 4.911 | 107  | 1177806  | 190.809 | ug/ml  | 100      |
| 24) Bis(2-chloroethoxy)met... | 4.986 | 93   | 1366729  | 189.663 | ug/ml# | 97       |
| 25) 2,4-Dichlorophenol        | 5.050 | 162  | 1187361  | 187.777 | ug/ml  | 99       |
| 26) 1,2,4-Trichlorobenzene    | 5.108 | 180  | 1305798  | 190.106 | ug/ml  | 98       |
| 36) Naphthalene               | 5.167 | 128  | 3115373  | 165.553 | ug/ml  | 98       |
| 37) Benzoic Acid              | 5.082 | 105  | 1046688  | 217.428 | ug/ml# | 1        |
| 38) 4-Chloroaniline           | 5.231 | 65   | 423745   | 183.510 | ug/ml  | 94       |
| 39) Hexachlorobutadiene       | 5.295 | 225  | 785610   | 189.886 | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 5.653 | 107  | 1030821  | 177.008 | ug/ml  | 99       |
| 41) 2-Methylnaphthalene       | 5.750 | 142  | 2335347  | 166.331 | ug/ml  | 96       |
| 42) 1-Methylnaphthalene       | 5.830 | 115  | 789390   | 176.161 | ug/ml  | 92       |
| 43) Hexachlorocyclopentadiene | 5.888 | 237  | 1107201  | 199.000 | ug/ml  | 98       |
| 44) 2,4,6-Trichlorophenol     | 5.990 | 196  | 956910   | 190.618 | ug/ml  | 98       |
| 45) 2,4,5-Trichlorophenol     | 6.017 | 196  | 1013915  | 188.324 | ug/ml  | 98       |
| 47) 2-Chloronaphthalene       | 6.145 | 162  | 2388787  | 171.134 | ug/ml  | 98       |
| 48) 2-Nitroaniline            | 6.241 | 138  | 884844   | 192.984 | ug/ml  | 96       |
| 49) 1,4-Dinitrobenzene        | 6.353 | 168  | 387422   | 202.132 | ug/ml  | 92       |
| 50) 1,3-Dinitrobenzene        | 6.423 | 168  | 385322   | 187.045 | ug/ml  | 97       |
| 51) Dimethyl phthalate        | 6.417 | 163  | 2688757  | 168.527 | ug/ml# | 97       |
| 52) Acenaphthylene            | 6.481 | 152  | 3677992  | 169.131 | ug/ml  | 97       |
| 53) 2,6-Dinitrotoluene        | 6.449 | 165  | 688933   | 195.403 | ug/ml  | 97       |
| 54) 1,2-Dinitrobenzene        | 6.492 | 168  | 240321   | 198.669 | ug/ml  | 93       |
| 64) 3-Nitroaniline            | 6.583 | 138  | 775905   | 189.138 | ug/ml  | 97       |
| 65) Acenaphthene              | 6.626 | 154  | 2188159  | 174.575 | ug/ml  | 95       |
| 66) 2,4-Dinitrophenol         | 6.663 | 184  | 489925   | 220.475 | ug/ml  | 97       |
| 67) Dibenzofuran              | 6.765 | 168  | 3258587  | 169.708 | ug/ml  | 96       |
| 68) 2,4-Dinitrotoluene        | 6.775 | 165  | 878819   | 190.017 | ug/ml  | 96       |
| 69) 4-Nitrophenol             | 6.738 | 65   | 560731   | 191.050 | ug/ml# | 90       |
| 70) 2,3,5,6-Tetrachlorophenol | 6.839 | 232  | 966484   | 199.993 | ug/ml  | 99       |
| 71) 2,3,4,6-Tetrachlorophenol | 6.871 | 232  | 978986   | 194.713 | ug/ml  | 99       |
| 72) Diethyl phthalate         | 6.989 | 149  | 2985943  | 182.776 | ug/ml  | 99       |
| 73) Fluorene                  | 7.042 | 166  | 2634237  | 165.241 | ug/ml  | 95       |
| 74) 4-Chlorophenyl phenyl ... | 7.053 | 204  | 1439414  | 182.203 | ug/ml  | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL10.d  
 Acq On : 9 Jun 2019 2:39 pm  
 Operator : gcms5:ek  
 Sample : IL1,32,,ABNL200 Lot# 8056  
 Misc : wg1246641,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:08:28 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.090  | 138  | 813060    | 186.280 | ug/ml# | 78       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.106  | 198  | 573604    | 209.066 | ug/ml  | 91       |
| 77)  | NDPA/DPA                  | 7.160  | 169  | 2369886   | 178.305 | ug/ml  | 94       |
| 78)  | Azobenzene                | 7.187  | 77   | 2521252M6 | 172.477 | ug/ml  |          |
| 80)  | 4-Bromophenyl phenyl e... | 7.454  | 248  | 1033123   | 195.548 | ug/ml  | 98       |
| 81)  | Hexachlorobenzene         | 7.502  | 284  | 1221478   | 201.921 | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 7.667  | 266  | 834672    | 209.061 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.833  | 178  | 4190423   | 168.803 | ug/ml  | 96       |
| 90)  | Anthracene                | 7.881  | 178  | 4238101   | 164.762 | ug/ml  | 95       |
| 91)  | Carbazole                 | 8.025  | 167  | 4123648   | 171.245 | ug/ml  | 96       |
| 92)  | Di-n-butylphthalate       | 8.373  | 149  | 4897200   | 168.260 | ug/ml  | 98       |
| 93)  | Fluoranthene              | 8.880  | 202  | 5281619   | 169.803 | ug/ml# | 94       |
| 94)  | Benzidine                 | 9.030  | 184  | 3883213   | 184.775 | ug/ml  | 96       |
| 95)  | Pyrene                    | 9.083  | 202  | 5465146   | 163.821 | ug/ml  | 94       |
| 97)  | Butyl benzyl phthalate    | 9.740  | 149  | 2431524   | 178.045 | ug/ml  | 96       |
| 105) | Benzo(a)anthracene        | 10.205 | 228  | 5050168   | 195.015 | ug/ml  | 96       |
| 106) | 3,3'-Dichlorobenzidine    | 10.210 | 252  | 2193312   | 202.892 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.242 | 228  | 5041138   | 191.009 | ug/ml  | 95       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.312 | 149  | 3440486   | 192.159 | ug/ml# | 94       |
| 109) | Di-n-octylphthalate       | 10.899 | 149  | 5698884   | 191.119 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 11.167 | 252  | 6760239   | 238.630 | ug/ml# | 93       |
| 111) | Benzo(k)fluoranthene      | 11.193 | 252  | 4555187   | 159.990 | ug/ml  | 94       |
| 112) | Benzo(a)pyrene            | 11.428 | 252  | 5803596   | 208.042 | ug/ml# | 93       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.315 | 276  | 6642914M6 | 210.315 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.337 | 278  | 5701915   | 185.011 | ug/ml# | 91       |
| 116) | Benzo(ghi)perylene        | 12.540 | 276  | 6352177   | 189.200 | ug/ml# | 90       |

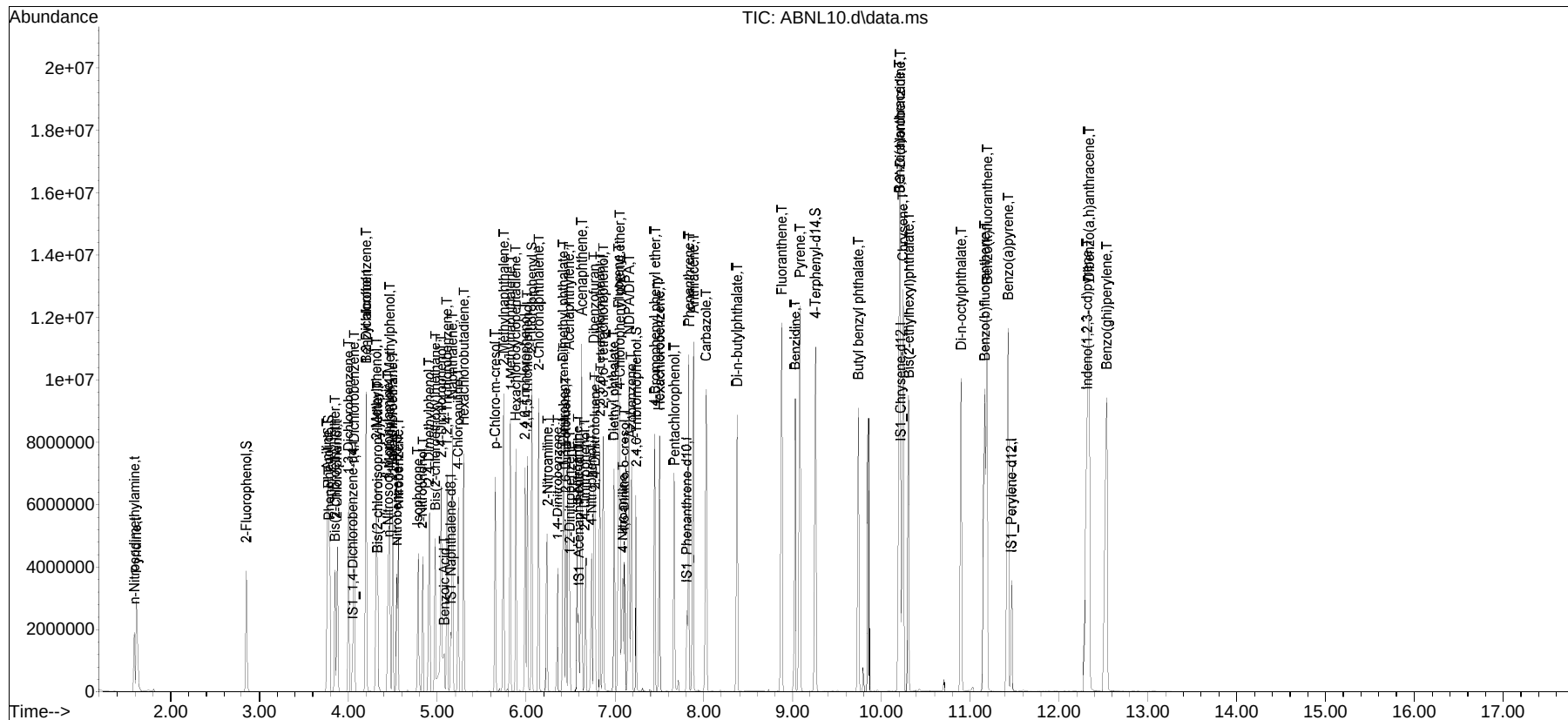
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNL10.d  
Acq On : 9 Jun 2019 2:39 pm  
Operator : gcms5:ek  
Sample : IL1,32,,ABNL200 Lot# 8056  
Misc : wg1246641,,  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 12:08:28 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 11:59:23 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•

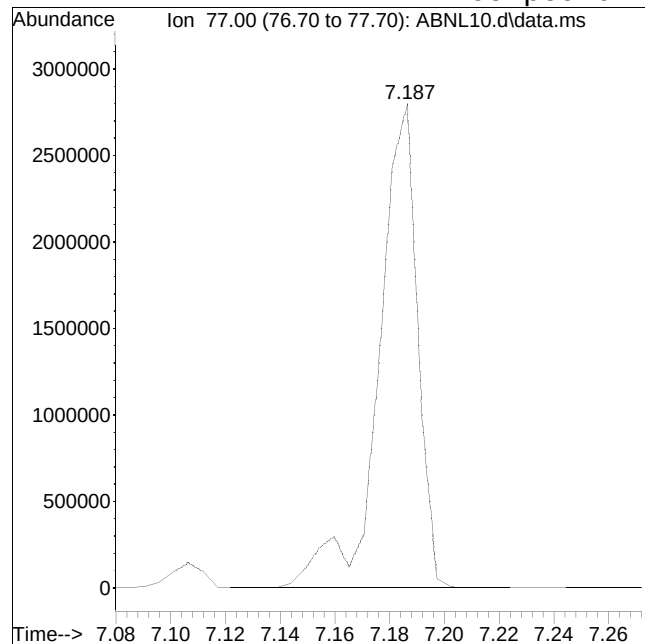




# Manual Integration Report

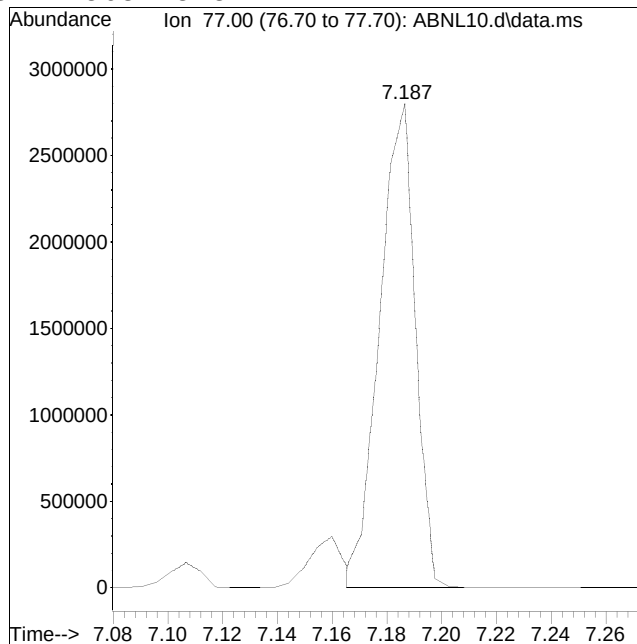
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL10.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 2:39 pm Instrument : GCMS5  
Sample : IL1,32,,ABNL200 Lot# 8056 Quant Date : 6/10/2019 12:00 pm

## Compound #78: Azobenzene



Original Peak Response = 2773445

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

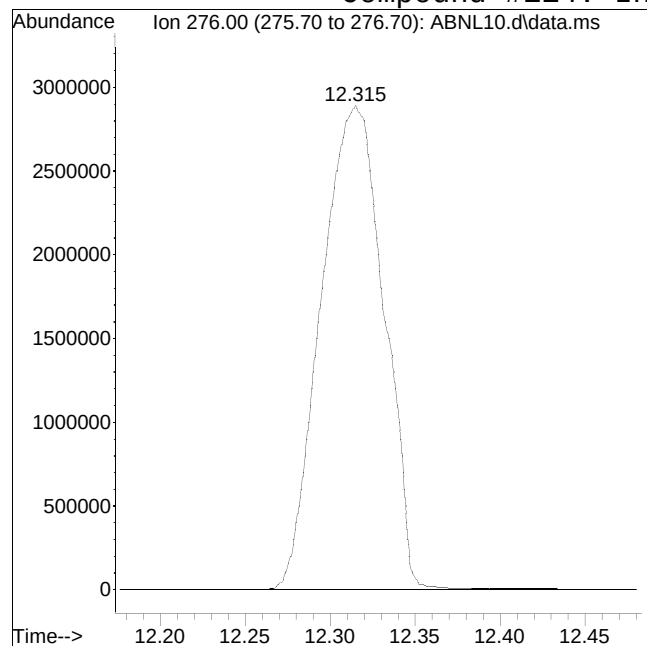


Manual Peak Response = 2521252 M6

# Manual Integration Report

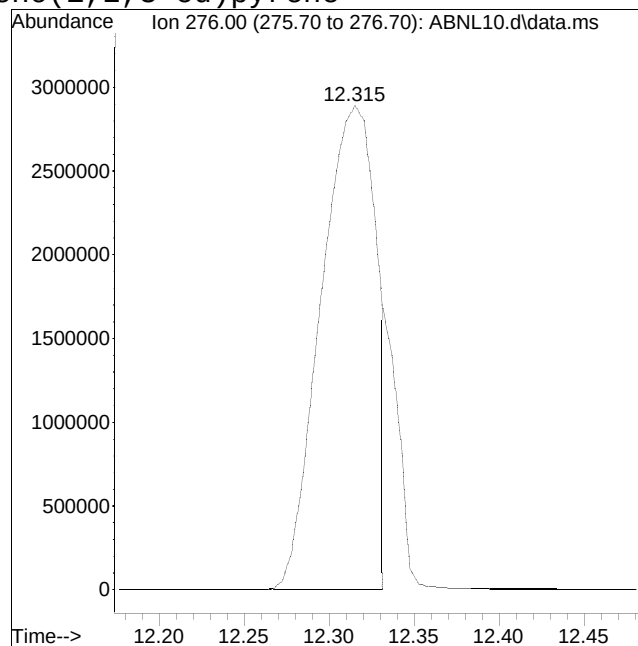
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL10.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 2:39 pm Instrument : GCMS5  
Sample : IL1,32,,ABNL200 Lot# 8056 Quant Date : 6/10/2019 12:00 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 7466278

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 6642914 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL9.d  
 Acq On : 9 Jun 2019 3:04 pm  
 Operator : gcms5:ek  
 Sample : IL2,32,,ABNL150 Lot# 8065  
 Misc : wgl246641,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 13:00:34 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 179583   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 196746      |                |      | Recovery | =       | 91.28%   |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 672272   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery | =       | 92.03%   |          |
| 63) IS1_Acenaphthene-d10      | 6.594          | 164  | 399836   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery | =       | 90.89%   |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 832534   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery | =       | 95.18%   |          |
| 104) IS1_Chrysene-d12         | 10.210         | 240  | 808069   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery | =       | 88.23%   |          |
| 113) IS1_Perylene-d12         | 11.461         | 264  | 1092160  | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery | =       | 98.11%   |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 732846   | 146.841 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 293.68%# |          |
| 7) Phenol-d6                  | 3.768          | 99   | 845001   | 141.675 | ug/ml    | 0.01     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 283.35%# |          |
| 19) Nitrobenzene-d5           | 4.542          | 82   | 796709   | 141.625 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 566.50%# |          |
| 46) 2-Fluorobiphenyl          | 6.060          | 172  | 1859639  | 133.627 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 534.51%# |          |
| 79) 2,4,6-Tribromophenol      | 7.235          | 330  | 421801   | 151.827 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 303.65%# |          |
| 96) 4-Terphenyl-d14           | 9.254          | 244  | 2483810  | 132.170 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 528.68%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.583          | 74   | 474194   | 149.877 | ug/ml    | 96       |
| 3) Pyridine                   | 1.609          | 79   | 844418   | 147.319 | ug/ml    | 100      |
| 5) Aniline                    | 3.762          | 93   | 1081966  | 138.894 | ug/ml#   | 71       |
| 6) 2-Chlorophenol             | 3.869          | 128  | 815230   | 144.605 | ug/ml    | 98       |
| 8) Phenol                     | 3.778          | 94   | 997230   | 143.592 | ug/ml    | 98       |
| 9) Bis(2-chloroethyl)ether    | 3.842          | 93   | 647372   | 140.737 | ug/ml    | 90       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 919624   | 140.567 | ug/ml    | 99       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 924012   | 140.149 | ug/ml    | 99       |
| 12) 1,2-Dichlorobenzene       | 4.200          | 146  | 834537   | 133.594 | ug/ml    | 99       |
| 13) Benzyl alcohol            | 4.195          | 79   | 572057   | 135.719 | ug/ml    | 98       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 1100635  | 136.395 | ug/ml    | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL9.d  
 Acq On : 9 Jun 2019 3:04 pm  
 Operator : gcms5:ek  
 Sample : IL2,32,,ABNL150 Lot# 8065  
 Misc : wgl246641,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 13:00:34 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|---------|--------|----------|
| 15) | 2-Methylphenol            | 4.313 | 108  | 697713   | 140.227 | ug/ml  | 98       |
| 16) | Hexachloroethane          | 4.494 | 117  | 359164   | 139.591 | ug/ml# | 83       |
| 17) | n-Nitrosodi-n-propylamine | 4.441 | 70   | 540965   | 140.710 | ug/ml# | 91       |
| 18) | 3-Methylphenol/4-Methy... | 4.457 | 108  | 738179   | 138.228 | ug/ml  | 100      |
| 20) | Nitrobenzene              | 4.558 | 77   | 784693   | 138.621 | ug/ml  | 98       |
| 21) | Isophorone                | 4.777 | 82   | 1412751  | 142.986 | ug/ml  | 96       |
| 22) | 2-Nitrophenol             | 4.831 | 139  | 447281   | 149.090 | ug/ml# | 93       |
| 23) | 2,4-Dimethylphenol        | 4.906 | 107  | 792974   | 143.304 | ug/ml  | 99       |
| 24) | Bis(2-chloroethoxy)met... | 4.980 | 93   | 898910   | 139.153 | ug/ml# | 97       |
| 25) | 2,4-Dichlorophenol        | 5.045 | 162  | 780623   | 137.713 | ug/ml  | 99       |
| 26) | 1,2,4-Trichlorobenzene    | 5.109 | 180  | 871751   | 141.576 | ug/ml  | 99       |
| 36) | Naphthalene               | 5.167 | 128  | 2167677  | 131.678 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.055 | 105  | 664398   | 157.767 | ug/ml# | 1        |
| 38) | 4-Chloroaniline           | 5.226 | 65   | 285550   | 141.361 | ug/ml  | 95       |
| 39) | Hexachlorobutadiene       | 5.296 | 225  | 511772   | 141.401 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.648 | 107  | 694325   | 136.289 | ug/ml  | 99       |
| 41) | 2-Methylnaphthalene       | 5.744 | 142  | 1604097  | 130.600 | ug/ml  | 97       |
| 42) | 1-Methylnaphthalene       | 5.824 | 115  | 528607   | 134.847 | ug/ml  | 96       |
| 43) | Hexachlorocyclopentadiene | 5.889 | 237  | 729220   | 149.822 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 5.990 | 196  | 640931   | 145.947 | ug/ml  | 98       |
| 45) | 2,4,5-Trichlorophenol     | 6.011 | 196  | 658082   | 139.725 | ug/ml  | 96       |
| 47) | 2-Chloronaphthalene       | 6.140 | 162  | 1652437  | 135.324 | ug/ml  | 99       |
| 48) | 2-Nitroaniline            | 6.236 | 138  | 578402   | 144.203 | ug/ml  | 96       |
| 49) | 1,4-Dinitrobenzene        | 6.348 | 168  | 248775   | 148.371 | ug/ml  | 90       |
| 50) | 1,3-Dinitrobenzene        | 6.412 | 168  | 256894   | 142.550 | ug/ml  | 98       |
| 51) | Dimethyl phthalate        | 6.412 | 163  | 1871858  | 134.117 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.476 | 152  | 2521102  | 132.524 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.444 | 165  | 440860   | 142.937 | ug/ml  | 98       |
| 54) | 1,2-Dinitrobenzene        | 6.487 | 168  | 153637   | 145.186 | ug/ml  | 91       |
| 64) | 3-Nitroaniline            | 6.578 | 138  | 518523   | 146.277 | ug/ml  | 96       |
| 65) | Acenaphthene              | 6.620 | 154  | 1499610  | 138.459 | ug/ml  | 95       |
| 66) | 2,4-Dinitrophenol         | 6.658 | 184  | 321366   | 167.367 | ug/ml  | 98       |
| 67) | Dibenzofuran              | 6.759 | 168  | 2227621  | 134.262 | ug/ml  | 97       |
| 68) | 2,4-Dinitrotoluene        | 6.770 | 165  | 571391   | 142.977 | ug/ml  | 96       |
| 69) | 4-Nitrophenol             | 6.733 | 65   | 378095   | 149.085 | ug/ml# | 89       |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.834 | 232  | 628369   | 150.479 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.872 | 232  | 642160   | 147.809 | ug/ml  | 98       |
| 72) | Diethyl phthalate         | 6.984 | 149  | 2000644  | 141.725 | ug/ml  | 99       |
| 73) | Fluorene                  | 7.037 | 166  | 1844911  | 133.930 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.053 | 204  | 951620   | 139.403 | ug/ml  | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL9.d  
 Acq On : 9 Jun 2019 3:04 pm  
 Operator : gcms5:ek  
 Sample : IL2,32,,ABNL150 Lot# 8065  
 Misc : wg1246641,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 13:00:34 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.075  | 138  | 533812    | 141.537 | ug/ml# | 83       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.101  | 198  | 363919    | 153.502 | ug/ml  | 91       |
| 77)  | NDPA/DPA                  | 7.155  | 169  | 1599532   | 139.273 | ug/ml  | 94       |
| 78)  | Azobenzene                | 7.181  | 77   | 1700967   | 134.663 | ug/ml# | 93       |
| 80)  | 4-Bromophenyl phenyl e... | 7.449  | 248  | 661671    | 144.938 | ug/ml  | 97       |
| 81)  | Hexachlorobenzene         | 7.497  | 284  | 772569    | 147.799 | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 7.662  | 266  | 536301    | 155.455 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.833  | 178  | 2944625   | 132.037 | ug/ml  | 98       |
| 90)  | Anthracene                | 7.876  | 178  | 3000518   | 129.845 | ug/ml  | 97       |
| 91)  | Carbazole                 | 8.020  | 167  | 2827095   | 130.683 | ug/ml  | 97       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 3349899   | 128.117 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 8.875  | 202  | 3692648   | 132.148 | ug/ml# | 95       |
| 94)  | Benzidine                 | 9.024  | 184  | 2666078   | 141.211 | ug/ml# | 97       |
| 95)  | Pyrene                    | 9.078  | 202  | 3850851   | 128.490 | ug/ml  | 97       |
| 97)  | Butyl benzyl phthalate    | 9.735  | 149  | 1689393   | 137.697 | ug/ml  | 96       |
| 105) | Benzo(a)anthracene        | 10.200 | 228  | 3498244   | 141.046 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.200 | 252  | 1546362   | 149.356 | ug/ml# | 96       |
| 107) | Chrysene                  | 10.237 | 228  | 3548935   | 140.401 | ug/ml  | 96       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.307 | 149  | 2418749   | 141.052 | ug/ml# | 93       |
| 109) | Di-n-octylphthalate       | 10.894 | 149  | 4115723   | 144.114 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 11.156 | 252  | 4289328   | 158.088 | ug/ml# | 95       |
| 111) | Benzo(k)fluoranthene      | 11.183 | 252  | 3758930   | 137.847 | ug/ml# | 94       |
| 112) | Benzo(a)pyrene            | 11.423 | 252  | 4103065   | 153.571 | ug/ml# | 95       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.299 | 276  | 4879459M6 | 162.885 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.321 | 278  | 4217610   | 144.292 | ug/ml# | 92       |
| 116) | Benzo(ghi)perylene        | 12.524 | 276  | 4631360   | 145.447 | ug/ml# | 90       |

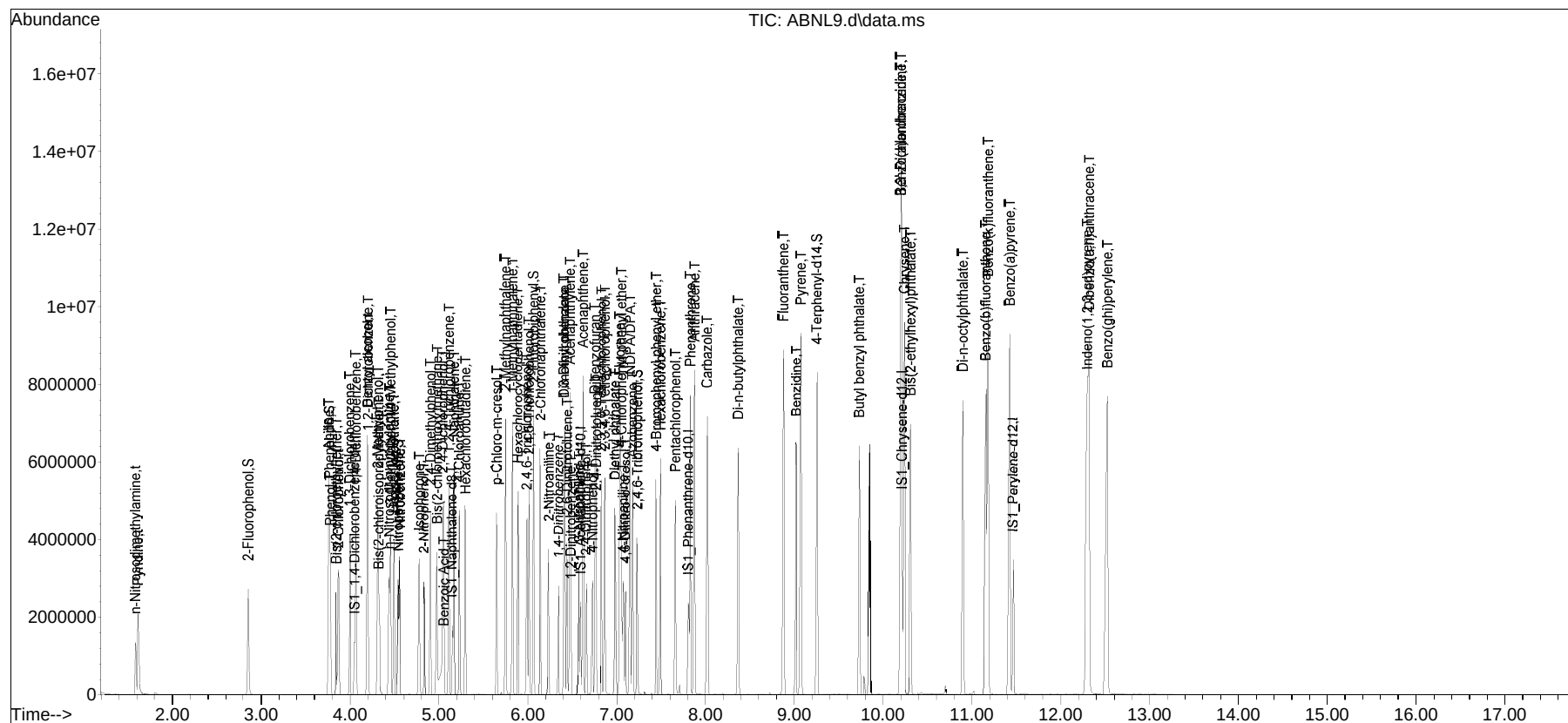
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : I:\8270\GCMS5\190609ical\  
Data File  : ABNL9.d  
Acq On     : 9 Jun 2019    3:04 pm  
Operator   : gcms5:ek  
Sample     : IL2,32,,ABNL150 Lot# 8065  
Misc      : wg1246641,,  
ALS Vial   : 2      Sample Multiplier: 1
```

Quant Time: Jun 10 13:00:34 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 11:59:23 2019  
Response via : Initial Calibration

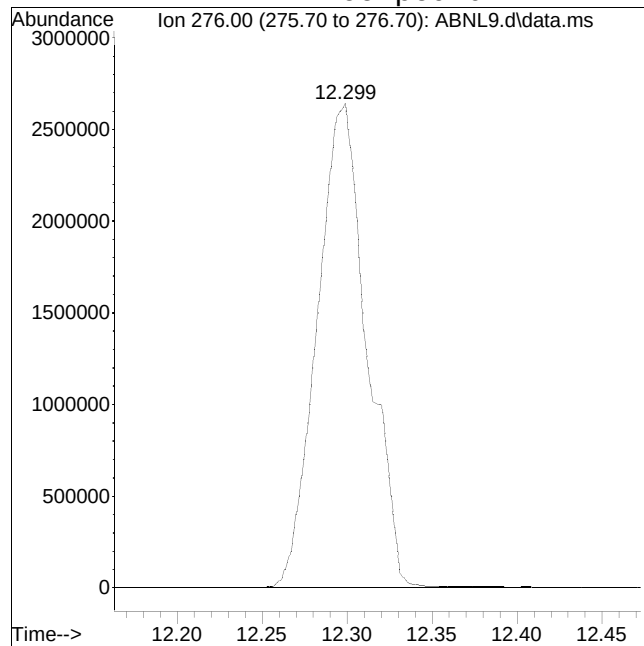
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

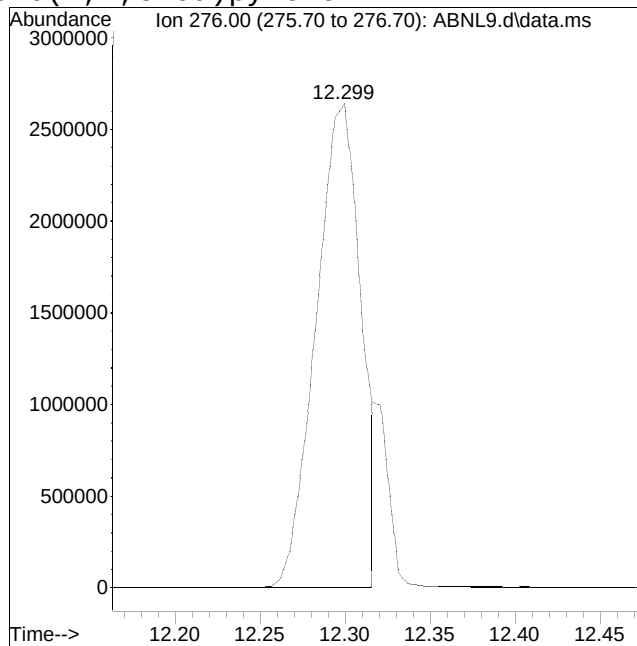
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL9.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 3:04 pm Instrument : GCMS5  
Sample : IL2,32,,ABNL150 Lot# 8065 Quant Date : 6/10/2019 12:01 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5422919

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 4879459 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL8.d  
 Acq On : 9 Jun 2019 3:30 pm  
 Operator : gcms5:ek  
 Sample : IL3,32,,ABNL100 Lot# 8064  
 Misc : wg1246641,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 12:58:55 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 12:56:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 180828   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 196746      |                |      | Recovery | =       | 91.91%   |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 656983   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery | =       | 89.94%   |          |
| 63) IS1_Acenaphthene-d10      | 6.593          | 164  | 394523   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery | =       | 89.68%   |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 775893   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery | =       | 88.70%   |          |
| 104) IS1_Chrysene-d12         | 10.205         | 240  | 813033   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery | =       | 88.77%   |          |
| 113) IS1_Perylene-d12         | 11.460         | 264  | 1033487  | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery | =       | 92.83%   |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 498209   | 99.394  | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 198.79%# |          |
| 7) Phenol-d6                  | 3.762          | 99   | 574330   | 93.563  | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 187.13%# |          |
| 19) Nitrobenzene-d5           | 4.542          | 82   | 545729   | 100.508 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 402.03%# |          |
| 46) 2-Fluorobiphenyl          | 6.059          | 172  | 1289670  | 88.464  | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 353.86%# |          |
| 79) 2,4,6-Tribromophenol      | 7.235          | 330  | 278801   | 109.450 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 218.90%# |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 1698358  | 96.950  | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 387.80%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 314987   | 97.195  | ug/ml#   | 95       |
| 3) Pyridine                   | 1.609          | 79   | 551951   | 95.794  | ug/ml    | 95       |
| 5) Aniline                    | 3.762          | 93   | 747290   | 89.921  | ug/ml    | 97       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 555800   | 98.376  | ug/ml    | 100      |
| 8) Phenol                     | 3.773          | 94   | 684790   | 95.514  | ug/ml    | 98       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 439233   | 89.483  | ug/ml    | 88       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 643600   | 91.479  | ug/ml    | 97       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 642711   | 91.095  | ug/ml    | 99       |
| 12) 1,2-Dichlorobenzene       | 4.200          | 146  | 586052   | 88.093  | ug/ml    | 100      |
| 13) Benzyl alcohol            | 4.195          | 79   | 403637   | 96.601  | ug/ml    | 99       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 765233   | 88.903  | ug/ml#   | 95       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL8.d  
 Acq On : 9 Jun 2019 3:30 pm  
 Operator : gcms5:ek  
 Sample : IL3,32,,ABNL100 Lot# 8064  
 Misc : wg1246641,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 12:58:55 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 12:56:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 15) 2-Methylphenol            | 4.312 | 108  | 485508   | 99.746  | ug/ml  | 98       |
| 16) Hexachloroethane          | 4.489 | 117  | 248180   | 93.704  | ug/ml# | 84       |
| 17) n-Nitrosodi-n-propylamine | 4.435 | 70   | 375129   | 100.411 | ug/ml# | 90       |
| 18) 3-Methylphenol/4-Methy... | 4.451 | 108  | 517601   | 97.663  | ug/ml  | 100      |
| 20) Nitrobenzene              | 4.558 | 77   | 551411   | 98.356  | ug/ml  | 96       |
| 21) Isophorone                | 4.772 | 82   | 955457   | 97.203  | ug/ml  | 96       |
| 22) 2-Nitrophenol             | 4.831 | 139  | 302346   | 104.933 | ug/ml# | 95       |
| 23) 2,4-Dimethylphenol        | 4.900 | 107  | 538980   | 99.078  | ug/ml  | 99       |
| 24) Bis(2-chloroethoxy)met... | 4.980 | 93   | 607210   | 88.667  | ug/ml# | 98       |
| 25) 2,4-Dichlorophenol        | 5.039 | 162  | 537808   | 99.396  | ug/ml  | 98       |
| 26) 1,2,4-Trichlorobenzene    | 5.108 | 180  | 590720   | 89.845  | ug/ml  | 99       |
| 36) Naphthalene               | 5.162 | 128  | 1532843  | 88.970  | ug/ml  | 100      |
| 37) Benzoic Acid              | 5.034 | 105  | 438929   | 134.630 | ug/ml# | 1        |
| 38) 4-Chloroaniline           | 5.226 | 65   | 194725   | 93.233  | ug/ml  | 94       |
| 39) Hexachlorobutadiene       | 5.290 | 225  | 345635   | 94.114  | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 5.648 | 107  | 474296   | 102.718 | ug/ml  | 99       |
| 41) 2-Methylnaphthalene       | 5.744 | 142  | 1111977  | 89.100  | ug/ml  | 97       |
| 42) 1-Methylnaphthalene       | 5.824 | 115  | 362146   | 87.848  | ug/ml  | 96       |
| 43) Hexachlorocyclopentadiene | 5.888 | 237  | 478424   | 107.388 | ug/ml  | 98       |
| 44) 2,4,6-Trichlorophenol     | 5.984 | 196  | 441899   | 109.541 | ug/ml  | 97       |
| 45) 2,4,5-Trichlorophenol     | 6.011 | 196  | 427528   | 98.205  | ug/ml  | 98       |
| 47) 2-Chloronaphthalene       | 6.139 | 162  | 1128404  | 89.657  | ug/ml  | 100      |
| 48) 2-Nitroaniline            | 6.230 | 138  | 389621   | 108.464 | ug/ml  | 96       |
| 49) 1,4-Dinitrobenzene        | 6.342 | 168  | 166338   | 111.672 | ug/ml  | 89       |
| 50) 1,3-Dinitrobenzene        | 6.407 | 168  | 170331   | 98.664  | ug/ml  | 94       |
| 51) Dimethyl phthalate        | 6.407 | 163  | 1285704  | 90.279  | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.476 | 152  | 1751171  | 90.283  | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 6.439 | 165  | 295449   | 103.635 | ug/ml  | 97       |
| 54) 1,2-Dinitrobenzene        | 6.481 | 168  | 101040   | 96.882  | ug/ml  | 88       |
| 64) 3-Nitroaniline            | 6.572 | 138  | 355421   | 108.189 | ug/ml  | 96       |
| 65) Acenaphthene              | 6.620 | 154  | 1019298  | 85.716  | ug/ml  | 94       |
| 66) 2,4-Dinitrophenol         | 6.652 | 184  | 204129   | 124.898 | ug/ml  | 98       |
| 67) Dibenzofuran              | 6.759 | 168  | 1540242  | 85.240  | ug/ml  | 98       |
| 68) 2,4-Dinitrotoluene        | 6.764 | 165  | 386795   | 99.190  | ug/ml  | 97       |
| 69) 4-Nitrophenol             | 6.727 | 65   | 253838   | 108.544 | ug/ml# | 89       |
| 70) 2,3,5,6-Tetrachlorophenol | 6.834 | 232  | 420278   | 107.177 | ug/ml  | 99       |
| 71) 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 429308   | 100.913 | ug/ml  | 99       |
| 72) Diethyl phthalate         | 6.983 | 149  | 1331701  | 92.323  | ug/ml  | 99       |
| 73) Fluorene                  | 7.037 | 166  | 1276805  | 90.237  | ug/ml  | 96       |
| 74) 4-Chlorophenyl phenyl ... | 7.048 | 204  | 636805   | 88.187  | ug/ml  | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL8.d  
 Acq On : 9 Jun 2019 3:30 pm  
 Operator : gcms5:ek  
 Sample : IL3,32,,ABNL100 Lot# 8064  
 Misc : wg1246641,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 12:58:55 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 12:56:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.069  | 138  | 366482    | 102.287 | ug/ml# | 87       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.096  | 198  | 240594    | 114.653 | ug/ml  | 94       |
| 77)  | NDPA/DPA                  | 7.149  | 169  | 1091473   | 90.617  | ug/ml  | 95       |
| 78)  | Azobenzene                | 7.176  | 77   | 1165145   | 90.208  | ug/ml# | 92       |
| 80)  | 4-Bromophenyl phenyl e... | 7.448  | 248  | 436686    | 95.145  | ug/ml  | 96       |
| 81)  | Hexachlorobenzene         | 7.491  | 284  | 511864    | 93.675  | ug/ml  | 95       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 351198    | 117.971 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.828  | 178  | 1994154   | 87.307  | ug/ml  | 98       |
| 90)  | Anthracene                | 7.870  | 178  | 2074166   | 93.361  | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.020  | 167  | 1944655   | 95.590  | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 2274648   | 104.281 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 8.875  | 202  | 2536508   | 96.956  | ug/ml# | 95       |
| 94)  | Benzidine                 | 9.019  | 184  | 1816796   | 119.093 | ug/ml# | 97       |
| 95)  | Pyrene                    | 9.078  | 202  | 2668817   | 93.835  | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 9.735  | 149  | 1128300   | 111.994 | ug/ml  | 96       |
| 105) | Benzo(a)anthracene        | 10.194 | 228  | 2387045   | 92.949  | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.200 | 252  | 1038734   | 112.016 | ug/ml# | 96       |
| 107) | Chrysene                  | 10.232 | 228  | 2499817   | 90.552  | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.306 | 149  | 1620851   | 113.325 | ug/ml# | 92       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 2761315   | 109.764 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 11.150 | 252  | 2745960   | 99.292  | ug/ml# | 96       |
| 111) | Benzo(k)fluoranthene      | 11.177 | 252  | 2639721   | 100.638 | ug/ml# | 95       |
| 112) | Benzo(a)pyrene            | 11.418 | 252  | 2736346   | 104.651 | ug/ml# | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.294 | 276  | 3023620M6 | 115.130 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.315 | 278  | 2757279   | 103.400 | ug/ml# | 94       |
| 116) | Benzo(ghi)perylene        | 12.518 | 276  | 2943720   | 101.337 | ug/ml# | 92       |

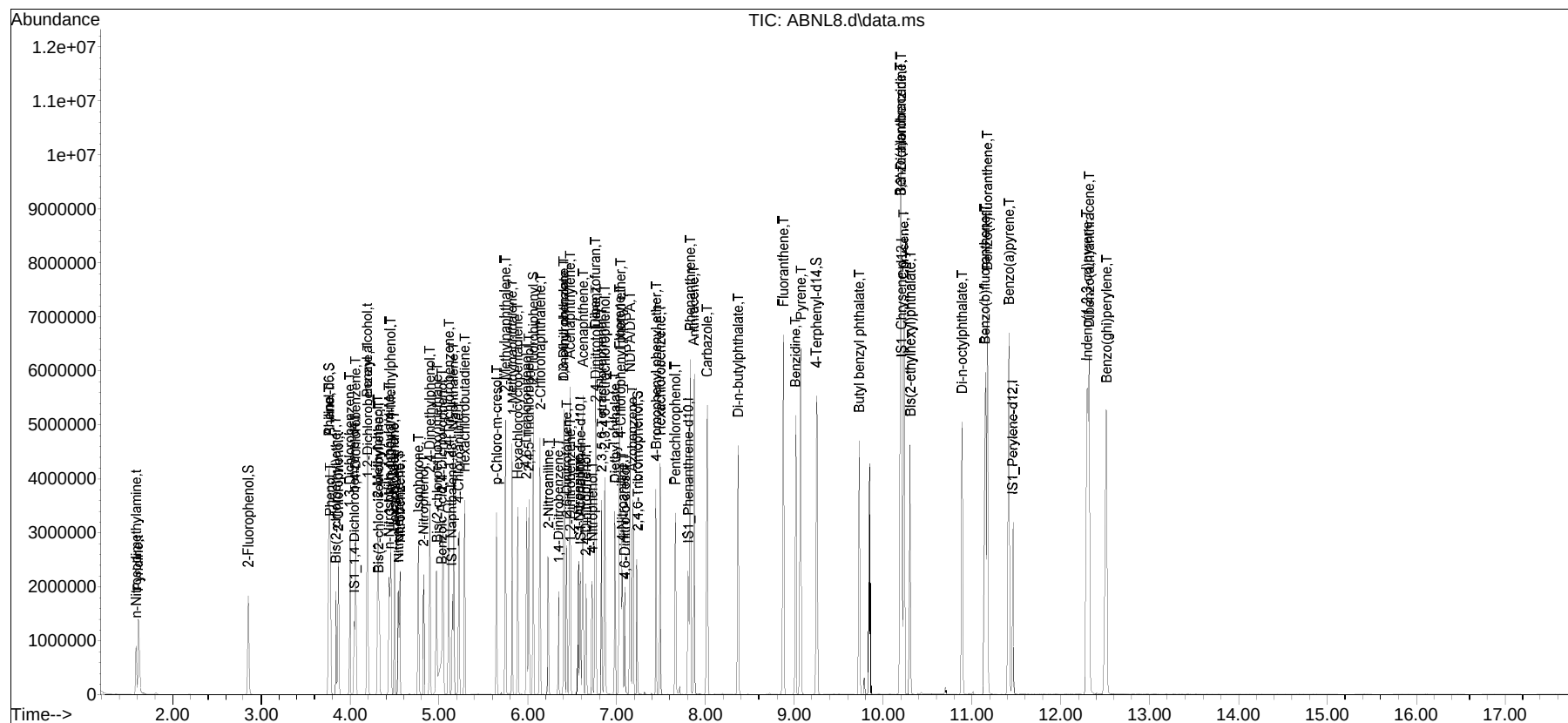
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNL8.d  
Acq On : 9 Jun 2019 3:30 pm  
Operator : gcms5:ek  
Sample : IL3,32,,ABNL100 Lot# 8064  
Misc : wg1246641,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 10 12:58:55 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 12:56:20 2019  
Response via : Initial Calibration

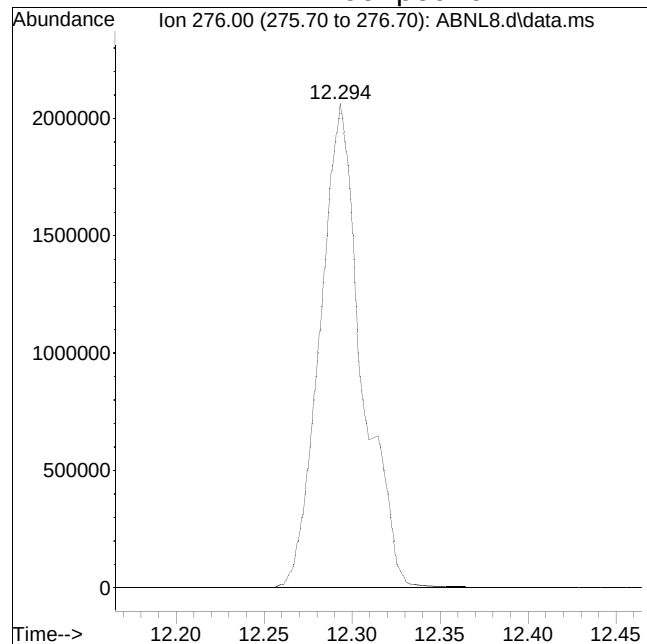
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

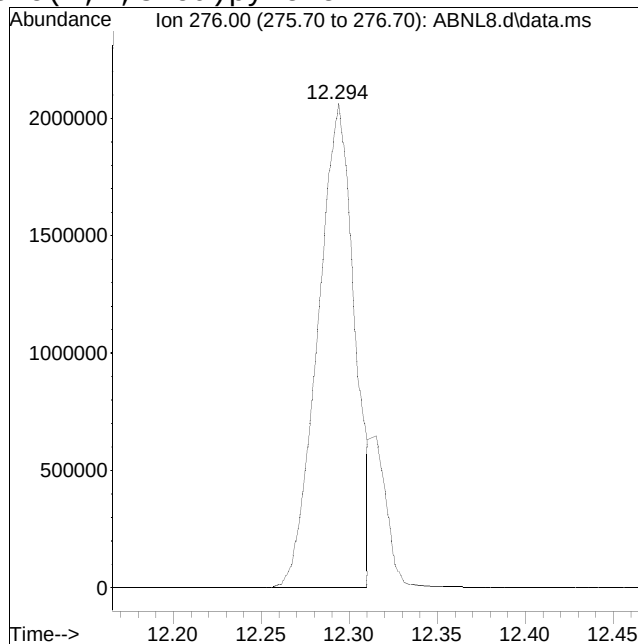
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL8.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 3:30 pm Instrument : GCMS5  
Sample : IL3,32,,ABNL100 Lot# 8064 Quant Date : 6/10/2019 12:58 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3419614

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 3023620 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL7.d  
 Acq On : 9 Jun 2019 3:56 pm  
 Operator : gcms5:ek  
 Sample : IL4,32,,ABNL50 Lot# 8063  
 Misc : wg1246641,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 11:59:44 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:26 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|----------|----------|
| -----                         |                |      |          |        |          |          |
| Internal Standards            |                |      |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 196746   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery | =      | 100.00%  |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 730484   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery | =      | 100.00%  |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 439902   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery | =      | 100.00%  |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 874720   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery | =      | 100.00%  |          |
| 104) IS1_Chrysene-d12         | 10.205         | 240  | 915891   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery | =      | 100.00%  |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 1113253  | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery | =      | 100.00%  |          |
| System Monitoring Compounds   |                |      |          |        |          |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 273385   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 7) Phenol-d6                  | 3.757          | 99   | 326719   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 308155   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| 46) 2-Fluorobiphenyl          | 6.059          | 172  | 756084   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 152828   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 987239   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| Target Compounds              |                |      |          |        |          |          |
|                               |                |      |          |        |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 173313   | 50.000 | ug/ml#   | 96       |
| 3) Pyridine                   | 1.615          | 79   | 313985   | 50.000 | ug/ml    | 100      |
| 5) Aniline                    | 3.757          | 93   | 426719   | 50.000 | ug/ml    | 97       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 308822   | 50.000 | ug/ml    | 100      |
| 8) Phenol                     | 3.773          | 94   | 380432   | 50.000 | ug/ml    | 97       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 251975   | 50.000 | ug/ml    | 88       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 358376   | 50.000 | ug/ml    | 98       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 361158   | 50.000 | ug/ml    | 99       |
| 12) 1,2-Dichlorobenzene       | 4.200          | 146  | 342192   | 50.000 | ug/ml    | 100      |
| 13) Benzyl alcohol            | 4.190          | 79   | 230893   | 50.000 | ug/ml    | 99       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 442033   | 50.000 | ug/ml#   | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL7.d  
 Acq On : 9 Jun 2019 3:56 pm  
 Operator : gcms5:ek  
 Sample : IL4,32,,ABNL50 Lot# 8063  
 Misc : wg1246641,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 11:59:44 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:26 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 15) 2-Methylphenol            | 4.307 | 108  | 272556   | 50.000 | ug/ml  | 99       |
| 16) Hexachloroethane          | 4.494 | 117  | 140944   | 50.000 | ug/ml  | 85       |
| 17) n-Nitrosodi-n-propylamine | 4.435 | 70   | 210599   | 50.000 | ug/ml# | 89       |
| 18) 3-Methylphenol/4-Methy... | 4.451 | 108  | 292534   | 50.000 | ug/ml  | 98       |
| 20) Nitrobenzene              | 4.553 | 77   | 310086   | 50.000 | ug/ml  | 97       |
| 21) Isophorone                | 4.767 | 82   | 541232   | 50.000 | ug/ml  | 96       |
| 22) 2-Nitrophenol             | 4.831 | 139  | 164340   | 50.000 | ug/ml# | 93       |
| 23) 2,4-Dimethylphenol        | 4.900 | 107  | 303117   | 50.000 | ug/ml  | 99       |
| 24) Bis(2-chloroethoxy)met... | 4.975 | 93   | 353863   | 50.000 | ug/ml  | 98       |
| 25) 2,4-Dichlorophenol        | 5.039 | 162  | 310510   | 50.000 | ug/ml  | 97       |
| 26) 1,2,4-Trichlorobenzene    | 5.109 | 180  | 337298   | 50.000 | ug/ml  | 98       |
| 36) Naphthalene               | 5.162 | 128  | 894373   | 50.000 | ug/ml  | 100      |
| 37) Benzoic Acid              | 5.007 | 105  | 228795   | 50.000 | ug/ml# | 1        |
| 38) 4-Chloroaniline           | 5.221 | 65   | 109746   | 50.000 | ug/ml  | 96       |
| 39) Hexachlorobutadiene       | 5.290 | 225  | 196634   | 50.000 | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 5.648 | 107  | 276781   | 50.000 | ug/ml  | 97       |
| 41) 2-Methylnaphthalene       | 5.744 | 142  | 667302   | 50.000 | ug/ml  | 97       |
| 42) 1-Methylnaphthalene       | 5.819 | 115  | 212974   | 50.000 | ug/ml  | 96       |
| 43) Hexachlorocyclopentadiene | 5.888 | 237  | 264435   | 50.000 | ug/ml  | 99       |
| 44) 2,4,6-Trichlorophenol     | 5.985 | 196  | 238590   | 50.000 | ug/ml  | 98       |
| 45) 2,4,5-Trichlorophenol     | 6.011 | 196  | 255883   | 50.000 | ug/ml  | 99       |
| 47) 2-Chloronaphthalene       | 6.140 | 162  | 663414   | 50.000 | ug/ml  | 100      |
| 48) 2-Nitroaniline            | 6.230 | 138  | 217917   | 50.000 | ug/ml  | 94       |
| 49) 1,4-Dinitrobenzene        | 6.343 | 168  | 91095    | 50.000 | ug/ml  | 86       |
| 50) 1,3-Dinitrobenzene        | 6.407 | 168  | 97909    | 50.000 | ug/ml  | 91       |
| 51) Dimethyl phthalate        | 6.401 | 163  | 758273   | 50.000 | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.471 | 152  | 1033553  | 50.000 | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 6.439 | 165  | 167568   | 50.000 | ug/ml  | 97       |
| 54) 1,2-Dinitrobenzene        | 6.476 | 168  | 57492    | 50.000 | ug/ml  | 86       |
| 64) 3-Nitroaniline            | 6.567 | 138  | 195000   | 50.000 | ug/ml  | 95       |
| 65) Acenaphthene              | 6.615 | 154  | 595800   | 50.000 | ug/ml  | 94       |
| 66) 2,4-Dinitrophenol         | 6.647 | 184  | 105627   | 50.000 | ug/ml  | 96       |
| 67) Dibenzofuran              | 6.759 | 168  | 912710   | 50.000 | ug/ml  | 98       |
| 68) 2,4-Dinitrotoluene        | 6.759 | 165  | 219843   | 50.000 | ug/ml  | 96       |
| 69) 4-Nitrophenol             | 6.722 | 65   | 139512M2 | 50.000 | ug/ml  |          |
| 70) 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 229712   | 50.000 | ug/ml  | 99       |
| 71) 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 238994   | 50.000 | ug/ml  | 99       |
| 72) Diethyl phthalate         | 6.978 | 149  | 776547   | 50.000 | ug/ml  | 98       |
| 73) Fluorene                  | 7.037 | 166  | 757776   | 50.000 | ug/ml  | 95       |
| 74) 4-Chlorophenyl phenyl ... | 7.048 | 204  | 375522   | 50.000 | ug/ml  | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL7.d  
 Acq On : 9 Jun 2019 3:56 pm  
 Operator : gcms5:ek  
 Sample : IL4,32,,ABNL50 Lot# 8063  
 Misc : wg1246641,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 11:59:44 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:26 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.058  | 138  | 207473    | 50.000 | ug/ml# | 89       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.090  | 198  | 130417    | 50.000 | ug/ml  | 95       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 631785    | 50.000 | ug/ml  | 95       |
| 78)  | Azobenzene                | 7.176  | 77   | 694849    | 50.000 | ug/ml# | 91       |
| 80)  | 4-Bromophenyl phenyl e... | 7.448  | 248  | 251133    | 50.000 | ug/ml  | 94       |
| 81)  | Hexachlorobenzene         | 7.491  | 284  | 287547    | 50.000 | ug/ml  | 94       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 189779    | 50.000 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.828  | 178  | 1171581   | 50.000 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.870  | 178  | 1213973   | 50.000 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.015  | 167  | 1136473   | 50.000 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 1373603   | 50.000 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 8.869  | 202  | 1467965   | 50.000 | ug/ml# | 95       |
| 94)  | Benzidine                 | 9.014  | 184  | 991841    | 50.000 | ug/ml  | 98       |
| 95)  | Pyrene                    | 9.072  | 202  | 1574439   | 50.000 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.730  | 149  | 644531    | 50.000 | ug/ml  | 98       |
| 105) | Benzo(a)anthracene        | 10.194 | 228  | 1405579   | 50.000 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 10.194 | 252  | 586752    | 50.000 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.226 | 228  | 1432496   | 50.000 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 971800    | 50.000 | ug/ml# | 91       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 1618470   | 50.000 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 11.145 | 252  | 1537641   | 50.000 | ug/ml# | 96       |
| 111) | Benzo(k)fluoranthene      | 11.172 | 252  | 1545366   | 50.000 | ug/ml# | 96       |
| 112) | Benzo(a)pyrene            | 11.412 | 252  | 1514137   | 50.000 | ug/ml# | 95       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.288 | 276  | 1526749M6 | 50.000 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.310 | 278  | 1489711   | 50.000 | ug/ml# | 95       |
| 116) | Benzo(ghi)perylene        | 12.508 | 276  | 1622858   | 50.000 | ug/ml# | 92       |

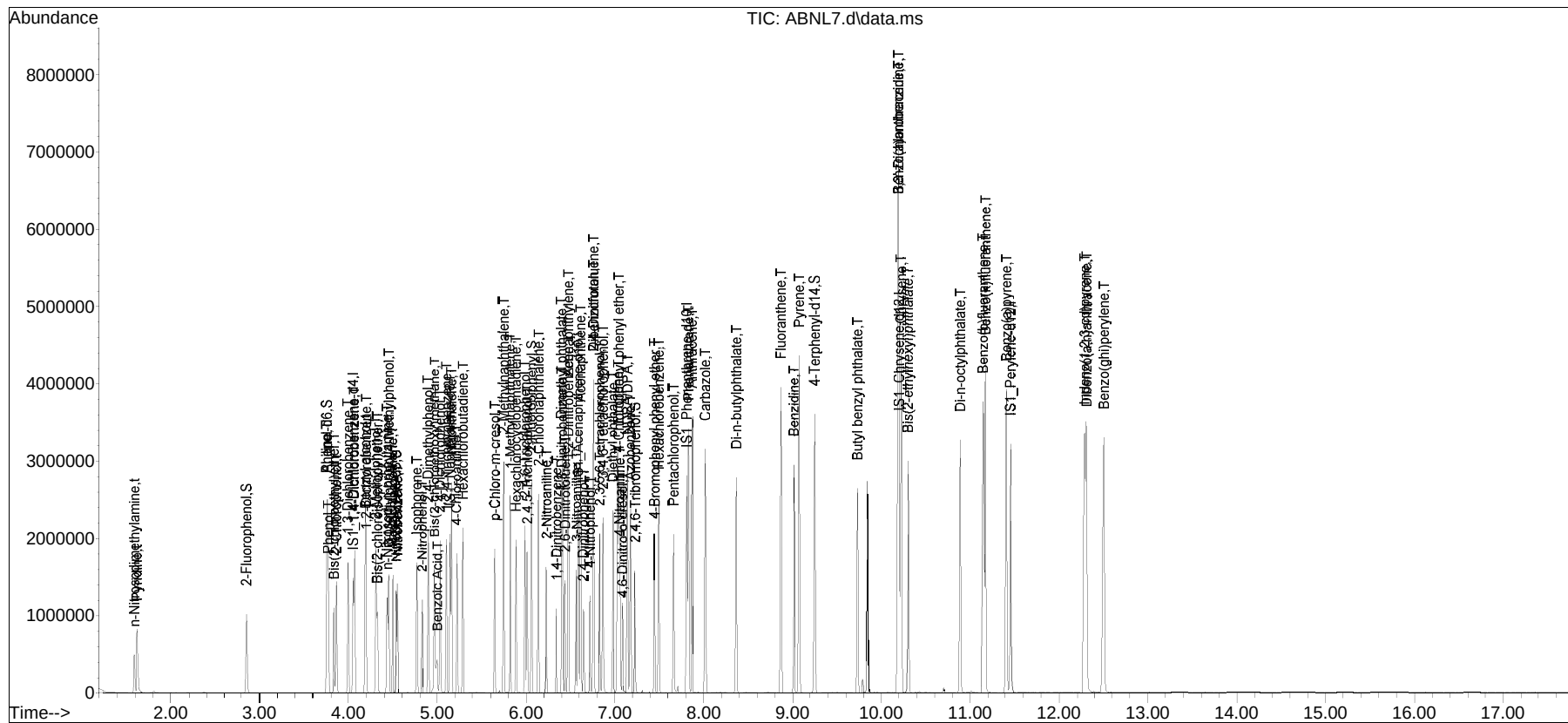
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNL7.d  
Acq On : 9 Jun 2019 3:56 pm  
Operator : gcms5:ek  
Sample : IL4,32,,ABNL50 Lot# 8063  
Misc : wg1246641,,  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 10 11:59:44 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 11:59:26 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•

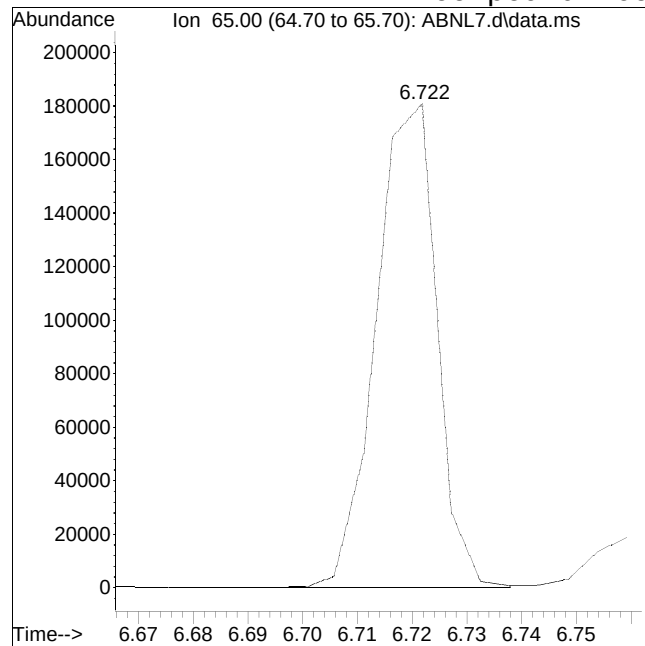




# Manual Integration Report

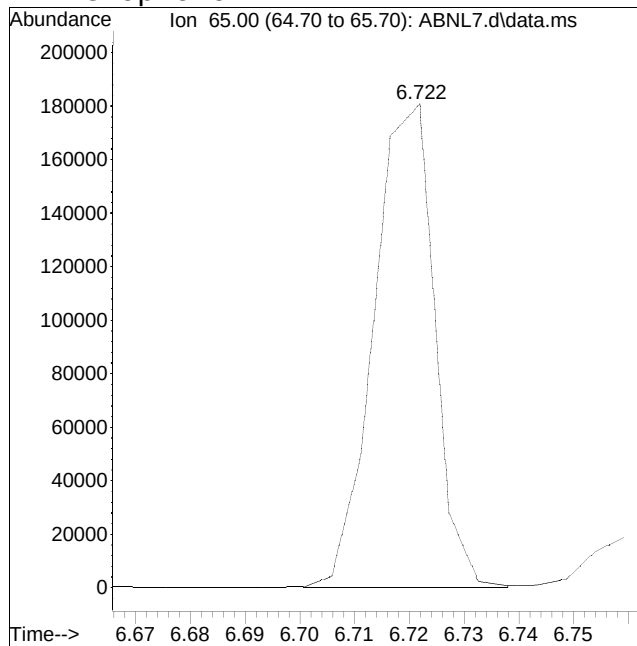
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL7.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 3:56 pm Instrument : GCMS5  
Sample : IL4,32,,ABNL50 Lot# 8063 Quant Date : 6/10/2019 11:59 am

## Compound #69: 4-Nitrophenol



Original Peak Response = 139714

M2 = Peak not found by automatic integration algorithm.

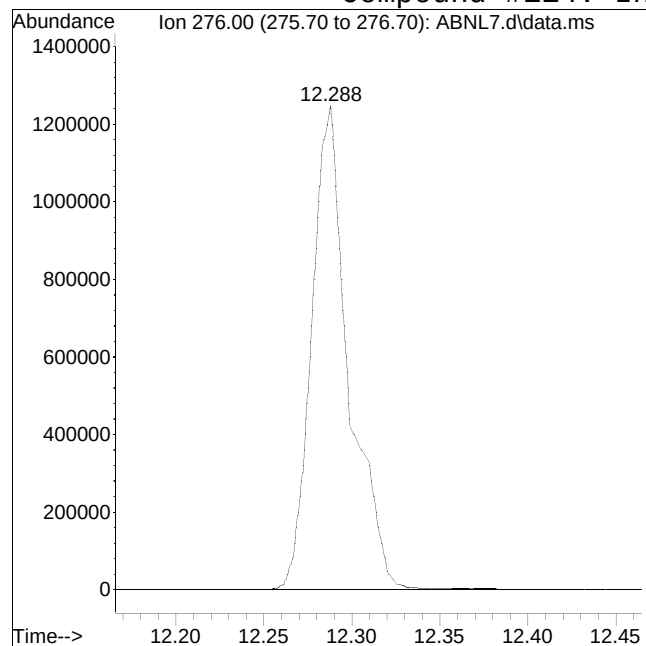


Manual Peak Response = 139512 M2

# Manual Integration Report

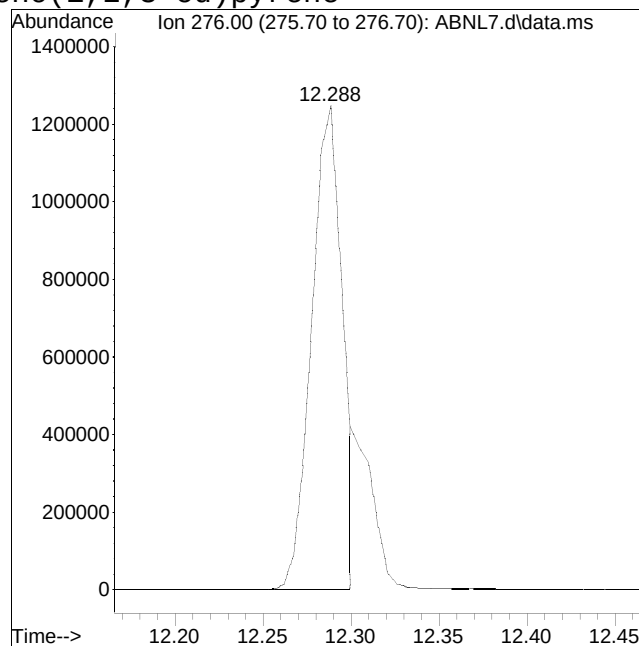
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL7.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 3:56 pm Instrument : GCMS5  
Sample : IL4,32,,ABNL50 Lot# 8063 Quant Date : 6/10/2019 11:59 am

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1834357

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1526749 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL6.d  
 Acq On : 9 Jun 2019 4:22 pm  
 Operator : gcms5:ek  
 Sample : IL5,32,,ABNL20 Lot# 8062  
 Misc : wg1246641,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 12:54:22 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 178267     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = | 90.61% |        |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 661907     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = | 90.61% |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 394490     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = | 89.68% |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 790534     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = | 90.38% |        |          |
| 104) IS1_Chrysene-d12         | 10.200         | 240  | 838393     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery = | 91.54% |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 1017336    | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = | 91.38% |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 102874     | 20.765 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 41.53% |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 122593     | 20.706 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 41.41% |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 112054     | 20.066 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 80.26% |        |          |
| 46) 2-Fluorobiphenyl          | 6.054          | 172  | 286535     | 20.912 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 83.65% |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 52819      | 19.270 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 38.54% |        |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 365116     | 20.461 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 81.84% |        |          |
| Target Compounds              |                |      |            |        |        |          |
|                               |                |      |            |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 63529      | 20.228 | ug/ml# | 96       |
| 3) Pyridine                   | 1.615          | 79   | 108604     | 19.087 | ug/ml  | 100      |
| 5) Aniline                    | 3.757          | 93   | 162382     | 20.999 | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 114259     | 20.417 | ug/ml  | 97       |
| 8) Phenol                     | 3.768          | 94   | 144382     | 20.943 | ug/ml  | 98       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 95075      | 20.822 | ug/ml  | 90       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 136196     | 20.972 | ug/ml  | 98       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 137460     | 21.003 | ug/ml  | 98       |
| 12) 1,2-Dichlorobenzene       | 4.195          | 146  | 131261     | 21.168 | ug/ml  | 99       |
| 13) Benzyl alcohol            | 4.190          | 79   | 87442      | 20.898 | ug/ml  | 99       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 170988     | 21.346 | ug/ml# | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL6.d  
 Acq On : 9 Jun 2019 4:22 pm  
 Operator : gcms5:ek  
 Sample : IL5,32,,ABNL20 Lot# 8062  
 Misc : wg1246641,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 12:54:22 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.307 | 108  | 102688   | 20.791 | ug/ml  | 99       |
| 16) | Hexachloroethane          | 4.489 | 117  | 52248    | 20.456 | ug/ml  | 84       |
| 17) | n-Nitrosodi-n-propylamine | 4.430 | 70   | 77261    | 20.245 | ug/ml# | 90       |
| 18) | 3-Methylphenol/4-Methy... | 4.446 | 108  | 107924   | 20.359 | ug/ml  | 100      |
| 20) | Nitrobenzene              | 4.553 | 77   | 114286   | 20.338 | ug/ml  | 97       |
| 21) | Isophorone                | 4.767 | 82   | 204750   | 20.876 | ug/ml  | 95       |
| 22) | 2-Nitrophenol             | 4.831 | 139  | 58430    | 19.620 | ug/ml# | 94       |
| 23) | 2,4-Dimethylphenol        | 4.895 | 107  | 112577   | 20.495 | ug/ml  | 99       |
| 24) | Bis(2-chloroethoxy)met... | 4.975 | 93   | 133677   | 20.846 | ug/ml  | 99       |
| 25) | 2,4-Dichlorophenol        | 5.039 | 162  | 114038   | 20.267 | ug/ml  | 97       |
| 26) | 1,2,4-Trichlorobenzene    | 5.103 | 180  | 128015   | 20.944 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.162 | 128  | 345084   | 21.291 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 4.975 | 105  | 65198    | 15.724 | ug/ml# | 1        |
| 38) | 4-Chloroaniline           | 5.221 | 65   | 42065    | 21.150 | ug/ml  | 95       |
| 39) | Hexachlorobutadiene       | 5.290 | 225  | 72458    | 20.333 | ug/ml  | 98       |
| 40) | p-Chloro-m-cresol         | 5.643 | 107  | 99242    | 19.785 | ug/ml  | 97       |
| 41) | 2-Methylnaphthalene       | 5.744 | 142  | 248488   | 20.548 | ug/ml  | 96       |
| 42) | 1-Methylnaphthalene       | 5.819 | 115  | 80454    | 20.845 | ug/ml  | 97       |
| 43) | Hexachlorocyclopentadiene | 5.888 | 237  | 90385    | 18.861 | ug/ml  | 98       |
| 44) | 2,4,6-Trichlorophenol     | 5.985 | 196  | 85239    | 19.714 | ug/ml  | 98       |
| 45) | 2,4,5-Trichlorophenol     | 6.006 | 196  | 93469    | 20.156 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.134 | 162  | 245696   | 20.436 | ug/ml  | 99       |
| 48) | 2-Nitroaniline            | 6.230 | 138  | 74152    | 18.777 | ug/ml  | 91       |
| 49) | 1,4-Dinitrobenzene        | 6.337 | 168  | 30392    | 18.410 | ug/ml  | 79       |
| 50) | 1,3-Dinitrobenzene        | 6.401 | 168  | 36187    | 20.395 | ug/ml  | 88       |
| 51) | Dimethyl phthalate        | 6.396 | 163  | 293696   | 21.373 | ug/ml# | 97       |
| 52) | Acenaphthylene            | 6.471 | 152  | 402301   | 21.478 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.433 | 165  | 62027    | 20.426 | ug/ml  | 97       |
| 54) | 1,2-Dinitrobenzene        | 6.471 | 168  | 20747    | 19.913 | ug/ml# | 78       |
| 64) | 3-Nitroaniline            | 6.562 | 138  | 70211    | 20.075 | ug/ml  | 94       |
| 65) | Acenaphthene              | 6.615 | 154  | 230960   | 21.614 | ug/ml  | 95       |
| 66) | 2,4-Dinitrophenol         | 6.647 | 184  | 32439    | 17.123 | ug/ml  | 92       |
| 67) | Dibenzofuran              | 6.754 | 168  | 358401   | 21.894 | ug/ml  | 98       |
| 68) | 2,4-Dinitrotoluene        | 6.754 | 165  | 80682    | 20.462 | ug/ml  | 95       |
| 69) | 4-Nitrophenol             | 6.716 | 65   | 50667    | 20.249 | ug/ml  | 88       |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 84345    | 20.472 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 88240    | 20.586 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 6.973 | 149  | 293930   | 21.104 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.032 | 166  | 287837   | 21.179 | ug/ml  | 97       |
| 74) | 4-Chlorophenyl phenyl ... | 7.048 | 204  | 141603   | 21.025 | ug/ml  | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL6.d  
 Acq On : 9 Jun 2019 4:22 pm  
 Operator : gcms5:ek  
 Sample : IL5,32,,ABNL20 Lot# 8062  
 Misc : wgl246641,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 10 12:54:22 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.053  | 138  | 73962    | 19.876 | ug/ml# | 87       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.085  | 198  | 42311    | 18.089 | ug/ml  | 91       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 244091   | 21.541 | ug/ml  | 96       |
| 78)  | Azobenzene                | 7.171  | 77   | 270203   | 21.682 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.443  | 248  | 91711    | 20.361 | ug/ml  | 94       |
| 81)  | Hexachlorobenzene         | 7.491  | 284  | 107225   | 20.791 | ug/ml  | 94       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 63318    | 18.602 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.822  | 178  | 451454   | 21.319 | ug/ml  | 100      |
| 90)  | Anthracene                | 7.865  | 178  | 463946   | 21.144 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.015  | 167  | 431191   | 20.991 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 500988   | 20.178 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 8.869  | 202  | 564021   | 21.257 | ug/ml# | 94       |
| 94)  | Benzidine                 | 9.014  | 184  | 344258   | 19.203 | ug/ml  | 98       |
| 95)  | Pyrene                    | 9.067  | 202  | 594837   | 20.902 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.729  | 149  | 220847   | 18.957 | ug/ml# | 97       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 529270   | 20.568 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.189 | 252  | 211896   | 19.726 | ug/ml  | 97       |
| 107) | Chrysene                  | 10.221 | 228  | 555757   | 21.191 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 347536   | 19.534 | ug/ml# | 91       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 560293   | 18.909 | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 11.140 | 252  | 625077   | 22.205 | ug/ml# | 95       |
| 111) | Benzo(k)fluoranthene      | 11.167 | 252  | 522260   | 18.460 | ug/ml  | 97       |
| 112) | Benzo(a)pyrene            | 11.407 | 252  | 565488   | 20.400 | ug/ml# | 95       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.283 | 276  | 545800M6 | 19.560 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.299 | 278  | 552896   | 20.307 | ug/ml  | 95       |
| 116) | Benzo(ghi)perylene        | 12.497 | 276  | 581601   | 19.608 | ug/ml# | 93       |

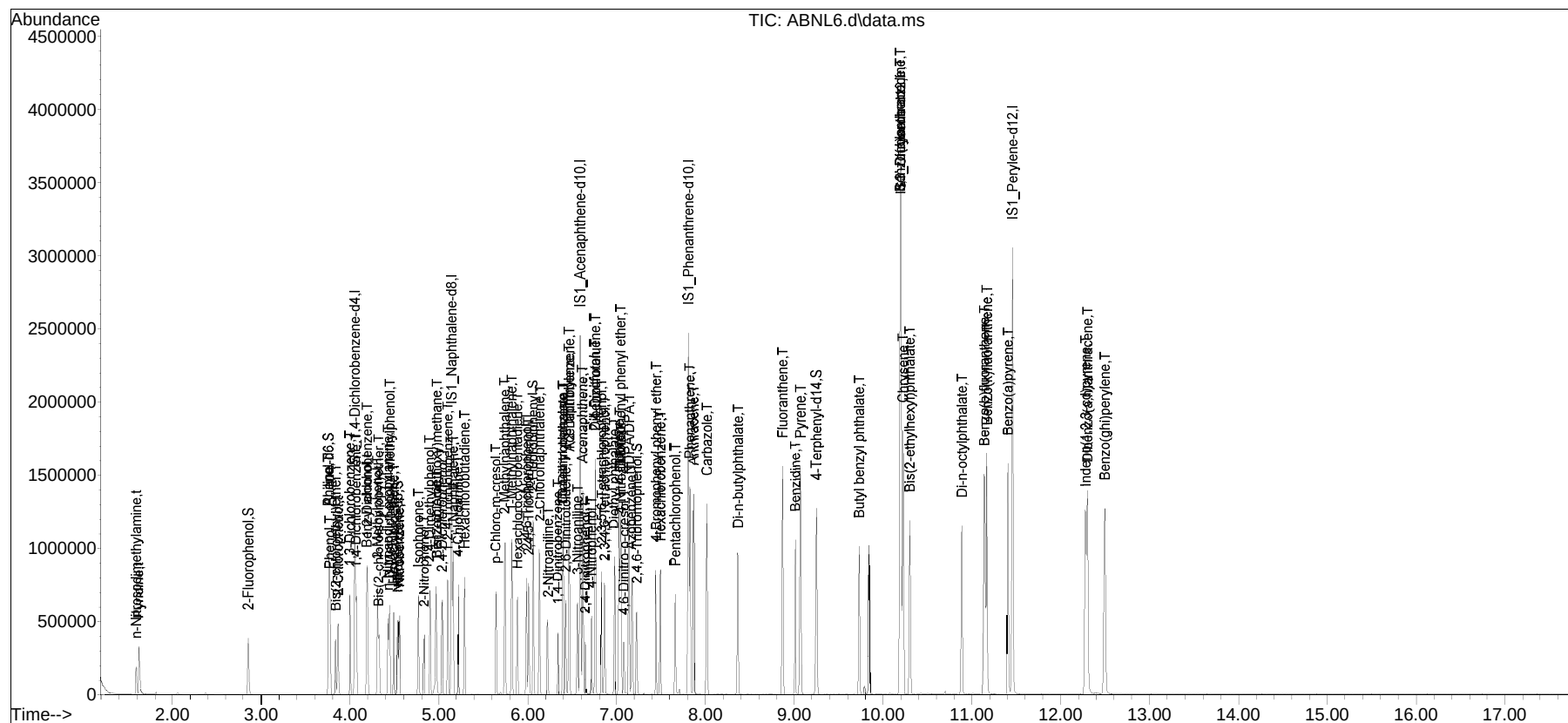
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : I:\8270\GCMS5\190609ical\  
Data File  : ABNL6.d  
Acq On     : 9 Jun 2019    4:22 pm  
Operator   : gcms5:ek  
Sample     : IL5,32,,ABNL20 Lot# 8062  
Misc      : wg1246641,,  
ALS Vial   : 5      Sample Multiplier: 1
```

Quant Time: Jun 10 12:54:22 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 11:59:23 2019  
Response via : Initial Calibration

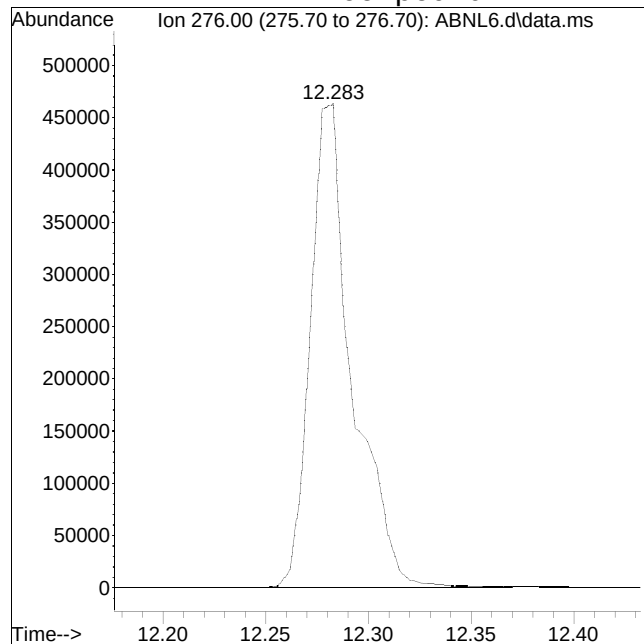
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

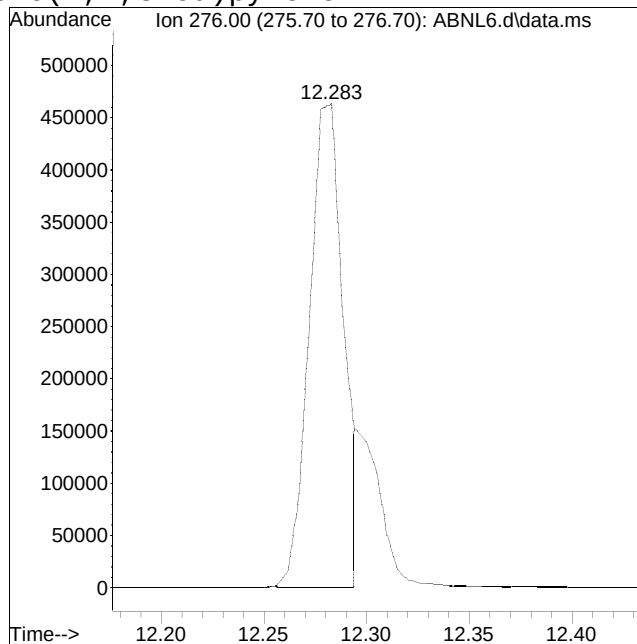
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL6.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 4:22 pm Instrument : GCMS5  
Sample : IL5,32,,ABNL20 Lot# 8062 Quant Date : 6/10/2019 12:00 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 658605

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 545800 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL5.d  
 Acq On : 9 Jun 2019 4:47 pm  
 Operator : gcms5:ek  
 Sample : IL6,32,,ABNL10 Lot# 8061  
 Misc : wg1246641,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 12:48:38 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 175419     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = | 89.16% |        |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 653888     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = | 89.51% |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 398476     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = | 90.58% |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 807423     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = | 92.31% |        |          |
| 104) IS1_Chrysene-d12         | 10.200         | 240  | 844956     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery = | 92.26% |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 990441     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = | 88.97% |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 49274      | 10.107 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 20.21% |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 61565      | 10.567 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 21.13% |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 55958      | 10.183 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 40.73% |        |          |
| 46) 2-Fluorobiphenyl          | 6.054          | 172  | 149855     | 11.071 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 44.28% |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 26277      | 9.491  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 18.98% |        |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 191367     | 10.500 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 42.00% |        |          |
| Target Compounds              |                |      |            |        |        |          |
|                               |                |      |            |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 32844      | 10.627 | ug/ml# | 98       |
| 3) Pyridine                   | 1.620          | 79   | 58733      | 10.490 | ug/ml  | 100      |
| 5) Aniline                    | 3.757          | 93   | 83637      | 10.991 | ug/ml  | 99       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 57511      | 10.443 | ug/ml  | 95       |
| 8) Phenol                     | 3.768          | 94   | 71607      | 10.555 | ug/ml  | 97       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 49788      | 11.081 | ug/ml  | 91       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 70289      | 10.999 | ug/ml  | 97       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 68355      | 10.614 | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.200          | 146  | 68427      | 11.214 | ug/ml  | 99       |
| 13) Benzyl alcohol            | 4.190          | 79   | 42894      | 10.418 | ug/ml  | 98       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 86906      | 11.025 | ug/ml# | 94       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL5.d  
 Acq On : 9 Jun 2019 4:47 pm  
 Operator : gcms5:ek  
 Sample : IL6,32,,ABNL10 Lot# 8061  
 Misc : wg1246641,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 12:48:38 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 15) 2-Methylphenol            | 4.307 | 108  | 50647    | 10.421 | ug/ml  | 100      |
| 16) Hexachloroethane          | 4.489 | 117  | 26700    | 10.623 | ug/ml  | 92       |
| 17) n-Nitrosodi-n-propylamine | 4.430 | 70   | 38674    | 10.298 | ug/ml# | 89       |
| 18) 3-Methylphenol/4-Methy... | 4.446 | 108  | 54472    | 10.442 | ug/ml  | 98       |
| 20) Nitrobenzene              | 4.553 | 77   | 57613    | 10.419 | ug/ml  | 94       |
| 21) Isophorone                | 4.767 | 82   | 103604   | 10.735 | ug/ml  | 96       |
| 22) 2-Nitrophenol             | 4.831 | 139  | 27813    | 9.491  | ug/ml# | 92       |
| 23) 2,4-Dimethylphenol        | 4.895 | 107  | 56002    | 10.361 | ug/ml  | 99       |
| 24) Bis(2-chloroethoxy)met... | 4.975 | 93   | 68921    | 10.922 | ug/ml# | 96       |
| 25) 2,4-Dichlorophenol        | 5.039 | 162  | 55899    | 10.095 | ug/ml  | 97       |
| 26) 1,2,4-Trichlorobenzene    | 5.103 | 180  | 64029    | 10.645 | ug/ml  | 99       |
| 36) Naphthalene               | 5.162 | 128  | 180844   | 11.294 | ug/ml  | 98       |
| 37) Benzoic Acid              | 4.959 | 105  | 25980    | 6.343  | ug/ml# | 1        |
| 38) 4-Chloroaniline           | 5.221 | 65   | 21695    | 11.042 | ug/ml  | 91       |
| 39) Hexachlorobutadiene       | 5.290 | 225  | 38391    | 10.906 | ug/ml  | 97       |
| 40) p-Chloro-m-cresol         | 5.643 | 107  | 50552    | 10.202 | ug/ml  | 99       |
| 41) 2-Methylnaphthalene       | 5.744 | 142  | 128390   | 10.747 | ug/ml  | 97       |
| 42) 1-Methylnaphthalene       | 5.819 | 115  | 40962    | 10.743 | ug/ml  | 98       |
| 43) Hexachlorocyclopentadiene | 5.888 | 237  | 43044    | 9.092  | ug/ml  | 96       |
| 44) 2,4,6-Trichlorophenol     | 5.985 | 196  | 42563    | 9.965  | ug/ml  | 98       |
| 45) 2,4,5-Trichlorophenol     | 6.006 | 196  | 45298    | 9.888  | ug/ml  | 98       |
| 47) 2-Chloronaphthalene       | 6.134 | 162  | 127821   | 10.762 | ug/ml  | 100      |
| 48) 2-Nitroaniline            | 6.230 | 138  | 34956    | 8.960  | ug/ml  | 89       |
| 49) 1,4-Dinitrobenzene        | 6.337 | 168  | 14512    | 8.898  | ug/ml  | 78       |
| 50) 1,3-Dinitrobenzene        | 6.401 | 168  | 18308    | 10.445 | ug/ml  | 90       |
| 51) Dimethyl phthalate        | 6.396 | 163  | 153397   | 11.300 | ug/ml# | 97       |
| 52) Acenaphthylene            | 6.471 | 152  | 207730   | 11.226 | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 6.433 | 165  | 31177    | 10.393 | ug/ml  | 96       |
| 54) 1,2-Dinitrobenzene        | 6.465 | 168  | 11099    | 10.783 | ug/ml  | 81       |
| 64) 3-Nitroaniline            | 6.562 | 138  | 36213    | 10.251 | ug/ml  | 91       |
| 65) Acenaphthene              | 6.615 | 154  | 120010   | 11.118 | ug/ml  | 94       |
| 66) 2,4-Dinitrophenol         | 6.647 | 184  | 14398    | 7.524  | ug/ml  | 96       |
| 67) Dibenzofuran              | 6.754 | 168  | 190024   | 11.492 | ug/ml  | 99       |
| 68) 2,4-Dinitrotoluene        | 6.754 | 165  | 40860    | 10.259 | ug/ml  | 91       |
| 69) 4-Nitrophenol             | 6.717 | 65   | 25635    | 10.143 | ug/ml  | 91       |
| 70) 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 42939    | 10.318 | ug/ml  | 95       |
| 71) 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 45153    | 10.429 | ug/ml  | 98       |
| 72) Diethyl phthalate         | 6.973 | 149  | 156405   | 11.117 | ug/ml  | 97       |
| 73) Fluorene                  | 7.032 | 166  | 151014   | 11.000 | ug/ml  | 97       |
| 74) 4-Chlorophenyl phenyl ... | 7.048 | 204  | 73730    | 10.838 | ug/ml  | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL5.d  
 Acq On : 9 Jun 2019 4:47 pm  
 Operator : gcms5:ek  
 Sample : IL6,32,,ABNL10 Lot# 8061  
 Misc : wgl246641,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 12:48:38 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.053  | 138  | 38008    | 10.112 | ug/ml# | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.080  | 198  | 20015    | 8.471  | ug/ml# | 89       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 129567   | 11.320 | ug/ml  | 98       |
| 78)  | Azobenzene                | 7.171  | 77   | 138659   | 11.015 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.443  | 248  | 48231    | 10.601 | ug/ml  | 95       |
| 81)  | Hexachlorobenzene         | 7.491  | 284  | 56335    | 10.814 | ug/ml  | 92       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 29765    | 8.657  | ug/ml  | 98       |
| 89)  | Phenanthrene              | 7.822  | 178  | 242896   | 11.230 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.865  | 178  | 242935   | 10.840 | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.015  | 167  | 227339   | 10.836 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 249218   | 9.828  | ug/ml  | 99       |
| 93)  | Fluoranthene              | 8.869  | 202  | 286416   | 10.569 | ug/ml  | 96       |
| 94)  | Benzidine                 | 9.014  | 184  | 168156   | 9.184  | ug/ml  | 98       |
| 95)  | Pyrene                    | 9.067  | 202  | 314754   | 10.829 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 9.730  | 149  | 102891   | 8.647  | ug/ml# | 96       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 270353   | 10.425 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 10.189 | 252  | 102975   | 9.512  | ug/ml  | 98       |
| 107) | Chrysene                  | 10.221 | 228  | 291189   | 11.017 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 173965   | 9.702  | ug/ml# | 90       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 252613   | 8.459  | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 11.140 | 252  | 283919   | 10.007 | ug/ml  | 97       |
| 111) | Benzo(k)fluoranthene      | 11.167 | 252  | 300445   | 10.537 | ug/ml# | 95       |
| 112) | Benzo(a)pyrene            | 11.407 | 252  | 276917   | 9.912  | ug/ml# | 95       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.283 | 276  | 252471M6 | 9.293  | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.305 | 278  | 276227   | 10.421 | ug/ml  | 96       |
| 116) | Benzo(ghi)perylene        | 12.497 | 276  | 294490   | 10.198 | ug/ml  | 94       |

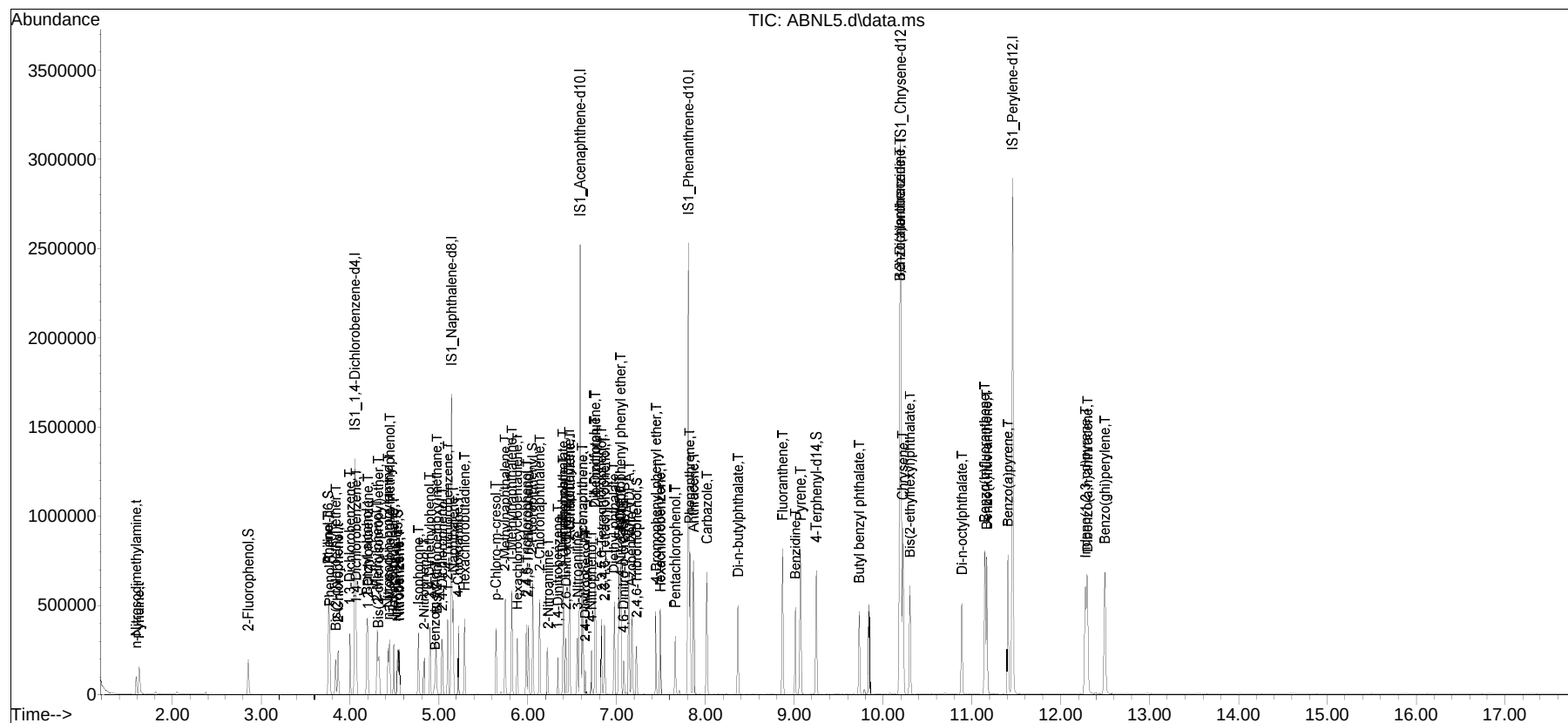
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL5.d  
 Acq On : 9 Jun 2019 4:47 pm  
 Operator : gcms5:ek  
 Sample : IL6,32,,ABNL10 Lot# 8061  
 Misc : wg1246641,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 10 12:48:38 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

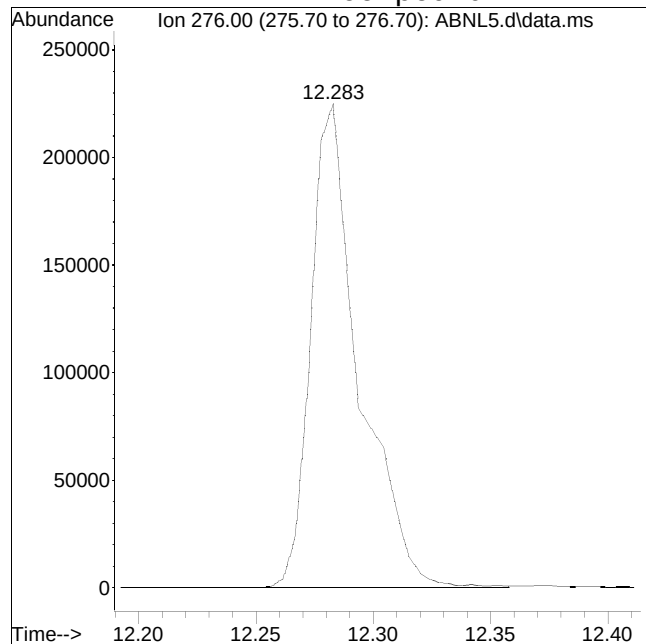
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

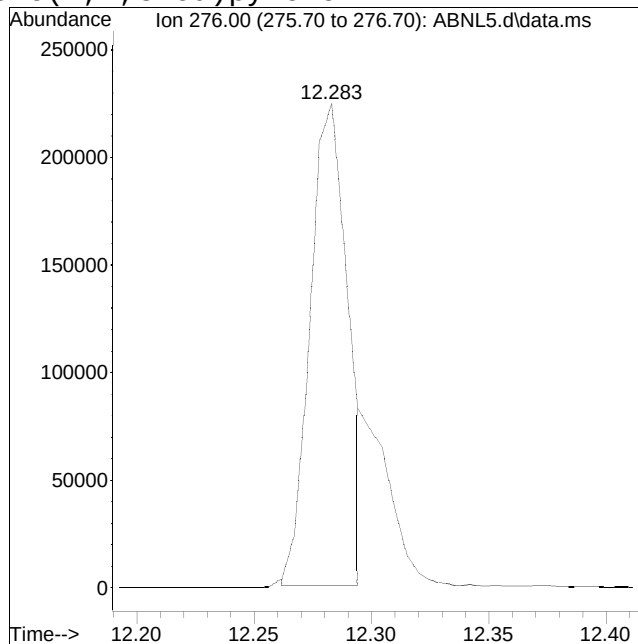
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL5.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 4:47 pm Instrument : GCMS5  
Sample : IL6,32,,ABNL10 Lot# 8061 Quant Date : 6/10/2019 12:00 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 322141

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 252471 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL4.d  
 Acq On : 9 Jun 2019 5:13 pm  
 Operator : gcms5:ek  
 Sample : IL7,32,,ABNL5 Lot# 8060  
 Misc : wgl246641,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 13:08:34 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:07:51 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 183987     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = | 93.51%  |        |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 685648     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = | 93.86%  |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 408901     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = | 92.95%  |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 819441     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = | 93.68%  |        |          |
| 104) IS1_Chrysene-d12         | 10.200         | 240  | 845273     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery = | 92.29%  |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 1021502    | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = | 91.76%  |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 26112      | 5.133   | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 10.27%# |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 32317      | 5.248   | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 10.50%# |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 27673      | 5.014   | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 20.06%# |        |          |
| 46) 2-Fluorobiphenyl          | 6.054          | 172  | 79384      | 5.370   | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 21.48%# |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 12197      | 4.527   | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 9.05%#  |        |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 95358      | 5.232   | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 20.93%# |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 15837      | 4.825   | ug/ml# | 91       |
| 3) Pyridine                   | 1.625          | 79   | 31469      | 5.399   | ug/ml  | 100      |
| 5) Aniline                    | 3.757          | 93   | 44433      | 5.377   | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 29776      | 5.205   | ug/ml  | 95       |
| 8) Phenol                     | 3.768          | 94   | 37971      | 5.264   | ug/ml  | 96       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 25577      | 5.236   | ug/ml  | 91       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 35917      | 5.124   | ug/ml  | 99       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 36642      | 5.214   | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.195          | 146  | 35345      | 5.388   | ug/ml  | 99       |
| 13) Benzyl alcohol            | 4.190          | 79   | 21763      | 5.179   | ug/ml  | 99       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 44859      | 5.255   | ug/ml# | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL4.d  
 Acq On : 9 Jun 2019 5:13 pm  
 Operator : gcms5:ek  
 Sample : IL7,32,,ABNL5 Lot# 8060  
 Misc : wg1246641,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 13:08:34 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:07:51 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 15) 2-Methylphenol            | 4.307 | 108  | 25590    | 5.188 | ug/ml  | 99       |
| 16) Hexachloroethane          | 4.489 | 117  | 13317    | 5.018 | ug/ml  | 85       |
| 17) n-Nitrosodi-n-propylamine | 4.430 | 70   | 18712    | 4.934 | ug/ml# | 88       |
| 18) 3-Methylphenol/4-Methy... | 4.446 | 108  | 27860    | 5.213 | ug/ml  | 98       |
| 20) Nitrobenzene              | 4.553 | 77   | 29429    | 5.199 | ug/ml  | 94       |
| 21) Isophorone                | 4.767 | 82   | 49913    | 5.022 | ug/ml  | 96       |
| 22) 2-Nitrophenol             | 4.831 | 139  | 13207    | 4.447 | ug/ml# | 95       |
| 23) 2,4-Dimethylphenol        | 4.895 | 107  | 30092    | 5.453 | ug/ml  | 93       |
| 24) Bis(2-chloroethoxy)met... | 4.975 | 93   | 36482    | 5.360 | ug/ml# | 96       |
| 25) 2,4-Dichlorophenol        | 5.039 | 162  | 29313    | 5.345 | ug/ml  | 95       |
| 26) 1,2,4-Trichlorobenzene    | 5.103 | 180  | 33558    | 5.125 | ug/ml  | 99       |
| 36) Naphthalene               | 5.162 | 128  | 94238    | 5.416 | ug/ml  | 98       |
| 37) Benzoic Acid              | 4.948 | 105  | 9736     | 5.732 | ug/ml# | 1        |
| 38) 4-Chloroaniline           | 5.221 | 65   | 10629    | 4.964 | ug/ml  | 97       |
| 39) Hexachlorobutadiene       | 5.290 | 225  | 19304    | 5.114 | ug/ml  | 97       |
| 40) p-Chloro-m-cresol         | 5.643 | 107  | 24851    | 5.153 | ug/ml  | 97       |
| 41) 2-Methylnaphthalene       | 5.739 | 142  | 69541    | 5.488 | ug/ml  | 99       |
| 42) 1-Methylnaphthalene       | 5.819 | 115  | 22835    | 5.464 | ug/ml  | 90       |
| 43) Hexachlorocyclopentadiene | 5.888 | 237  | 20746    | 4.374 | ug/ml  | 98       |
| 44) 2,4,6-Trichlorophenol     | 5.985 | 196  | 21077    | 4.935 | ug/ml  | 96       |
| 45) 2,4,5-Trichlorophenol     | 6.006 | 196  | 22045    | 4.870 | ug/ml  | 98       |
| 47) 2-Chloronaphthalene       | 6.134 | 162  | 68998    | 5.387 | ug/ml  | 97       |
| 48) 2-Nitroaniline            | 6.225 | 138  | 16002    | 4.188 | ug/ml# | 86       |
| 49) 1,4-Dinitrobenzene        | 6.337 | 168  | 6192     | 3.870 | ug/ml# | 72       |
| 50) 1,3-Dinitrobenzene        | 6.401 | 168  | 8288     | 4.629 | ug/ml  | 80       |
| 51) Dimethyl phthalate        | 6.396 | 163  | 77038    | 5.326 | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.471 | 152  | 106058   | 5.374 | ug/ml  | 98       |
| 53) 2,6-Dinitrotoluene        | 6.433 | 165  | 15339    | 5.131 | ug/ml  | 94       |
| 54) 1,2-Dinitrobenzene        | 6.465 | 168  | 5262     | 4.884 | ug/ml# | 60       |
| 64) 3-Nitroaniline            | 6.562 | 138  | 17268    | 5.005 | ug/ml  | 92       |
| 65) Acenaphthene              | 6.615 | 154  | 63515    | 5.320 | ug/ml  | 95       |
| 66) 2,4-Dinitrophenol         | 6.647 | 184  | 5913     | 5.672 | ug/ml  | 96       |
| 67) Dibenzofuran              | 6.754 | 168  | 99774    | 5.535 | ug/ml  | 98       |
| 68) 2,4-Dinitrotoluene        | 6.754 | 165  | 19319    | 4.810 | ug/ml# | 86       |
| 69) 4-Nitrophenol             | 6.711 | 65   | 12034    | 4.884 | ug/ml  | 89       |
| 70) 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 19882    | 4.824 | ug/ml  | 97       |
| 71) 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 22409    | 5.081 | ug/ml  | 95       |
| 72) Diethyl phthalate         | 6.973 | 149  | 77099    | 5.243 | ug/ml  | 97       |
| 73) Fluorene                  | 7.032 | 166  | 76125    | 5.319 | ug/ml  | 96       |
| 74) 4-Chlorophenyl phenyl ... | 7.048 | 204  | 38004    | 5.209 | ug/ml  | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL4.d  
 Acq On : 9 Jun 2019 5:13 pm  
 Operator : gcms5:ek  
 Sample : IL7,32,,ABNL5 Lot# 8060  
 Misc : wgl246641,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 13:08:34 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:07:51 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.053  | 138  | 17826    | 4.799 | ug/ml# | 83       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.080  | 198  | 8345     | 3.686 | ug/ml# | 82       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 66198    | 5.422 | ug/ml  | 99       |
| 78)  | Azobenzene                | 7.171  | 77   | 70975    | 5.428 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.443  | 248  | 23499    | 4.990 | ug/ml  | 93       |
| 81)  | Hexachlorobenzene         | 7.491  | 284  | 28462    | 5.093 | ug/ml# | 91       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 13237    | 4.969 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.822  | 178  | 124796   | 5.348 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.865  | 178  | 121115   | 5.282 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.015  | 167  | 114394   | 5.422 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 114660   | 4.979 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 8.869  | 202  | 143235   | 5.265 | ug/ml# | 96       |
| 94)  | Benzydine                 | 9.014  | 184  | 71099    | 4.265 | ug/ml# | 97       |
| 95)  | Pyrene                    | 9.067  | 202  | 157705   | 5.369 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.729  | 149  | 42430    | 3.898 | ug/ml# | 96       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 135622   | 5.160 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 10.189 | 252  | 46889    | 4.738 | ug/ml  | 98       |
| 107) | Chrysene                  | 10.221 | 228  | 144311   | 5.148 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 70203    | 4.901 | ug/ml# | 90       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 94181    | 3.503 | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 11.140 | 252  | 141797   | 4.915 | ug/ml# | 96       |
| 111) | Benzo(k)fluoranthene      | 11.161 | 252  | 144338   | 5.310 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 11.407 | 252  | 133874   | 4.871 | ug/ml  | 97       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.278 | 276  | 131359M6 | 4.885 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.299 | 278  | 136875   | 5.177 | ug/ml  | 95       |
| 116) | Benzo(ghi)perylene        | 12.491 | 276  | 148203   | 5.152 | ug/ml  | 93       |

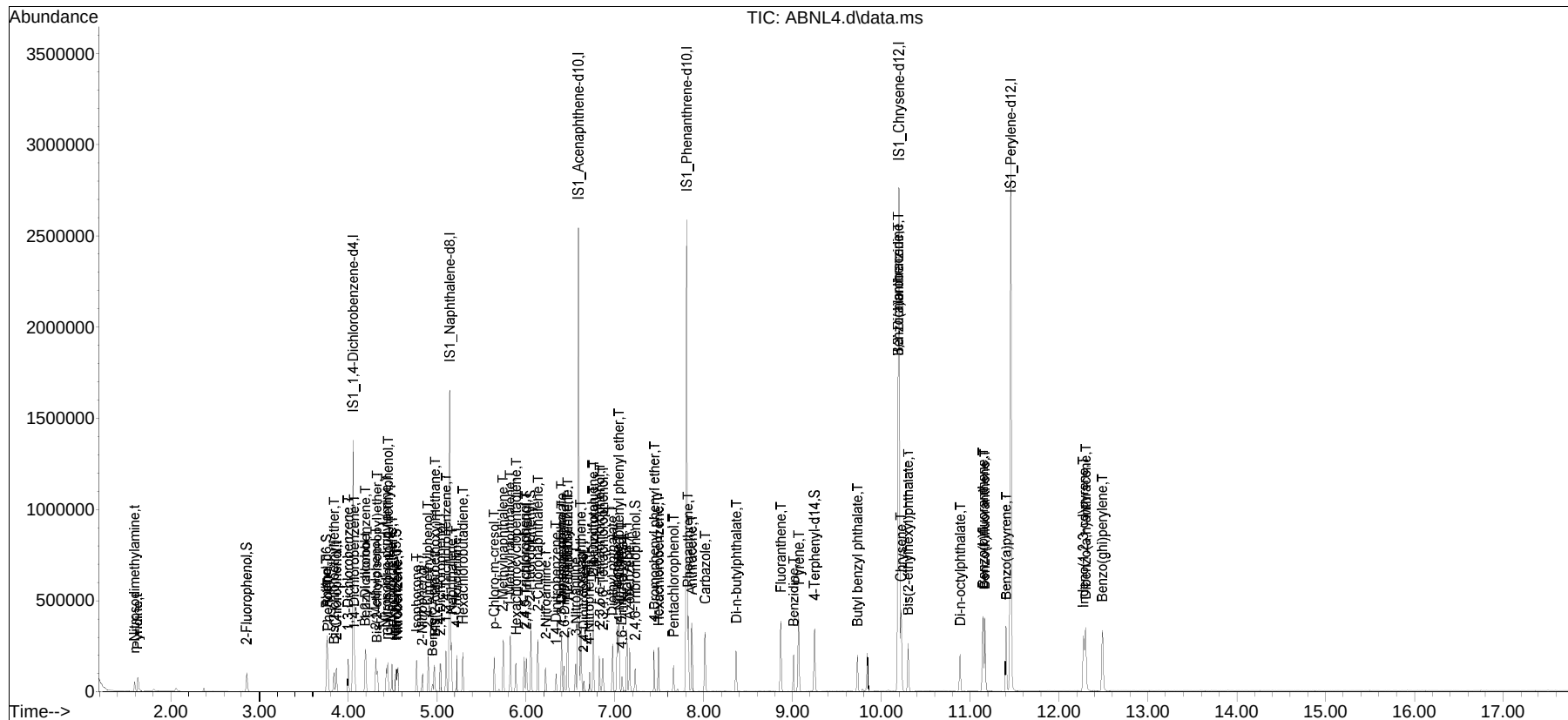
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNL4.d  
Acq On : 9 Jun 2019 5:13 pm  
Operator : gcms5:ek  
Sample : IL7,32,,ABNL5 Lot# 8060  
Misc : wg1246641,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 10 13:08:34 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 13:07:51 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•

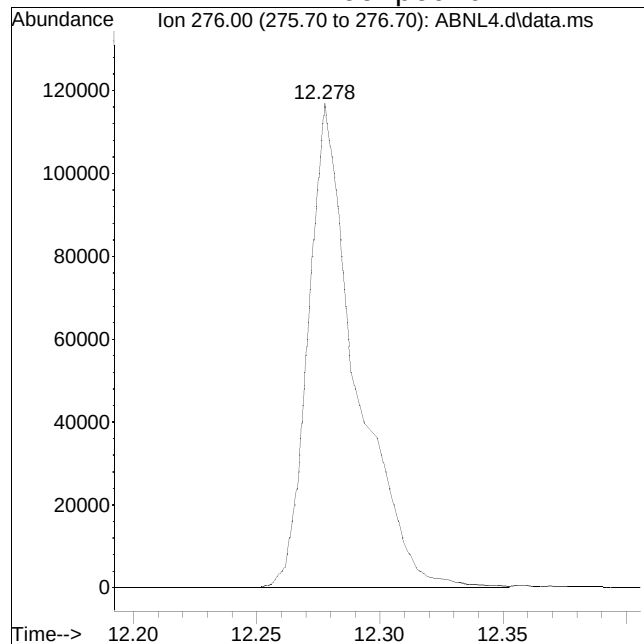




# Manual Integration Report

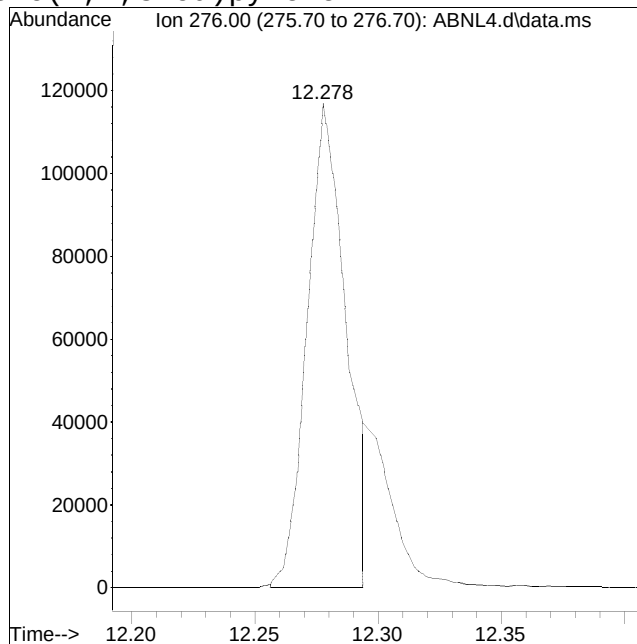
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL4.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 5:13 pm Instrument : GCMS5  
Sample : IL7,32,,ABNL5 Lot# 8060 Quant Date : 6/10/2019 1:08 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 158426

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 131359 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL3.d  
 Acq On : 9 Jun 2019 5:39 pm  
 Operator : gcms5:ek  
 Sample : IL8,32,,ABNL3 Lot# 8059  
 Misc : wg1246641,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 10 13:07:59 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:07:51 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 157146             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = 79.87%  |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 585161             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = 80.11%  |        |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 346719             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = 78.82%  |        |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 702578             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = 80.32%  |        |        |          |
| 104) IS1_Chrysene-d12         | 10.194         | 240  | 750054             | 40.000 | ug/ml  | -0.01    |
| Standard Area 1 = 915891      |                |      | Recovery = 81.89%  |        |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 909409             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = 81.69%  |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 14202              | 3.268  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 6.54%#  |        |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 17122              | 3.255  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 6.51%#  |        |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 13887              | 2.946  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 11.78%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.054          | 172  | 41261              | 3.271  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 13.08%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 6312               | 2.763  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 5.53%#  |        |        |          |
| 96) 4-Terphenyl-d14           | 9.243          | 244  | 50833              | 3.253  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 13.01%# |        |        |          |
| Target Compounds              |                |      |                    |        |        |          |
|                               |                |      |                    |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 9209               | 3.285  | ug/ml# | 93       |
| 3) Pyridine                   | 1.625          | 79   | 15619              | 3.138  | ug/ml  | 96       |
| 5) Aniline                    | 3.757          | 93   | 23183              | 3.284  | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 15587              | 3.190  | ug/ml# | 90       |
| 8) Phenol                     | 3.768          | 94   | 19840              | 3.220  | ug/ml  | 96       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 13816              | 3.312  | ug/ml  | 92       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 19691              | 3.289  | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 19771              | 3.294  | ug/ml# | 91       |
| 12) 1,2-Dichlorobenzene       | 4.195          | 146  | 20094              | 3.586  | ug/ml  | 98       |
| 13) Benzyl alcohol            | 4.190          | 79   | 10582              | 2.948  | ug/ml  | 93       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 24070              | 3.301  | ug/ml  | 93       |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL3.d  
 Acq On : 9 Jun 2019 5:39 pm  
 Operator : gcms5:ek  
 Sample : IL8,32,,ABNL3 Lot# 8059  
 Misc : wg1246641,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 10 13:07:59 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:07:51 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.307 | 108  | 13593    | 3.226 | ug/ml  | 94       |
| 16) | Hexachloroethane          | 4.489 | 117  | 7463     | 3.293 | ug/ml  | 91       |
| 17) | n-Nitrosodi-n-propylamine | 4.430 | 70   | 9741     | 3.007 | ug/ml# | 91       |
| 18) | 3-Methylphenol/4-Methy... | 4.446 | 108  | 15064    | 3.300 | ug/ml  | 94       |
| 20) | Nitrobenzene              | 4.553 | 77   | 14837    | 3.069 | ug/ml  | 97       |
| 21) | Isophorone                | 4.767 | 82   | 26841    | 3.162 | ug/ml# | 93       |
| 22) | 2-Nitrophenol             | 4.831 | 139  | 6688     | 2.637 | ug/ml# | 92       |
| 23) | 2,4-Dimethylphenol        | 4.895 | 107  | 14311    | 3.036 | ug/ml  | 98       |
| 24) | Bis(2-chloroethoxy)met... | 4.975 | 93   | 19450    | 3.346 | ug/ml# | 94       |
| 25) | 2,4-Dichlorophenol        | 5.039 | 162  | 14040    | 2.997 | ug/ml  | 98       |
| 26) | 1,2,4-Trichlorobenzene    | 5.103 | 180  | 18090    | 3.234 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.162 | 128  | 51730    | 3.484 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 4.943 | 105  | 3205     | 4.457 | ug/ml# | 1        |
| 38) | 4-Chloroaniline           | 5.221 | 65   | 5744     | 3.143 | ug/ml  | 97       |
| 39) | Hexachlorobutadiene       | 5.290 | 225  | 10328    | 3.206 | ug/ml  | 96       |
| 40) | p-Chloro-m-cresol         | 5.643 | 107  | 12283    | 2.985 | ug/ml  | 96       |
| 41) | 2-Methylnaphthalene       | 5.739 | 142  | 36501    | 3.375 | ug/ml  | 98       |
| 42) | 1-Methylnaphthalene       | 5.819 | 115  | 11741    | 3.292 | ug/ml  | 94       |
| 43) | Hexachlorocyclopentadiene | 5.889 | 237  | 10544    | 2.605 | ug/ml# | 98       |
| 44) | 2,4,6-Trichlorophenol     | 5.985 | 196  | 10474    | 2.873 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.006 | 196  | 11953    | 3.094 | ug/ml  | 92       |
| 47) | 2-Chloronaphthalene       | 6.134 | 162  | 36312    | 3.322 | ug/ml  | 99       |
| 48) | 2-Nitroaniline            | 6.225 | 138  | 7599     | 2.331 | ug/ml  | 92       |
| 49) | 1,4-Dinitrobenzene        | 6.337 | 168  | 2685     | 1.966 | ug/ml# | 53       |
| 50) | 1,3-Dinitrobenzene        | 6.401 | 168  | 3950     | 2.585 | ug/ml  | 78       |
| 51) | Dimethyl phthalate        | 6.396 | 163  | 41222    | 3.339 | ug/ml# | 97       |
| 52) | Acenaphthylene            | 6.471 | 152  | 56015    | 3.326 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.433 | 165  | 7251     | 2.842 | ug/ml  | 93       |
| 54) | 1,2-Dinitrobenzene        | 6.466 | 168  | 2842     | 3.091 | ug/ml  | 85       |
| 64) | 3-Nitroaniline            | 6.562 | 138  | 8187     | 2.798 | ug/ml  | 86       |
| 65) | Acenaphthene              | 6.615 | 154  | 35266    | 3.484 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.647 | 184  | 2112     | 4.109 | ug/ml# | 83       |
| 67) | Dibenzofuran              | 6.754 | 168  | 53817    | 3.521 | ug/ml  | 99       |
| 68) | 2,4-Dinitrotoluene        | 6.754 | 165  | 9357     | 2.748 | ug/ml  | 86       |
| 69) | 4-Nitrophenol             | 6.711 | 65   | 6052     | 2.897 | ug/ml  | 88       |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 9167     | 2.623 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 11222    | 3.001 | ug/ml  | 96       |
| 72) | Diethyl phthalate         | 6.973 | 149  | 41081    | 3.295 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.032 | 166  | 39796    | 3.279 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.048 | 204  | 20174    | 3.261 | ug/ml  | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL3.d  
 Acq On : 9 Jun 2019 5:39 pm  
 Operator : gcms5:ek  
 Sample : IL8,32,,ABNL3 Lot# 8059  
 Misc : wg1246641,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 10 13:07:59 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:07:51 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.048  | 138  | 8986     | 2.853 | ug/ml  | 86       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.085  | 198  | 3434     | 1.789 | ug/ml# | 77       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 32864    | 3.175 | ug/ml  | 97       |
| 78)  | Azobenzene                | 7.171  | 77   | 36234    | 3.268 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.443  | 248  | 12571    | 3.148 | ug/ml  | 92       |
| 81)  | Hexachlorobenzene         | 7.486  | 284  | 15040    | 3.174 | ug/ml  | 94       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 5885     | 3.261 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 7.822  | 178  | 66626    | 3.330 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.865  | 178  | 63279    | 3.219 | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.015  | 167  | 59248    | 3.275 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 53252    | 2.697 | ug/ml# | 99       |
| 93)  | Fluoranthene              | 8.870  | 202  | 72693    | 3.116 | ug/ml  | 96       |
| 94)  | Benzidine                 | 9.014  | 184  | 30323    | 2.122 | ug/ml# | 96       |
| 95)  | Pyrene                    | 9.067  | 202  | 81397    | 3.232 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 9.730  | 149  | 18741    | 2.008 | ug/ml# | 95       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 74390    | 3.190 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.189 | 252  | 21832    | 2.486 | ug/ml  | 96       |
| 107) | Chrysene                  | 10.221 | 228  | 80633    | 3.241 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 30074    | 2.800 | ug/ml# | 91       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 35426    | 1.485 | ug/ml# | 95       |
| 110) | Benzo(b)fluoranthene      | 11.140 | 252  | 78491    | 3.066 | ug/ml# | 96       |
| 111) | Benzo(k)fluoranthene      | 11.161 | 252  | 78893    | 3.271 | ug/ml# | 94       |
| 112) | Benzo(a)pyrene            | 11.402 | 252  | 70591    | 2.895 | ug/ml# | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.273 | 276  | 64749M6  | 2.705 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.294 | 278  | 74682    | 3.173 | ug/ml  | 96       |
| 116) | Benzo(ghi)perylene        | 12.492 | 276  | 81588    | 3.186 | ug/ml  | 93       |

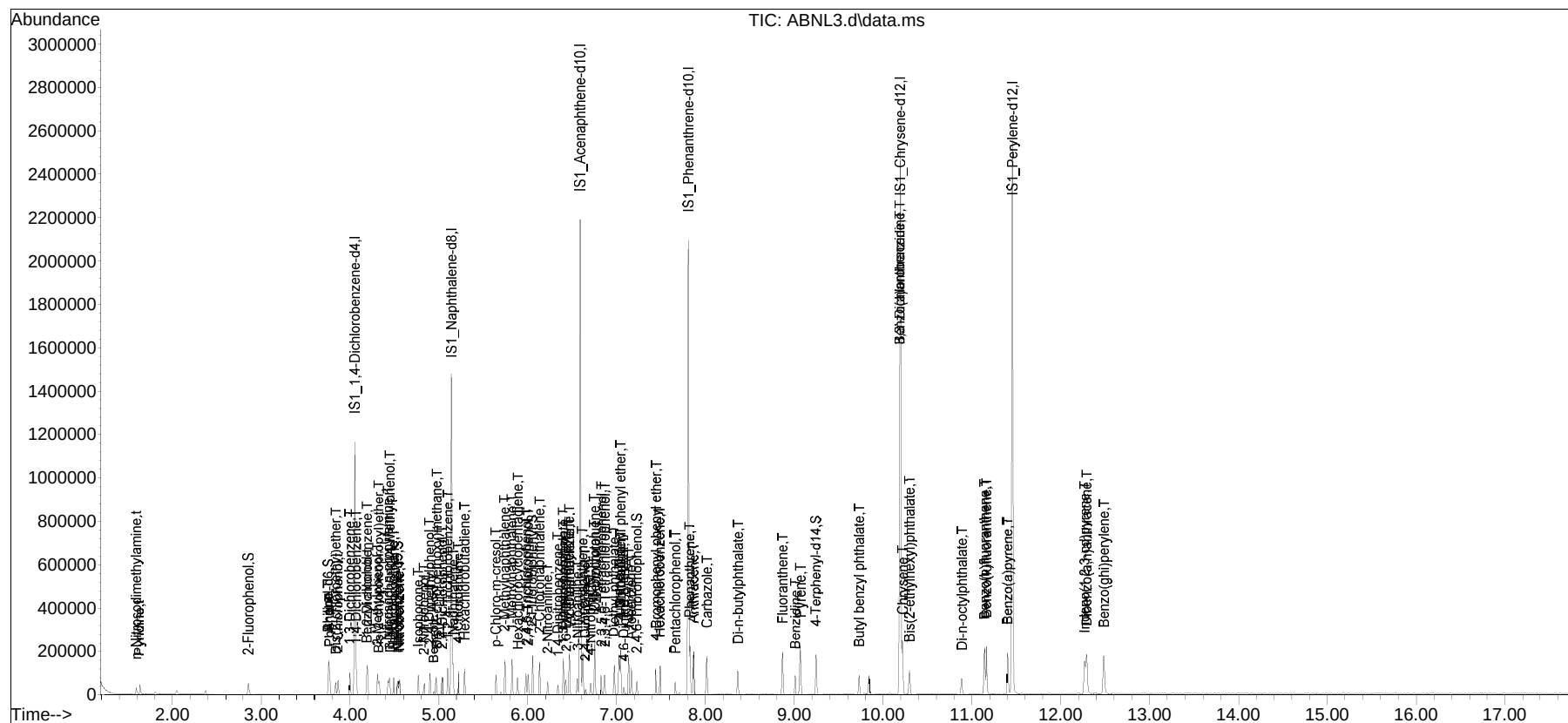
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNL3.d  
Acq On : 9 Jun 2019 5:39 pm  
Operator : gcms5:ek  
Sample : IL8,32,,ABNL3 Lot# 8059  
Misc : wg1246641,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 10 13:07:59 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 13:07:51 2019  
Response via : Initial Calibration

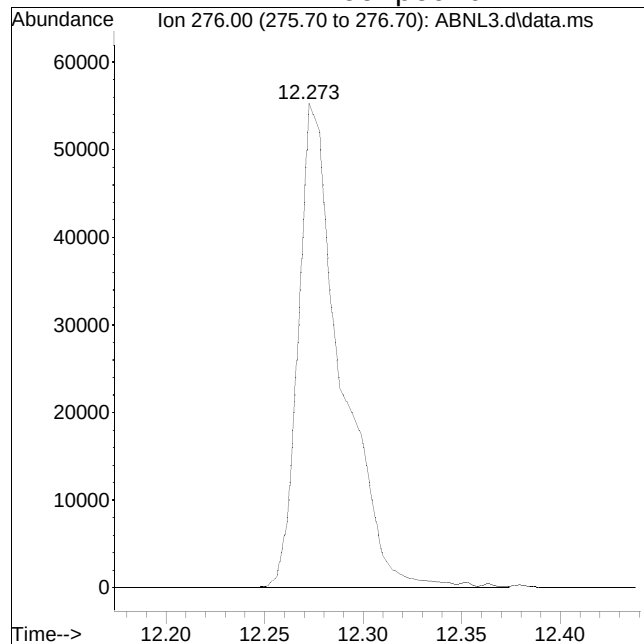
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

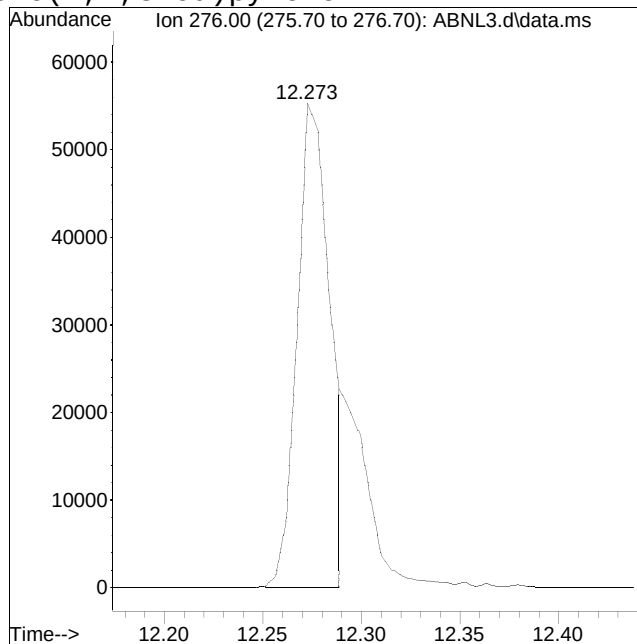
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL3.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 5:39 pm Instrument : GCMS5  
Sample : IL8,32,,ABNL3 Lot# 8059 Quant Date : 6/10/2019 1:07 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 84051

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 64749 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL2.d  
 Acq On : 9 Jun 2019 6:05 pm  
 Operator : gcms5:ek  
 Sample : IL9,32,,ABNL2 Lot# 8058  
 Misc : wgl246641,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 10 13:06:52 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:06:44 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response          | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|-------------------|--------|--------|----------|
| -----                         |                |      |                   |        |        |          |
| Internal Standards            |                |      |                   |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 157535            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = 80.07% |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 574282            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = 78.62% |        |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 334423            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = 76.02% |        |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 675605            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = 77.24% |        |        |          |
| 104) IS1_Chrysene-d12         | 10.194         | 240  | 701369            | 40.000 | ug/ml  | -0.01    |
| Standard Area 1 = 915891      |                |      | Recovery = 76.58% |        |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 852092            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = 76.54% |        |        |          |
| System Monitoring Compounds   |                |      |                   |        |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 7758              | 1.781  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 3.56%# |        |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 10129             | 1.921  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 3.84%# |        |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 8525              | 1.804  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 7.22%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.054          | 172  | 25973             | 2.098  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 8.39%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 3688              | 1.674  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 3.35%# |        |        |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 30091             | 2.003  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 8.01%# |        |        |          |
| Target Compounds              |                |      |                   |        |        |          |
|                               |                |      |                   |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.588          | 74   | 5639              | 2.006  | ug/ml# | 91       |
| 3) Pyridine                   | 1.631          | 79   | 9128              | 1.829  | ug/ml  | 96       |
| 5) Aniline                    | 3.757          | 93   | 14919             | 2.108  | ug/ml  | 97       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 9242              | 1.887  | ug/ml  | 97       |
| 8) Phenol                     | 3.768          | 94   | 11616             | 1.881  | ug/ml  | 92       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 8671              | 2.073  | ug/ml# | 85       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 12289             | 2.048  | ug/ml  | 96       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 12772             | 2.122  | ug/ml# | 84       |
| 12) 1,2-Dichlorobenzene       | 4.195          | 146  | 11544             | 2.055  | ug/ml# | 92       |
| 13) Benzyl alcohol            | 4.190          | 79   | 7209              | 2.003  | ug/ml  | 91       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 15350             | 2.100  | ug/ml# | 90       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL2.d  
 Acq On : 9 Jun 2019 6:05 pm  
 Operator : gcms5:ek  
 Sample : IL9,32,,ABNL2 Lot# 8058  
 Misc : wg1246641,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 10 13:06:52 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:06:44 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.307 | 108  | 8106     | 1.919 | ug/ml  | 95       |
| 16) | Hexachloroethane          | 4.489 | 117  | 4537     | 1.997 | ug/ml  | 87       |
| 17) | n-Nitrosodi-n-propylamine | 4.430 | 70   | 6028     | 1.857 | ug/ml# | 84       |
| 18) | 3-Methylphenol/4-Methy... | 4.446 | 108  | 8673     | 1.895 | ug/ml  | 97       |
| 20) | Nitrobenzene              | 4.553 | 77   | 8808     | 1.817 | ug/ml  | 93       |
| 21) | Isophorone                | 4.767 | 82   | 15879    | 1.866 | ug/ml  | 95       |
| 22) | 2-Nitrophenol             | 4.831 | 139  | 3521     | 1.385 | ug/ml# | 84       |
| 23) | 2,4-Dimethylphenol        | 4.895 | 107  | 8691     | 1.839 | ug/ml  | 96       |
| 24) | Bis(2-chloroethoxy)met... | 4.975 | 93   | 12032    | 2.065 | ug/ml# | 93       |
| 25) | 2,4-Dichlorophenol        | 5.039 | 162  | 8534     | 1.817 | ug/ml  | 97       |
| 26) | 1,2,4-Trichlorobenzene    | 5.103 | 180  | 11556    | 2.061 | ug/ml  | 96       |
| 36) | Naphthalene               | 5.162 | 128  | 32311    | 2.217 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 4.943 | 105  | 1151     | 3.949 | ug/ml# | 1        |
| 38) | 4-Chloroaniline           | 5.221 | 65   | 3944     | 2.199 | ug/ml# | 84       |
| 39) | Hexachlorobutadiene       | 5.290 | 225  | 6487     | 2.052 | ug/ml  | 94       |
| 40) | p-Chloro-m-cresol         | 5.643 | 107  | 7653     | 1.895 | ug/ml  | 91       |
| 41) | 2-Methylnaphthalene       | 5.739 | 142  | 22389    | 2.110 | ug/ml  | 96       |
| 42) | 1-Methylnaphthalene       | 5.819 | 115  | 7306     | 2.087 | ug/ml  | 92       |
| 43) | Hexachlorocyclopentadiene | 5.889 | 237  | 6310     | 1.588 | ug/ml  | 94       |
| 44) | 2,4,6-Trichlorophenol     | 5.985 | 196  | 5928     | 1.657 | ug/ml  | 98       |
| 45) | 2,4,5-Trichlorophenol     | 6.006 | 196  | 6380     | 1.683 | ug/ml  | 93       |
| 47) | 2-Chloronaphthalene       | 6.134 | 162  | 23123    | 2.155 | ug/ml  | 99       |
| 48) | 2-Nitroaniline            | 6.225 | 138  | 4047     | 1.265 | ug/ml# | 87       |
| 49) | 1,4-Dinitrobenzene        | 6.337 | 168  | 1398     | 1.043 | ug/ml# | 43       |
| 50) | 1,3-Dinitrobenzene        | 6.401 | 168  | 2221     | 1.481 | ug/ml  | 80       |
| 51) | Dimethyl phthalate        | 6.396 | 163  | 25137    | 2.075 | ug/ml# | 96       |
| 52) | Acenaphthylene            | 6.471 | 152  | 33115    | 2.003 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.433 | 165  | 3729     | 1.489 | ug/ml# | 75       |
| 54) | 1,2-Dinitrobenzene        | 6.465 | 168  | 1395     | 1.546 | ug/ml# | 41       |
| 64) | 3-Nitroaniline            | 6.562 | 138  | 4505     | 1.596 | ug/ml# | 76       |
| 65) | Acenaphthene              | 6.615 | 154  | 21687    | 2.221 | ug/ml  | 96       |
| 66) | 2,4-Dinitrophenol         | 6.647 | 184  | 953      | 3.504 | ug/ml# | 49       |
| 67) | Dibenzofuran              | 6.754 | 168  | 33605    | 2.279 | ug/ml  | 99       |
| 68) | 2,4-Dinitrotoluene        | 6.754 | 165  | 5241     | 1.596 | ug/ml# | 80       |
| 69) | 4-Nitrophenol             | 6.717 | 65   | 3031     | 1.504 | ug/ml  | 92       |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 5809     | 1.723 | ug/ml  | 88       |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 6537     | 1.812 | ug/ml  | 96       |
| 72) | Diethyl phthalate         | 6.973 | 149  | 24281    | 2.019 | ug/ml  | 96       |
| 73) | Fluorene                  | 7.032 | 166  | 24978    | 2.134 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.048 | 204  | 12550    | 2.103 | ug/ml  | 92       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL2.d  
 Acq On : 9 Jun 2019 6:05 pm  
 Operator : gcms5:ek  
 Sample : IL9,32,,ABNL2 Lot# 8058  
 Misc : wg1246641,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 10 13:06:52 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:06:44 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.048  | 138  | 4913     | 1.617 | ug/ml  | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.080  | 198  | 1564     | 0.845 | ug/ml# | 75       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 20864    | 2.090 | ug/ml  | 98       |
| 78)  | Azobenzene                | 7.171  | 77   | 21952    | 2.053 | ug/ml# | 87       |
| 80)  | 4-Bromophenyl phenyl e... | 7.443  | 248  | 7664     | 1.990 | ug/ml# | 91       |
| 81)  | Hexachlorobenzene         | 7.486  | 284  | 9415     | 2.060 | ug/ml# | 90       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 3201     | 2.440 | ug/ml  | 93       |
| 89)  | Phenanthrene              | 7.822  | 178  | 42852    | 2.227 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.865  | 178  | 39637    | 2.097 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.015  | 167  | 34633    | 1.991 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 8.362  | 149  | 31292    | 1.648 | ug/ml  | 97       |
| 93)  | Fluoranthene              | 8.870  | 202  | 44530    | 1.985 | ug/ml  | 96       |
| 94)  | Benzidine                 | 9.008  | 184  | 15085    | 1.098 | ug/ml  | 98       |
| 95)  | Pyrene                    | 9.067  | 202  | 50446    | 2.083 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.730  | 149  | 9567     | 1.066 | ug/ml# | 92       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 44867    | 2.057 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.189 | 252  | 11793    | 1.436 | ug/ml# | 92       |
| 107) | Chrysene                  | 10.221 | 228  | 49500    | 2.128 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 14366    | 1.841 | ug/ml# | 93       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 17282    | 0.775 | ug/ml# | 92       |
| 110) | Benzo(b)fluoranthene      | 11.140 | 252  | 44441    | 1.857 | ug/ml  | 94       |
| 111) | Benzo(k)fluoranthene      | 11.161 | 252  | 45851    | 2.033 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 11.402 | 252  | 39444    | 1.730 | ug/ml  | 93       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.278 | 276  | 33816M6  | 1.508 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.299 | 278  | 40279    | 1.826 | ug/ml  | 96       |
| 116) | Benzo(ghi)perylene        | 12.492 | 276  | 44982    | 1.875 | ug/ml  | 95       |

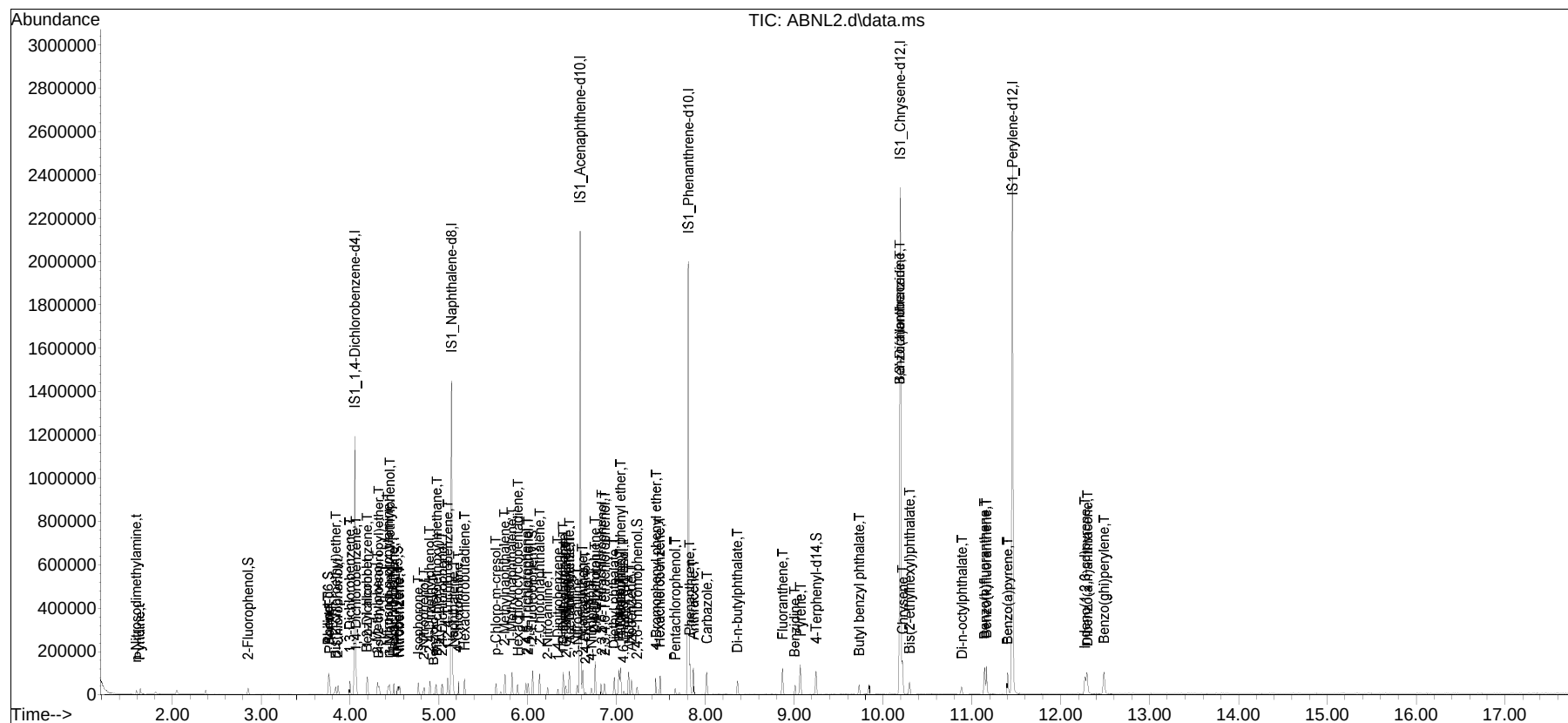
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL2.d  
 Acq On : 9 Jun 2019 6:05 pm  
 Operator : gcms5:ek  
 Sample : IL9,32,,ABNL2 Lot# 8058  
 Misc : wg1246641,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 10 13:06:52 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:06:44 2019  
 Response via : Initial Calibration

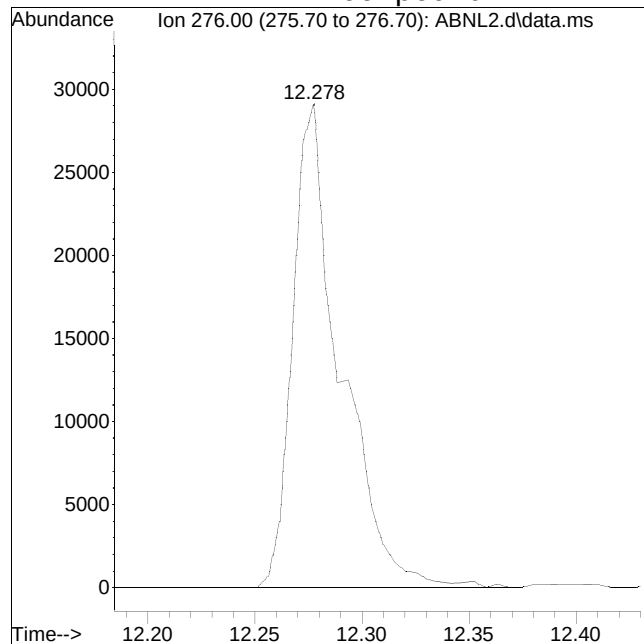
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

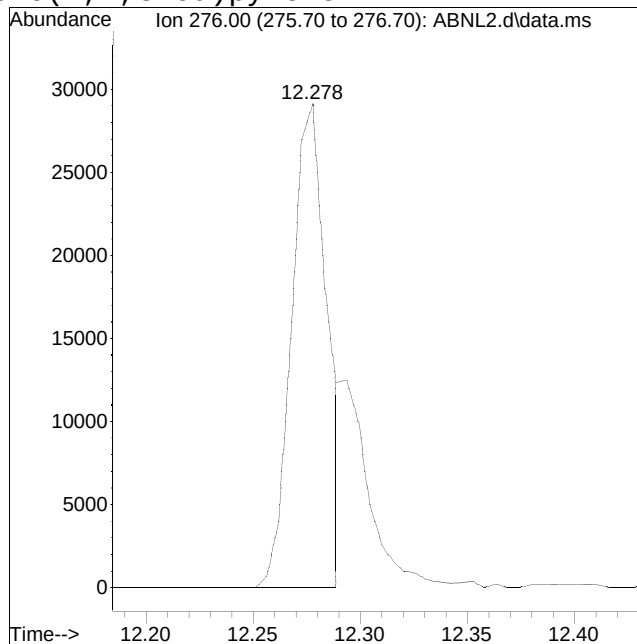
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL2.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 6:05 pm Instrument : GCMS5  
Sample : IL9,32,,ABNL2 Lot# 8058 Quant Date : 6/10/2019 1:06 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 45137

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 33816 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL1.d  
 Acq On : 9 Jun 2019 6:30 pm  
 Operator : gcms5:ek  
 Sample : IL10,32,,ABNL1 Lot# 8057  
 Misc : wg1246641,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 10 12:05:15 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 168322     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = | 85.55% |        |          |
| 35) IS1_Naphthalene-d8        | 5.141          | 136  | 609681     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = | 83.46% |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 363800     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = | 82.70% |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 726876     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = | 83.10% |        |          |
| 104) IS1_Chrysene-d12         | 10.194         | 240  | 763102     | 40.000 | ug/ml  | -0.01    |
| Standard Area 1 = 915891      |                |      | Recovery = | 83.32% |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 904196     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = | 81.22% |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 4565       | 0.976  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 1.95%# |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 5894       | 1.054  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 2.11%# |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 4943       | 0.937  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 3.75%# |        |          |
| 46) 2-Fluorobiphenyl          | 6.054          | 172  | 15333      | 1.215  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 4.86%# |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 1750       | 0.692  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 1.38%# |        |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 15818      | 0.964  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 3.86%# |        |          |
| Target Compounds              |                |      |            |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.593          | 74   | 2896       | 0.977  | ug/ml# | 82       |
| 3) Pyridine                   | 1.636          | 79   | 5273       | 0.981  | ug/ml  | 98       |
| 5) Aniline                    | 3.757          | 93   | 7871       | 1.078  | ug/ml  | 93       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 4924       | 0.932  | ug/ml# | 89       |
| 8) Phenol                     | 3.768          | 94   | 6860       | 1.054  | ug/ml  | 92       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 4791       | 1.111  | ug/ml# | 86       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 7340       | 1.197  | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 7138       | 1.155  | ug/ml# | 84       |
| 12) 1,2-Dichlorobenzene       | 4.195          | 146  | 6998       | 1.195  | ug/ml  | 98       |
| 13) Benzyl alcohol            | 4.190          | 79   | 3879       | 0.982  | ug/ml# | 87       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 8395       | 1.110  | ug/ml# | 88       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL1.d  
 Acq On : 9 Jun 2019 6:30 pm  
 Operator : gcms5:ek  
 Sample : IL10,32,,ABNL1 Lot# 8057  
 Misc : wg1246641,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 10 12:05:15 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 15) 2-Methylphenol            | 4.307 | 108  | 3855     | 0.827 | ug/ml  | 92       |
| 16) Hexachloroethane          | 4.489 | 117  | 2551     | 1.058 | ug/ml  | 88       |
| 17) n-Nitrosodi-n-propylamine | 4.430 | 70   | 3320     | 0.921 | ug/ml# | 61       |
| 18) 3-Methylphenol/4-Methy... | 4.446 | 108  | 4514     | 0.902 | ug/ml# | 96       |
| 20) Nitrobenzene              | 4.553 | 77   | 5270     | 0.993 | ug/ml# | 83       |
| 21) Isophorone                | 4.767 | 82   | 7950     | 0.858 | ug/ml# | 90       |
| 22) 2-Nitrophenol             | 4.831 | 139  | 2040     | 0.725 | ug/ml# | 86       |
| 23) 2,4-Dimethylphenol        | 4.895 | 107  | 4428     | 0.854 | ug/ml  | 97       |
| 24) Bis(2-chloroethoxy)met... | 4.975 | 93   | 6228     | 1.029 | ug/ml# | 90       |
| 25) 2,4-Dichlorophenol        | 5.039 | 162  | 4308     | 0.811 | ug/ml  | 96       |
| 26) 1,2,4-Trichlorobenzene    | 5.103 | 180  | 6744     | 1.169 | ug/ml  | 94       |
| 36) Naphthalene               | 5.162 | 128  | 18423    | 1.234 | ug/ml  | 98       |
| 37) Benzoic Acid              | 0.000 |      | 0        | N.D.  | d      |          |
| 38) 4-Chloroaniline           | 5.221 | 65   | 2054     | 1.121 | ug/ml  | 83       |
| 39) Hexachlorobutadiene       | 5.290 | 225  | 3486     | 1.062 | ug/ml  | 92       |
| 40) p-Chloro-m-cresol         | 5.643 | 107  | 3539     | 0.766 | ug/ml  | 94       |
| 41) 2-Methylnaphthalene       | 5.739 | 142  | 11906    | 1.069 | ug/ml  | 93       |
| 42) 1-Methylnaphthalene       | 5.819 | 115  | 4377     | 1.231 | ug/ml  | 90       |
| 43) Hexachlorocyclopentadiene | 5.888 | 237  | 3253     | 0.737 | ug/ml# | 92       |
| 44) 2,4,6-Trichlorophenol     | 5.985 | 196  | 3172     | 0.796 | ug/ml  | 91       |
| 45) 2,4,5-Trichlorophenol     | 6.006 | 196  | 3319     | 0.777 | ug/ml# | 91       |
| 47) 2-Chloronaphthalene       | 6.134 | 162  | 12498    | 1.129 | ug/ml  | 94       |
| 48) 2-Nitroaniline            | 6.225 | 138  | 1984     | 0.545 | ug/ml# | 81       |
| 49) 1,4-Dinitrobenzene        | 6.337 | 168  | 677      | 0.445 | ug/ml# | 48       |
| 50) 1,3-Dinitrobenzene        | 6.401 | 168  | 657      | 0.402 | ug/ml# | 1        |
| 51) Dimethyl phthalate        | 6.396 | 163  | 13332    | 1.053 | ug/ml# | 96       |
| 52) Acenaphthylene            | 6.471 | 152  | 18367    | 1.065 | ug/ml  | 97       |
| 53) 2,6-Dinitrotoluene        | 6.433 | 165  | 1748     | 0.625 | ug/ml# | 82       |
| 54) 1,2-Dinitrobenzene        | 6.465 | 168  | 622      | 0.648 | ug/ml# | 11       |
| 64) 3-Nitroaniline            | 6.562 | 138  | 2172     | 0.673 | ug/ml# | 86       |
| 65) Acenaphthene              | 6.615 | 154  | 12229    | 1.241 | ug/ml  | 97       |
| 66) 2,4-Dinitrophenol         | 0.000 |      | 0        | N.D.  |        |          |
| 67) Dibenzofuran              | 6.754 | 168  | 17374    | 1.151 | ug/ml  | 93       |
| 68) 2,4-Dinitrotoluene        | 6.754 | 165  | 2263     | 0.622 | ug/ml# | 66       |
| 69) 4-Nitrophenol             | 6.711 | 65   | 1530     | 0.663 | ug/ml# | 76       |
| 70) 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 2708     | 0.713 | ug/ml  | 88       |
| 71) 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 2820     | 0.713 | ug/ml  | 95       |
| 72) Diethyl phthalate         | 6.973 | 149  | 12700    | 0.989 | ug/ml  | 97       |
| 73) Fluorene                  | 7.032 | 166  | 13381    | 1.068 | ug/ml  | 94       |
| 74) 4-Chlorophenyl phenyl ... | 7.048 | 204  | 7495     | 1.207 | ug/ml  | 93       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNL1.d  
 Acq On : 9 Jun 2019 6:30 pm  
 Operator : gcms5:ek  
 Sample : IL10,32,,ABNL1 Lot# 8057  
 Misc : wg1246641,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 10 12:05:15 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:59:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.048  | 138  | 2108     | 0.614 | ug/ml# | 82       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.085  | 198  | 734      | 0.340 | ug/ml# | 1        |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 11383    | 1.089 | ug/ml  | 99       |
| 78)  | Azobenzene                | 7.171  | 77   | 11518    | 1.002 | ug/ml# | 88       |
| 80)  | 4-Bromophenyl phenyl e... | 7.443  | 248  | 4264     | 1.027 | ug/ml  | 91       |
| 81)  | Hexachlorobenzene         | 7.486  | 284  | 5219     | 1.097 | ug/ml  | 98       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 1020     | 0.325 | ug/ml# | 55       |
| 89)  | Phenanthrene              | 7.822  | 178  | 24487    | 1.258 | ug/ml  | 97       |
| 90)  | Anthracene                | 7.865  | 178  | 21876    | 1.084 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.015  | 167  | 17761    | 0.940 | ug/ml  | 95       |
| 92)  | Di-n-butylphthalate       | 8.362  | 149  | 14456    | 0.633 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 8.869  | 202  | 24810    | 1.017 | ug/ml# | 92       |
| 94)  | Benzidine                 | 9.008  | 184  | 6058     | 0.368 | ug/ml  | 95       |
| 95)  | Pyrene                    | 9.067  | 202  | 26691    | 1.020 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 9.730  | 149  | 4191     | 0.391 | ug/ml# | 89       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 23946    | 1.022 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.189 | 252  | 4809     | 0.492 | ug/ml# | 77       |
| 107) | Chrysene                  | 10.221 | 228  | 28700    | 1.202 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 6113     | 0.377 | ug/ml# | 85       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 6811     | 0.253 | ug/ml# | 84       |
| 110) | Benzo(b)fluoranthene      | 11.140 | 252  | 20975    | 0.819 | ug/ml# | 95       |
| 111) | Benzo(k)fluoranthene      | 11.161 | 252  | 21939    | 0.852 | ug/ml  | 97       |
| 112) | Benzo(a)pyrene            | 11.402 | 252  | 17035    | 0.675 | ug/ml  | 97       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.272 | 276  | 15367M6  | 0.620 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.294 | 278  | 19916    | 0.823 | ug/ml# | 94       |
| 116) | Benzo(ghi)perylene        | 12.491 | 276  | 22144    | 0.840 | ug/ml  | 95       |

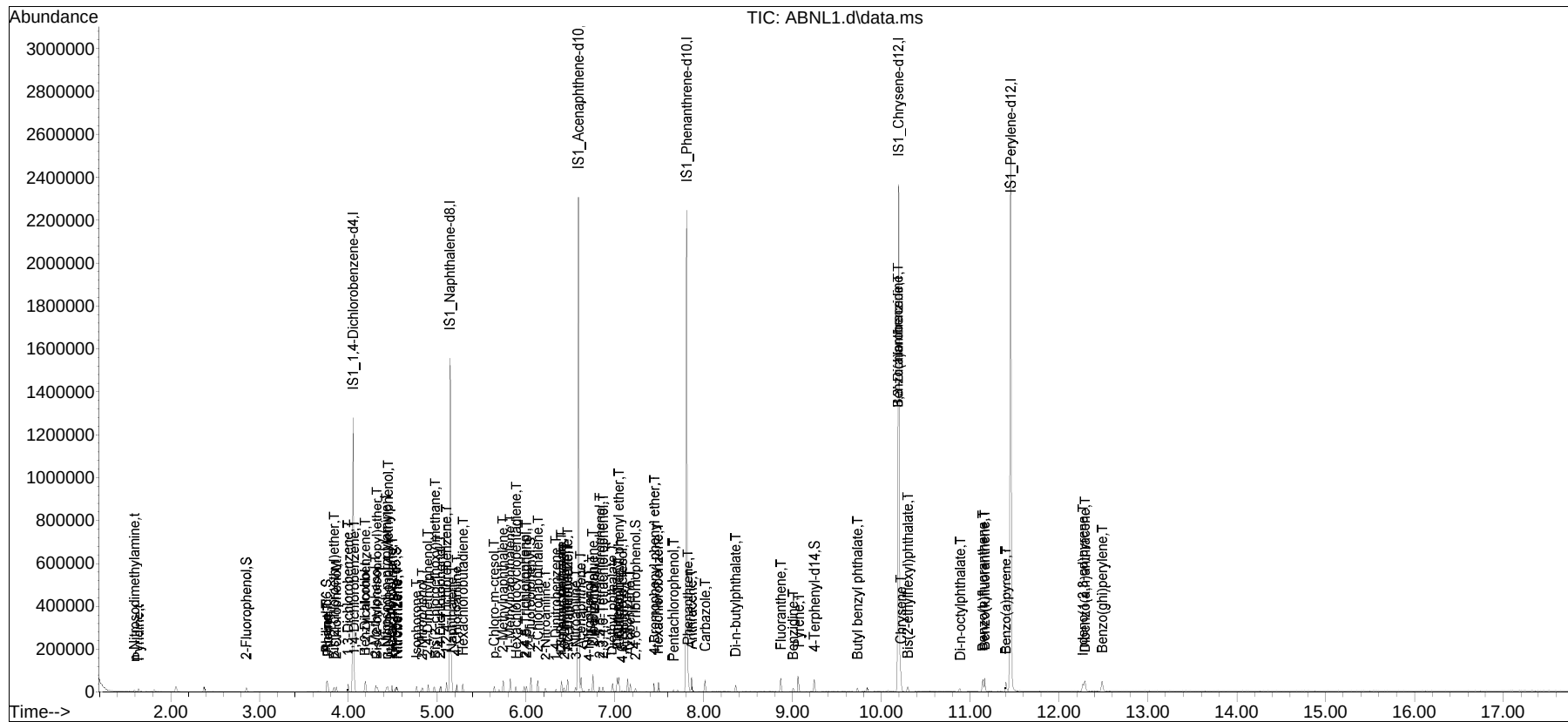
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNL1.d  
Acq On : 9 Jun 2019 6:30 pm  
Operator : gcms5:ek  
Sample : IL10,32,,ABNL1 Lot# 8057  
Misc : wg1246641,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 10 12:05:15 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 11:59:23 2019  
Response via : Initial Calibration

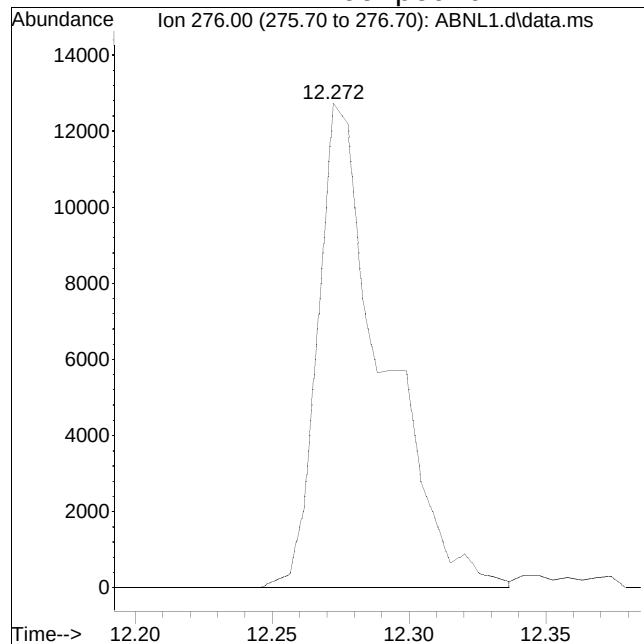
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

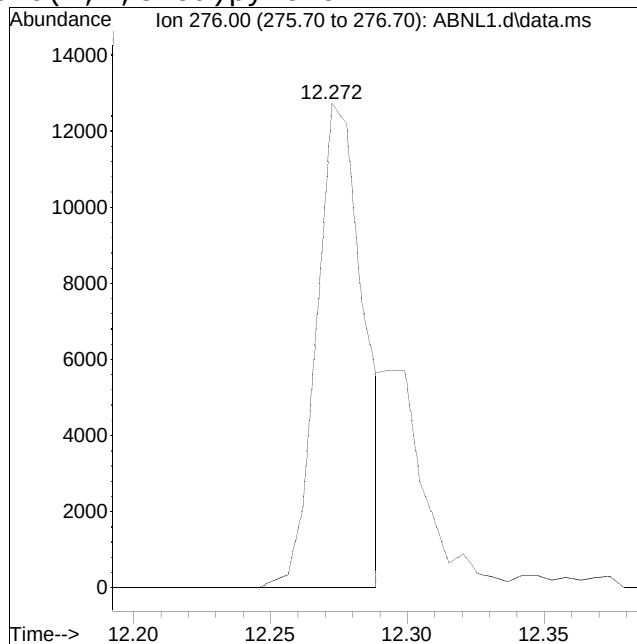
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNL1.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 6:30 pm Instrument : GCMS5  
Sample : IL10,32,,ABNL1 Lot# 8057 Quant Date : 6/10/2019 12:00 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 21244

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 15367 M6



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L10.d  
 Acq On : 9 Jun 2019 6:56 pm  
 Operator : gcms5:ek  
 Sample : IL11,32,,AP9L200 Lot# 8067  
 Misc : wg1246641,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 10 14:01:28 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 187488   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 107.91% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 710081   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 107.62% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 430590   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 107.53% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 868149   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 107.09% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 3.656 | 105  | 792950   | 183.332 | ug/ml  | 95     |
| 29) Acetophenone              | 4.414 | 105  | 1416321  | 178.344 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.489 | 106  | 1337108  | 175.012 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 1300262  | 174.119 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.205 | 59   | 750668   | 164.034 | ug/ml  | 95     |
| 57) 3-Chloroaniline           | 5.210 | 65   | 381842M6 | 161.517 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.237 | 162  | 1007599  | 176.993 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 5.450 | 111  | 452228   | 183.961 | ug/ml  | 95     |
| 60) Caprolactam               | 5.515 | 55   | 540665M6 | 197.779 | ug/ml  |        |
| 61) 1,2,4,5-Tetrachloroben... | 5.889 | 216  | 1194786  | 170.811 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.134 | 154  | 2390484  | 159.555 | ug/ml  | 97     |
| 84) Dichloran                 | 7.545 | 206  | 417710   | 206.641 | ug/ml  | 96     |
| 85) Pentachloronitrobenzene   | 7.673 | 237  | 395527   | 191.854 | ug/ml  | 92     |
| 99) Diphenamid                | 8.629 | 167  | 1851446  | 172.739 | ug/ml  | 87     |

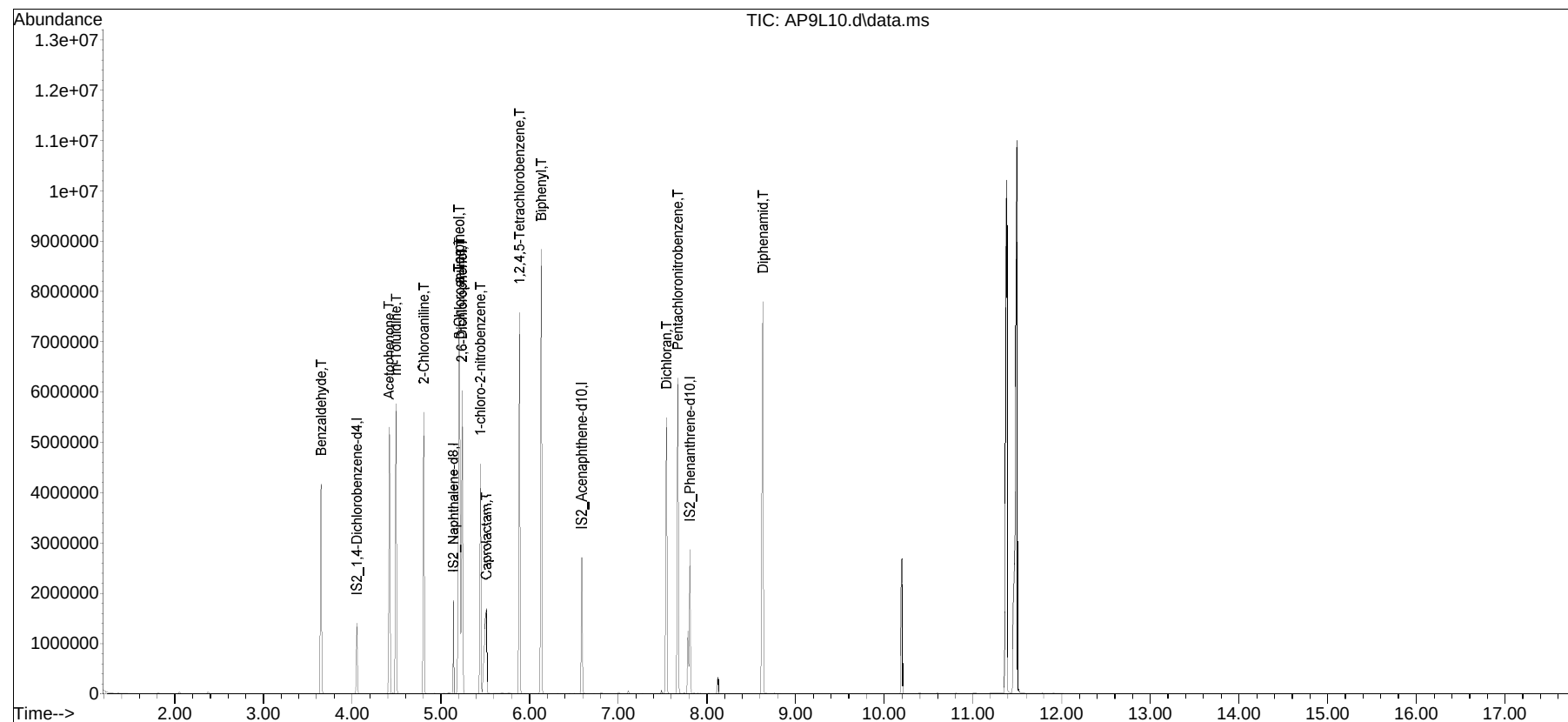
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L10.d  
 Acq On : 9 Jun 2019 6:56 pm  
 Operator : gcms5:ek  
 Sample : IL11,32,,AP9L200 Lot# 8067  
 Misc : wg1246641,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 10 14:01:28 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

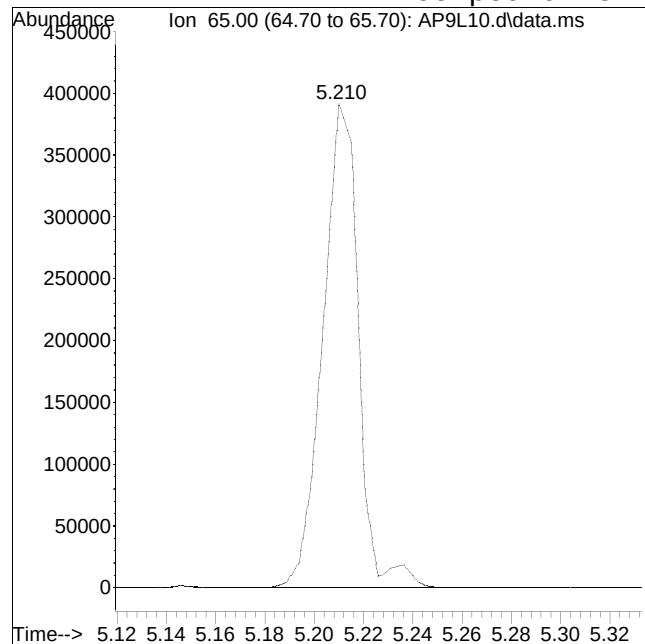
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

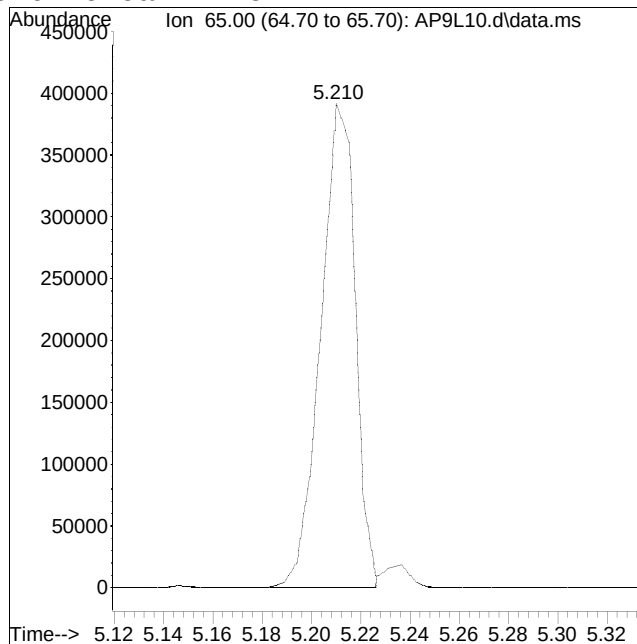
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L10.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 6:56 pm Instrument : GCMS5  
Sample : IL11,32,,AP9L200 Lot# 8067 Quant Date : 6/10/2019 11:54 am

## Compound #57: 3-Chloroaniline



Original Peak Response = 395189

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

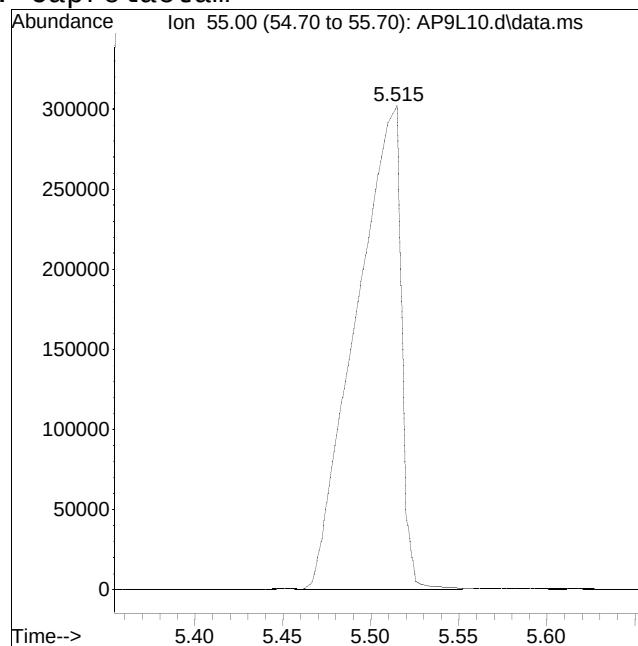
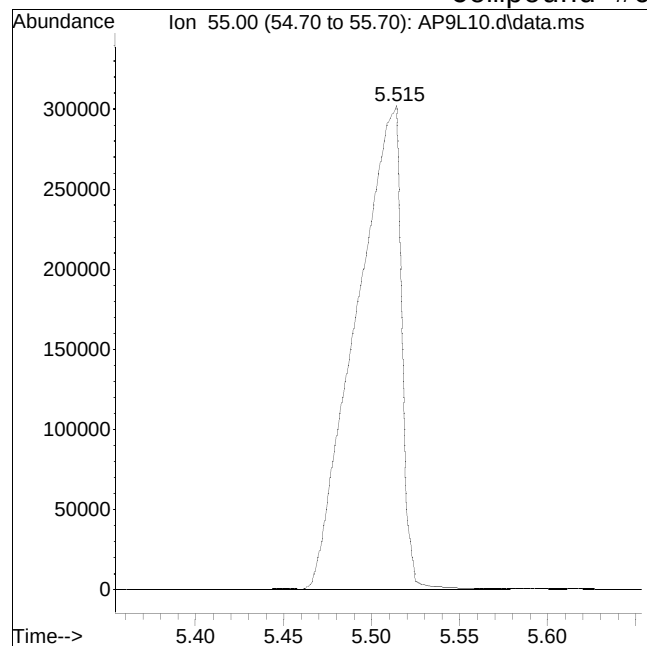


Manual Peak Response = 381842 M6

# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L10.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 6:56 pm Instrument : GCMS5  
Sample : IL11,32,,AP9L200 Lot# 8067 Quant Date : 6/10/2019 11:54 am

## Compound #60: Caprolactam



Original Peak Response = 542942

Manual Peak Response = 540665 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L9.d  
 Acq On : 9 Jun 2019 7:22 pm  
 Operator : gcms5:ek  
 Sample : IL12,32,,AP9L150 Lot# 8076  
 Misc : wg1246641,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 10 14:10:52 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 185239   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 106.62% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 697183   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 105.66% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 419080   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 104.65% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 855478   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 105.53% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 467794   | 109.468 | ug/ml  | 96     |
| 29) Acetophenone              | 4.414 | 105  | 1082657  | 137.984 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.489 | 106  | 870203   | 115.283 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 998882   | 135.385 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.199 | 59   | 606157   | 134.906 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.210 | 65   | 287783M6 | 123.982 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.237 | 162  | 786441   | 140.701 | ug/ml  | 97     |
| 59) 1-chloro-2-nitrobenzene   | 5.450 | 111  | 342716   | 141.992 | ug/ml  | 96     |
| 60) Caprolactam               | 5.504 | 55   | 409105M6 | 152.422 | ug/ml  |        |
| 61) 1,2,4,5-Tetrachloroben... | 5.888 | 216  | 928807   | 135.242 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.134 | 154  | 1913817  | 130.103 | ug/ml  | 98     |
| 84) Dichloran                 | 7.545 | 206  | 315928   | 160.582 | ug/ml  | 97     |
| 85) Pentachloronitrobenzene   | 7.673 | 237  | 304708   | 151.861 | ug/ml  | 92     |
| 99) Diphenamid                | 8.624 | 167  | 1473015  | 139.467 | ug/ml  | 88     |

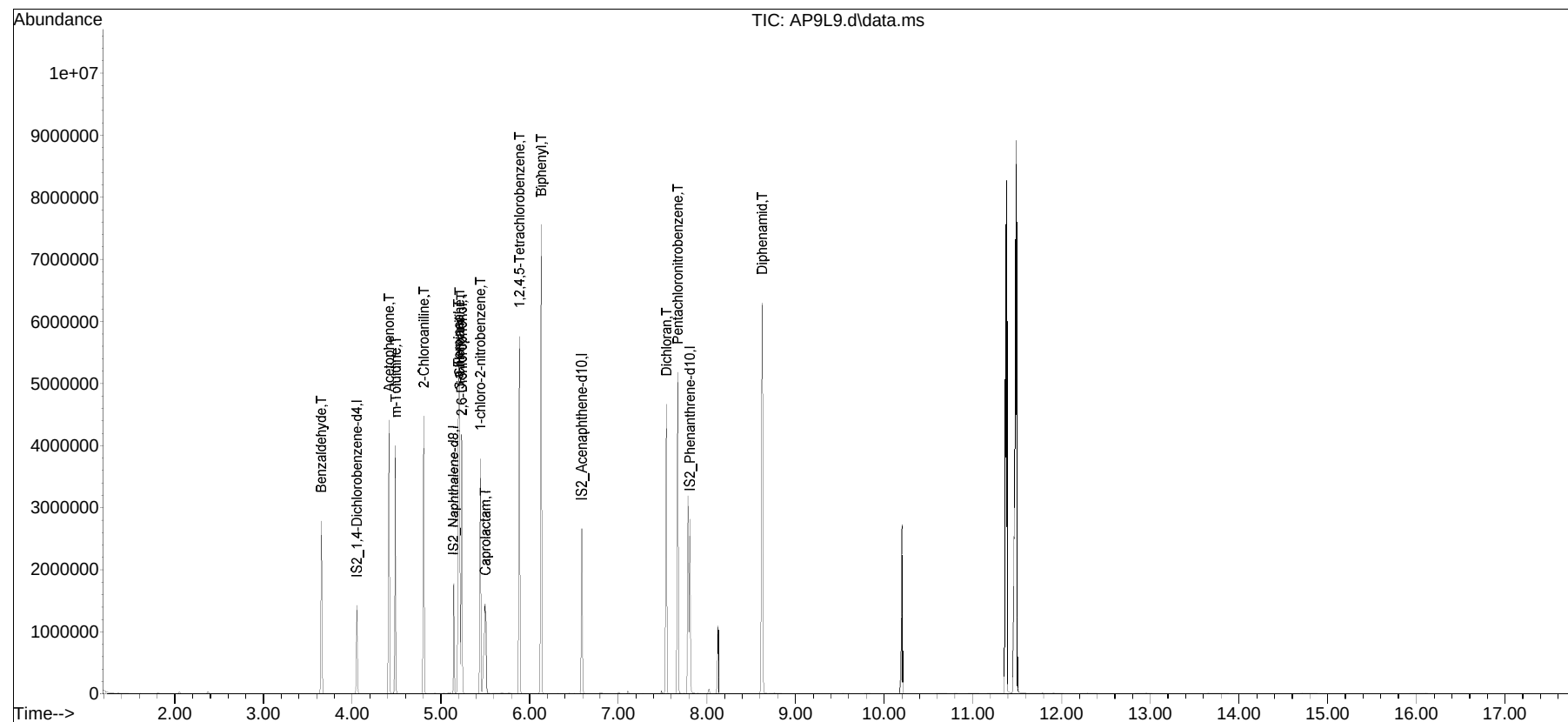
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L9.d  
 Acq On : 9 Jun 2019 7:22 pm  
 Operator : gcms5:ek  
 Sample : IL12,32,,AP9L150 Lot# 8076  
 Misc : wg1246641,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 10 14:10:52 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

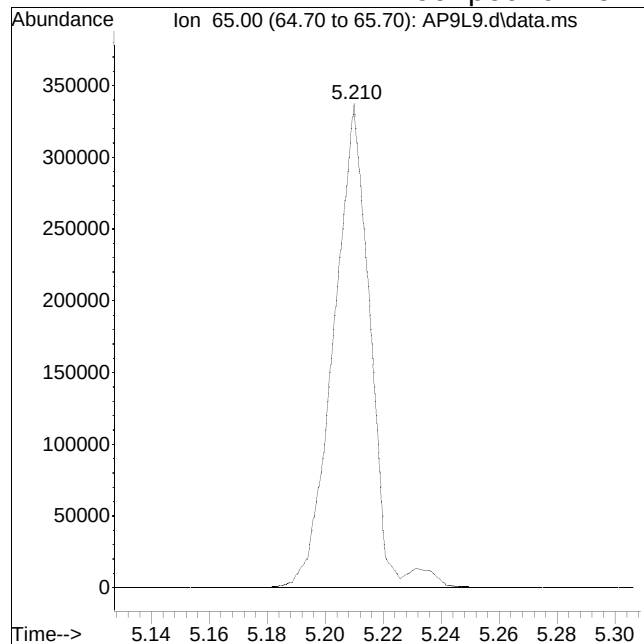
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

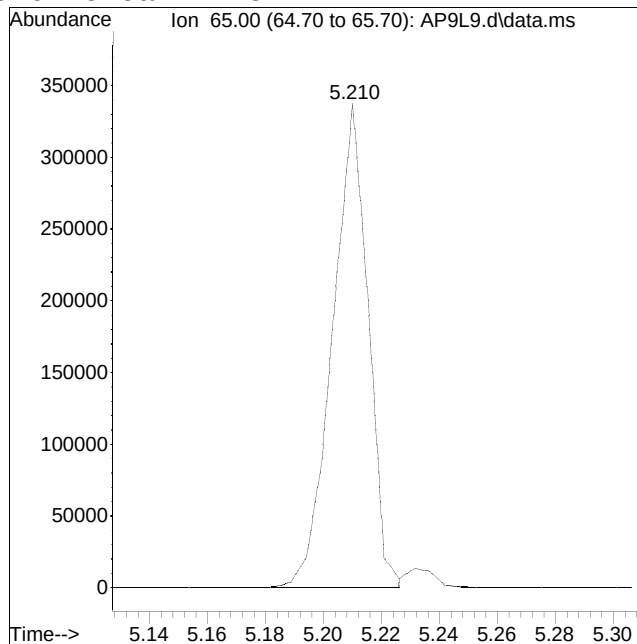
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L9.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 7:22 pm Instrument : GCMS5  
Sample : IL12,32,,AP9L150 Lot# 8076 Quant Date : 6/10/2019 11:54 am

## Compound #57: 3-Chloroaniline



Original Peak Response = 296536

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

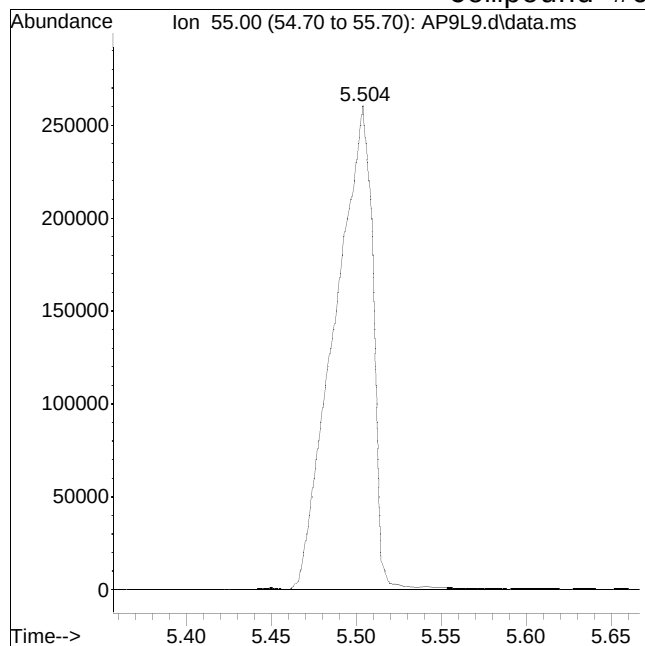


Manual Peak Response = 287783 M6

# Manual Integration Report

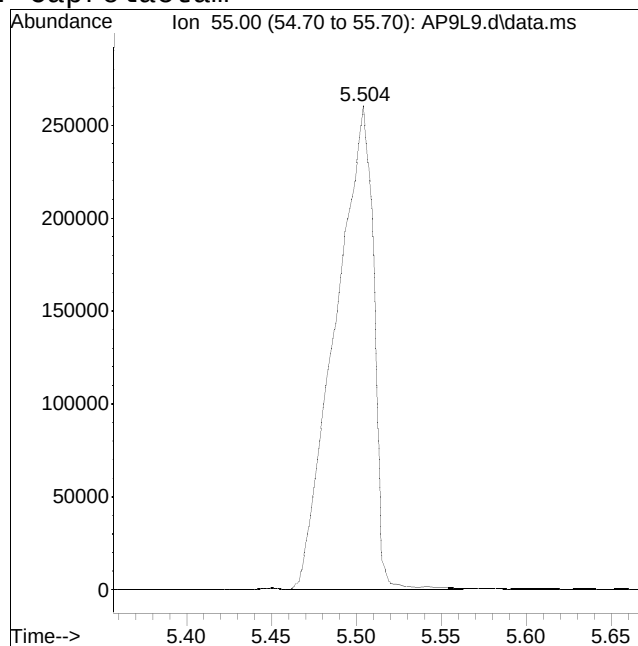
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L9.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 7:22 pm Instrument : GCMS5  
Sample : IL12,32,,AP9L150 Lot# 8076 Quant Date : 6/10/2019 11:54 am

## Compound #60: Caprolactam



Original Peak Response = 410769

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 409105 M6



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L8.d  
 Acq On : 9 Jun 2019 7:47 pm  
 Operator : gcms5:ek  
 Sample : IL13,32,,AP9L100 Lot# 8075  
 Misc : wg1246641,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 10 14:09:46 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 170313   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 98.03% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 631818   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 95.75% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 391459   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 97.76% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 788470   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 97.26% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 324302   | 82.541  | ug/ml  | 96     |
| 29) Acetophenone              | 4.414 | 105  | 680711   | 94.360  | ug/ml# | 93     |
| 30) m-Toluidine               | 4.489 | 106  | 585231   | 84.325  | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 642339   | 94.690  | ug/ml  | 98     |
| 56) a-Terpineol               | 5.199 | 59   | 395720   | 97.183  | ug/ml  | 93     |
| 57) 3-Chloroaniline           | 5.210 | 65   | 191775M6 | 91.168  | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.231 | 162  | 497109   | 98.138  | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 5.450 | 111  | 214539   | 98.082  | ug/ml  | 94     |
| 60) Caprolactam               | 5.493 | 55   | 247634   | 101.807 | ug/ml# | 84     |
| 61) 1,2,4,5-Tetrachloroben... | 5.888 | 216  | 596401   | 95.825  | ug/ml  | 99     |
| 62) Biphenyl                  | 6.134 | 154  | 1252471  | 93.953  | ug/ml  | 98     |
| 84) Dichloran                 | 7.545 | 206  | 193609   | 105.352 | ug/ml  | 97     |
| 85) Pentachloronitrobenzene   | 7.673 | 237  | 189376   | 101.041 | ug/ml  | 93     |
| 99) Diphenamid                | 8.624 | 167  | 959305   | 98.547  | ug/ml  | 89     |

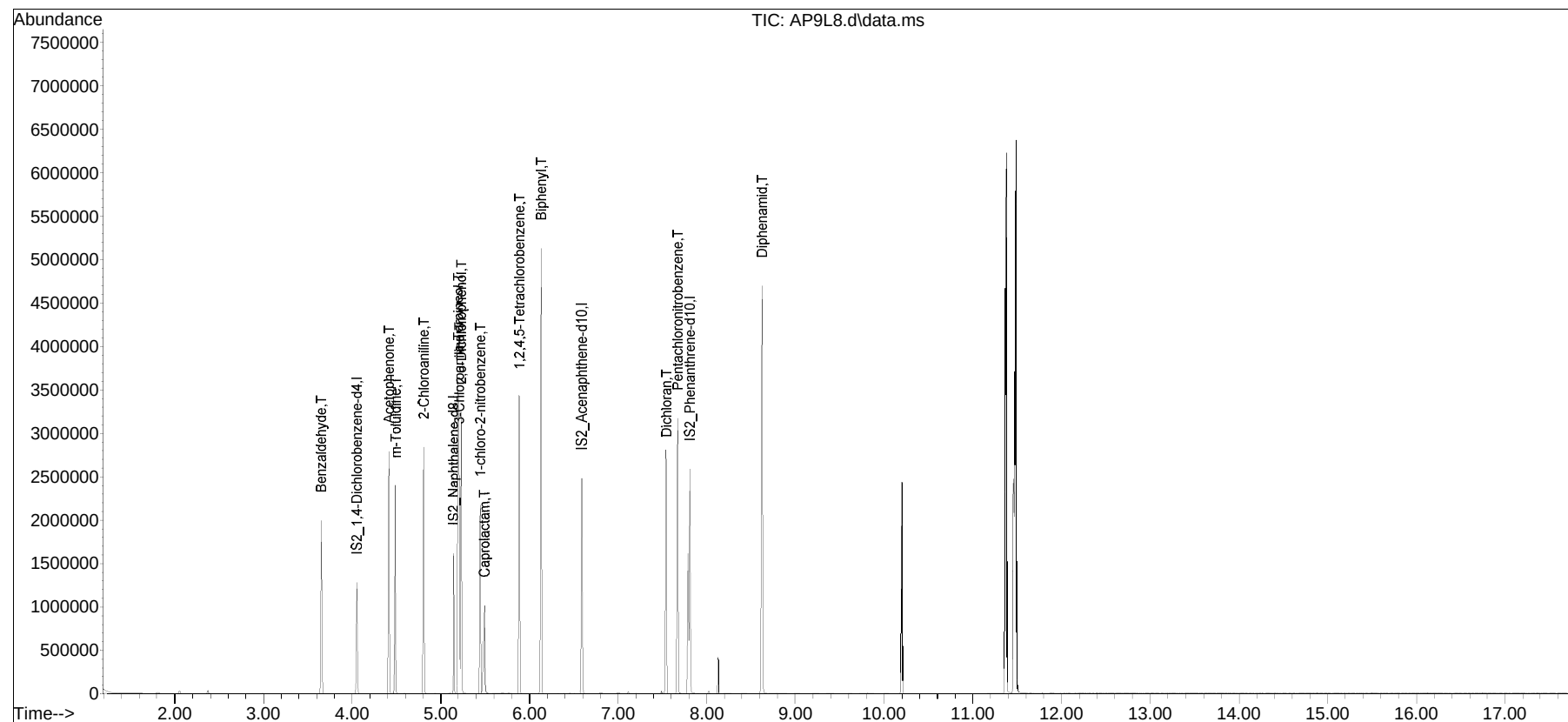
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L8.d  
 Acq On : 9 Jun 2019 7:47 pm  
 Operator : gcms5:ek  
 Sample : IL13,32,,AP9L100 Lot# 8075  
 Misc : wg1246641,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 10 14:09:46 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

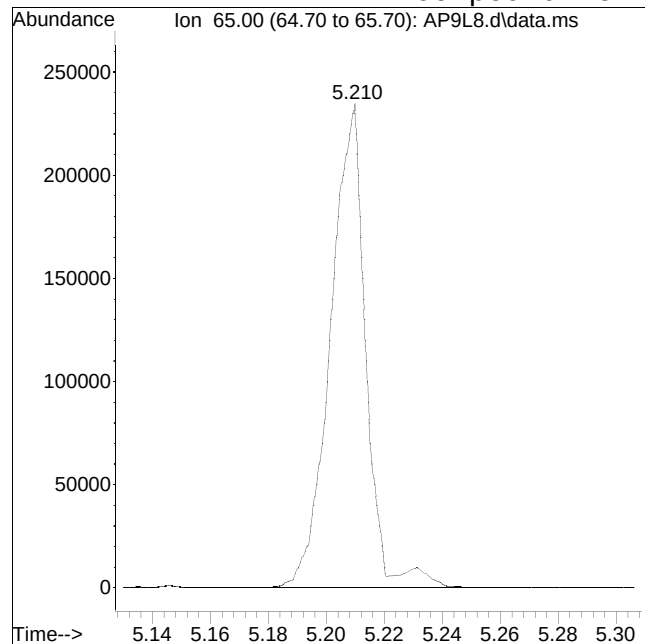
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

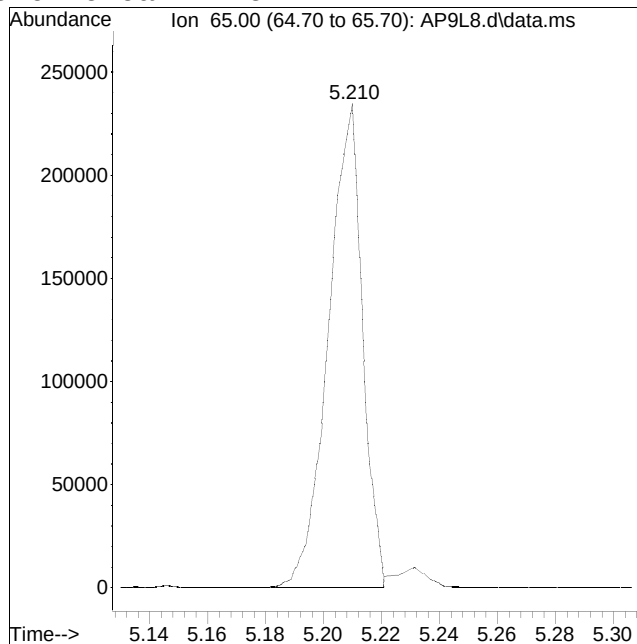
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L8.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 7:47 pm Instrument : GCMS5  
Sample : IL13,32,,AP9L100 Lot# 8075 Quant Date : 6/10/2019 11:54 am

## Compound #57: 3-Chloroaniline



Original Peak Response = 198894

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 191775 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L7.d  
 Acq On : 9 Jun 2019 8:13 pm  
 Operator : gcms5:ek  
 Sample : IL14,32,,AP9L50 Lot# 8074  
 Misc : wg1246641,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 10 14:09:01 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 173744   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 100.00% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 659830   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 100.00% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 400442   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 100.00% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 810648   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 100.00% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 200407   | 50.000 | ug/ml  | 97     |
| 29) Acetophenone              | 4.414 | 105  | 367967   | 50.000 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.483 | 106  | 354001   | 50.000 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 346012   | 50.000 | ug/ml  | 99     |
| 56) a-Terpineol               | 5.194 | 59   | 212622   | 50.000 | ug/ml  | 92     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 106334M6 | 48.404 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.231 | 162  | 264500   | 50.000 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 114216   | 50.000 | ug/ml  | 92     |
| 60) Caprolactam               | 5.488 | 55   | 125292M6 | 49.323 | ug/ml  |        |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 324989   | 50.000 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.134 | 154  | 696096   | 50.000 | ug/ml  | 98     |
| 84) Dichloran                 | 7.539 | 206  | 93995    | 50.000 | ug/ml  | 98     |
| 85) Pentachloronitrobenzene   | 7.673 | 237  | 95863    | 50.000 | ug/ml  | 93     |
| 99) Diphenamid                | 8.624 | 167  | 500413   | 50.000 | ug/ml  | 91     |

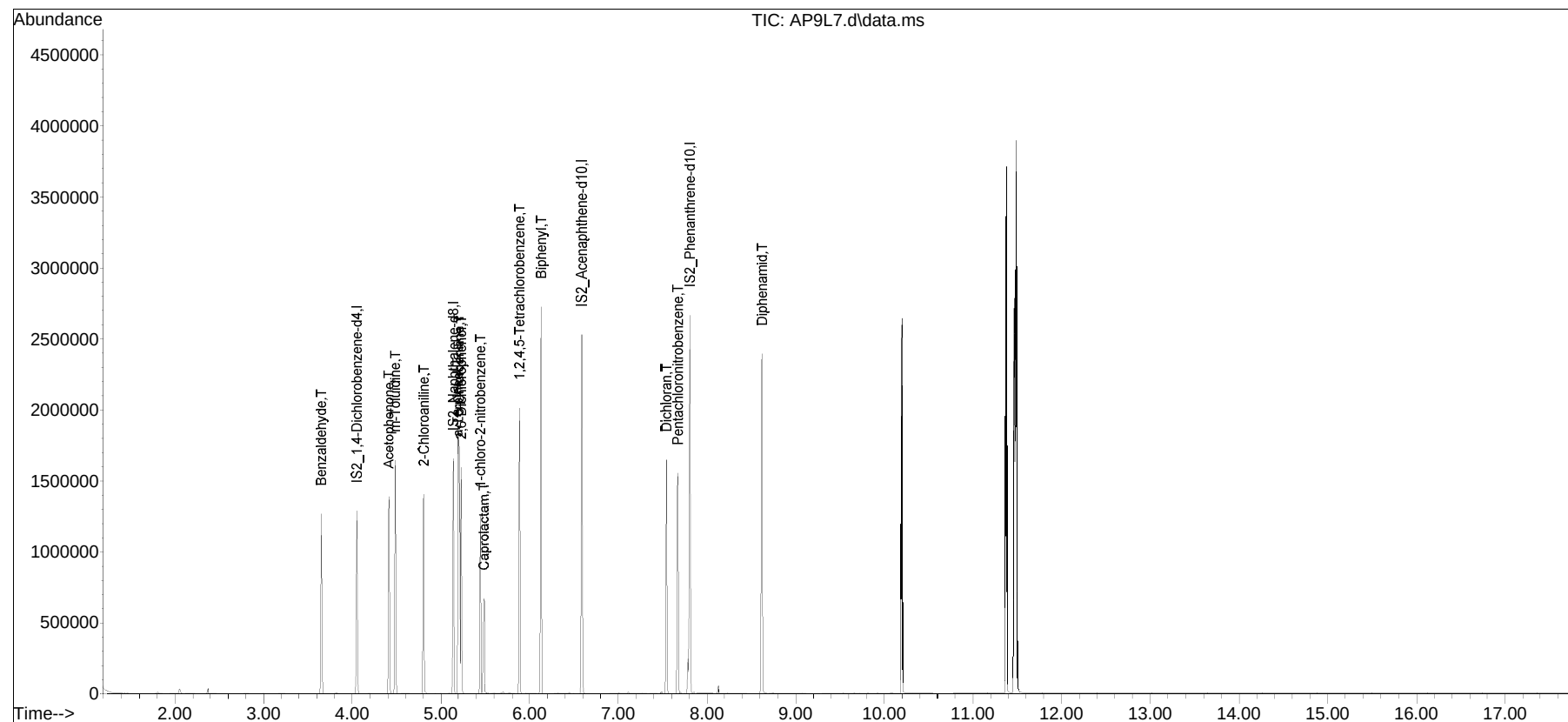
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L7.d  
 Acq On : 9 Jun 2019 8:13 pm  
 Operator : gcms5:ek  
 Sample : IL14,32,,AP9L50 Lot# 8074  
 Misc : wg1246641,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 10 14:09:01 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:20 2019  
 Response via : Initial Calibration

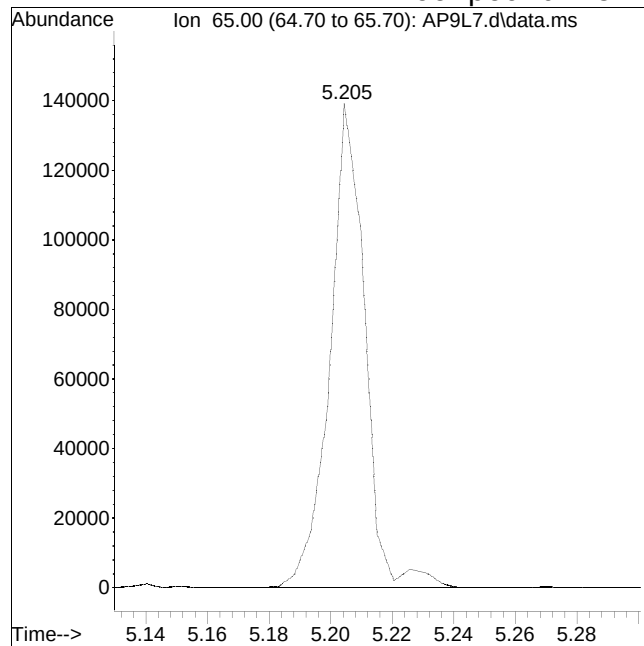
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

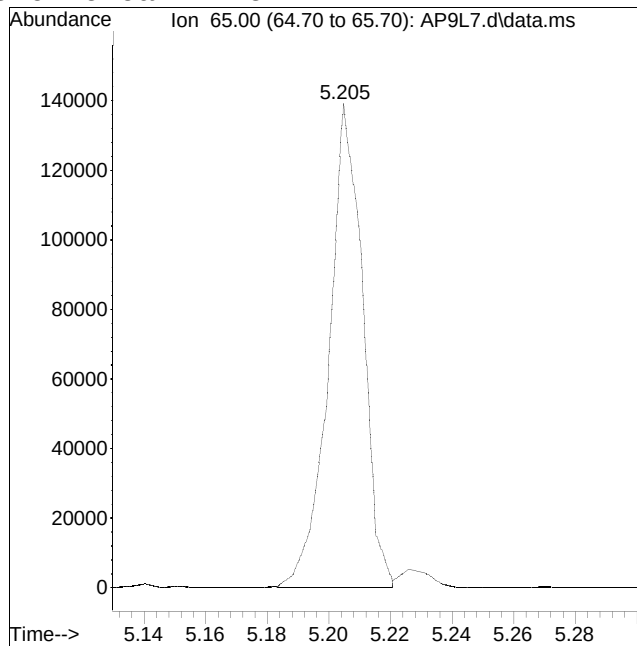
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L7.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 8:13 pm Instrument : GCMS5  
Sample : IL14,32,,AP9L50 Lot# 8074 Quant Date : 6/10/2019 11:50 am

## Compound #57: 3-Chloroaniline



Original Peak Response = 109840

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

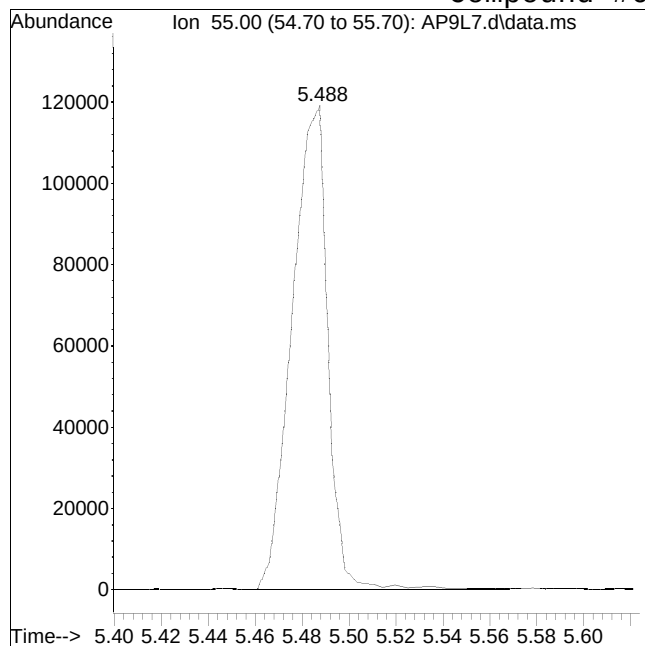


Manual Peak Response = 106334 M6

# Manual Integration Report

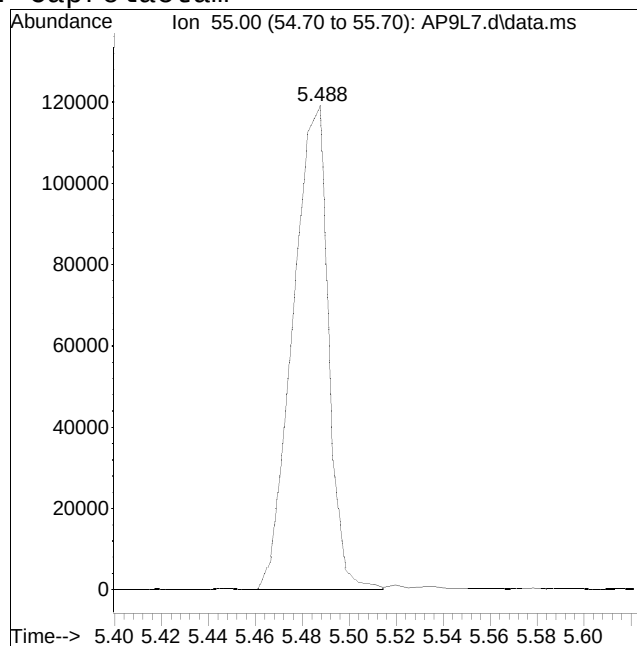
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L7.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 8:13 pm Instrument : GCMS5  
Sample : IL14,32,,AP9L50 Lot# 8074 Quant Date : 6/10/2019 11:50 am

## Compound #60: Caprolactam



Original Peak Response = 127011

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 125292 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L6.d  
 Acq On : 9 Jun 2019 8:39 pm  
 Operator : gcms5:ek  
 Sample : IL15,32,,AP9L20 Lot# 8073  
 Misc : wg1246641,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 10 14:07:58 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 160932   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 92.63% |          |
| 55) IS2_Naphthalene-d8        | 5.141 | 136  | 600801   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 91.05% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 355752   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 88.84% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 717545   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 88.51% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 74406    | 20.042 | ug/ml  | 95     |
| 29) Acetophenone              | 4.409 | 105  | 138530   | 20.322 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.484 | 106  | 124815   | 19.033 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 4.799 | 127  | 129146   | 20.148 | ug/ml  | 97     |
| 56) a-Terpineol               | 5.194 | 59   | 76373    | 19.724 | ug/ml  | 96     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 39962    | 19.978 | ug/ml  | 96     |
| 58) 2,6-Dichlorophenol        | 5.226 | 162  | 95914    | 19.913 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 40358    | 19.403 | ug/ml  | 89     |
| 60) Caprolactam               | 5.477 | 55   | 41930    | 18.128 | ug/ml# | 83     |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 120170   | 20.305 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.129 | 154  | 265100   | 20.913 | ug/ml  | 98     |
| 84) Dichloran                 | 7.539 | 206  | 28498    | 17.064 | ug/ml  | 97     |
| 85) Pentachloronitrobenzene   | 7.667 | 237  | 32602    | 19.141 | ug/ml  | 94     |
| 99) Diphenamid                | 8.618 | 167  | 169703   | 19.156 | ug/ml  | 93     |

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

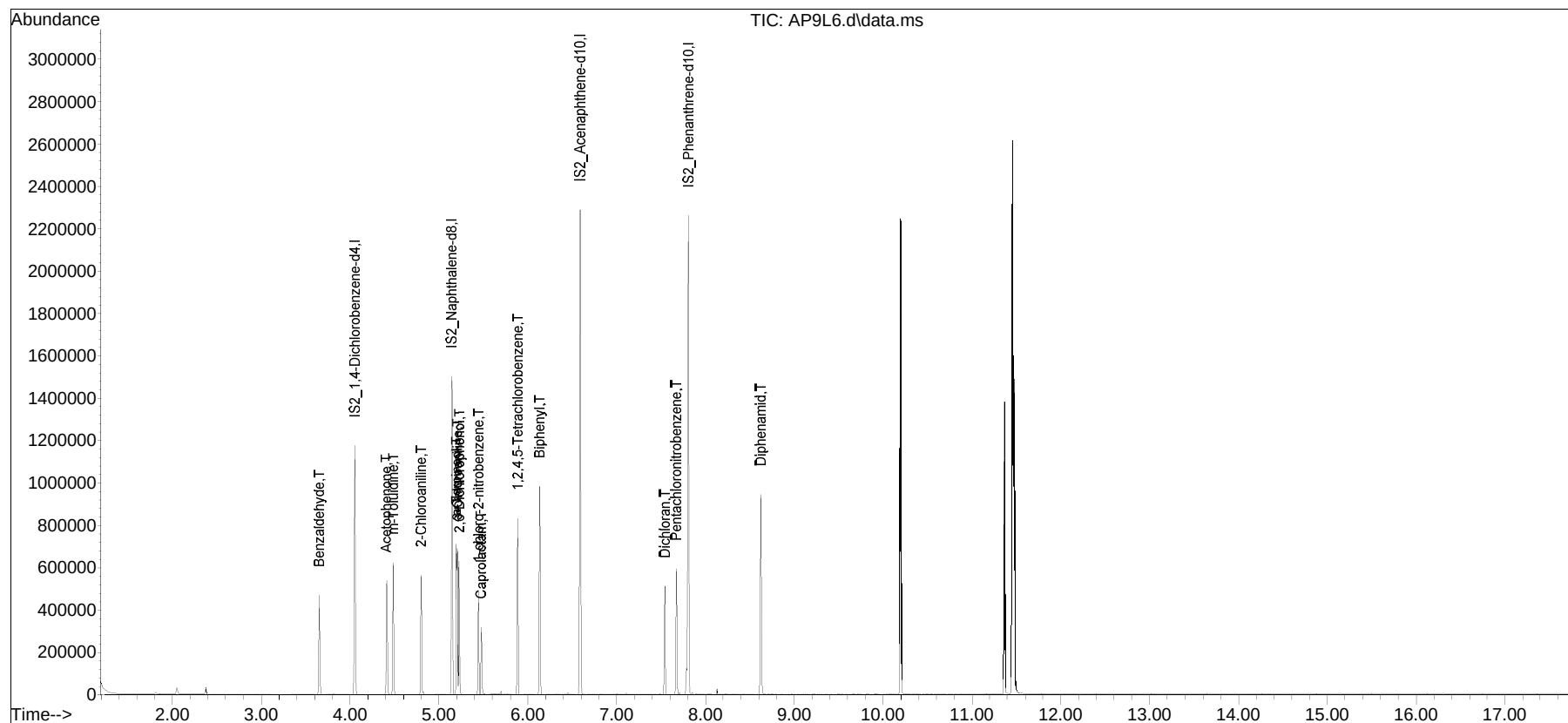


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L6.d  
 Acq On : 9 Jun 2019 8:39 pm  
 Operator : gcms5:ek  
 Sample : IL15,32,,AP9L20 Lot# 8073  
 Misc : wg1246641,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 10 14:07:58 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L6.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 8:39 pm Instrument : GCMS5  
Sample : IL15,32,,AP9L20 Lot# 8073 Quant Date : 6/10/2019 11:54 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L5.d  
 Acq On : 9 Jun 2019 9:05 pm  
 Operator : gcms5:ek  
 Sample : IL16,32,,AP9L10 Lot# 8072  
 Misc : wg1246641,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 14:07:12 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 181290   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 104.34% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 667356   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 101.14% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 401018   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 100.14% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 835157   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 103.02% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 42093    | 10.065 | ug/ml  | 100    |
| 29) Acetophenone              | 4.414 | 105  | 78939    | 10.280 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.483 | 106  | 72131    | 9.764  | ug/ml  | 96     |
| 31) 2-Chloroaniline           | 4.799 | 127  | 73122    | 10.127 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.194 | 59   | 42477    | 9.876  | ug/ml  | 96     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 23061M6  | 10.379 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.226 | 162  | 54216    | 10.133 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 22904    | 9.914  | ug/ml  | 89     |
| 60) Caprolactam               | 5.472 | 55   | 21962    | 8.548  | ug/ml# | 84     |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 70621    | 10.743 | ug/ml  | 100    |
| 62) Biphenyl                  | 6.129 | 154  | 158697   | 11.271 | ug/ml  | 98     |
| 84) Dichloran                 | 7.539 | 206  | 14476    | 7.689  | ug/ml  | 99     |
| 85) Pentachloronitrobenzene   | 7.667 | 237  | 19415    | 10.112 | ug/ml  | 93     |
| 99) Diphenamid                | 8.618 | 167  | 97037    | 9.411  | ug/ml  | 93     |

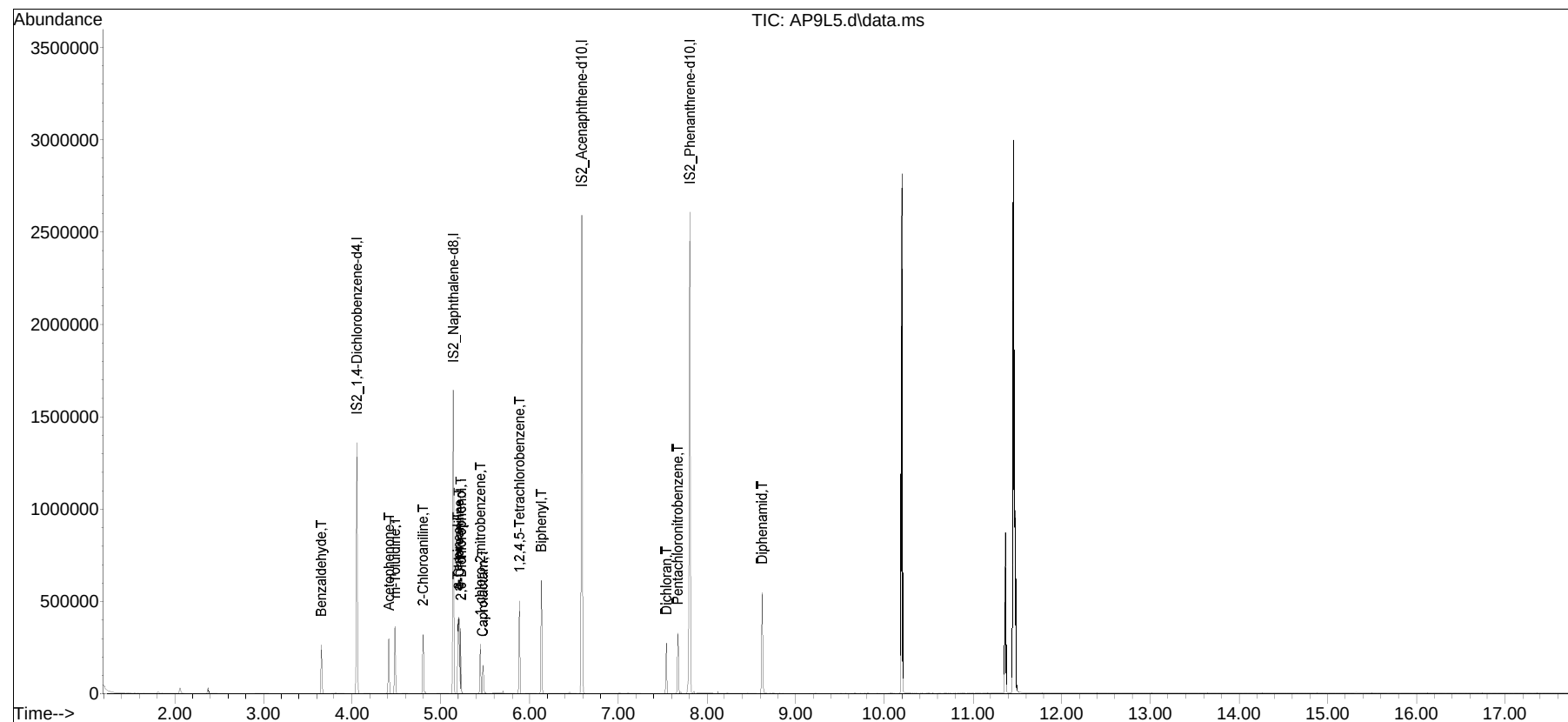
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L5.d  
 Acq On : 9 Jun 2019 9:05 pm  
 Operator : gcms5:ek  
 Sample : IL16,32,,AP9L10 Lot# 8072  
 Misc : wg1246641,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 10 14:07:12 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

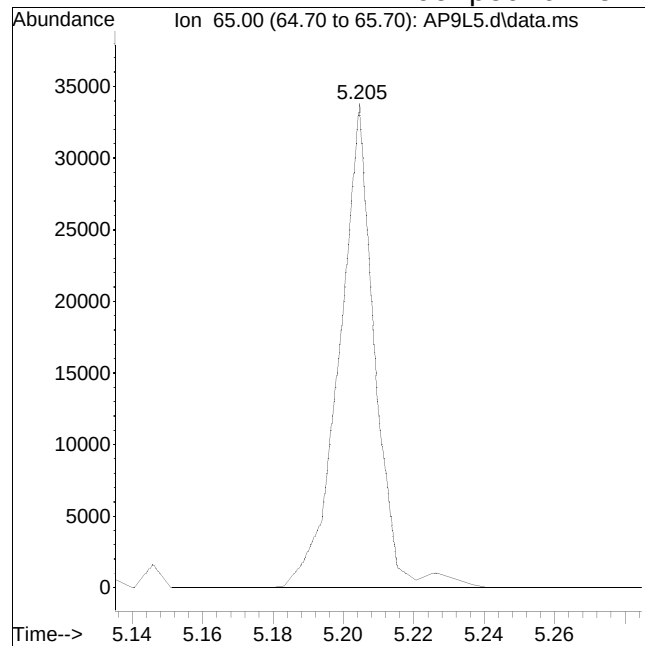
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

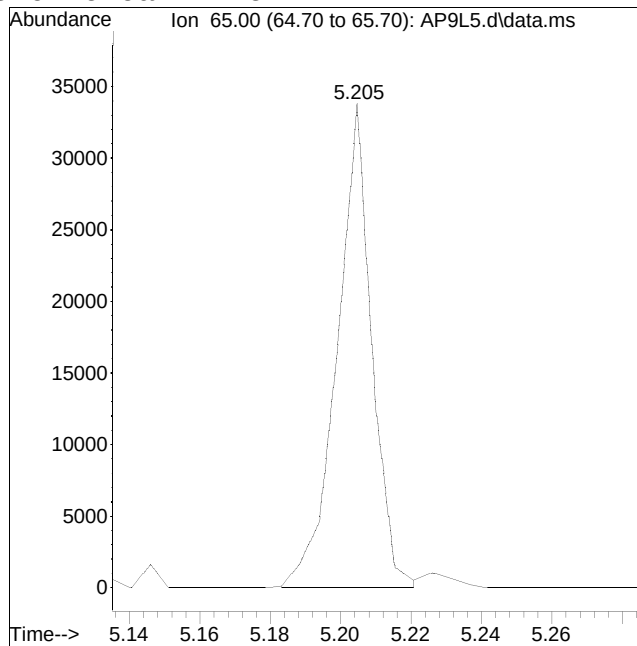
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L5.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 9:05 pm Instrument : GCMS5  
Sample : IL16,32,,AP9L10 Lot# 8072 Quant Date : 6/10/2019 11:54 am

## Compound #57: 3-Chloroaniline



Original Peak Response = 23741

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 23061 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L4.d  
 Acq On : 9 Jun 2019 9:31 pm  
 Operator : gcms5:ek  
 Sample : IL17,32,,AP9L5 Lot# 8071  
 Misc : wg1246641,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 10 14:12:54 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 14:12:44 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 152554   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 87.80% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 565992   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 85.78% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 337065   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 84.17% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 693976   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 85.61% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 17390    | 5.344 | ug/ml  | 95     |
| 29) Acetophenone              | 4.414 | 105  | 30624    | 4.983 | ug/ml# | 94     |
| 30) m-Toluidine               | 4.484 | 106  | 28315    | 5.193 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 4.799 | 127  | 29228    | 5.059 | ug/ml  | 97     |
| 56) a-Terpineol               | 5.194 | 59   | 15514    | 4.714 | ug/ml  | 100    |
| 57) 3-Chloroaniline           | 5.205 | 65   | 9393     | 5.282 | ug/ml  | 94     |
| 58) 2,6-Dichlorophenol        | 5.226 | 162  | 19978    | 4.892 | ug/ml  | 97     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 8257     | 4.583 | ug/ml# | 85     |
| 60) Caprolactam               | 5.472 | 55   | 7379     | 3.676 | ug/ml# | 81     |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 28025    | 5.061 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.129 | 154  | 63750    | 5.330 | ug/ml  | 96     |
| 84) Dichloran                 | 7.539 | 206  | 4232     | 5.264 | ug/ml  | 99     |
| 85) Pentachloronitrobenzene   | 7.668 | 237  | 5969     | 3.870 | ug/ml  | 98     |
| 99) Diphenamid                | 8.618 | 167  | 32678    | 4.145 | ug/ml  | 93     |

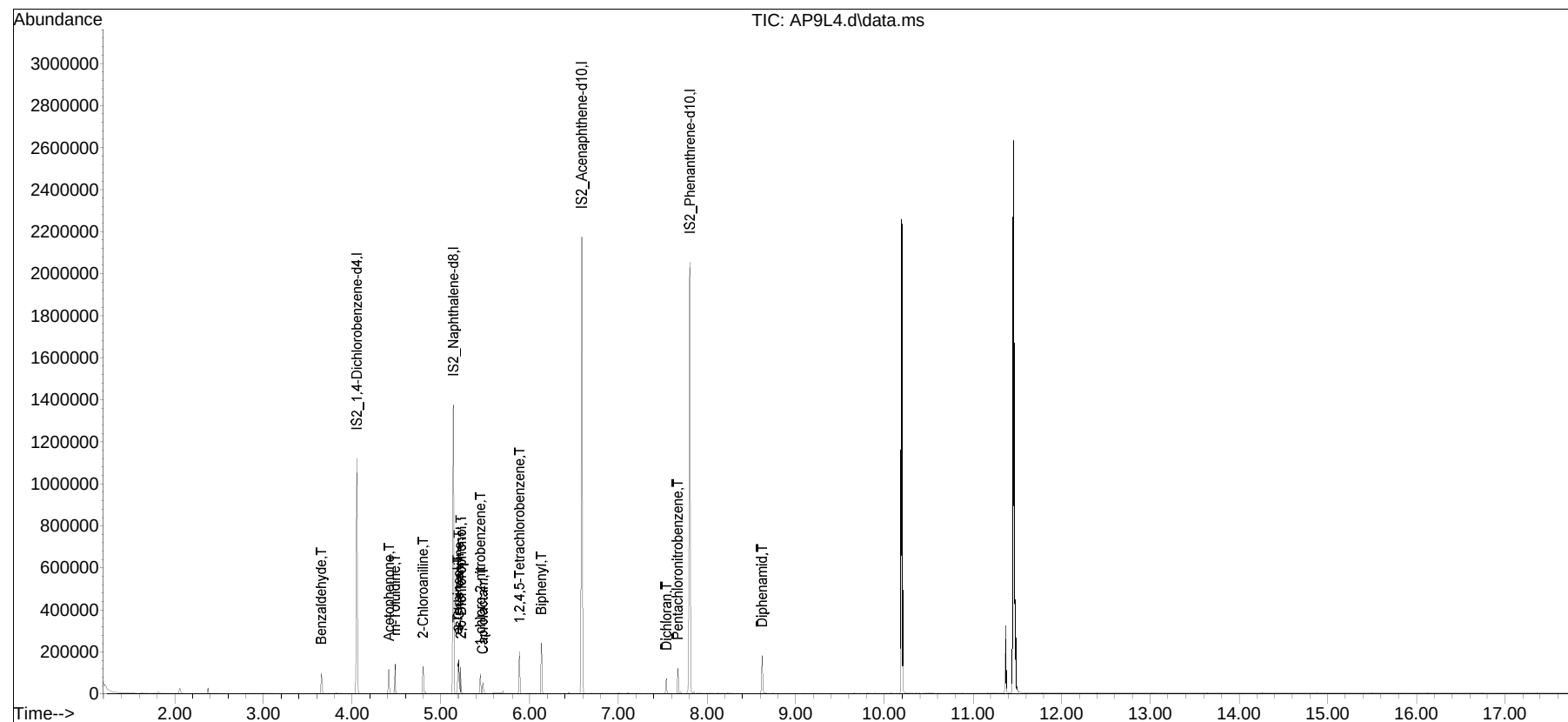
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L4.d  
 Acq On : 9 Jun 2019 9:31 pm  
 Operator : gcms5:ek  
 Sample : IL17,32,,AP9L5 Lot# 8071  
 Misc : wg1246641,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 10 14:12:54 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 14:12:44 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L4.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 9:31 pm Instrument : GCMS5  
Sample : IL17,32,,AP9L5 Lot# 8071 Quant Date : 6/10/2019 2:12 pm

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L3.d  
 Acq On : 9 Jun 2019 9:56 pm  
 Operator : gcms5:ek  
 Sample : IL18,32,,AP9L3 Lot# 8070  
 Misc : wg1246641,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 10 14:04:59 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 153247   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 88.20% |          |
| 55) IS2_Naphthalene-d8        | 5.141 | 136  | 567095   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 85.95% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 333897   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 83.38% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 698269   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 86.14% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.655 | 105  | 9575     | 2.708 | ug/ml  | 98     |
| 29) Acetophenone              | 4.414 | 105  | 17522    | 2.699 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.484 | 106  | 16546    | 2.650 | ug/ml  | 96     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 16955    | 2.778 | ug/ml  | 97     |
| 56) a-Terpineol               | 5.194 | 59   | 9283     | 2.540 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 5231M6   | 2.771 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.226 | 162  | 11088    | 2.439 | ug/ml  | 96     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 5118     | 2.607 | ug/ml# | 81     |
| 60) Caprolactam               | 5.472 | 55   | 3151M6   | 1.443 | ug/ml  |        |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 17426    | 3.119 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.129 | 154  | 37402    | 3.126 | ug/ml  | 99     |
| 84) Dichloran                 | 7.539 | 206  | 1795     | 1.145 | ug/ml# | 74     |
| 85) Pentachloronitrobenzene   | 7.667 | 237  | 2632     | 1.646 | ug/ml# | 81     |
| 99) Diphenamid                | 8.618 | 167  | 17112    | 1.985 | ug/ml  | 94     |

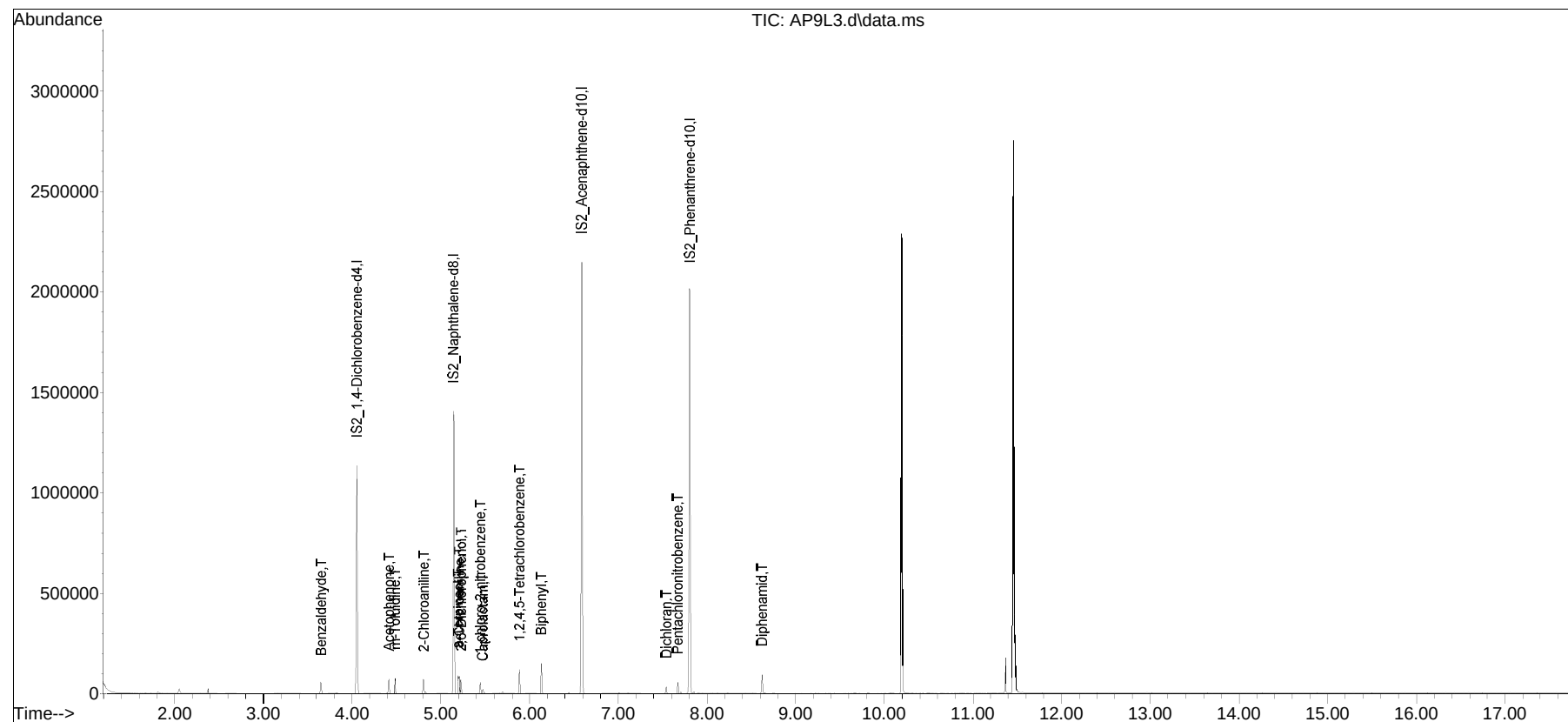
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L3.d  
 Acq On : 9 Jun 2019 9:56 pm  
 Operator : gcms5:ek  
 Sample : IL18,32,,AP9L3 Lot# 8070  
 Misc : wg1246641,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 10 14:04:59 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

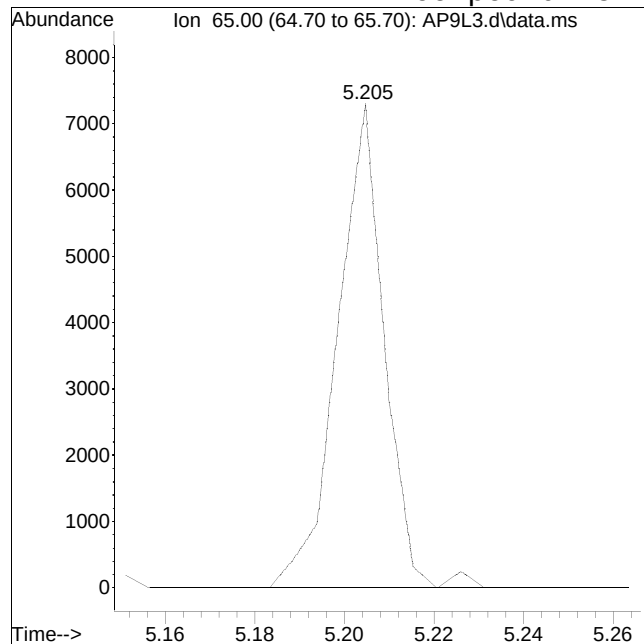
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

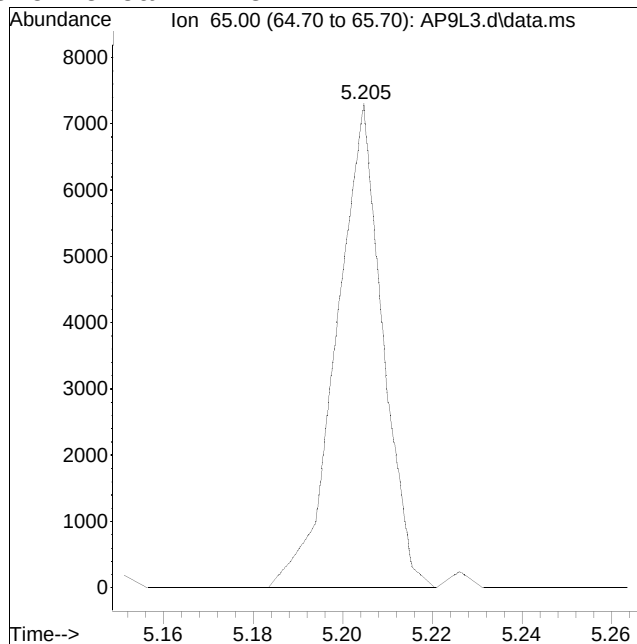
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L3.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 9:56 pm Instrument : GCMS5  
Sample : IL18,32,,AP9L3 Lot# 8070 Quant Date : 6/10/2019 11:54 am

## Compound #57: 3-Chloroaniline



Original Peak Response = 5307

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

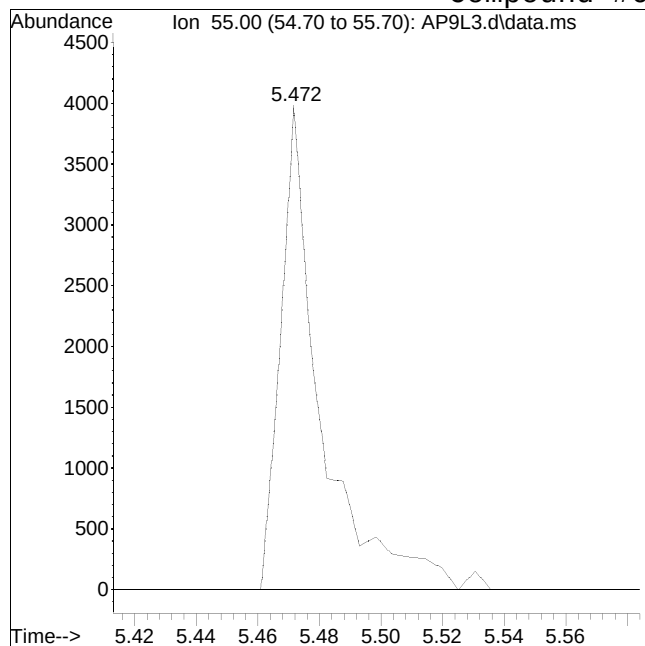


Manual Peak Response = 5231 M6

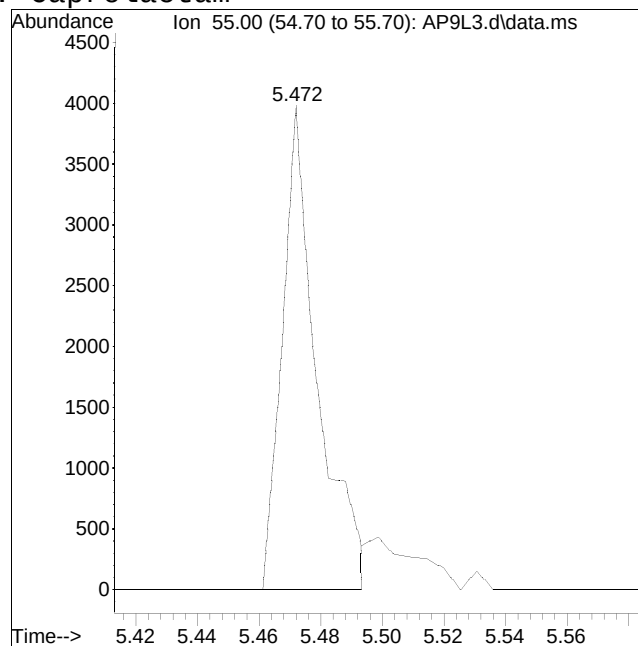
# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L3.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 9:56 pm Instrument : GCMS5  
Sample : IL18,32,,AP9L3 Lot# 8070 Quant Date : 6/10/2019 11:54 am

## Compound #60: Caprolactam



Original Peak Response = 3659



Manual Peak Response = 3151 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L2.d  
 Acq On : 9 Jun 2019 10:22 pm  
 Operator : gcms5:ek  
 Sample : IL19,32,,AP9L2 Lot# 8069  
 Misc : wg1246641,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 10 14:03:04 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 166365   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 95.75% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 583800   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 88.48% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 336109   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 83.93% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 691415   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 85.29% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.655 | 105  | 6849     | 1.785 | ug/ml  | 98     |
| 29) Acetophenone              | 4.414 | 105  | 12724    | 1.806 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.483 | 106  | 10539    | 1.555 | ug/ml  | 95     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 12128    | 1.830 | ug/ml  | 95     |
| 56) a-Terpineol               | 5.194 | 59   | 6350     | 1.688 | ug/ml  | 93     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 3666     | 1.886 | ug/ml  | 98     |
| 58) 2,6-Dichlorophenol        | 5.226 | 162  | 7340     | 1.568 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 3049     | 1.509 | ug/ml  | 85     |
| 60) Caprolactam               | 5.472 | 55   | 2127     | 0.946 | ug/ml# | 83     |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 11732    | 2.040 | ug/ml  | 98     |
| 62) Biphenyl                  | 6.134 | 154  | 25187    | 2.045 | ug/ml  | 98     |
| 84) Dichloran                 | 7.539 | 206  | 827      | 0.524 | ug/ml# | 52     |
| 85) Pentachloronitrobenzene   | 7.667 | 237  | 1664     | 1.034 | ug/ml  | 96     |
| 99) Diphenamid                | 8.618 | 167  | 10010    | 1.173 | ug/ml# | 89     |

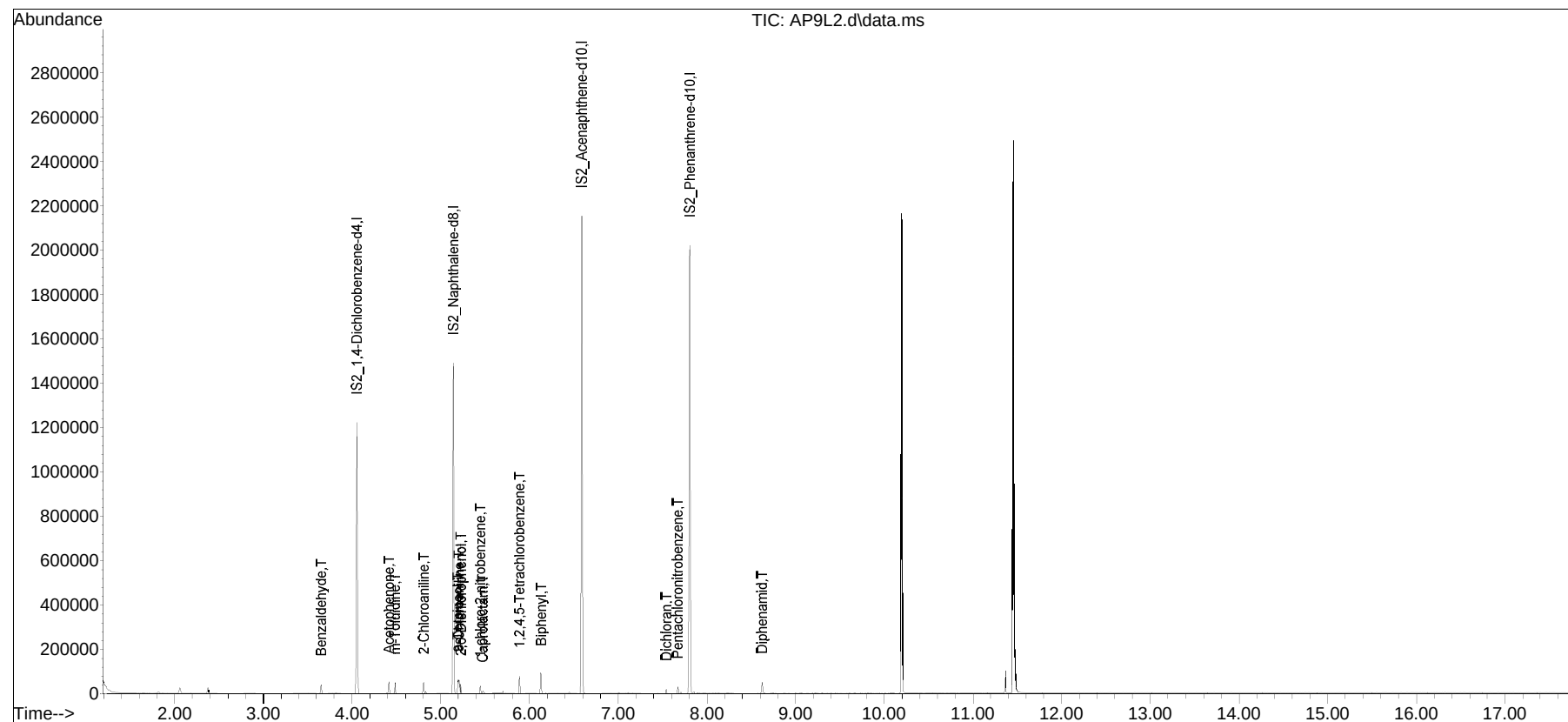
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L2.d  
 Acq On : 9 Jun 2019 10:22 pm  
 Operator : gcms5:ek  
 Sample : IL19,32,,AP9L2 Lot# 8069  
 Misc : wg1246641,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 10 14:03:04 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L2.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 10:22 pm Instrument : GCMS5  
Sample : IL19,32,,AP9L2 Lot# 8069 Quant Date : 6/10/2019 11:54 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L1.d  
 Acq On : 9 Jun 2019 10:48 pm  
 Operator : gcms5:ek  
 Sample : IL20,32,,AP9L1 Lot# 8068  
 Misc : wg1246641,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 10 14:00:00 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 153564   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 88.39% |          |
| 55) IS2_Naphthalene-d8        | 5.141 | 136  | 557041   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 84.42% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 337529   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 84.29% |          |
| 98) IS2_Phenanthrene-d10      | 7.801 | 188  | 681952   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 84.12% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.655 | 105  | 3481     | 0.983 | ug/ml  | 94     |
| 29) Acetophenone              | 4.414 | 105  | 6252     | 0.961 | ug/ml# | 90     |
| 30) m-Toluidine               | 4.484 | 106  | 4907     | 0.784 | ug/ml# | 98     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 5901     | 0.965 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.194 | 59   | 2930     | 0.816 | ug/ml  | 97     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 1896     | 1.022 | ug/ml  | 91     |
| 58) 2,6-Dichlorophenol        | 5.226 | 162  | 3169     | 0.710 | ug/ml  | 96     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 1547     | 0.802 | ug/ml# | 87     |
| 60) Caprolactam               | 5.477 | 55   | 807      | 0.376 | ug/ml# | 24     |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 5836     | 1.064 | ug/ml  | 98     |
| 62) Biphenyl                  | 6.129 | 154  | 13000    | 1.106 | ug/ml  | 97     |
| 84) Dichloran                 | 7.539 | 206  | 554M2    | 0.350 | ug/ml  |        |
| 85) Pentachloronitrobenzene   | 7.673 | 237  | 747      | 0.462 | ug/ml# | 47     |
| 99) Diphenamid                | 8.618 | 167  | 4584     | 0.544 | ug/ml# | 90     |

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

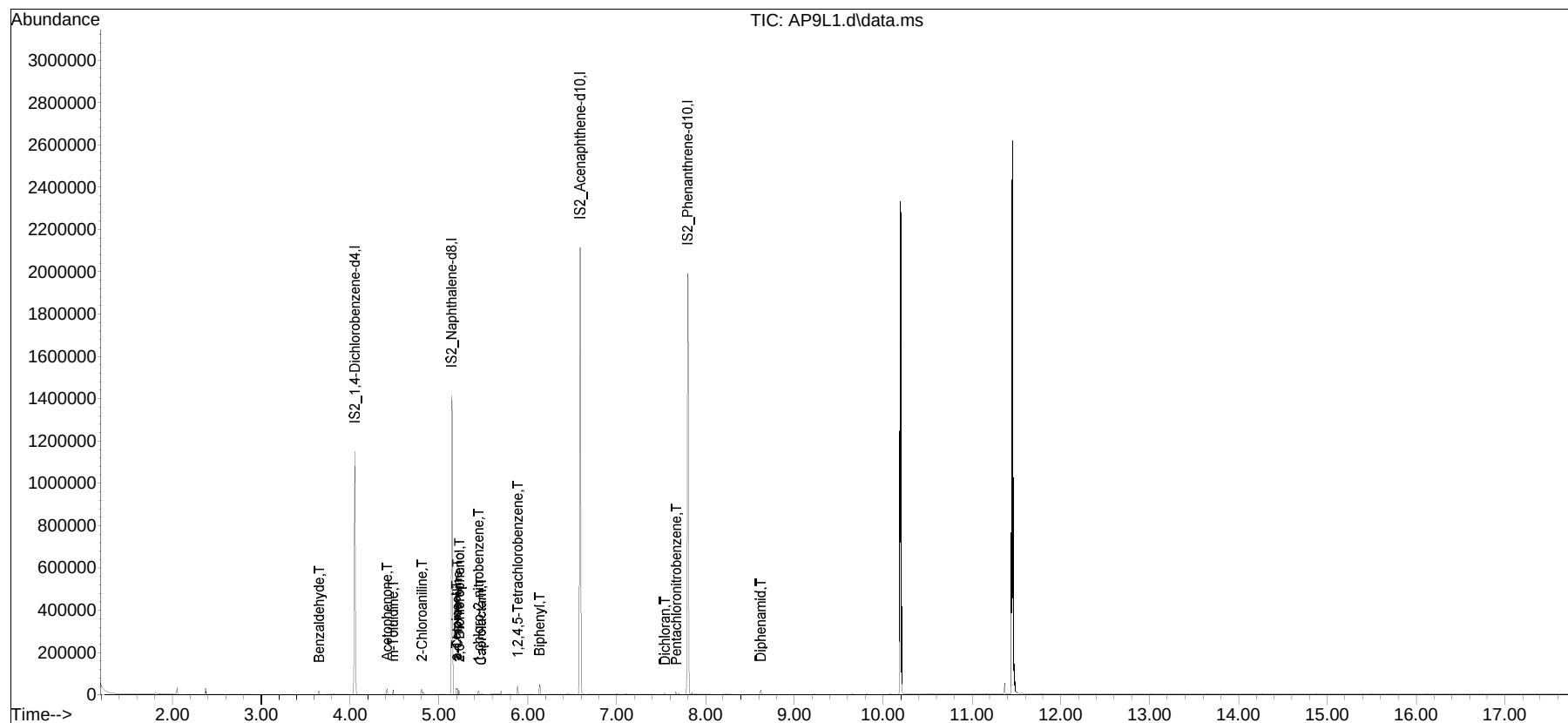


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9L1.d  
 Acq On : 9 Jun 2019 10:48 pm  
 Operator : gcms5:ek  
 Sample : IL20,32,,AP9L1 Lot# 8068  
 Misc : wg1246641,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 10 14:00:00 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

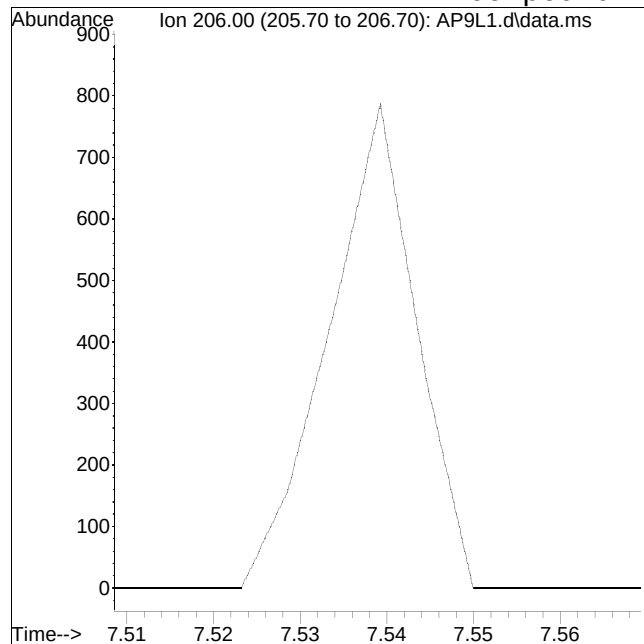
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

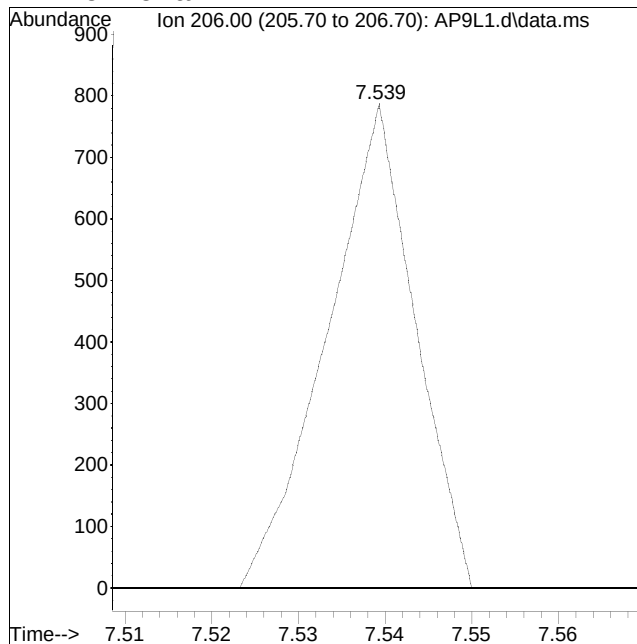
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9L1.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 10:48 pm Instrument : GCMS5  
Sample : IL20,32,,AP9L1 Lot# 8068 Quant Date : 6/10/2019 11:53 am

## Compound #84: Dichloran



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 554 M2

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNICV.d  
 Acq On : 9 Jun 2019 11:14 pm  
 Operator : gcms5:ek  
 Sample : CQICV1,32,,ABNICV Lot# 8066  
 Misc : wg1246641,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 16:17:13 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|------|-----------------------------|----------|--------|------|-------|----------|
| 1 I  | IS1_1,4-Dichlorobenzene-d4  | 1.000    | 1.000  | 0.0  | 87    | 0.00     |
| 2 t  | n-Nitrosodimethylamine      | 0.714    | 0.676  | 5.3  | 83    | 0.00     |
| 3 t  | Pyridine                    | 1.267    | 1.146  | 9.6  | 78    | 0.00     |
| 4 S  | 2-Fluorophenol              | 1.106    | 1.061  | 4.1  | 83    | 0.00     |
| 5 T  | Aniline                     | 1.797    | 1.705  | 5.1  | 85    | 0.00     |
| 6 t  | 2-Chlorophenol              | 1.244    | 1.184  | 4.8  | 82    | 0.00     |
| 7 S  | Phenol-d6                   | 1.339    | 1.278  | 4.6  | 83    | 0.00     |
| 8 T  | Phenol                      | 1.568    | 1.518  | 3.2  | 85    | 0.00     |
| 9 T  | Bis(2-chloroethyl)ether     | 1.062    | 0.980  | 7.7  | 83    | 0.00     |
| 10 T | 1,3-Dichlorobenzene         | 1.524    | 1.391  | 8.7  | 83    | 0.00     |
| 11 T | 1,4-Dichlorobenzene         | 1.528    | 1.435  | 6.1  | 85    | 0.00     |
| 12 T | 1,2-Dichlorobenzene         | 1.426    | 1.326  | 7.0  | 83    | 0.00     |
| 13 t | Benzyl alcohol              | 0.914    | 0.909  | 0.5  | 84    | 0.00     |
| 14 T | Bis(2-chloroisopropyl)ether | 1.856    | 1.692  | 8.8  | 82    | 0.00     |
| 15 T | 2-Methylphenol              | 1.072    | 1.074  | -0.2 | 84    | 0.00     |
| 16 T | Hexachloroethane            | 0.577    | 0.541  | 6.2  | 82    | 0.00     |
| 17 T | n-Nitrosodi-n-propylamine   | 0.824    | 0.797  | 3.3  | 81    | 0.00     |
| 18 T | 3-Methylphenol/4-Methylphen | 1.162    | 1.150  | 1.0  | 84    | 0.00     |
| 19 S | Nitrobenzene-d5             | 1.200    | 1.170  | 2.5  | 81    | 0.00     |
| 20 T | Nitrobenzene                | 1.231    | 1.200  | 2.5  | 83    | 0.00     |
| 21 T | Isophorone                  | 2.161    | 2.097  | 3.0  | 83    | 0.00     |
| 22 T | 2-Nitrophenol               | 0.646    | 0.587  | 9.1  | 76    | 0.00     |
| 23 T | 2,4-Dimethylphenol          | 1.200    | 1.154  | 3.8  | 81    | 0.00     |
| 24 T | Bis(2-chloroethoxy)methane  | 1.480    | 1.358  | 8.2  | 82    | 0.00     |
| 25 T | 2,4-Dichlorophenol          | 1.192    | 1.184  | 0.7  | 81    | 0.00     |
| 26 T | 1,2,4-Trichlorobenzene      | 1.424    | 1.287  | 9.6  | 81    | 0.00     |
| 35 I | IS1_Naphthalene-d8          | 1.000    | 1.000  | 0.0  | 86    | 0.00     |
| 36 T | Naphthalene                 | 1.015    | 0.953  | 6.1  | 84    | 0.00     |
| 37 T | Benzoic Acid                | * 50.000 | 41.342 | 17.3 | 71    | 0.00     |
| 38 T | 4-Chloroaniline             | 0.125    | 0.119  | 4.8  | 85    | 0.00     |
| 39 T | Hexachlorobutadiene         | 0.220    | 0.206  | 6.4  | 82    | 0.00     |
| 40 T | p-Chloro-m-cresol           | 0.281    | 0.283  | -0.7 | 80    | 0.00     |
| 41 T | 2-Methylnaphthalene         | 0.739    | 0.674  | 8.8  | 80    | 0.00     |
| 42 T | 1-Methylnaphthalene         | 0.244    | 0.217  | 11.1 | 80    | 0.00     |
| 43 T | Hexachlorocyclopentadiene   | 0.277    | 0.254  | 8.3  | 76    | 0.00     |
| 44 T | 2,4,6-Trichlorophenol       | 0.249    | 0.239  | 4.0  | 79    | 0.00     |
| 45 T | 2,4,5-Trichlorophenol       | 0.264    | 0.257  | 2.7  | 79    | 0.00     |
| 46 S | 2-Fluorobiphenyl            | 0.862    | 0.786  | 8.8  | 82    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNICV.d  
 Acq On : 9 Jun 2019 11:14 pm  
 Operator : gcms5:ek  
 Sample : CQICV1,32,,ABNICV Lot# 8066  
 Misc : wg1246641,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 16:17:13 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|------|-----------------------------|----------|--------|------|-------|----------|
| 47 T | 2-Chloronaphthalene         | 0.747    | 0.688  | 7.9  | 82    | 0.00     |
| 48 T | 2-Nitroaniline              | 0.223    | 0.223  | 0.0  | 81    | 0.00     |
| 49 T | 1,4-Dinitrobenzene          | 0.093    | 0.090  | 3.2  | 78    | 0.00     |
| 50 T | 1,3-Dinitrobenzene          | 0.104    | 0.101  | 2.9  | 81    | 0.00     |
| 51 T | Dimethyl phthalate          | 0.844    | 0.788  | 6.6  | 82    | 0.00     |
| 52 T | Acenaphthylene              | 1.151    | 1.098  | 4.6  | 84    | 0.00     |
| 53 T | 2,6-Dinitrotoluene          | 0.174    | 0.175  | -0.6 | 82    | 0.00     |
| 54 T | 1,2-Dinitrobenzene          | 0.063    | 0.058  | 7.9  | 79    | 0.00     |
| 63 I | IS1_Acenaphthene-d10        | 1.000    | 1.000  | 0.0  | 86    | 0.00     |
| 64 T | 3-Nitroaniline              | 0.338    | 0.343  | -1.5 | 83    | 0.00     |
| 65 T | Acenaphthene                | 1.168    | 1.053  | 9.8  | 84    | 0.00     |
| 66 T | 2,4-Dinitrophenol           | * 50.000 | 40.028 | 19.9 | 71    | 0.00     |
| 67 T | Dibenzofuran                | 1.763    | 1.609  | 8.7  | 83    | 0.00     |
| 68 T | 2,4-Dinitrotoluene          | 0.380    | 0.373  | 1.8  | 80    | 0.00     |
| 69 T | 4-Nitrophenol               | 0.241    | 0.245  | -1.7 | 83    | 0.00     |
| 70 T | 2,3,5,6-Tetrachlorophenol   | 0.403    | 0.386  | 4.2  | 79    | 0.00     |
| 71 T | 2,3,4,6-Tetrachlorophenol   | 0.431    | 0.395  | 8.4  | 78    | 0.00     |
| 72 T | Diethyl phthalate           | 1.438    | 1.354  | 5.8  | 82    | 0.00     |
| 73 T | Fluorene                    | 1.400    | 1.285  | 8.2  | 80    | 0.00     |
| 74 T | 4-Chlorophenyl phenyl ether | 0.714    | 0.630  | 11.8 | 79    | 0.00     |
| 75 T | 4-Nitroaniline              | 0.363    | 0.375  | -3.3 | 86    | 0.00     |
| 76 T | 4,6-Dinitro-o-cresol        | 0.221    | 0.220  | 0.5  | 80    | 0.00     |
| 77 T | NDPA/DPA                    | 1.194    | 1.113  | 6.8  | 83    | 0.00     |
| 78 T | Azobenzene                  | 1.279    | 1.225  | 4.2  | 83    | 0.00     |
| 79 S | 2,4,6-Tribromophenol        | 0.264    | 0.254  | 3.8  | 79    | 0.00     |
| 80 T | 4-Bromophenyl phenyl ether  | 0.461    | 0.424  | 8.0  | 80    | 0.00     |
| 81 T | Hexachlorobenzene           | 0.547    | 0.493  | 9.9  | 81    | 0.00     |
| 82 T | Pentachlorophenol           | * 50.000 | 46.636 | 6.7  | 81    | 0.00     |
| 88 I | IS1_Phenanthrene-d10        | 1.000    | 1.000  | 0.0  | 86    | 0.00     |
| 89 T | Phenanthrene                | 1.139    | 1.035  | 9.1  | 83    | 0.00     |
| 90 T | Anthracene                  | 1.119    | 1.070  | 4.4  | 83    | 0.00     |
| 91 T | Carbazole                   | 1.030    | 1.011  | 1.8  | 83    | 0.00     |
| 92 T | Di-n-butylphthalate         | 1.124    | 1.161  | -3.3 | 79    | 0.00     |
| 93 T | Fluoranthene                | 1.328    | 1.291  | 2.8  | 82    | 0.00     |
| 94 T | Benzidine                   | 0.814    | 0.870  | -6.9 | 82    | 0.00     |
| 95 T | Pyrene                      | 1.434    | 1.402  | 2.2  | 83    | 0.00     |
| 96 S | 4-Terphenyl-d14             | 0.890    | 0.849  | 4.6  | 81    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNICV.d  
 Acq On : 9 Jun 2019 11:14 pm  
 Operator : gcms5:ek  
 Sample : CQICV1,32,,ABNICV Lot# 8066  
 Misc : wg1246641,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 16:17:13 2019  
 Response via : Initial Calibration

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

|       | Compound                     | AvgRF  | CCRF   | %Dev | Area% | Dev(min) |
|-------|------------------------------|--------|--------|------|-------|----------|
| 97 T  | Butyl benzyl phthalate       | 0.531  | 0.543  | -2.3 | 79    | 0.00     |
| 104 I | IS1_Chrysene-d12             | 1.000  | 1.000  | 0.0  | 88    | 0.00     |
| 105 T | Benzo(a)anthracene           | 1.244  | 1.186  | 4.7  | 85    | 0.00     |
| 106 T | 3,3'-Dichlorobenzidine       | 0.468  | 0.468  | 0.0  | 81    | 0.00     |
| 107 T | Chrysene                     | 1.327  | 1.200  | 9.6  | 85    | 0.00     |
| 108 T | Bis(2-ethylhexyl)phthalate * | 50.000 | 48.947 | 2.1  | 82    | 0.00     |
| 109 T | Di-n-octylphthalate          | 1.272  | 1.314  | -3.3 | 82    | 0.00     |
| 110 T | Benzo(b)fluoranthene         | 1.365  | 1.327  | 2.8  | 87    | 0.00     |
| 111 T | Benzo(k)fluoranthene         | 1.286  | 1.329  | -3.3 | 87    | 0.00     |
| 112 T | Benzo(a)pyrene               | 1.301  | 1.354  | -4.1 | 90    | 0.00     |
| 113 I | IS1_Perylene-d12             | 1.000  | 1.000  | 0.0  | 95    | 0.00     |
| 114 T | Indeno(1,2,3-cd)pyrene       | 1.053  | 1.060  | -0.7 | 92    | 0.00     |
| 115 T | Dibenzo(a,h)anthracene       | 1.035  | 1.045  | -1.0 | 92    | 0.00     |
| 116 T | Benzo(ghi)perylene           | 1.126  | 1.088  | 3.4  | 88    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNICV.d  
 Acq On : 9 Jun 2019 11:14 pm  
 Operator : gcms5:ek  
 Sample : CQICV1,32,,ABNICV Lot# 8066  
 Misc : wg1246641,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 16:17:13 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.051          | 152  | 170672              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 196746      |                |      | Recovery = 86.75%   |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.146          | 136  | 629635              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 730484      |                |      | Recovery = 86.19%   |        |        |          |
| 63) IS1_Acenaphthene-d10      | 6.588          | 164  | 378070              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 439902      |                |      | Recovery = 85.94%   |        |        |          |
| 88) IS1_Phenanthrene-d10      | 7.806          | 188  | 749521              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 874720      |                |      | Recovery = 85.69%   |        |        |          |
| 104) IS1_Chrysene-d12         | 10.200         | 240  | 807269              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 915891      |                |      | Recovery = 88.14%   |        |        |          |
| 113) IS1_Perylene-d12         | 11.455         | 264  | 1054313             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 1113253     |                |      | Recovery = 94.71%   |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 4) 2-Fluorophenol             | 2.854          | 112  | 226315              | 47.955 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 95.91%   |        |        |          |
| 7) Phenol-d6                  | 3.757          | 99   | 272619              | 47.724 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 95.45%   |        |        |          |
| 19) Nitrobenzene-d5           | 4.537          | 82   | 249710              | 48.774 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 195.10%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.059          | 172  | 618513              | 45.565 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 182.26%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 7.229          | 330  | 120215              | 48.262 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 96.52%   |        |        |          |
| 96) 4-Terphenyl-d14           | 9.249          | 244  | 795879              | 47.745 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 190.98%# |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.583          | 74   | 144298              | 47.392 | ug/ml# | 95       |
| 3) Pyridine                   | 1.609          | 79   | 244425              | 45.209 | ug/ml  | 98       |
| 5) Aniline                    | 3.757          | 93   | 363761              | 47.452 | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 3.864          | 128  | 252536              | 47.585 | ug/ml  | 99       |
| 8) Phenol                     | 3.768          | 94   | 323760              | 48.383 | ug/ml  | 98       |
| 9) Bis(2-chloroethyl)ether    | 3.837          | 93   | 209115              | 46.152 | ug/ml  | 91       |
| 10) 1,3-Dichlorobenzene       | 3.997          | 146  | 296790              | 45.643 | ug/ml  | 98       |
| 11) 1,4-Dichlorobenzene       | 4.067          | 146  | 306047              | 46.944 | ug/ml  | 98       |
| 12) 1,2-Dichlorobenzene       | 4.195          | 146  | 282856              | 46.478 | ug/ml  | 100      |
| 13) Benzyl alcohol            | 4.190          | 79   | 193910              | 49.741 | ug/ml  | 99       |
| 14) Bis(2-chloroisopropyl)... | 4.323          | 45   | 361053              | 45.594 | ug/ml# | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNICV.d  
 Acq On : 9 Jun 2019 11:14 pm  
 Operator : gcms5:ek  
 Sample : CQICV1,32,,ABNICV Lot# 8066  
 Misc : wg1246641,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 16:17:13 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.307 | 108  | 229134   | 50.078 | ug/ml  | 98       |
| 16) | Hexachloroethane          | 4.489 | 117  | 115426   | 46.890 | ug/ml  | 87       |
| 17) | n-Nitrosodi-n-propylamine | 4.430 | 70   | 170077   | 48.349 | ug/ml# | 90       |
| 18) | 3-Methylphenol/4-Methy... | 4.446 | 108  | 245412   | 49.498 | ug/ml  | 98       |
| 20) | Nitrobenzene              | 4.553 | 77   | 255932   | 48.742 | ug/ml  | 97       |
| 21) | Isophorone                | 4.767 | 82   | 447278   | 48.518 | ug/ml  | 95       |
| 22) | 2-Nitrophenol             | 4.831 | 139  | 125228   | 45.455 | ug/ml# | 91       |
| 23) | 2,4-Dimethylphenol        | 4.900 | 107  | 246261   | 48.110 | ug/ml  | 98       |
| 24) | Bis(2-chloroethoxy)met... | 4.975 | 93   | 289760   | 45.895 | ug/ml# | 97       |
| 25) | 2,4-Dichlorophenol        | 5.039 | 162  | 252671   | 49.663 | ug/ml  | 98       |
| 26) | 1,2,4-Trichlorobenzene    | 5.108 | 180  | 274516   | 45.193 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.162 | 128  | 749664   | 46.917 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.002 | 105  | 162289   | 41.342 | ug/ml# | 1        |
| 38) | 4-Chloroaniline           | 5.221 | 65   | 93347    | 47.475 | ug/ml  | 94       |
| 39) | Hexachlorobutadiene       | 5.290 | 225  | 161797   | 46.675 | ug/ml  | 100      |
| 40) | p-Chloro-m-cresol         | 5.648 | 107  | 222732   | 50.298 | ug/ml  | 98       |
| 41) | 2-Methylnaphthalene       | 5.744 | 142  | 530656   | 45.606 | ug/ml  | 97       |
| 42) | 1-Methylnaphthalene       | 5.819 | 115  | 171062   | 44.573 | ug/ml  | 96       |
| 43) | Hexachlorocyclopentadiene | 5.888 | 237  | 199864   | 45.891 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 5.985 | 196  | 187942   | 47.917 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.006 | 196  | 201969   | 48.587 | ug/ml  | 98       |
| 47) | 2-Chloronaphthalene       | 6.140 | 162  | 541606   | 46.044 | ug/ml  | 99       |
| 48) | 2-Nitroaniline            | 6.230 | 138  | 175630   | 50.060 | ug/ml  | 96       |
| 49) | 1,4-Dinitrobenzene        | 6.343 | 168  | 71218    | 48.471 | ug/ml  | 87       |
| 50) | 1,3-Dinitrobenzene        | 6.407 | 168  | 79244    | 48.198 | ug/ml  | 90       |
| 51) | Dimethyl phthalate        | 6.401 | 163  | 619838   | 46.663 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.471 | 152  | 864459   | 47.698 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.439 | 165  | 137935   | 50.241 | ug/ml  | 98       |
| 54) | 1,2-Dinitrobenzene        | 6.471 | 168  | 45469    | 45.960 | ug/ml  | 83       |
| 64) | 3-Nitroaniline            | 6.567 | 138  | 162219   | 50.849 | ug/ml  | 97       |
| 65) | Acenaphthene              | 6.615 | 154  | 497767   | 45.093 | ug/ml  | 95       |
| 66) | 2,4-Dinitrophenol         | 6.647 | 184  | 75005    | 40.028 | ug/ml  | 96       |
| 67) | Dibenzofuran              | 6.759 | 168  | 760611   | 45.633 | ug/ml  | 98       |
| 68) | 2,4-Dinitrotoluene        | 6.759 | 165  | 176189   | 49.007 | ug/ml  | 95       |
| 69) | 4-Nitrophenol             | 6.716 | 65   | 115766   | 50.816 | ug/ml  | 91       |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.829 | 232  | 182485   | 47.892 | ug/ml  | 100      |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.866 | 232  | 186640   | 45.770 | ug/ml  | 98       |
| 72) | Diethyl phthalate         | 6.978 | 149  | 640006   | 47.074 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.032 | 166  | 607194   | 45.881 | ug/ml  | 96       |
| 74) | 4-Chlorophenyl phenyl ... | 7.048 | 204  | 297567   | 44.110 | ug/ml  | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ABNICV.d  
 Acq On : 9 Jun 2019 11:14 pm  
 Operator : gcms5:ek  
 Sample : CQICV1,32,,ABNICV Lot# 8066  
 Misc : wg1246641,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 16:17:13 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.058  | 138  | 177416    | 51.654 | ug/ml# | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.085  | 198  | 103737    | 49.552 | ug/ml  | 89       |
| 77)  | NDPA/DPA                  | 7.144  | 169  | 526121    | 46.608 | ug/ml  | 96       |
| 78)  | Azobenzene                | 7.176  | 77   | 579038    | 47.891 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.448  | 248  | 200141    | 45.965 | ug/ml  | 94       |
| 81)  | Hexachlorobenzene         | 7.491  | 284  | 233061    | 45.109 | ug/ml  | 93       |
| 82)  | Pentachlorophenol         | 7.657  | 266  | 154271    | 46.636 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 7.822  | 178  | 969238    | 45.408 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.870  | 178  | 1002792   | 47.812 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.015  | 167  | 946940    | 49.072 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.367  | 149  | 1087555   | 51.631 | ug/ml  | 100      |
| 93)  | Fluoranthene              | 8.869  | 202  | 1209942   | 48.623 | ug/ml# | 95       |
| 94)  | Benzidine                 | 9.014  | 184  | 814910    | 53.449 | ug/ml  | 97       |
| 95)  | Pyrene                    | 9.072  | 202  | 1313338   | 48.879 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.729  | 149  | 508501    | 51.069 | ug/ml# | 97       |
| 105) | Benzo(a)anthracene        | 10.189 | 228  | 1196436   | 47.668 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.194 | 252  | 472495    | 49.991 | ug/ml# | 98       |
| 107) | Chrysene                  | 10.226 | 228  | 1210482   | 45.211 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.301 | 149  | 794280    | 48.947 | ug/ml# | 91       |
| 109) | Di-n-octylphthalate       | 10.889 | 149  | 1325933   | 51.644 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 11.145 | 252  | 1339341   | 48.614 | ug/ml# | 96       |
| 111) | Benzo(k)fluoranthene      | 11.172 | 252  | 1341372   | 51.672 | ug/ml# | 96       |
| 112) | Benzo(a)pyrene            | 11.412 | 252  | 1366515   | 52.062 | ug/ml# | 95       |
| 114) | Indeno(1,2,3-cd)pyrene    | 12.283 | 276  | 1397195M6 | 50.341 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 12.304 | 278  | 1377671   | 50.483 | ug/ml# | 94       |
| 116) | Benzo(ghi)perylene        | 12.502 | 276  | 1434374   | 48.310 | ug/ml# | 92       |

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

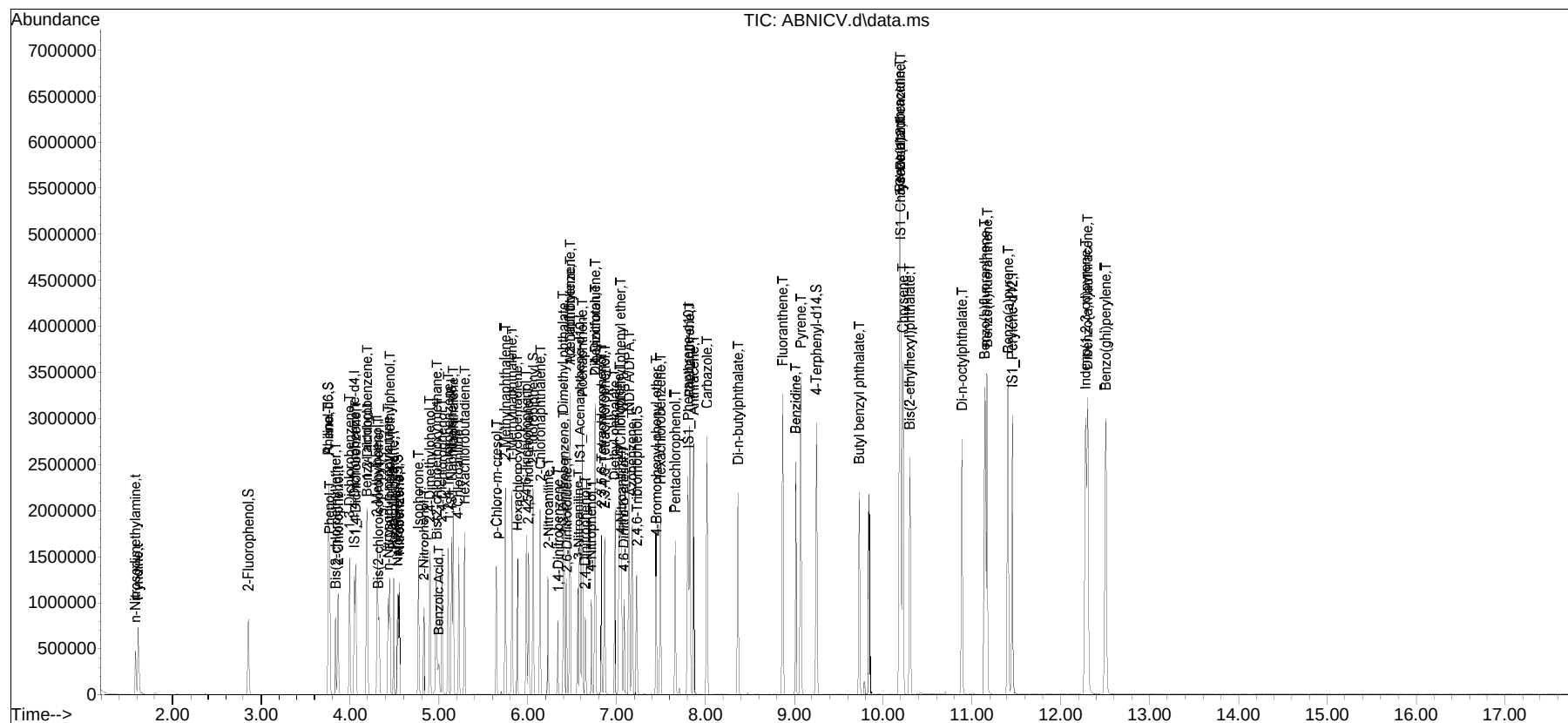


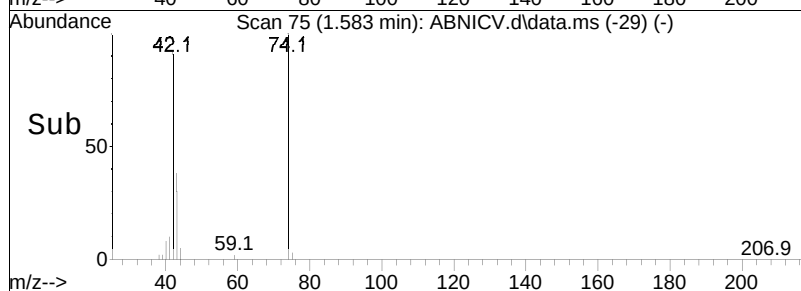
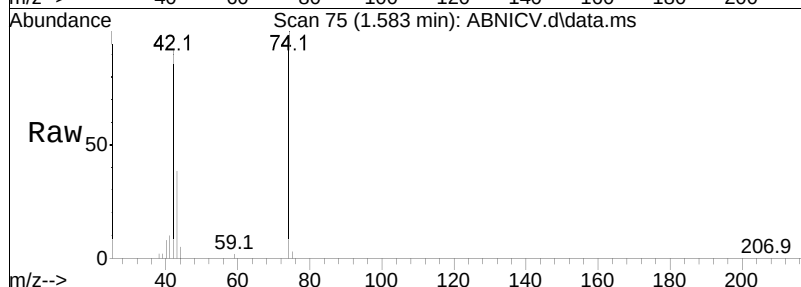
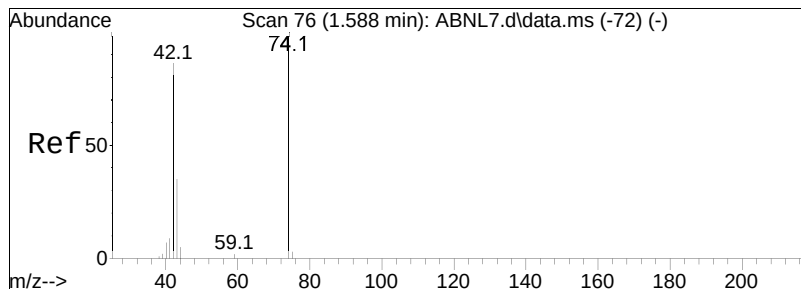
Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
Data File : ABNICV.d  
Acq On : 9 Jun 2019 11:14 pm  
Operator : gcms5:ek  
Sample : CQICV1,32,,ABNICV Lot# 8066  
Misc : wg1246641,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 10 16:17:21 2019  
Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 16:17:13 2019  
Response via : Initial Calibration

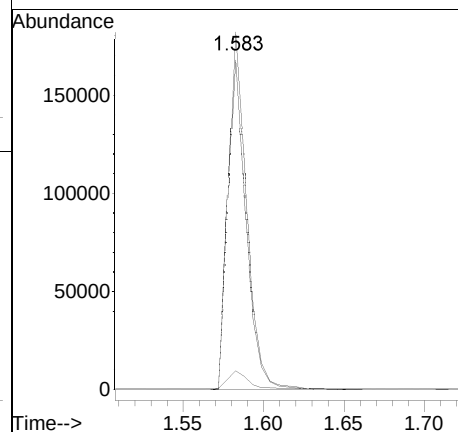
Sub List : ABNical - ABN ical sublistal\ABNL7.d•

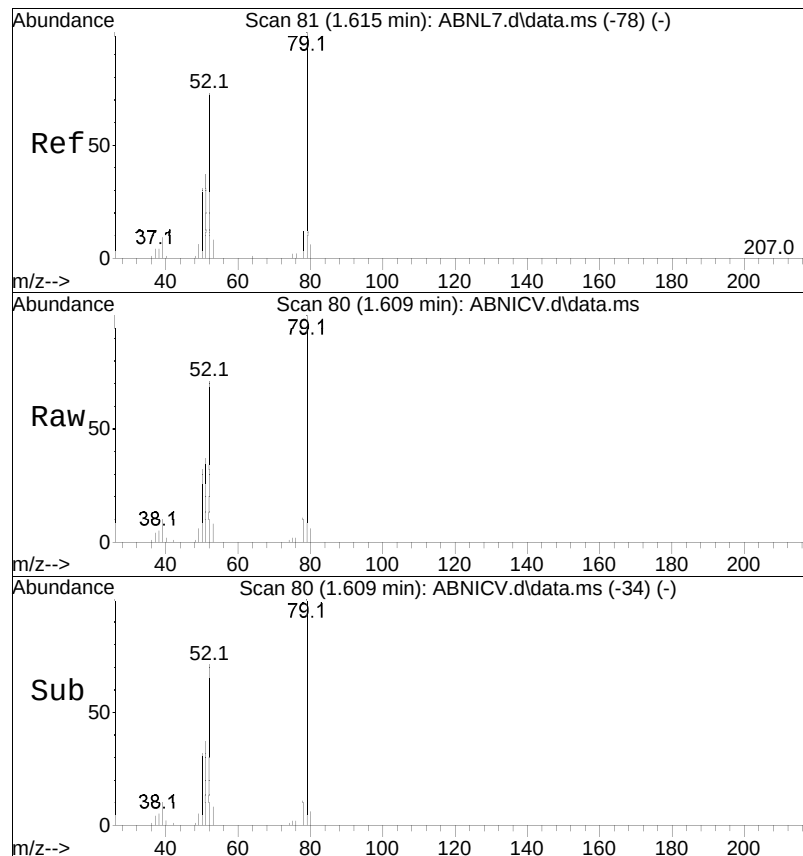




#2  
 n-Nitrosodimethylamine  
 Concen: 47.39 ug/ml  
 RT: 1.583 min Scan# 75  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

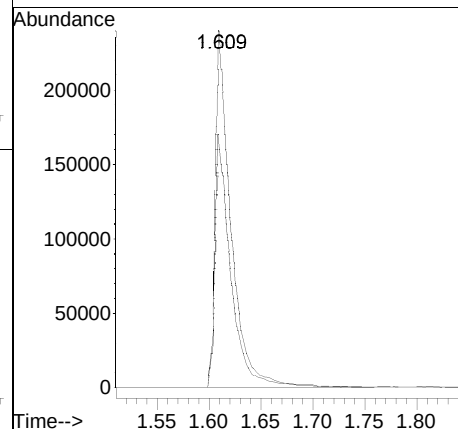
Tgt Ion: 74 Resp: 144298  
 Ion Ratio Lower Upper  
 74 100  
 42 91.8 69.4 104.2  
 44 5.4 3.5 5.3#

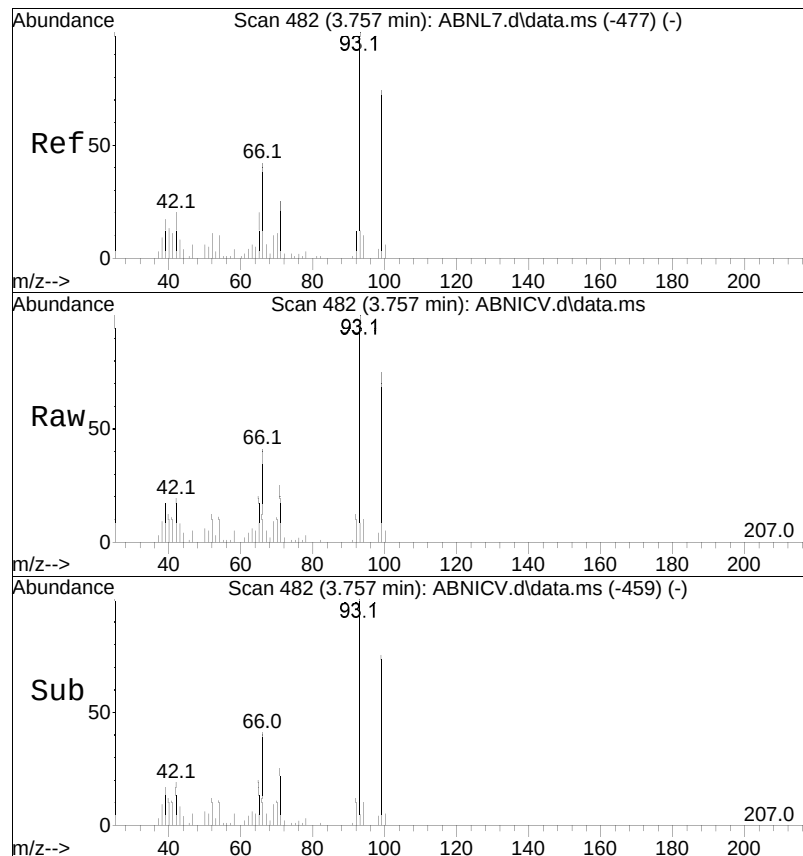




#3  
 Pyridine  
 Concen: 45.21 ug/ml  
 RT: 1.609 min Scan# 80  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

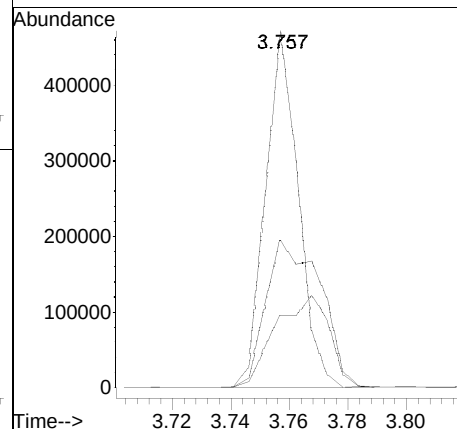
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 72.5  | 56.6  | 85.0  |

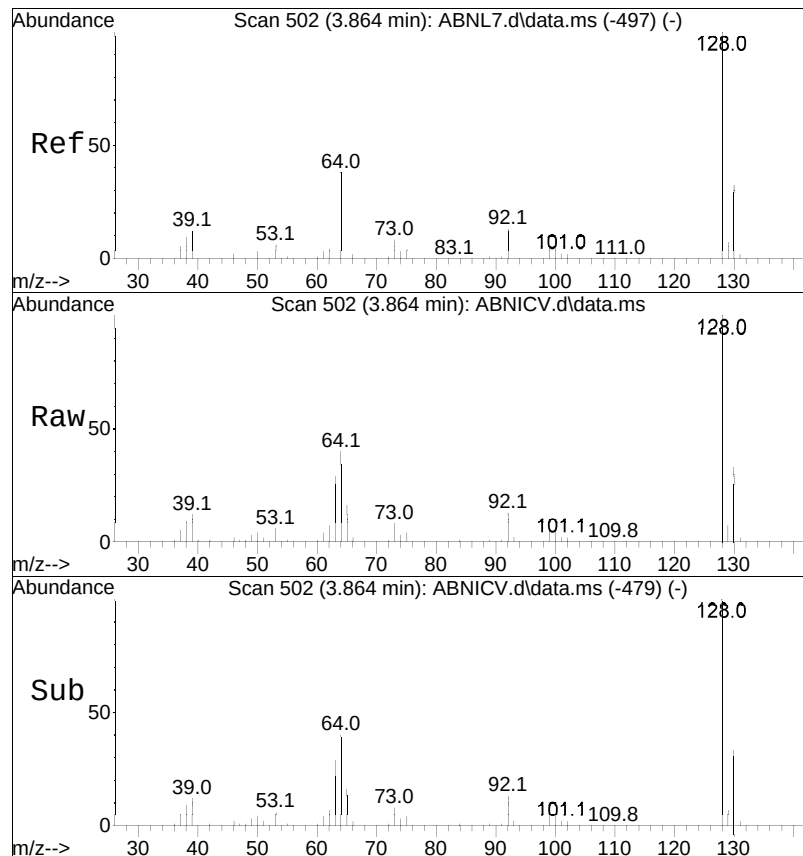




#5  
 Aniline  
 Concen: 47.45 ug/ml  
 RT: 3.757 min Scan# 482  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

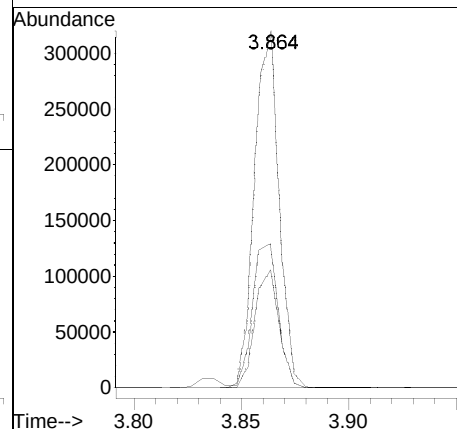
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 66      | 69.3  | 53.5  | 80.3  |
| 65      | 42.6  | 34.4  | 51.6  |

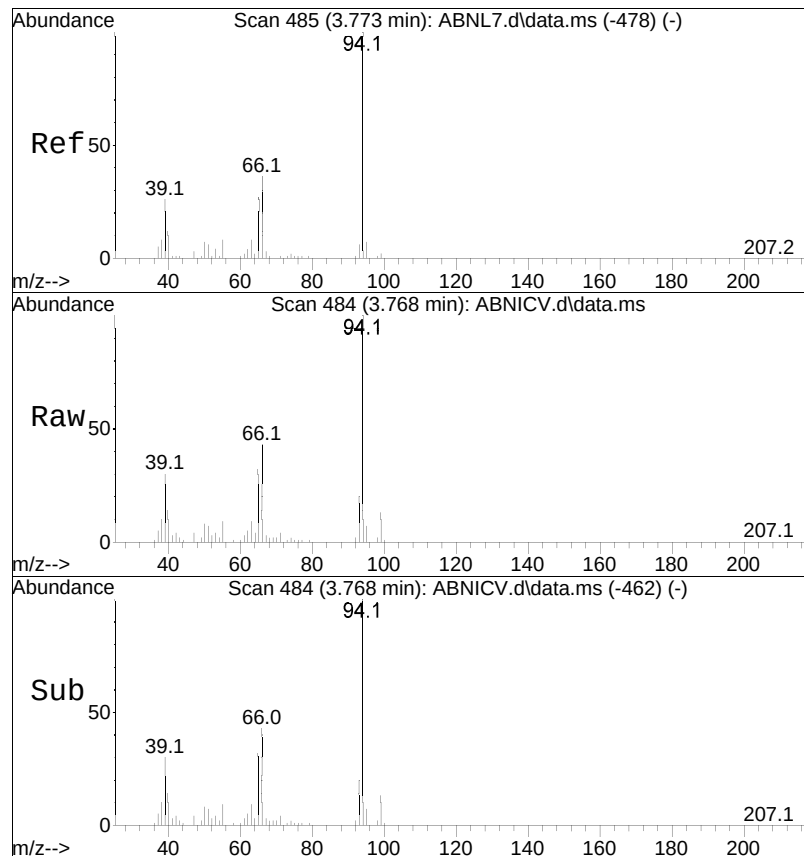




#6  
 2-Chlorophenol  
 Concen: 47.58 ug/ml  
 RT: 3.864 min Scan# 502  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

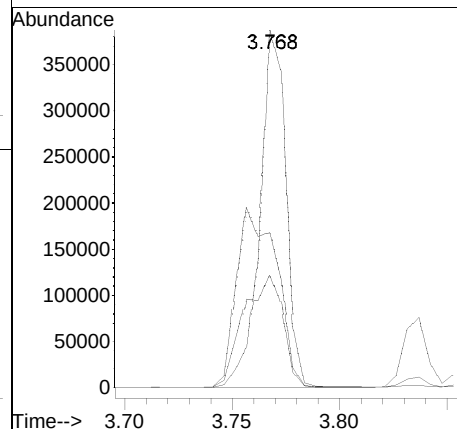
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 252536 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 64  | 42.2    | 33.5  | 50.3   |
| 130 | 32.8    | 25.9  | 38.9   |

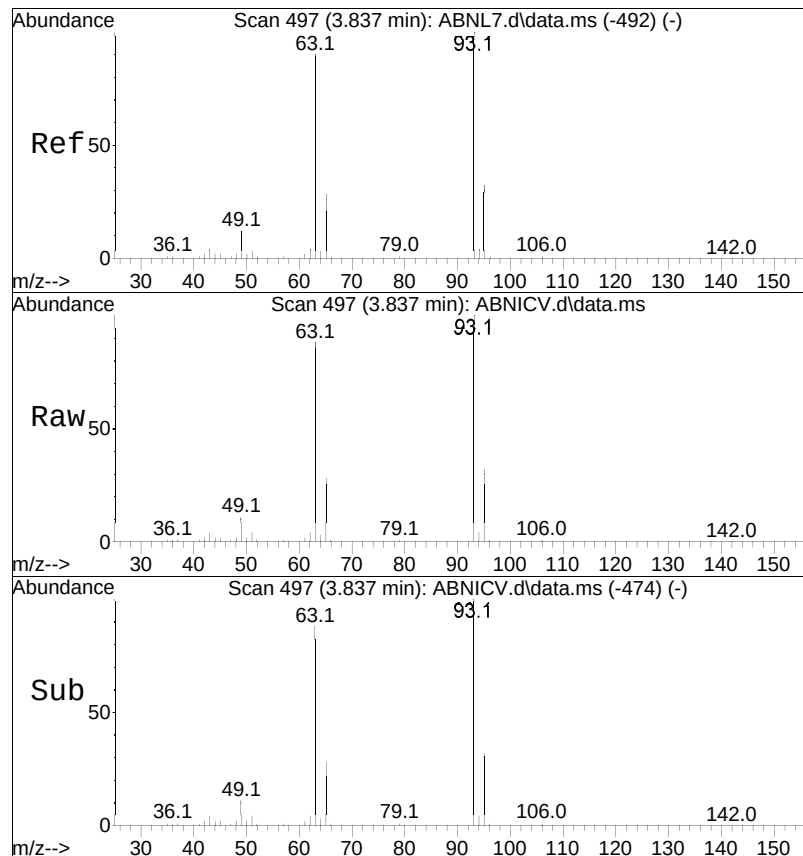




#8  
 Phenol  
 Concen: 48.38 ug/ml  
 RT: 3.768 min Scan# 484  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

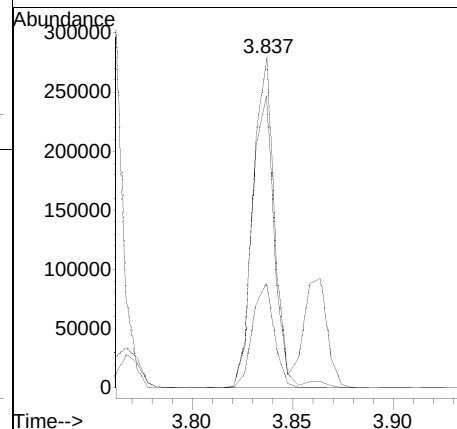
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 47.9  | 38.8  | 58.2  |
| 66      | 77.9  | 60.3  | 90.5  |

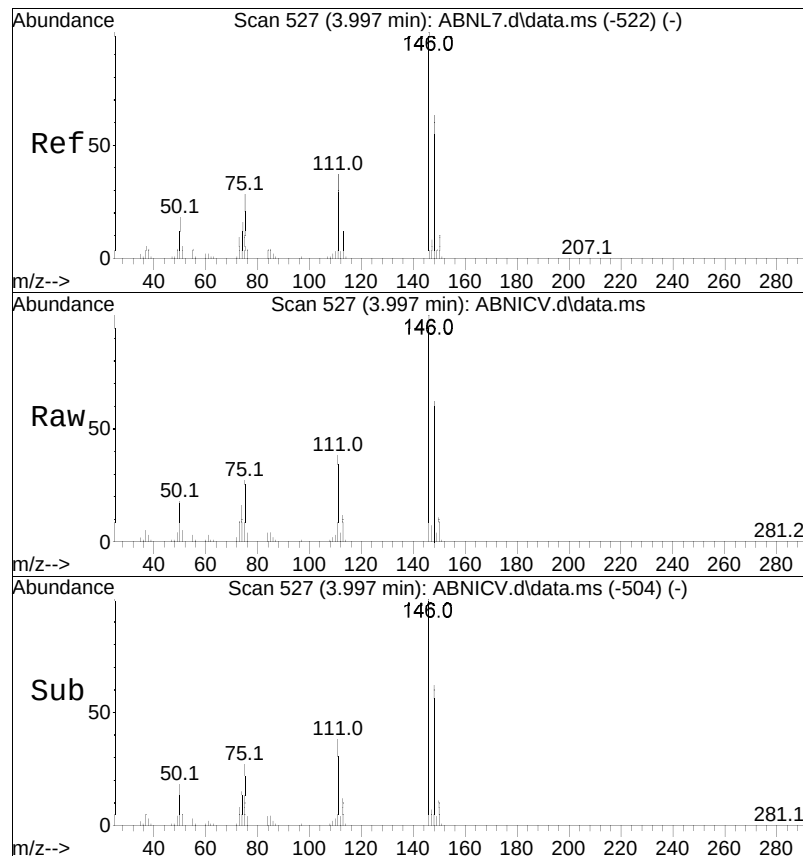




#9  
 Bis(2-chloroethyl)ether  
 Concen: 46.15 ug/ml  
 RT: 3.837 min Scan# 497  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

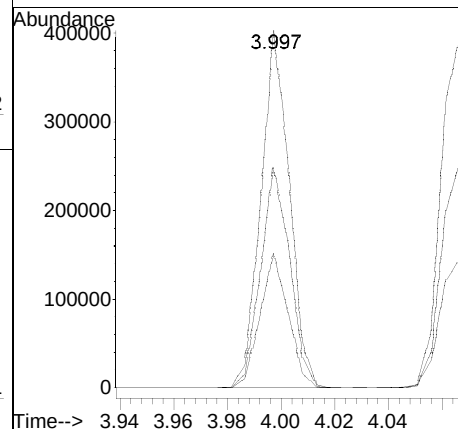
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 209115 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 89.4  | 63.0  | 94.6   |
| 95        | 31.7  | 26.3  | 39.5   |



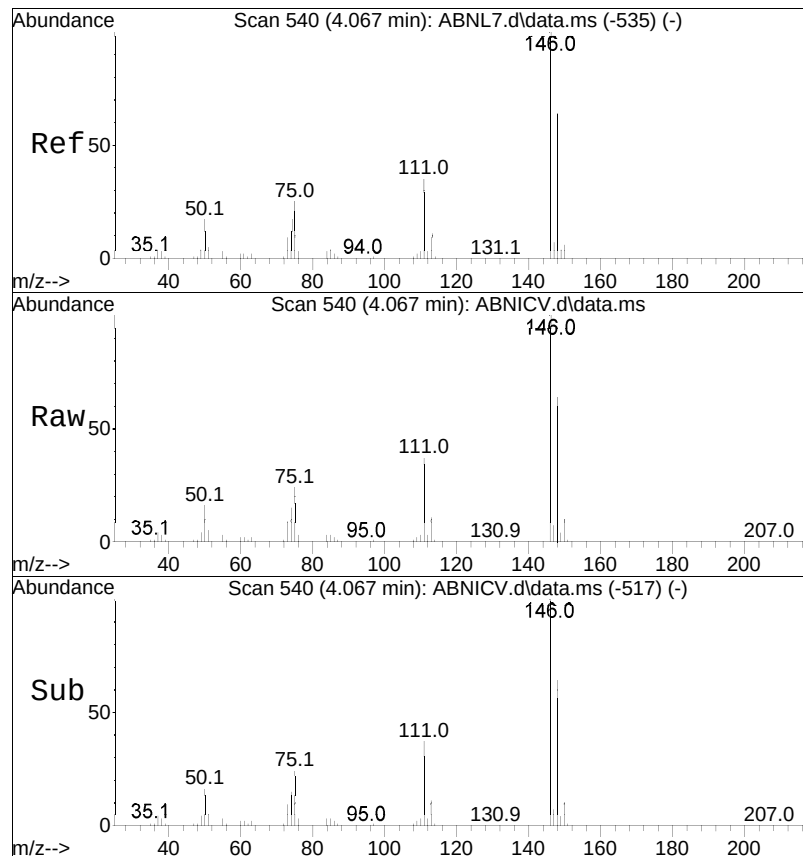


#10  
 1,3-Dichlorobenzene  
 Concen: 45.64 ug/ml  
 RT: 3.997 min Scan# 527  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 296790 |       |       |
| 111     | 37.2  |        | 30.0  | 45.0  |
| 148     | 63.3  |        | 52.6  | 78.8  |

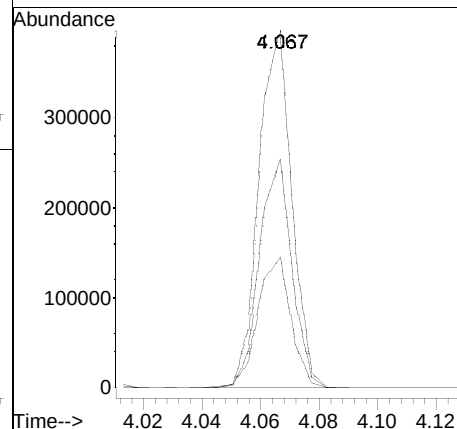


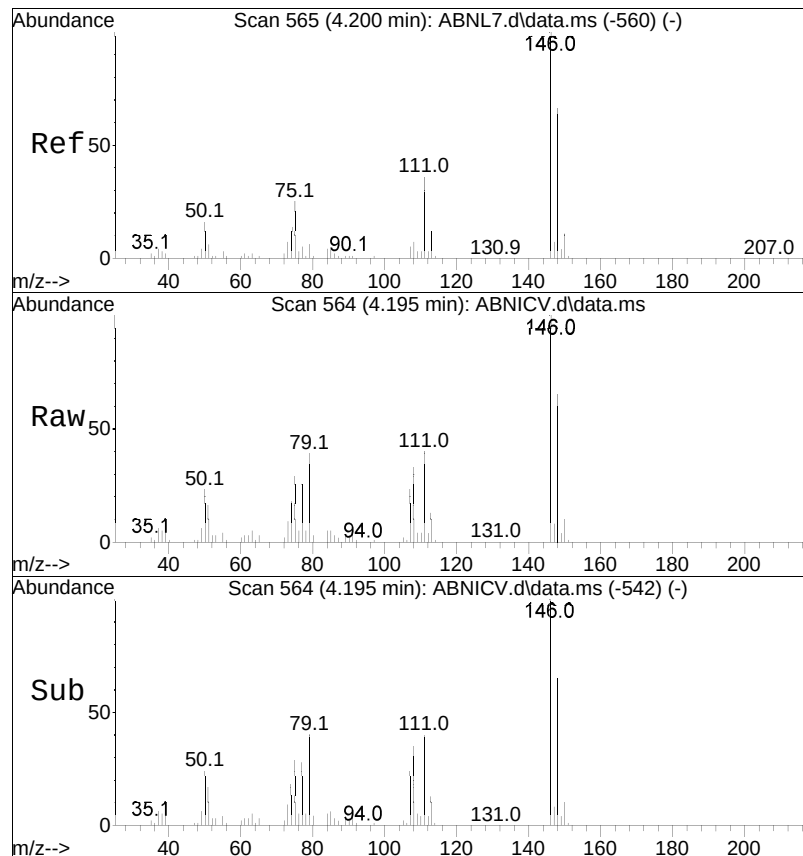




#11  
 1,4-Dichlorobenzene  
 Concen: 46.94 ug/ml  
 RT: 4.067 min Scan# 540  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

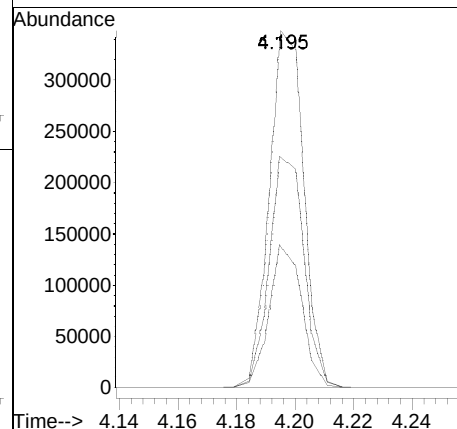
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.2  | 52.3  | 78.5  |
| 111     | 37.2  | 29.2  | 43.8  |

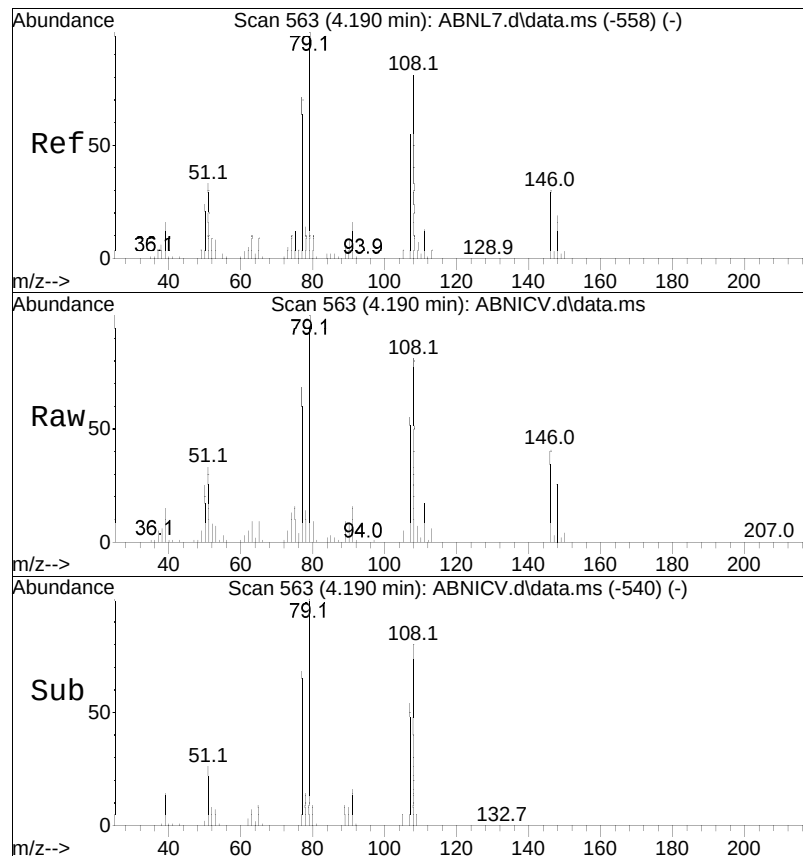




#12  
 1,2-Dichlorobenzene  
 Concen: 46.48 ug/ml  
 RT: 4.195 min Scan# 564  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

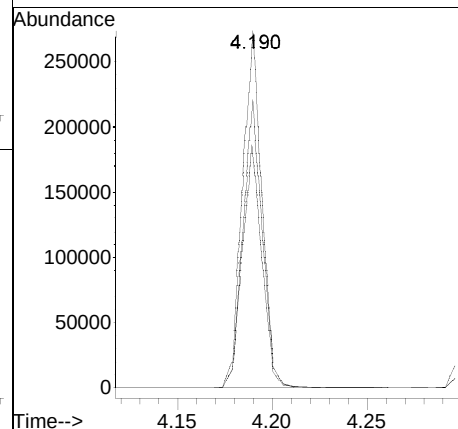
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 282856 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 38.2  | 30.3  | 45.5   |
| 148       | 65.0  | 51.8  | 77.8   |

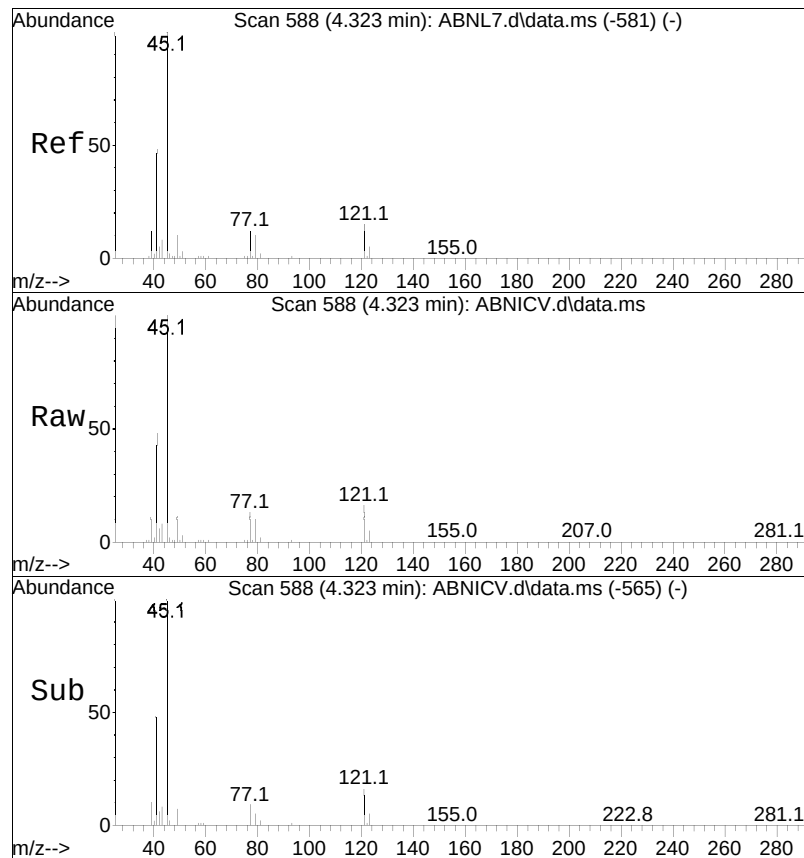




#13  
 Benzyl alcohol  
 Concen: 49.74 ug/ml  
 RT: 4.190 min Scan# 563  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

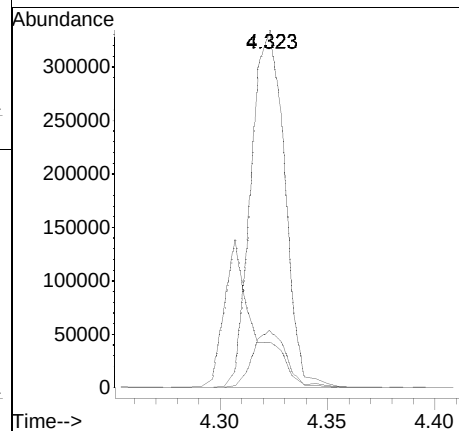
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 77      | 68.7  | 54.6  | 81.8  |
| 108     | 80.5  | 65.1  | 97.7  |

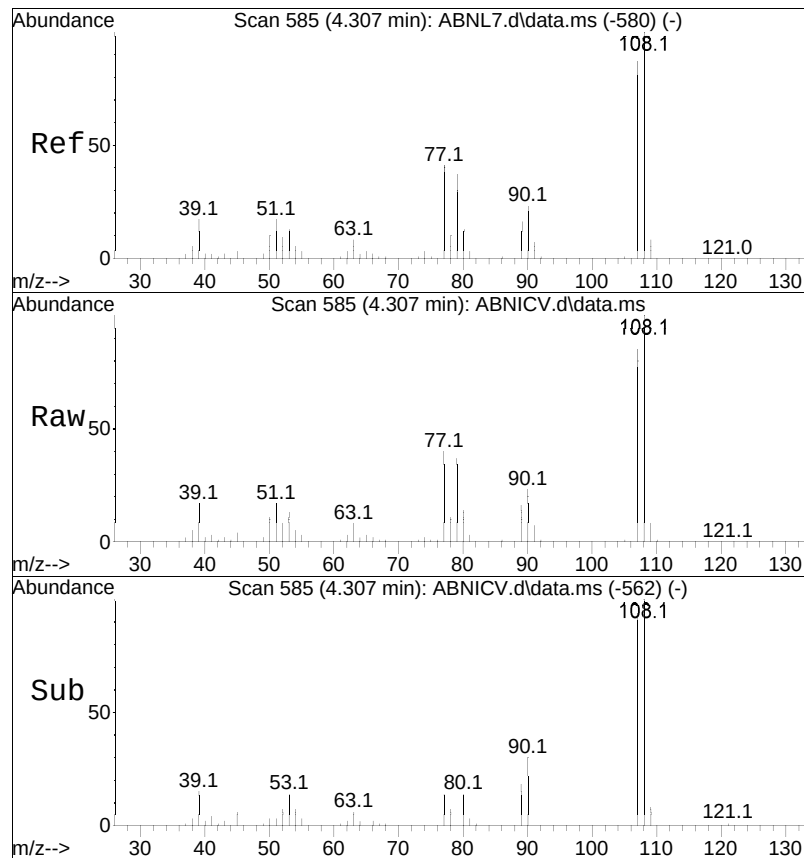




#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 45.59 ug/ml  
 RT: 4.323 min Scan# 588  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

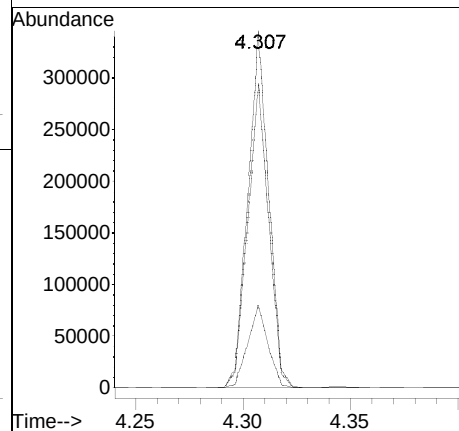
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 45  | 100  |       |       |       |
| 121 | 15.8 | 16.0  | 24.0# |       |
| 77  | 38.2 | 32.1  | 48.1  |       |

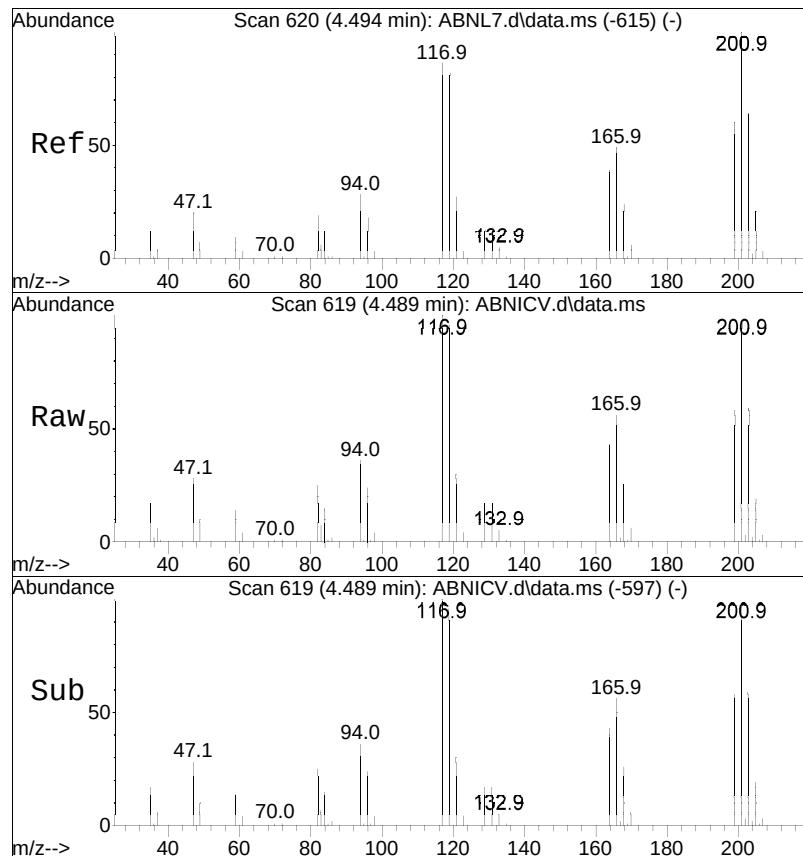




#15  
 2-Methylphenol  
 Concen: 50.08 ug/ml  
 RT: 4.307 min Scan# 585  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

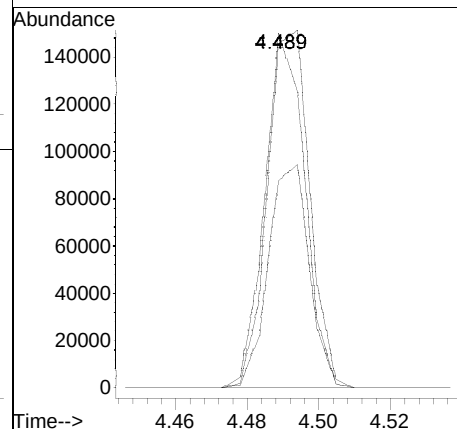
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 85.6  | 70.3  | 105.5 |
| 90      | 22.7  | 18.7  | 28.1  |

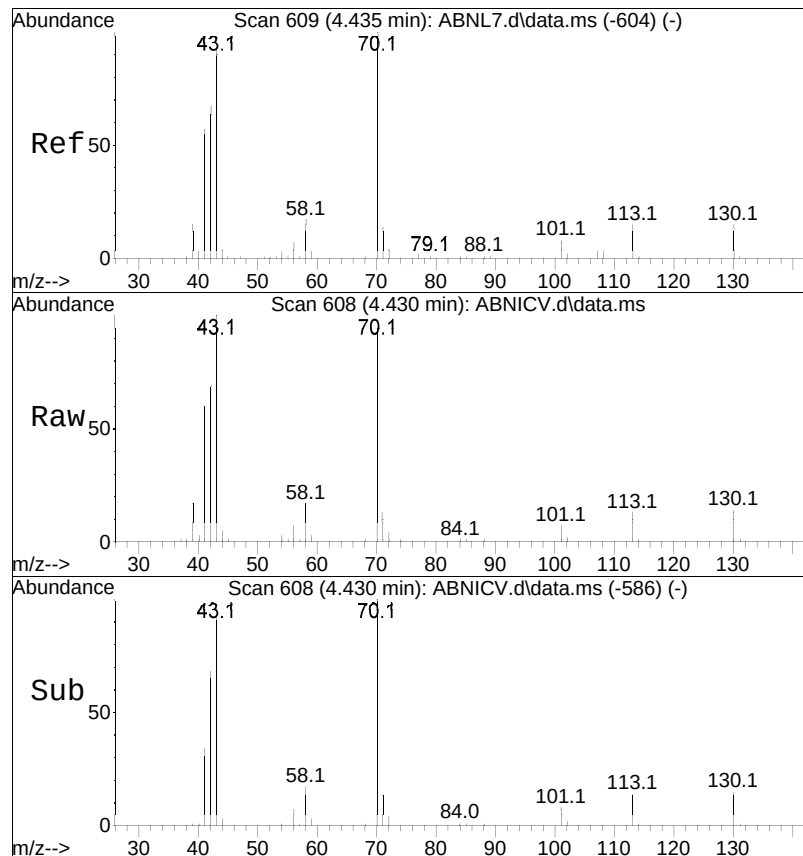




#16  
 Hexachloroethane  
 Concen: 46.89 ug/ml  
 RT: 4.489 min Scan# 619  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

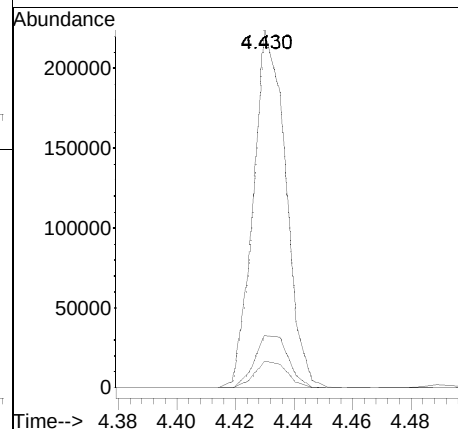
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 115426 |       |       |
| 201     | 106.6 |        | 73.4  | 110.0 |
| 199     | 64.7  |        | 45.9  | 68.9  |

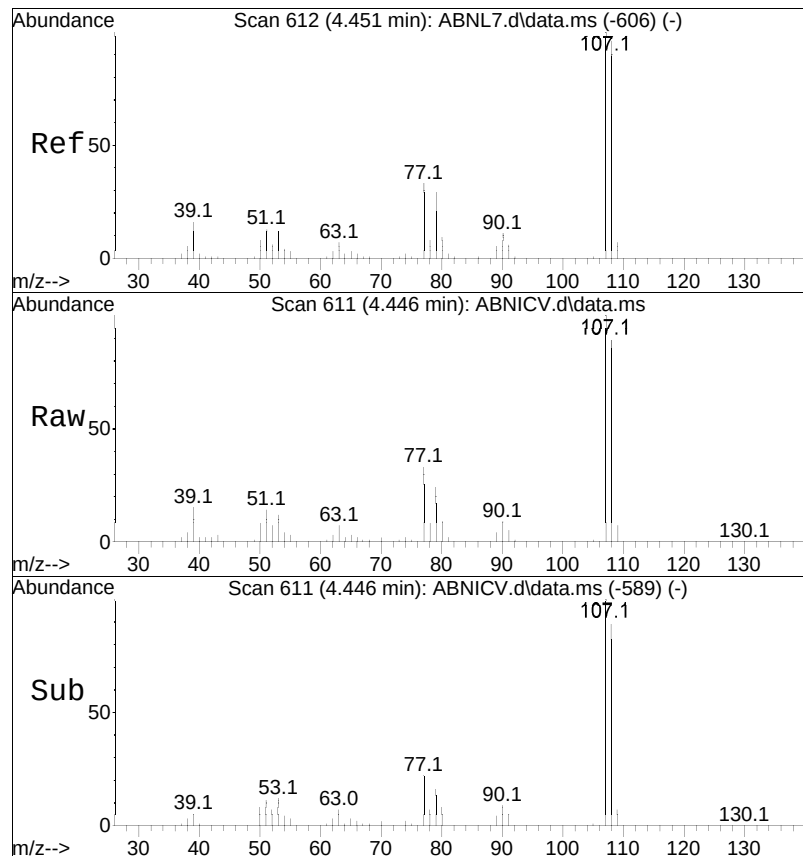




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 48.35 ug/ml  
 RT: 4.430 min Scan# 608  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

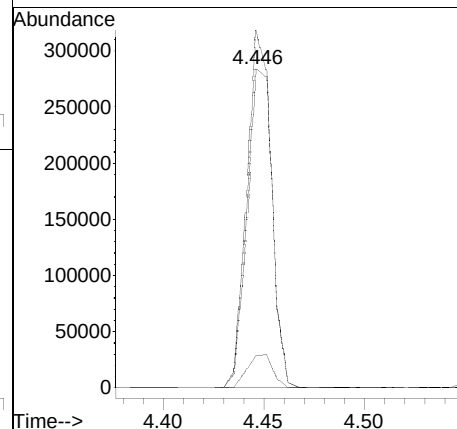
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 130     | 15.3  | 17.1  | 25.7# |
| 101     | 7.5   | 7.0   | 10.4  |



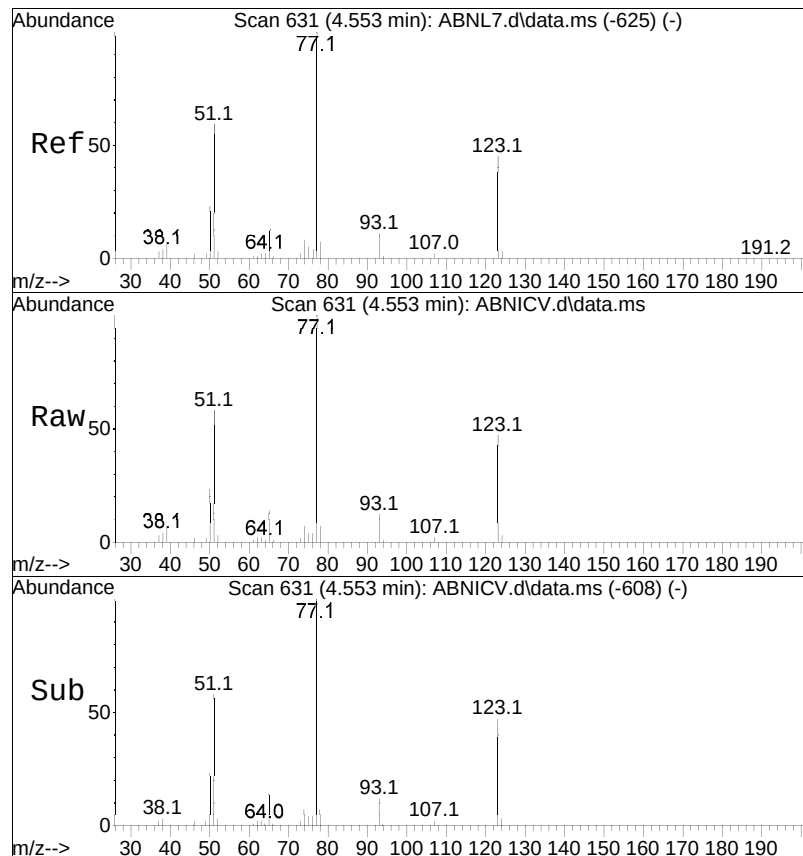


#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 49.50 ug/ml  
 RT: 4.446 min Scan# 611  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 108.4 | 88.2  | 132.2 |
| 90      | 10.7  | 8.5   | 12.7  |

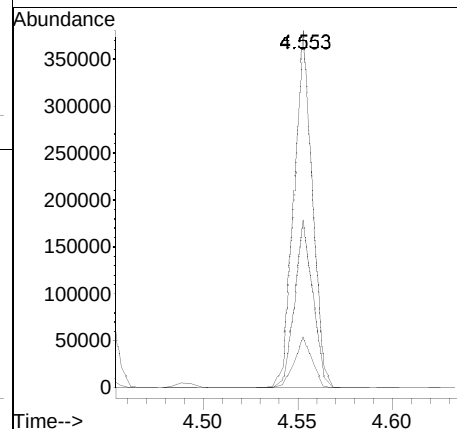


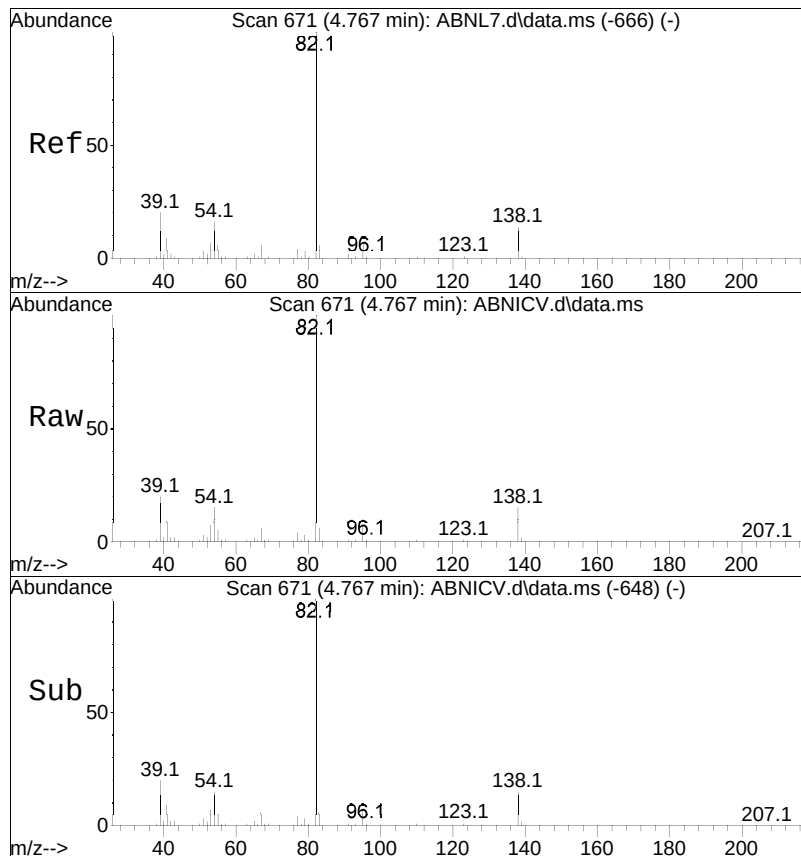




#20  
 Nitrobenzene  
 Concen: 48.74 ug/ml  
 RT: 4.553 min Scan# 631  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

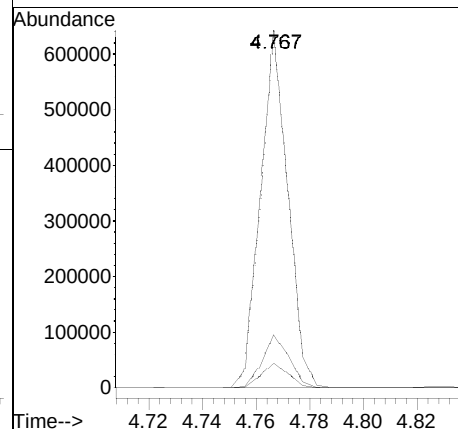
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 46.4  | 39.5  | 59.3  |
| 65      | 13.9  | 11.0  | 16.6  |

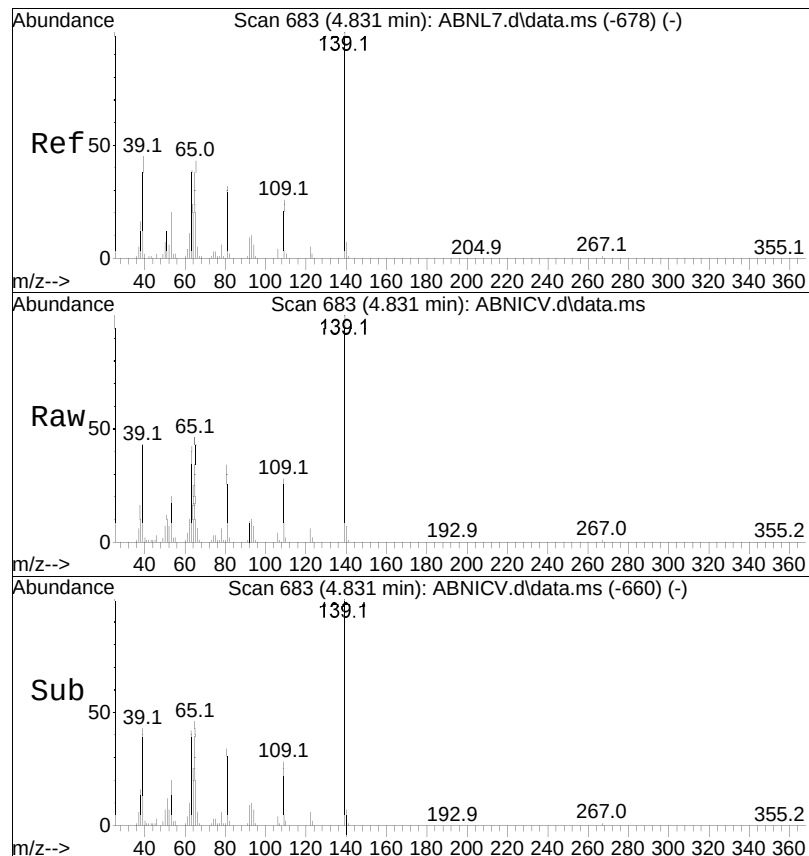




#21  
 Isophorone  
 Concen: 48.52 ug/ml  
 RT: 4.767 min Scan# 671  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

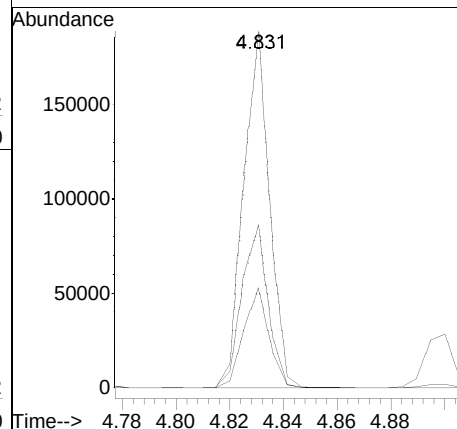
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 447278 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 138       | 14.7  | 13.9  | 20.9   |
| 95        | 7.0   | 5.1   | 7.7    |

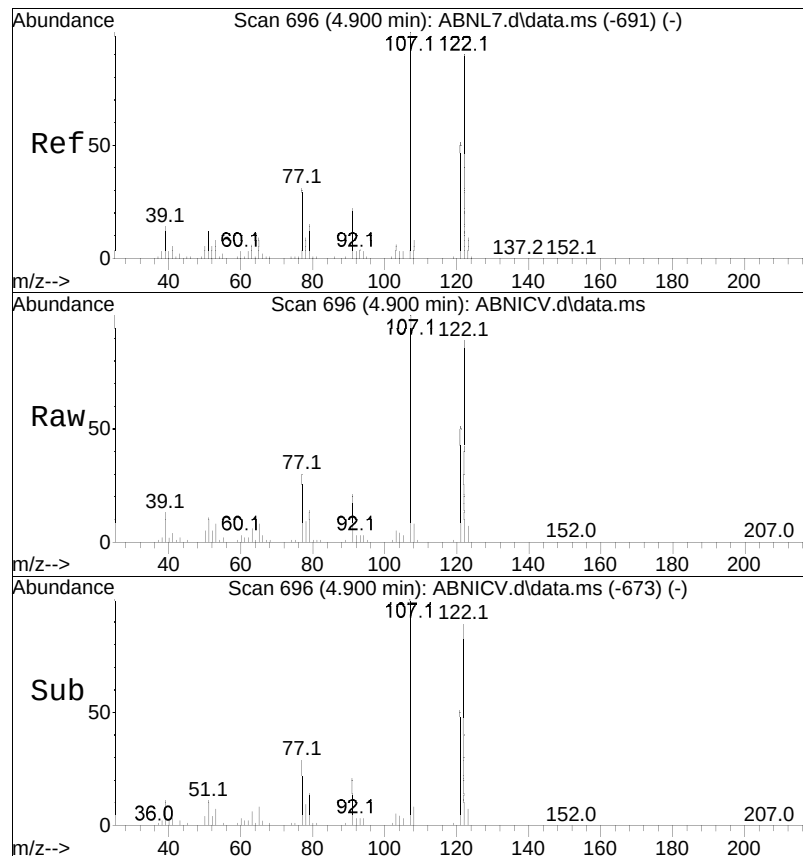




#22  
 2-Nitrophenol  
 Concen: 45.45 ug/ml  
 RT: 4.831 min Scan# 683  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

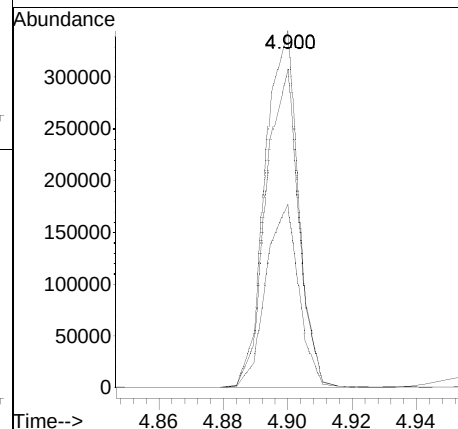
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 139     | 100   | 125228 |       |       |
| 109     | 27.7  |        | 17.2  | 25.8# |
| 65      | 46.6  |        | 33.8  | 50.6  |

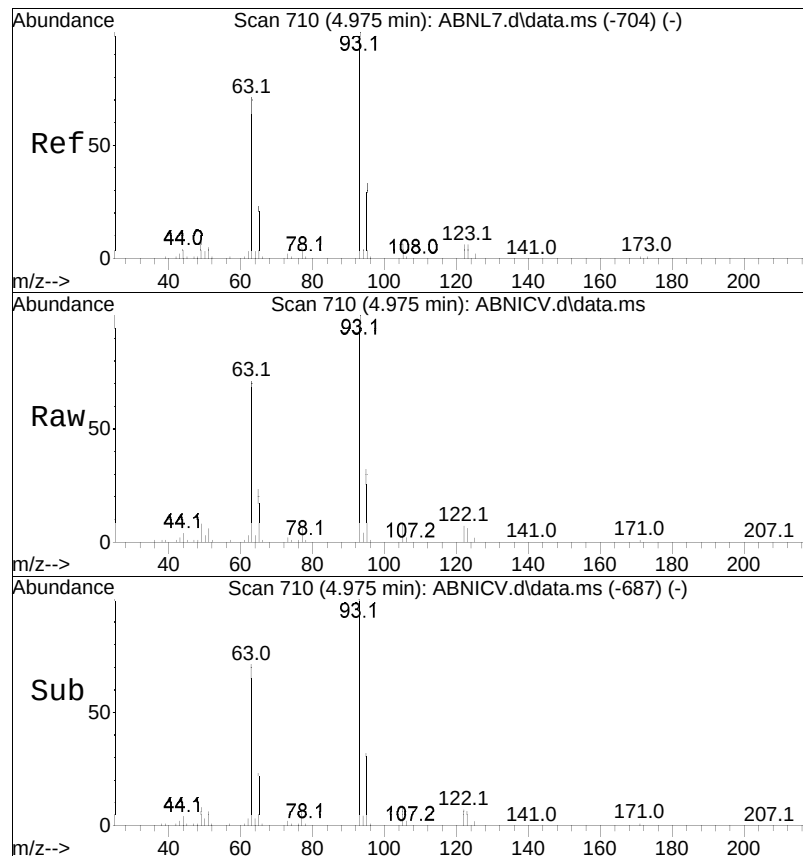




#23  
 2,4-Dimethylphenol  
 Concen: 48.11 ug/ml  
 RT: 4.900 min Scan# 696  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

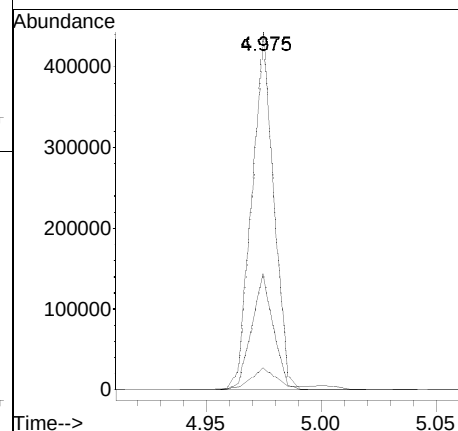
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 121     | 50.8  | 41.2  | 61.8  |
| 122     | 88.0  | 72.5  | 108.7 |

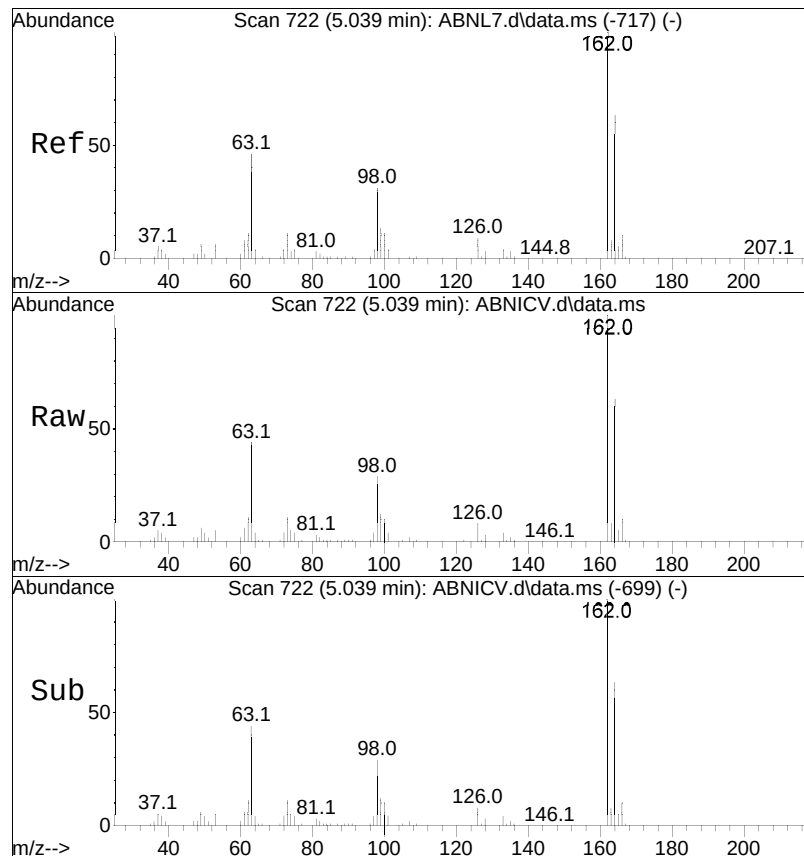




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 45.90 ug/ml  
 RT: 4.975 min Scan# 710  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

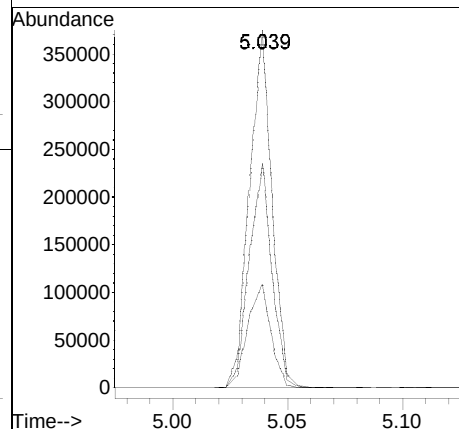
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 289760 |       |       |
| 95      | 32.4  |        | 26.8  | 40.2  |
| 123     | 7.9   |        | 8.7   | 13.1# |

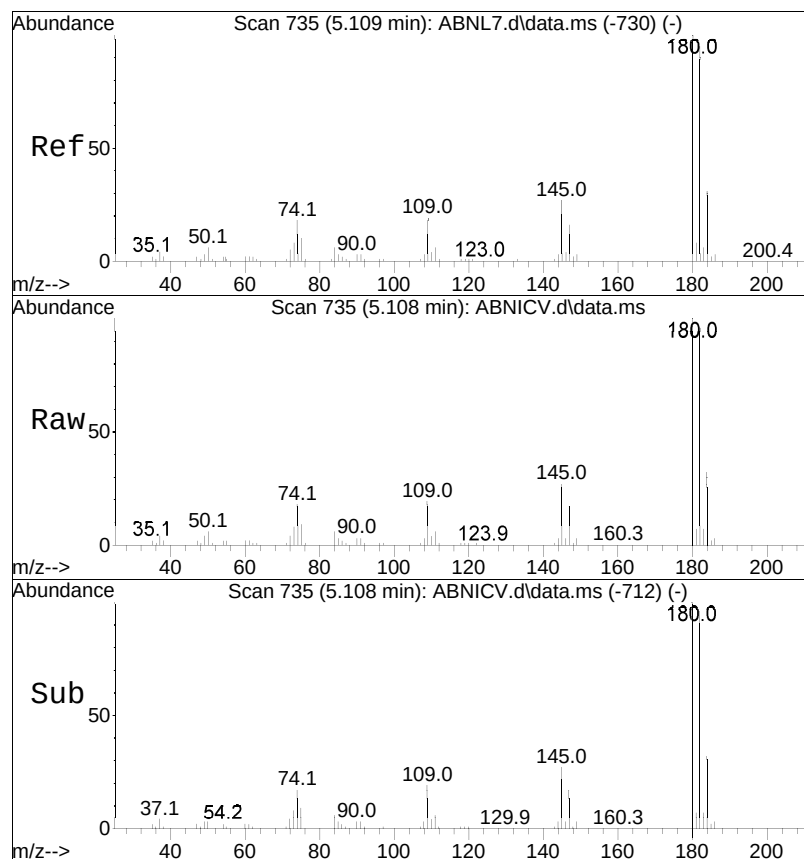




#25  
 2,4-Dichlorophenol  
 Concen: 49.66 ug/ml  
 RT: 5.039 min Scan# 722  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

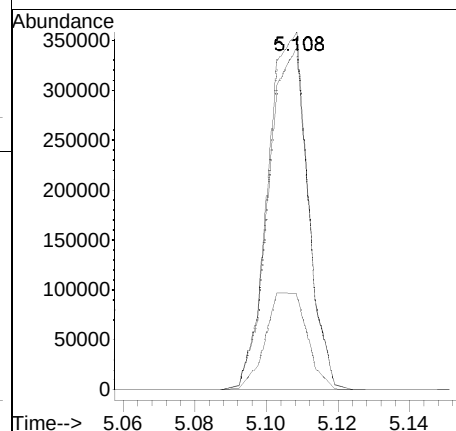
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 252671 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 63.5  | 51.8  | 77.8   |
| 98        | 30.4  | 25.0  | 37.4   |

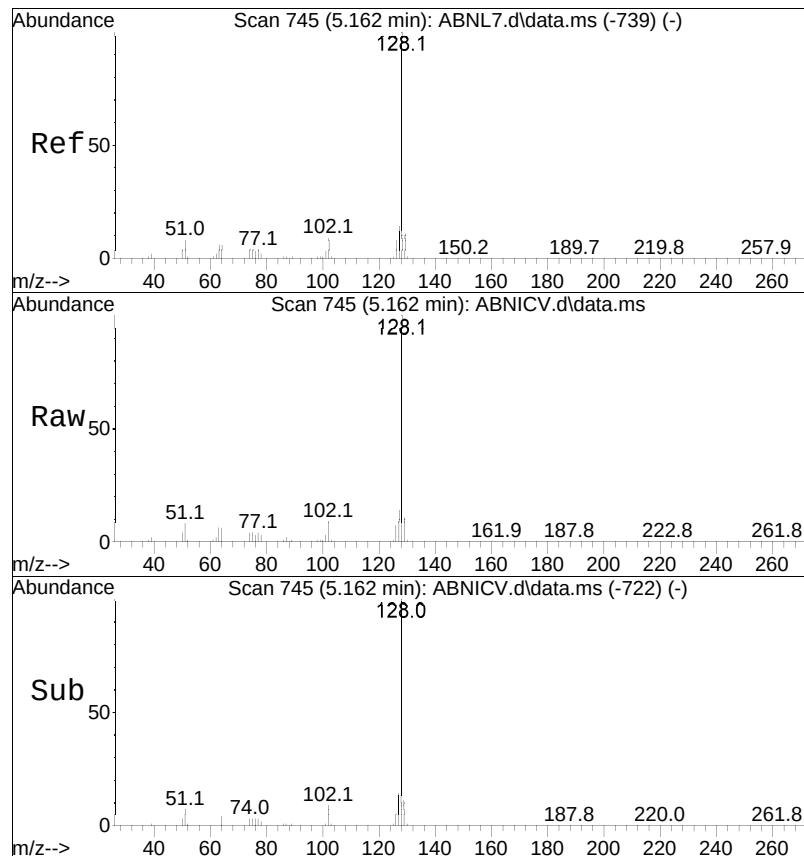




#26  
 1,2,4-Trichlorobenzene  
 Concen: 45.19 ug/ml  
 RT: 5.108 min Scan# 735  
 Delta R.T. -0.001 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

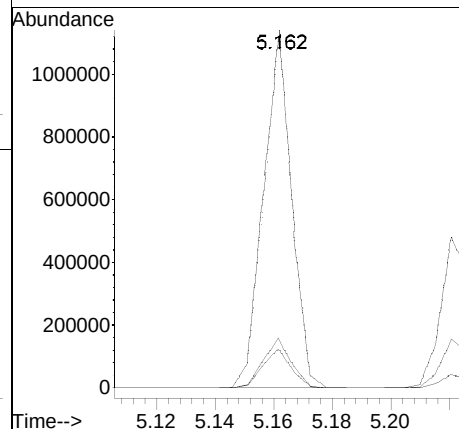
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.0  | 77.5  | 116.3 |
| 145     | 28.4  | 22.2  | 33.2  |



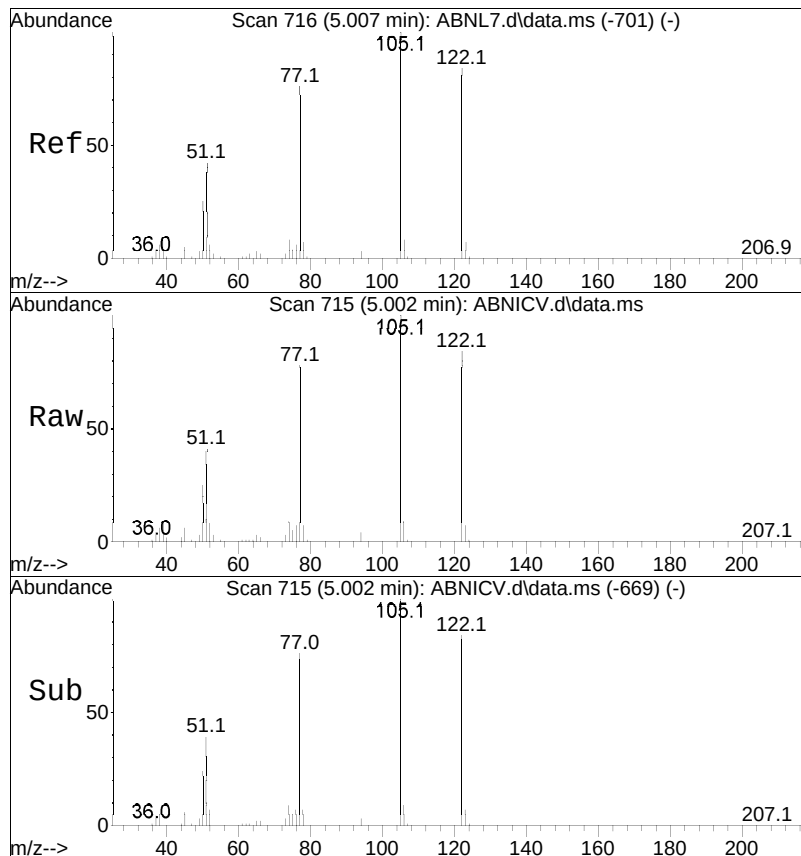


#36  
 Naphthalene  
 Concen: 46.92 ug/ml  
 RT: 5.162 min Scan# 745  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 749664 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 129 | 11.0    | 9.0   | 13.6   |
| 127 | 13.8    | 11.3  | 16.9   |

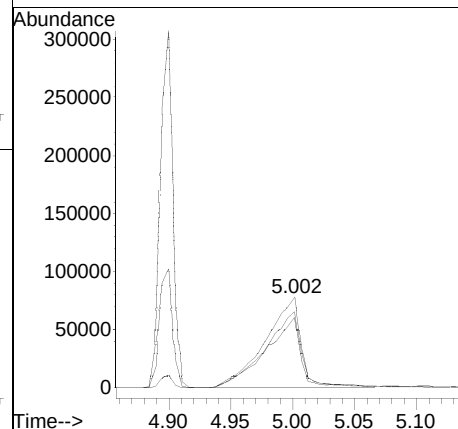


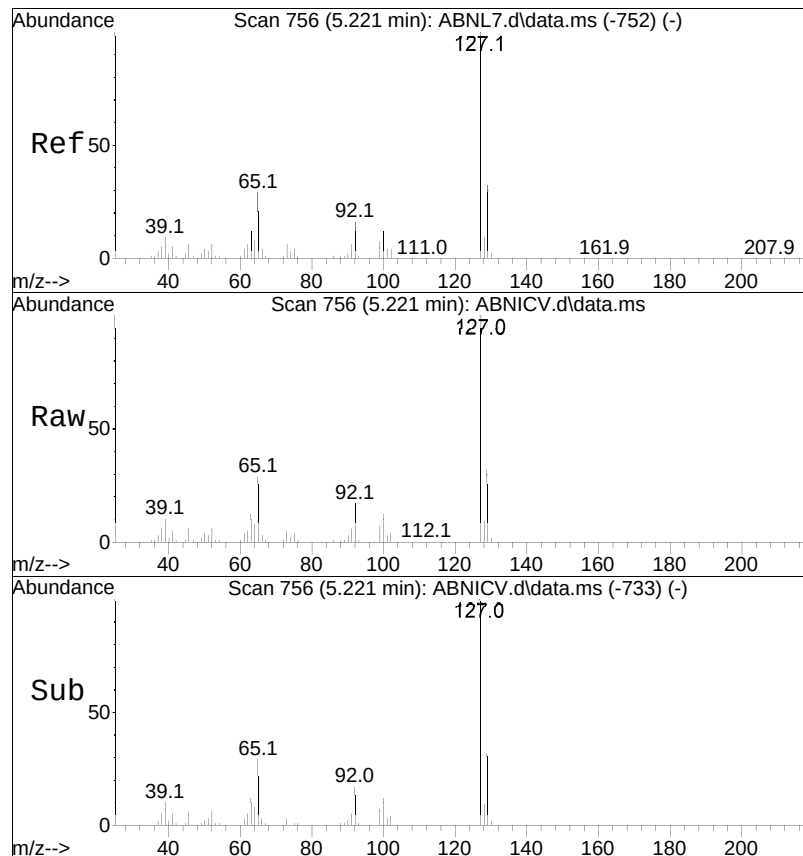




#37  
 Benzoic Acid  
 Concen: 41.34 ug/ml  
 RT: 5.002 min Scan# 715  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

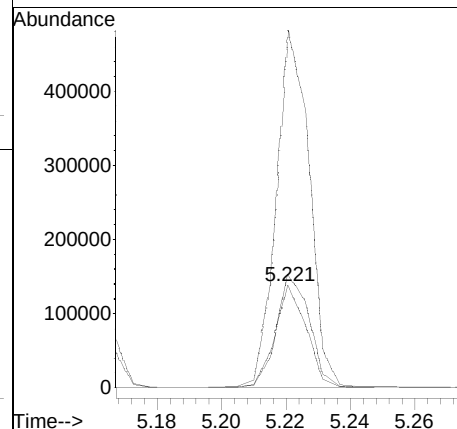
| Tgt Ion | Ratio | Lower  | Upper   |
|---------|-------|--------|---------|
| 105     | 100   |        |         |
| 122     | 86.3  | 2158.8 | 3238.2# |
| 77      | 74.0  | 747.4  | 1121.0# |

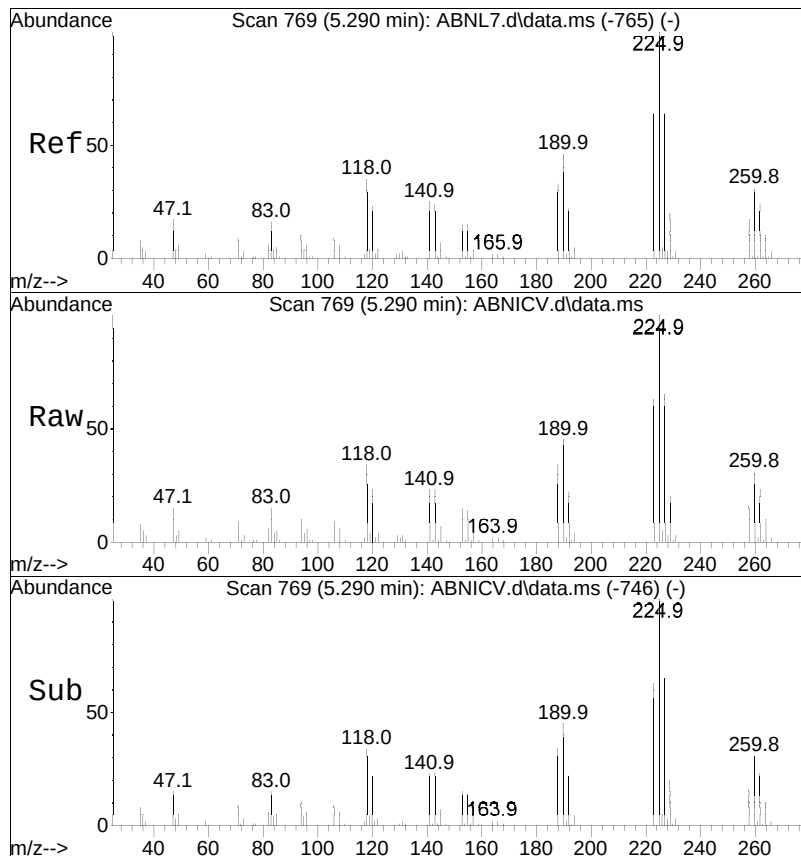




#38  
 4-Chloroaniline  
 Concen: 47.48 ug/ml  
 RT: 5.221 min Scan# 756  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

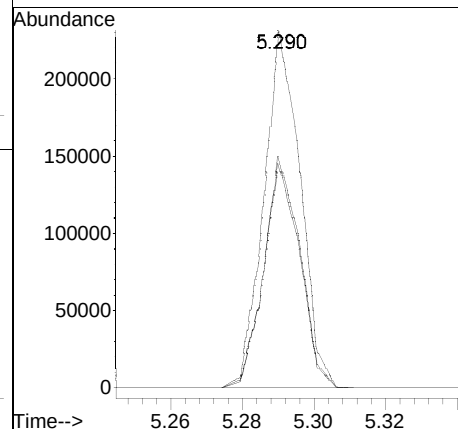
| Tgt | Ion   | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|
| 65  | 100   | 93347 |       |       |
| 127 | 365.1 | 302.2 | 453.2 |       |
| 129 | 116.0 | 97.8  | 146.8 |       |

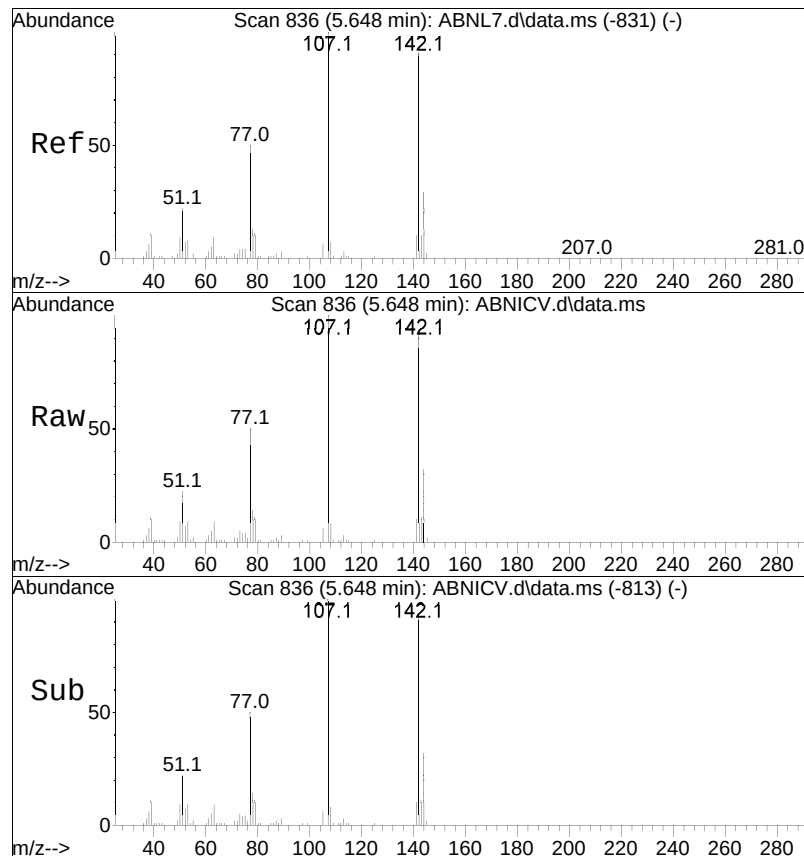




#39  
 Hexachlorobutadiene  
 Concen: 46.67 ug/ml  
 RT: 5.290 min Scan# 769  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

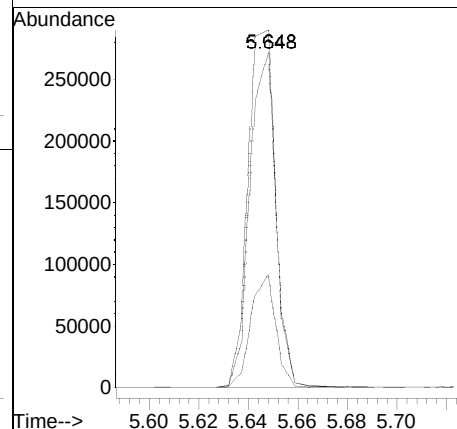
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 161797 |       |       |
| 223     | 62.4  |        | 50.0  | 75.0  |
| 227     | 64.2  |        | 51.8  | 77.6  |

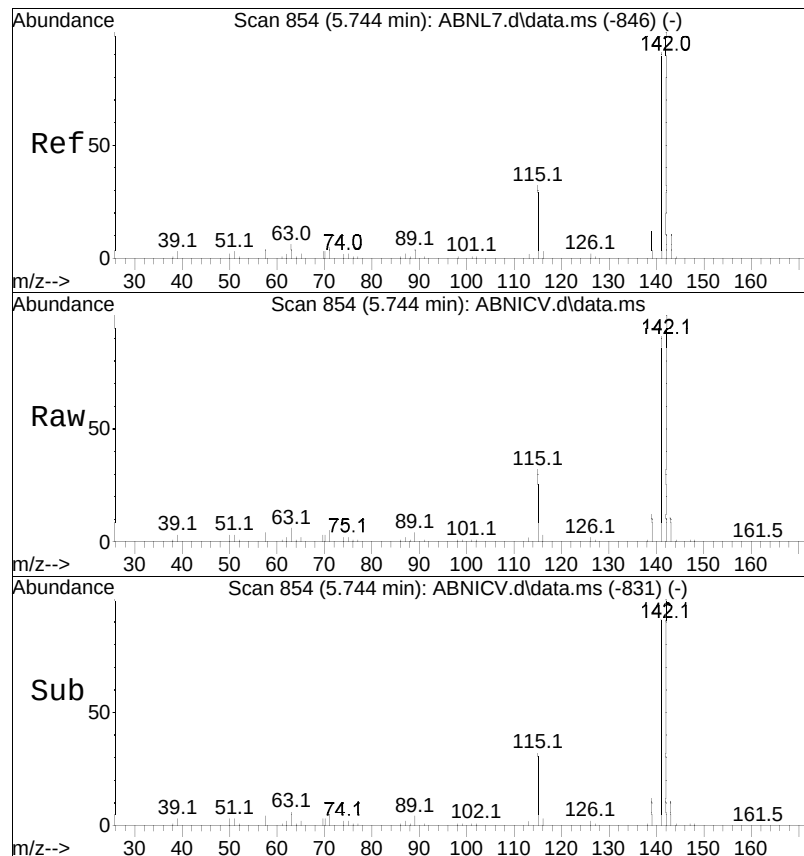




#40  
 p-Chloro-m-cresol  
 Concen: 50.30 ug/ml  
 RT: 5.648 min Scan# 836  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

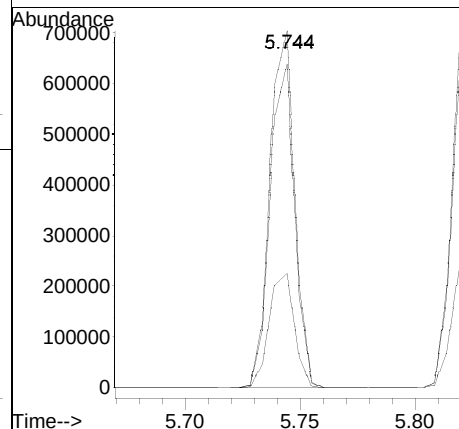
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 222732 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 28.9  | 23.3  | 34.9   |
| 142       | 88.5  | 72.7  | 109.1  |

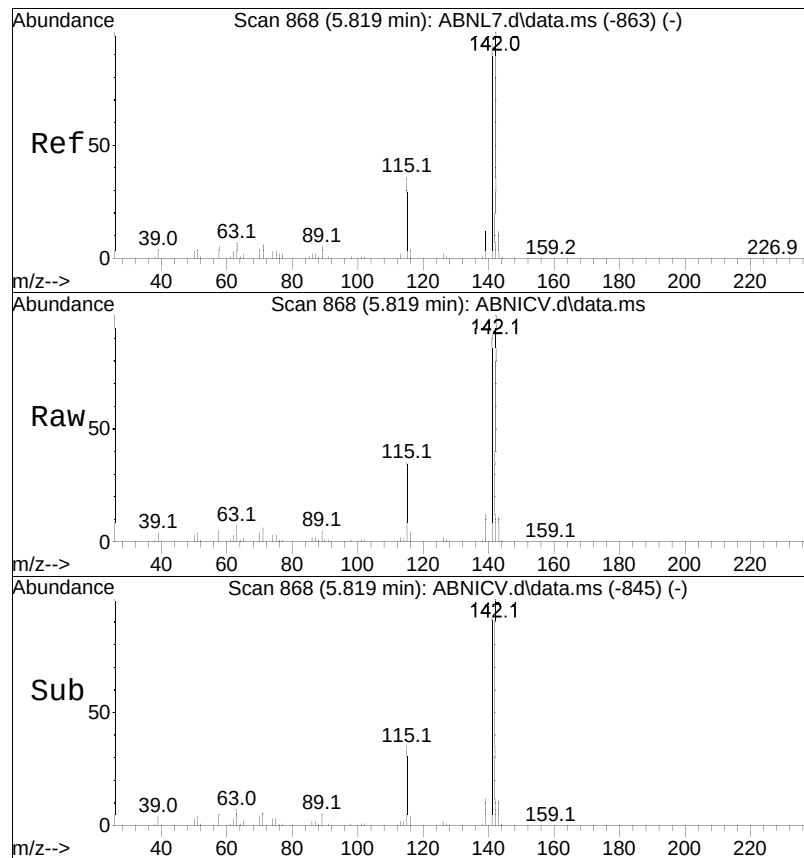




#41  
 2-Methylnaphthalene  
 Concen: 45.61 ug/ml  
 RT: 5.744 min Scan# 854  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

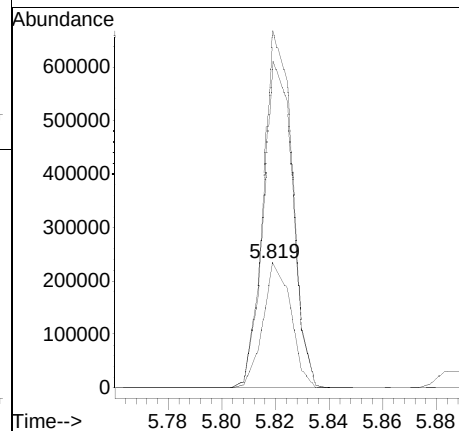
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 530656 |       |       |
| 141     | 89.7  |        | 69.5  | 104.3 |
| 115     | 32.8  |        | 25.4  | 38.2  |

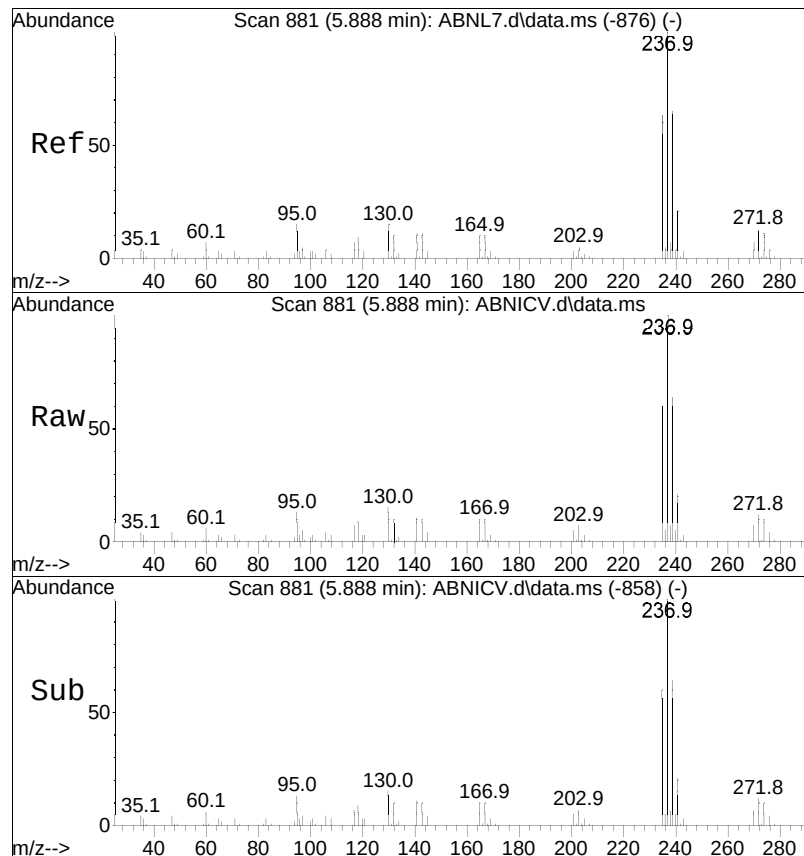




#42  
 1-Methylnaphthalene  
 Concen: 44.57 ug/ml  
 RT: 5.819 min Scan# 868  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

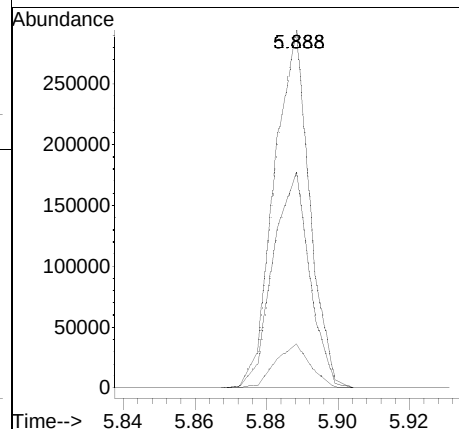
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 115   | Resp: | 171062 |
| Ion Ratio | Lower | Upper |        |
| 115       | 100   |       |        |
| 141       | 271.1 | 218.1 | 327.1  |
| 142       | 292.8 | 245.3 | 367.9  |

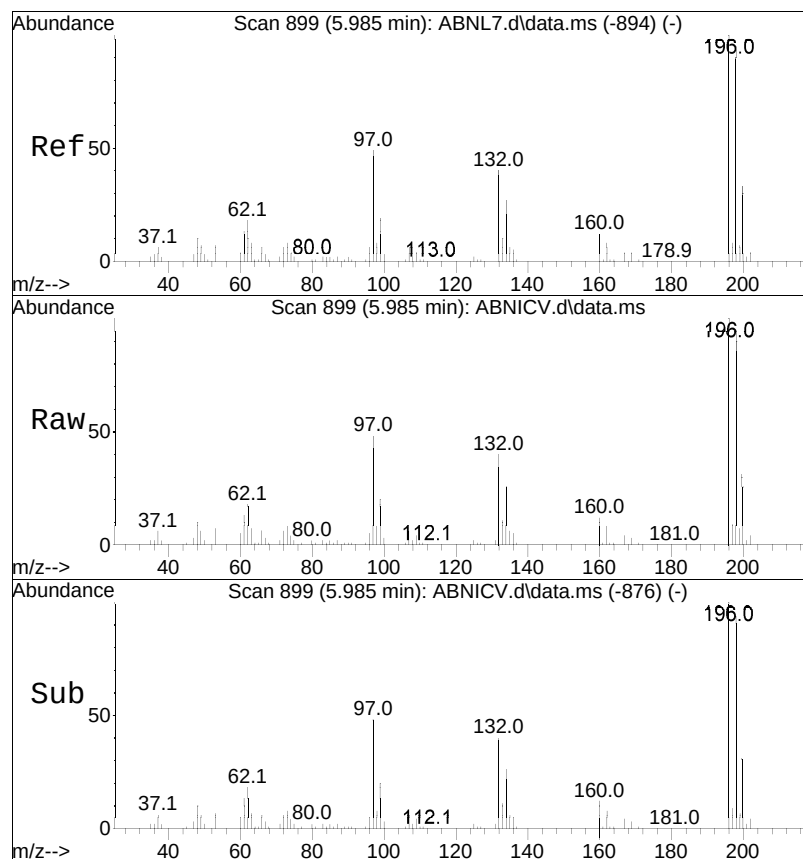




#43  
 Hexachlorocyclopentadiene  
 Concen: 45.89 ug/ml  
 RT: 5.888 min Scan# 881  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

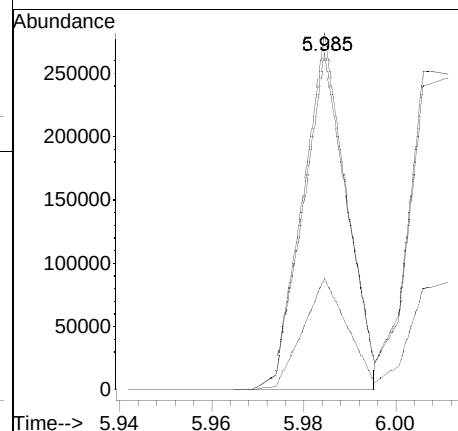
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 237     | 100   | 199864 |       |       |
| 235     | 62.5  |        | 49.9  | 74.9  |
| 272     | 12.4  |        | 11.4  | 17.2  |



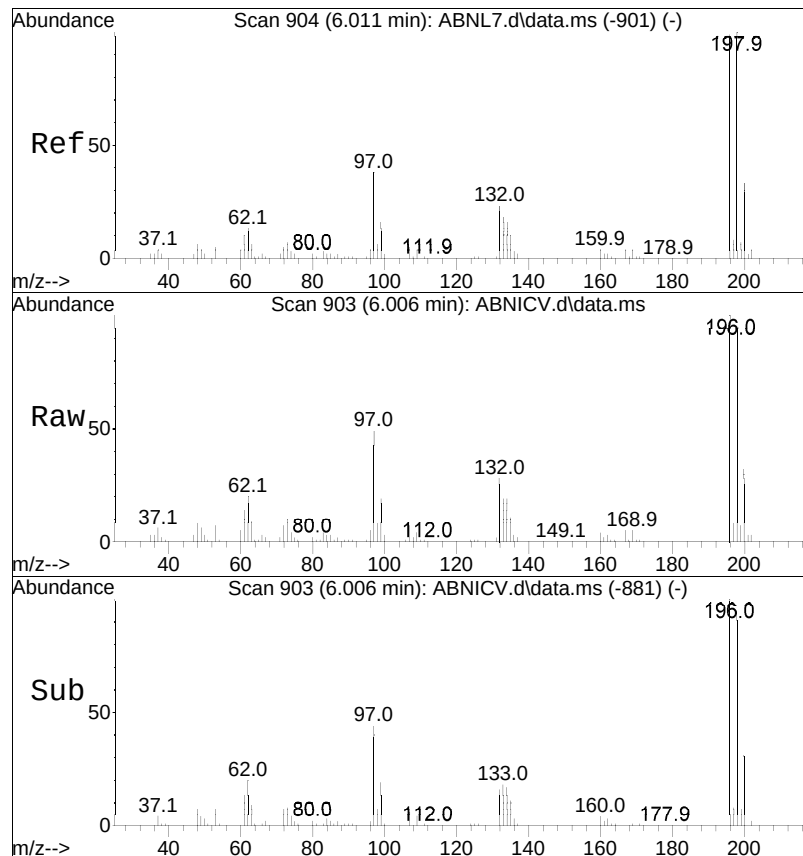


#44  
 2,4,6-Trichlorophenol  
 Concen: 47.92 ug/ml  
 RT: 5.985 min Scan# 899  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 95.2  | 77.0  | 115.6 |
| 200     | 31.8  | 25.0  | 37.6  |

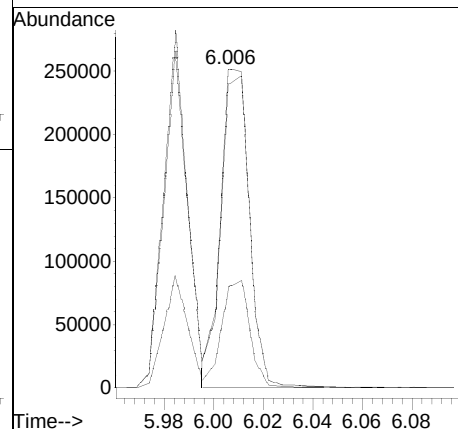


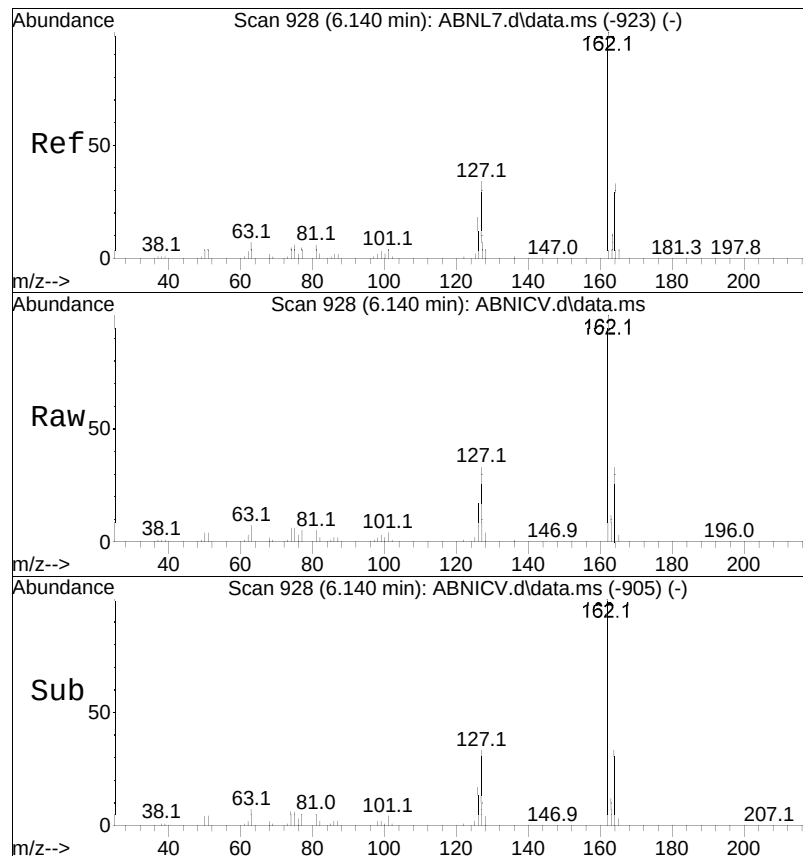




#45  
 2,4,5-Trichlorophenol  
 Concen: 48.59 ug/ml  
 RT: 6.006 min Scan# 903  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

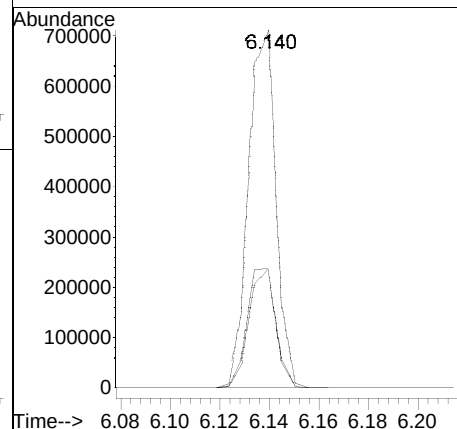
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 201969 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 33.4  | 24.9  | 37.3   |
| 198       | 97.4  | 78.5  | 117.7  |

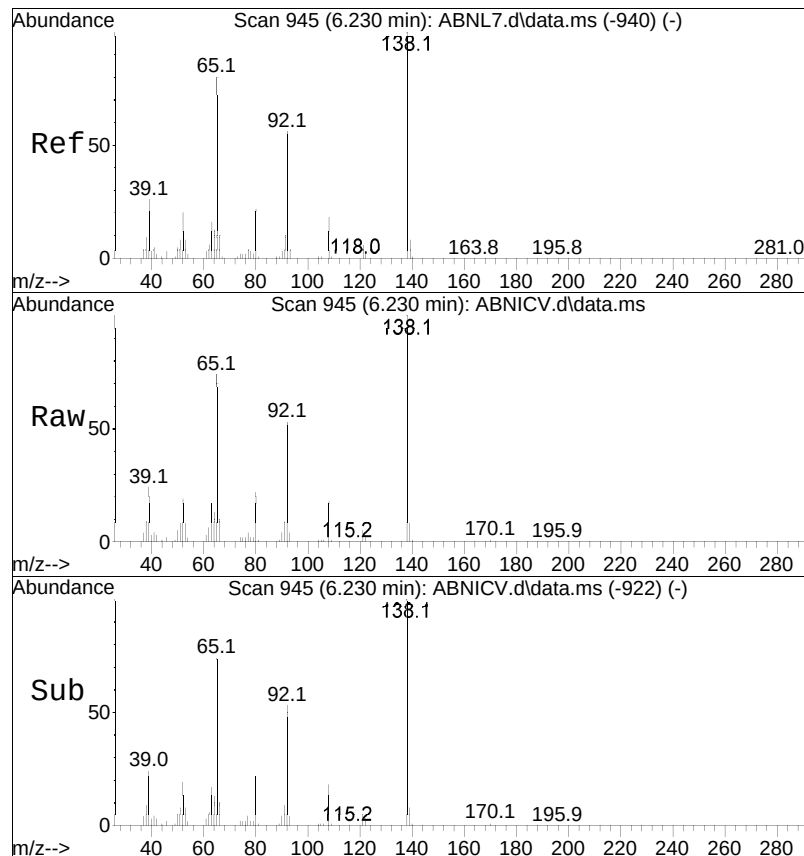




#47  
 2-Chloronaphthalene  
 Concen: 46.04 ug/ml  
 RT: 6.140 min Scan# 928  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

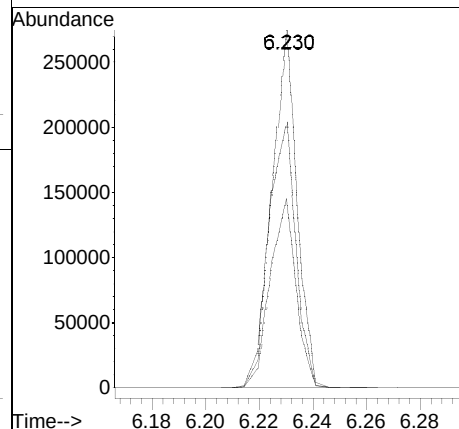
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:162 | Resp: | 541606 |
| Ion | Ratio   | Lower | Upper  |
| 162 | 100     |       |        |
| 127 | 34.8    | 28.0  | 42.0   |
| 164 | 32.8    | 26.6  | 39.8   |

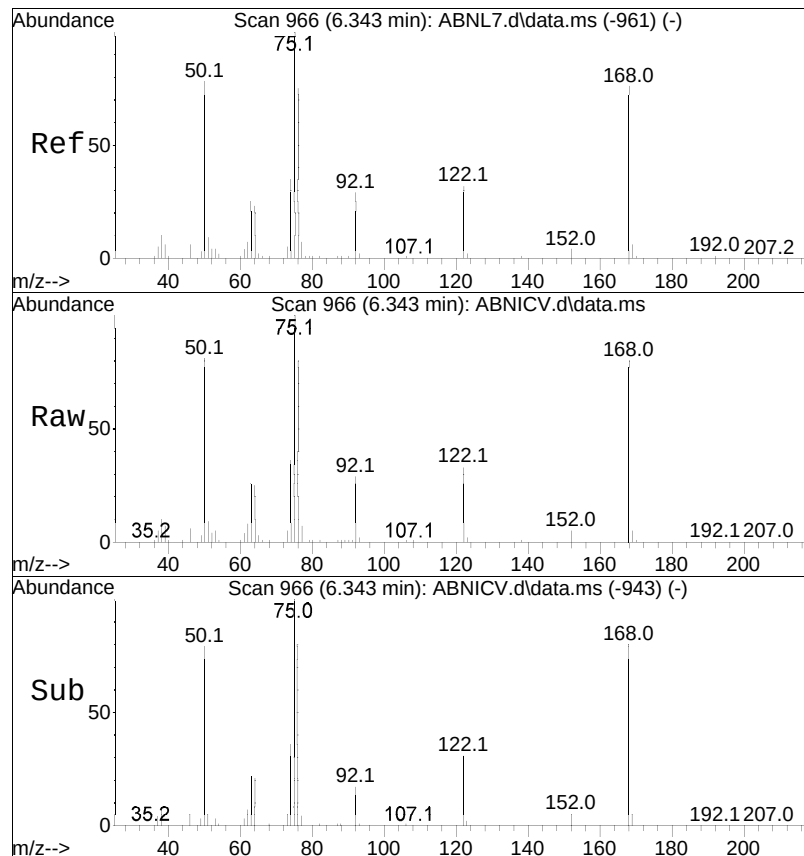




#48  
 2-Nitroaniline  
 Concen: 50.06 ug/ml  
 RT: 6.230 min Scan# 945  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

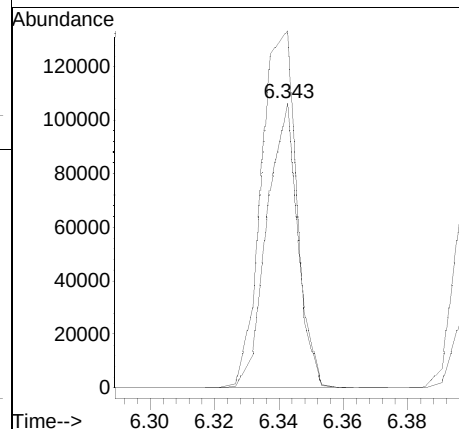
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 175630 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 54.8  | 41.7  | 62.5   |
| 65        | 81.0  | 61.5  | 92.3   |

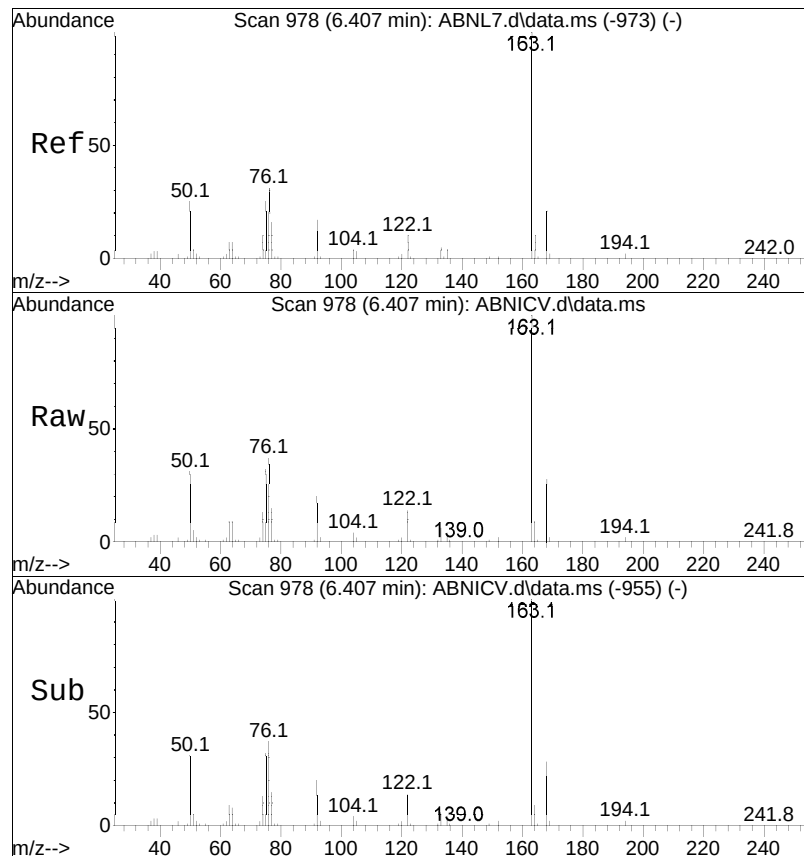




#49  
 1,4-Dinitrobenzene  
 Concen: 48.47 ug/ml  
 RT: 6.343 min Scan# 966  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

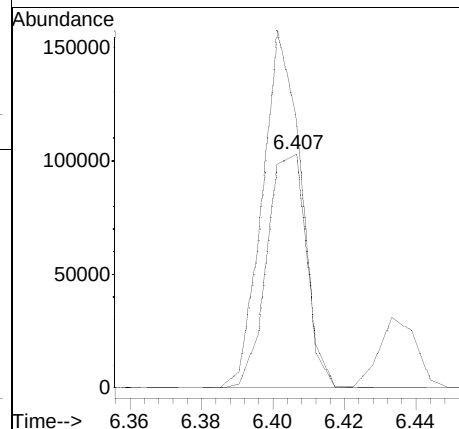
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 168 | 100   |       |       |       |
| 75  | 141.9 | 102.0 | 153.0 |       |

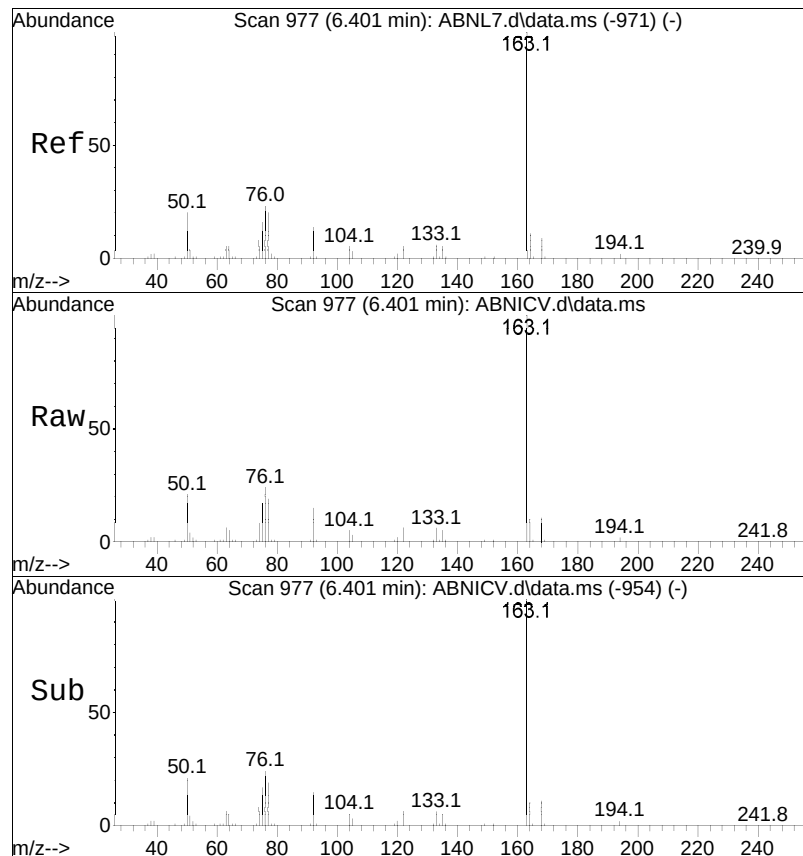




#50  
 1,3-Dinitrobenzene  
 Concen: 48.20 ug/ml  
 RT: 6.407 min Scan# 978  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

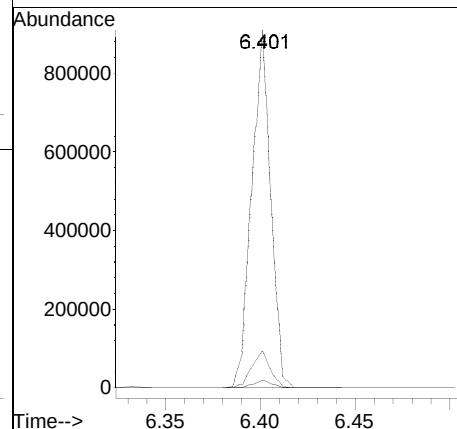
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 75      | 145.9 | 107.1 | 160.7 |

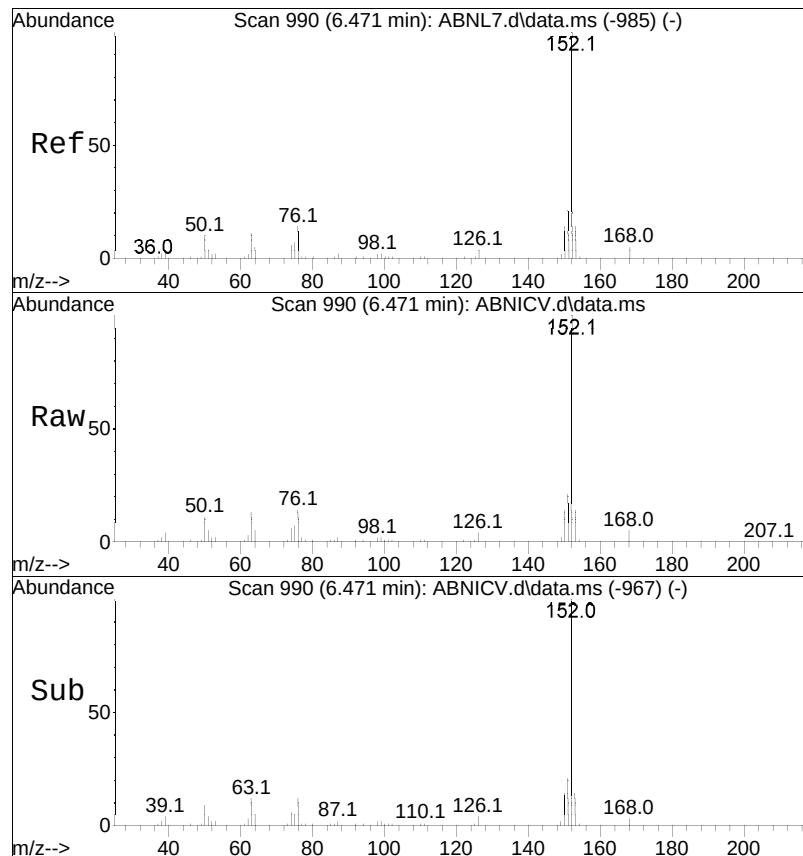




#51  
 Dimethyl phthalate  
 Concen: 46.66 ug/ml  
 RT: 6.401 min Scan# 977  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

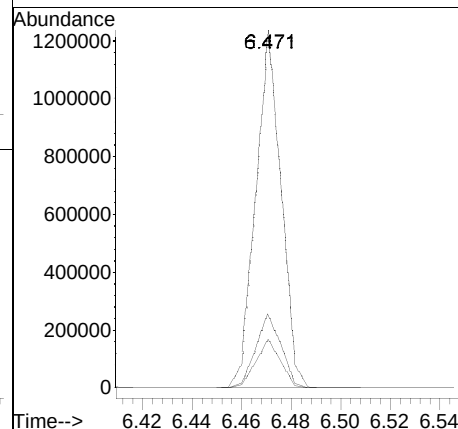
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 619838 |       |       |
| 194     | 2.0   |        | 3.4   | 5.2#  |
| 164     | 10.3  |        | 8.4   | 12.6  |

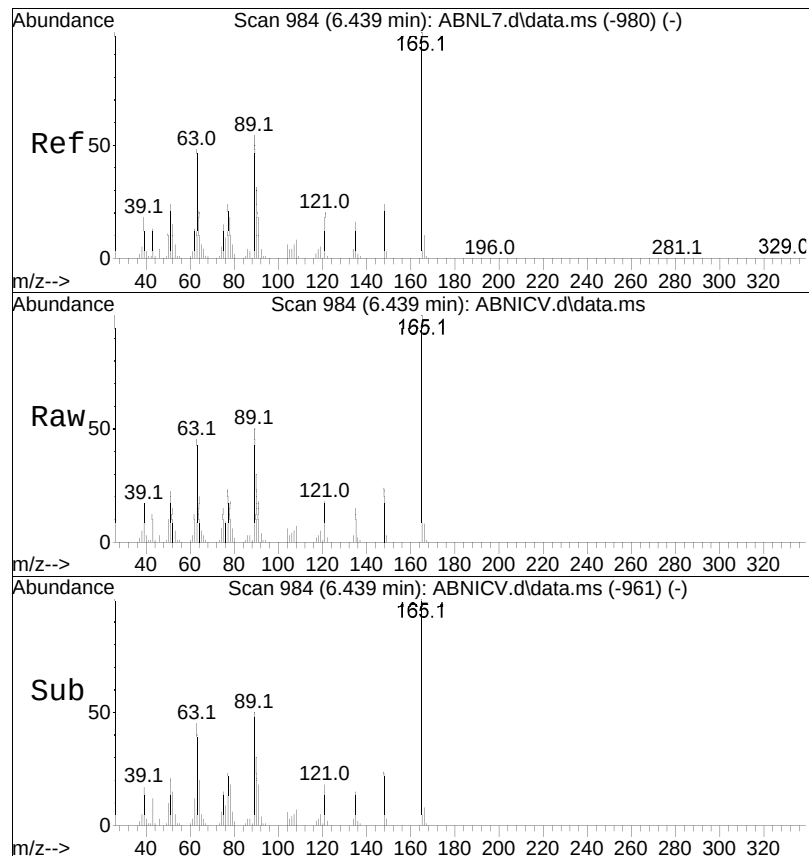




#52  
 Acenaphthylene  
 Concen: 47.70 ug/ml  
 RT: 6.471 min Scan# 990  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

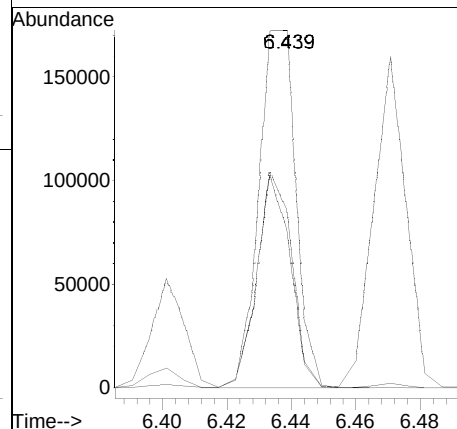
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 864459 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.9  | 16.7  | 25.1   |
| 153       | 13.4  | 11.1  | 16.7   |



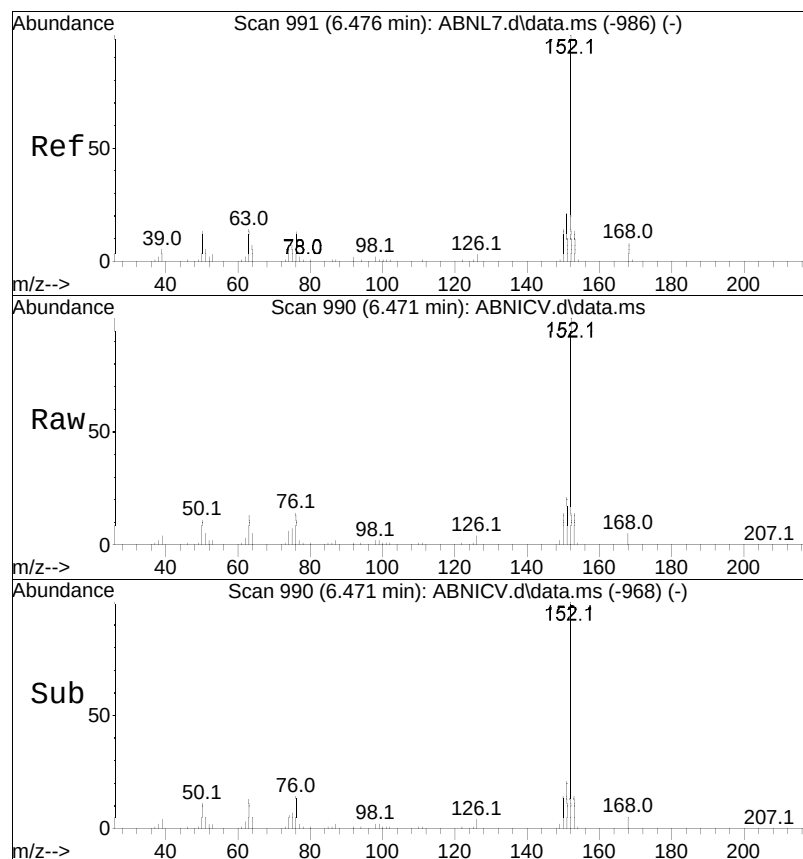


#53  
 2,6-Dinitrotoluene  
 Concen: 50.24 ug/ml  
 RT: 6.439 min Scan# 984  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 137935 |       |       |
| 89      | 56.6  |        | 43.1  | 64.7  |
| 63      | 53.8  |        | 42.7  | 64.1  |

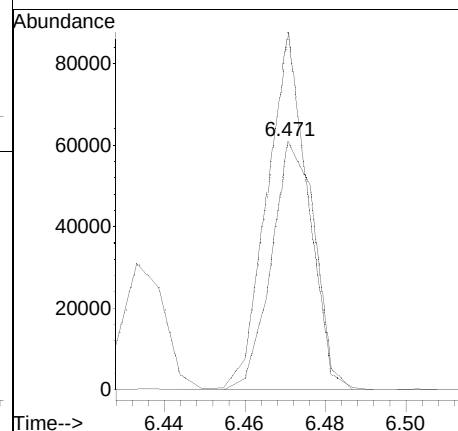


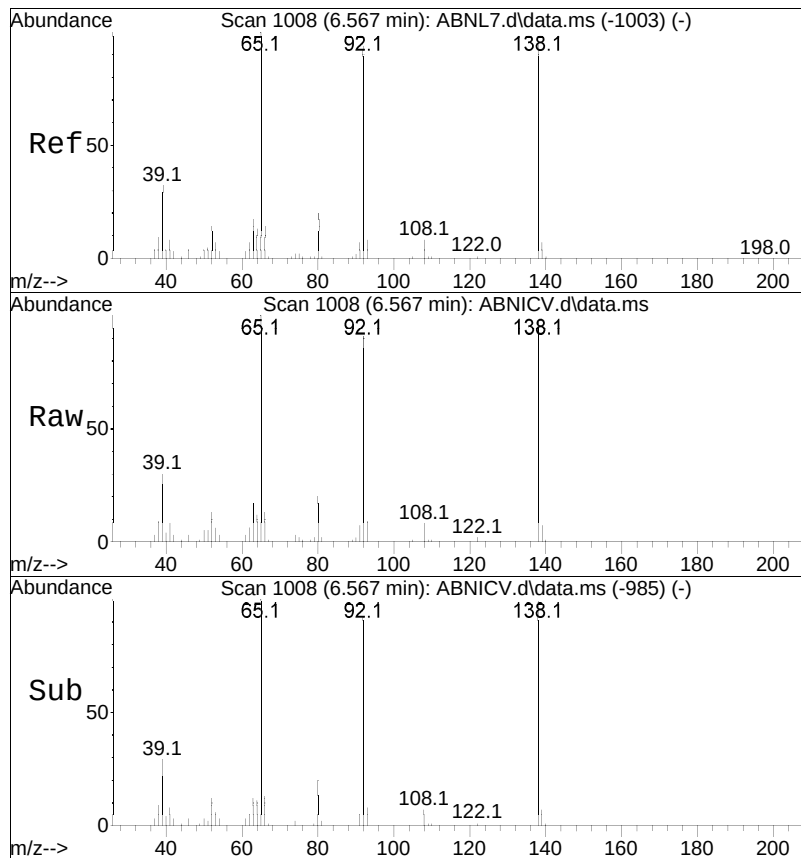




#54  
 1,2-Dinitrobenzene  
 Concen: 45.96 ug/ml  
 RT: 6.471 min Scan# 990  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

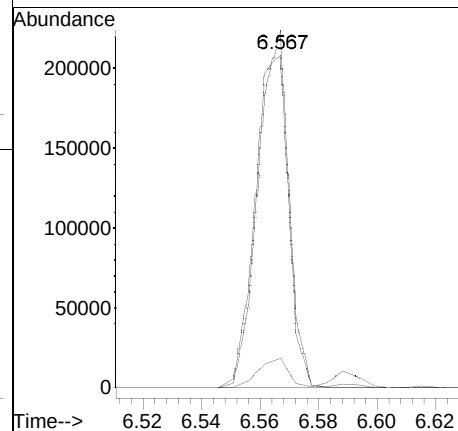
Tgt Ion:168 Resp: 45469  
 Ion Ratio Lower Upper  
 168 100  
 75 133.8 92.2 138.2

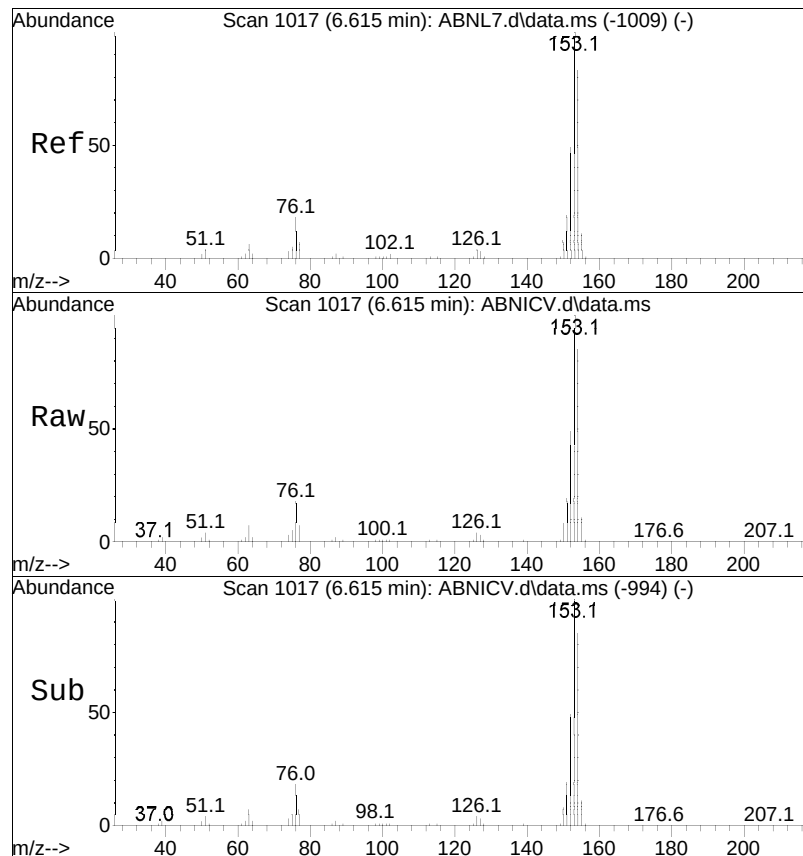




#64  
 3-Nitroaniline  
 Concen: 50.85 ug/ml  
 RT: 6.567 min Scan# 1008  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

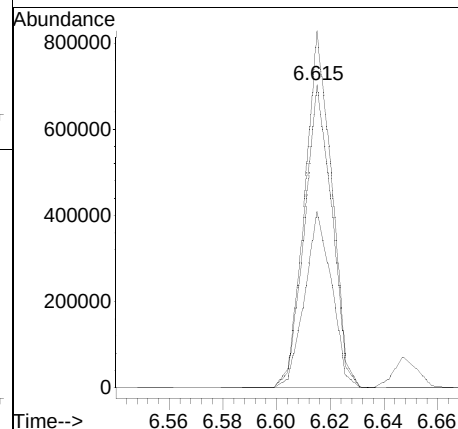
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 138     | 100   | 162219 |       |       |
| 92      | 100.1 |        | 77.5  | 116.3 |
| 108     | 8.3   |        | 7.0   | 10.4  |

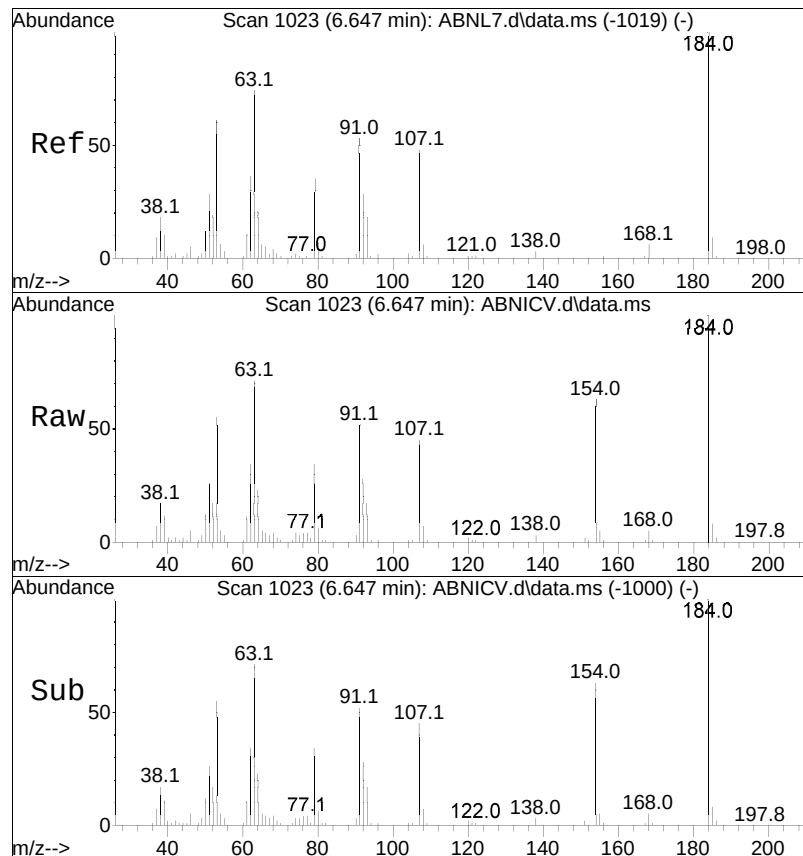




#65  
 Acenaphthene  
 Concen: 45.09 ug/ml  
 RT: 6.615 min Scan# 1017  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

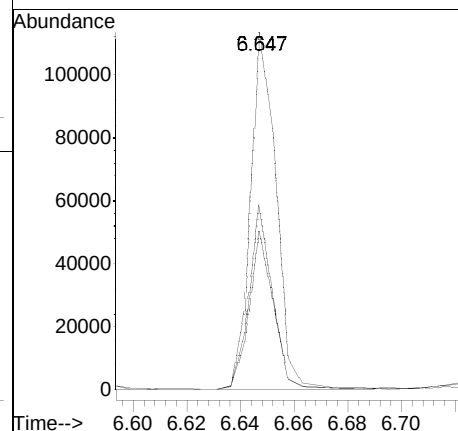
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.9 | 89.4  | 134.0 |
| 152     | 57.7  | 42.2  | 63.2  |

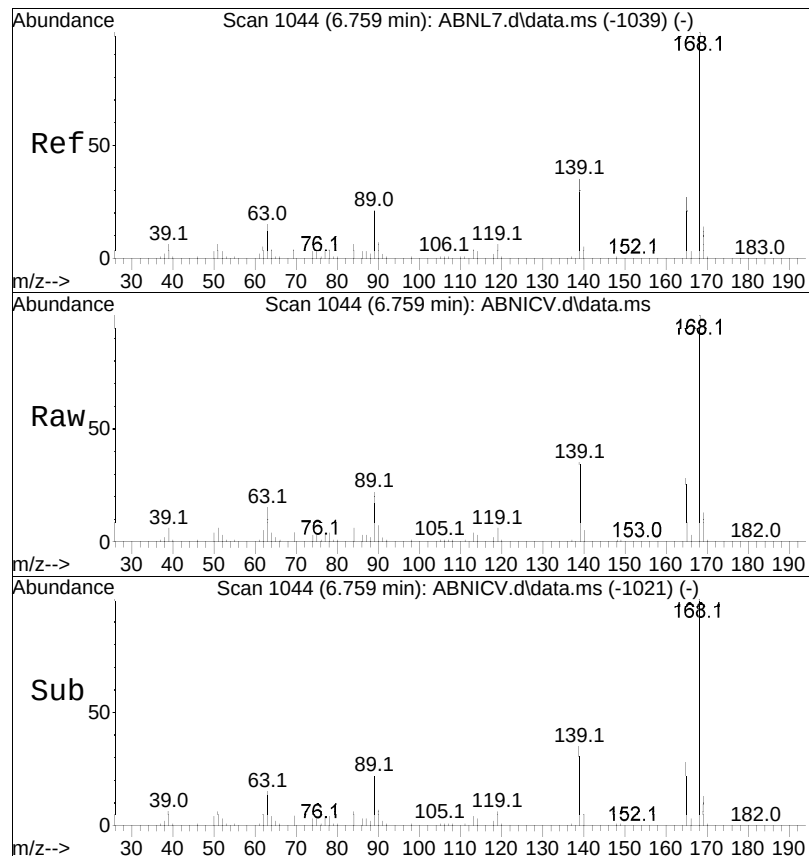




#66  
 2,4-Dinitrophenol  
 Concen: 40.03 ug/ml  
 RT: 6.647 min Scan# 1023  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

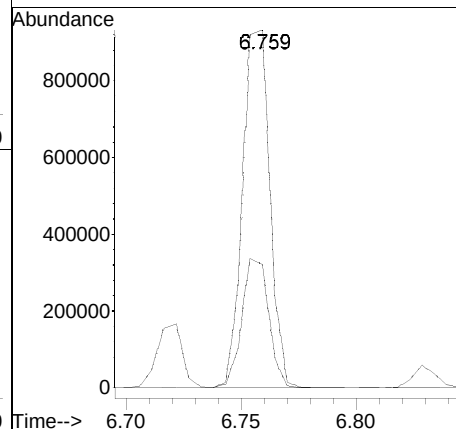
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 107     | 42.7  | 31.4  | 47.2  |
| 91      | 47.8  | 37.2  | 55.8  |

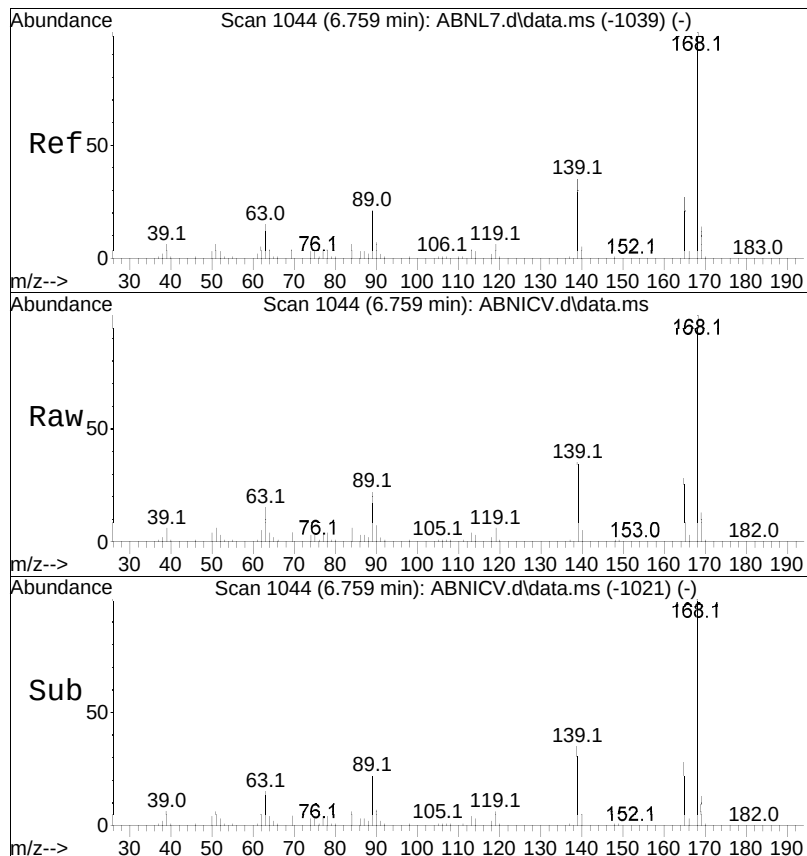




#67  
 Dibenzofuran  
 Concen: 45.63 ug/ml  
 RT: 6.759 min Scan# 1044  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

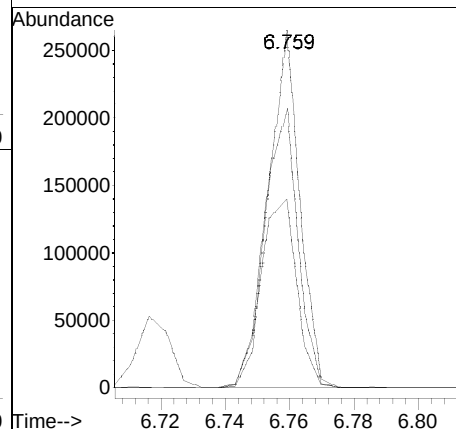
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 35.9  | 28.0  | 42.0  |

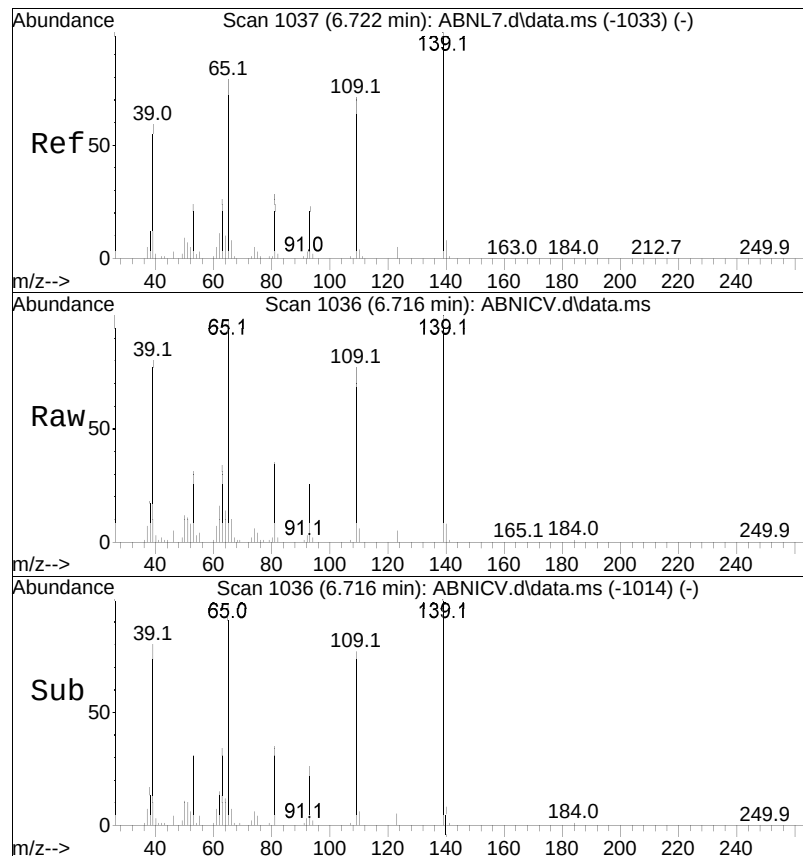




#68  
 2,4-Dinitrotoluene  
 Concen: 49.01 ug/ml  
 RT: 6.759 min Scan# 1044  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

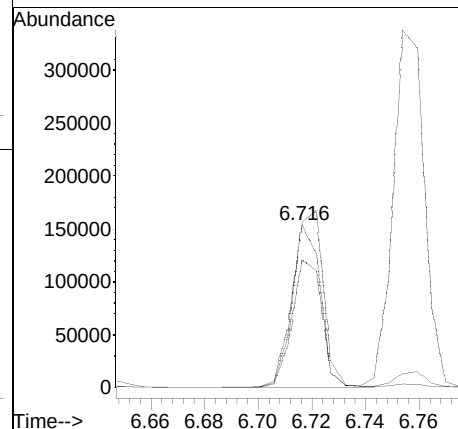
| Tgt Ion:  | 165   | Resp: | 176189 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 89        | 85.1  | 63.0  | 94.6   |
| 63        | 61.6  | 50.3  | 75.5   |

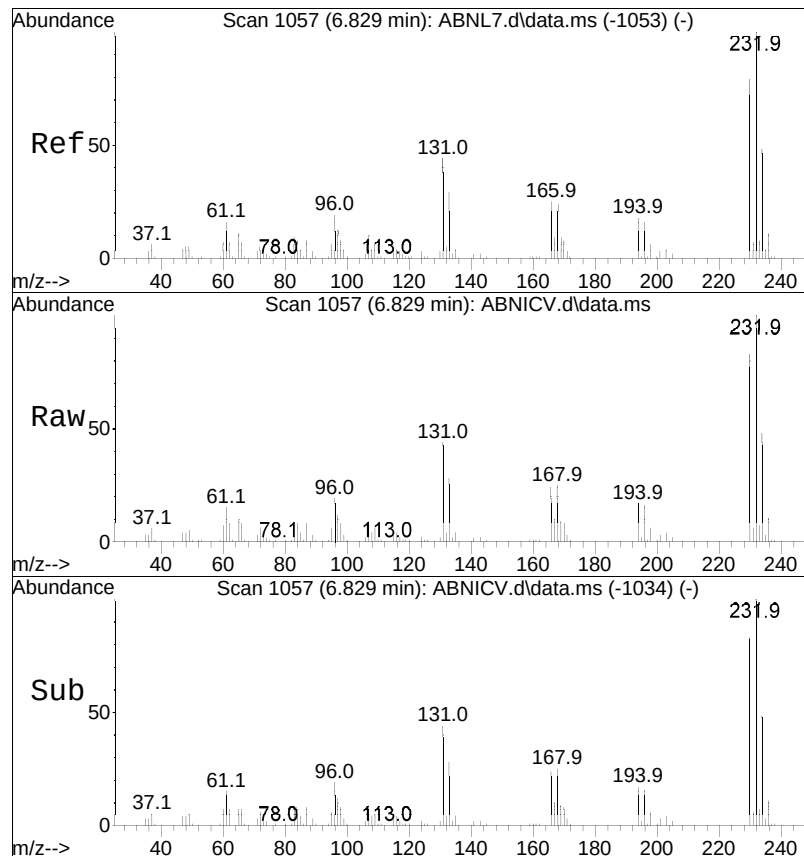




#69  
 4-Nitrophenol  
 Concen: 50.82 ug/ml  
 RT: 6.716 min Scan# 1036  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

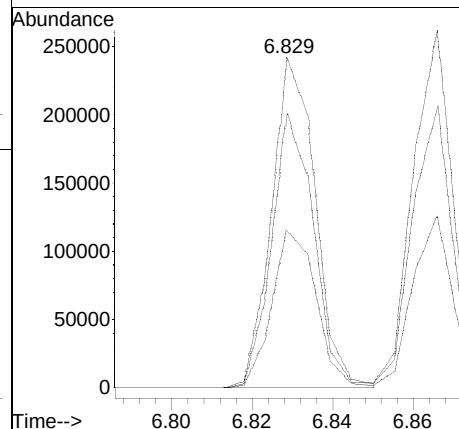
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 115766 |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 109       | 80.6  | 55.3  | 82.9   |
| 139       | 111.7 | 95.1  | 142.7  |



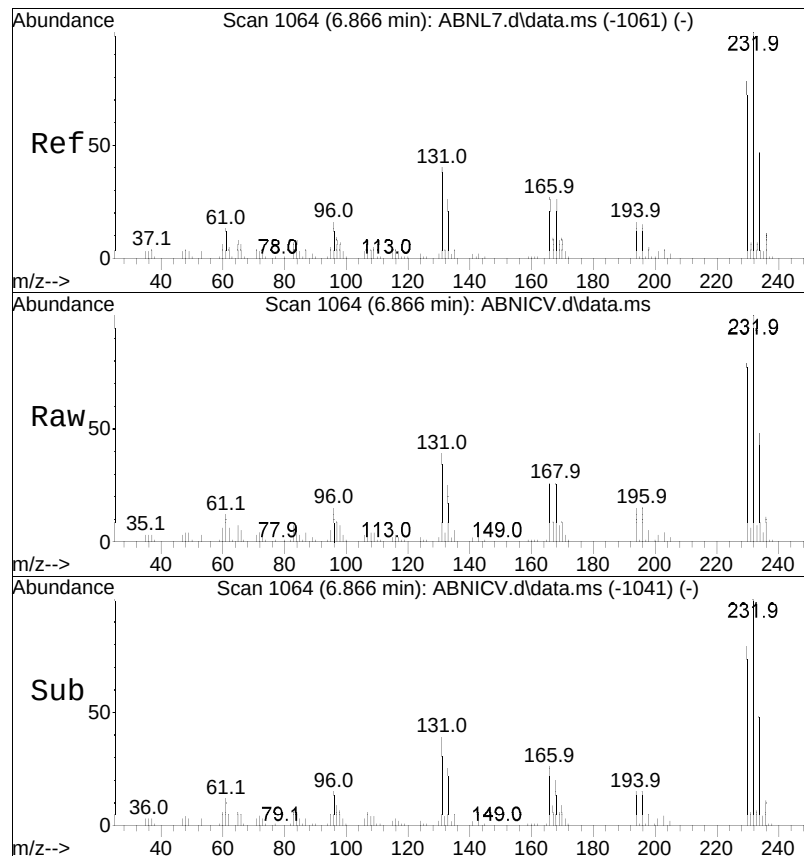


#70  
 2,3,5,6-Tetrachlorophenol  
 Concen: 47.89 ug/ml  
 RT: 6.829 min Scan# 1057  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 182485 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 80.2  | 64.4  | 96.6   |
| 234       | 48.4  | 38.9  | 58.3   |

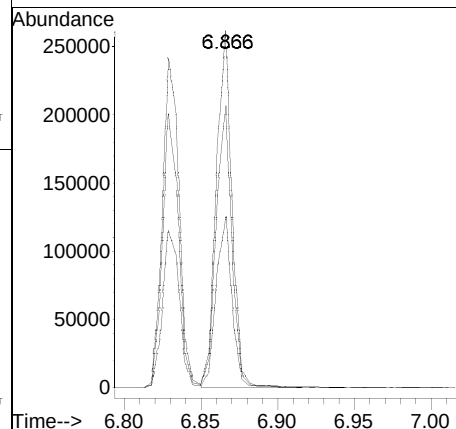


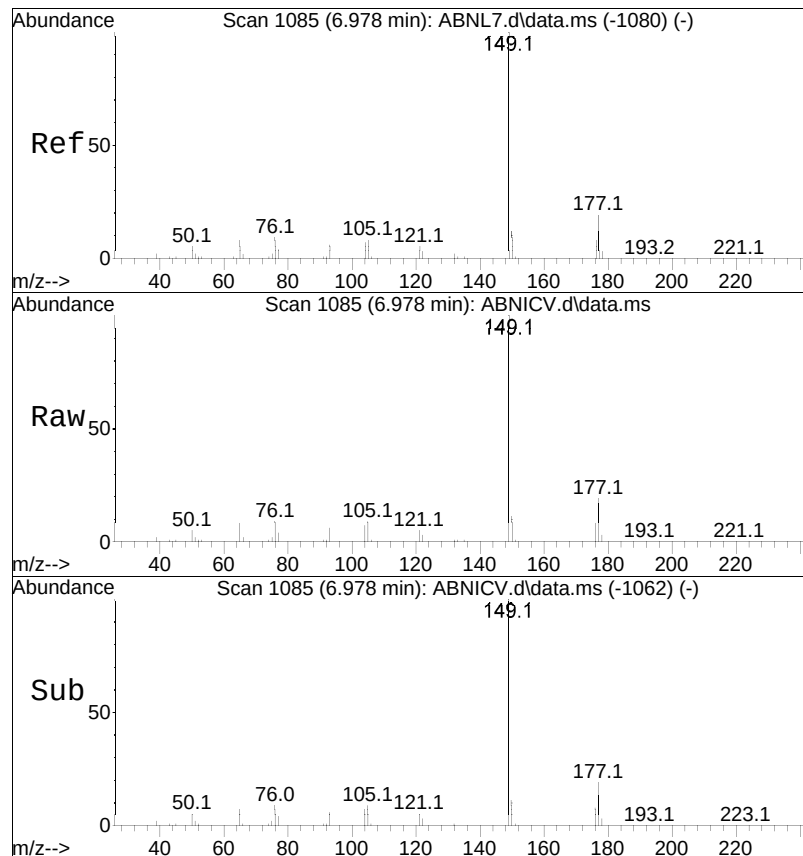




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 45.77 ug/ml  
 RT: 6.866 min Scan# 1064  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

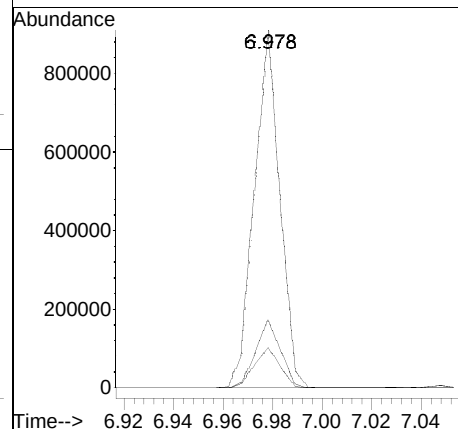
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 186640 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 78.5  | 64.2  | 96.4   |
| 234       | 48.8  | 38.4  | 57.6   |

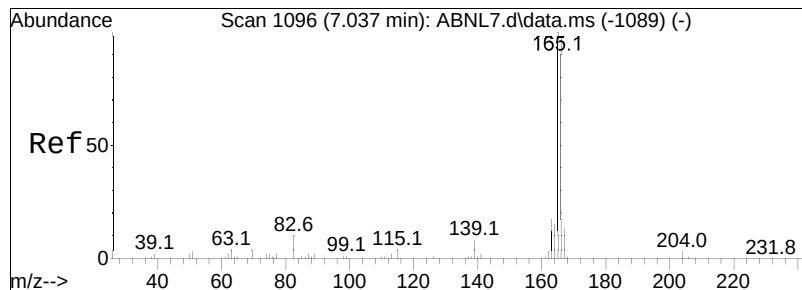




#72  
 Diethyl phthalate  
 Concen: 47.07 ug/ml  
 RT: 6.978 min Scan# 1085  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 18.8  | 16.2  | 24.2  |
| 150     | 11.6  | 9.4   | 14.0  |





#73

Fluorene

Concen: 45.88 ug/ml

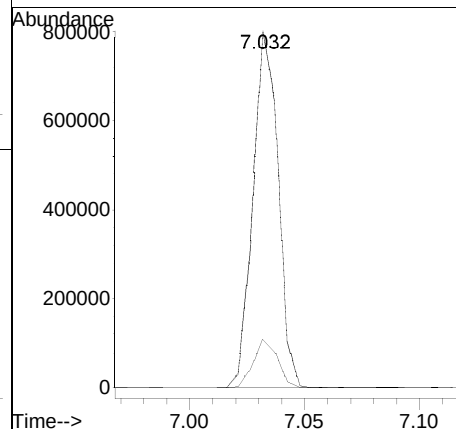
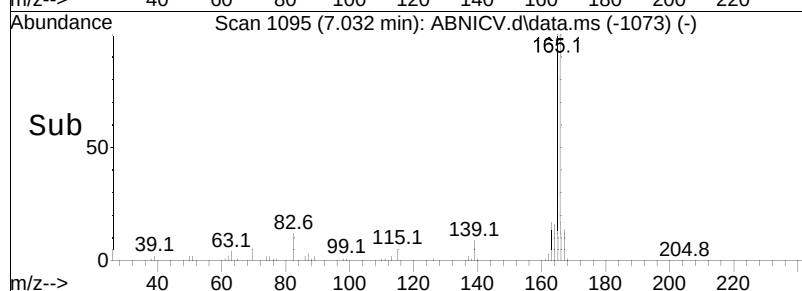
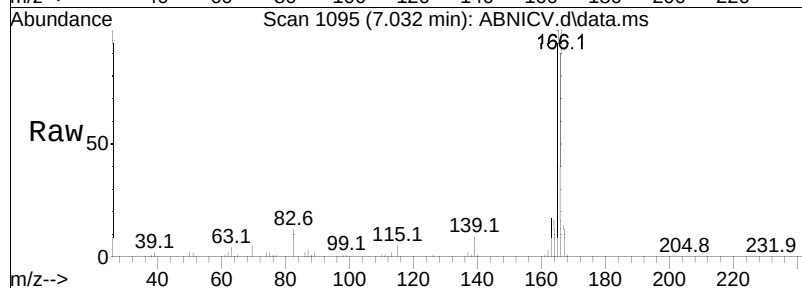
RT: 7.032 min Scan# 1095

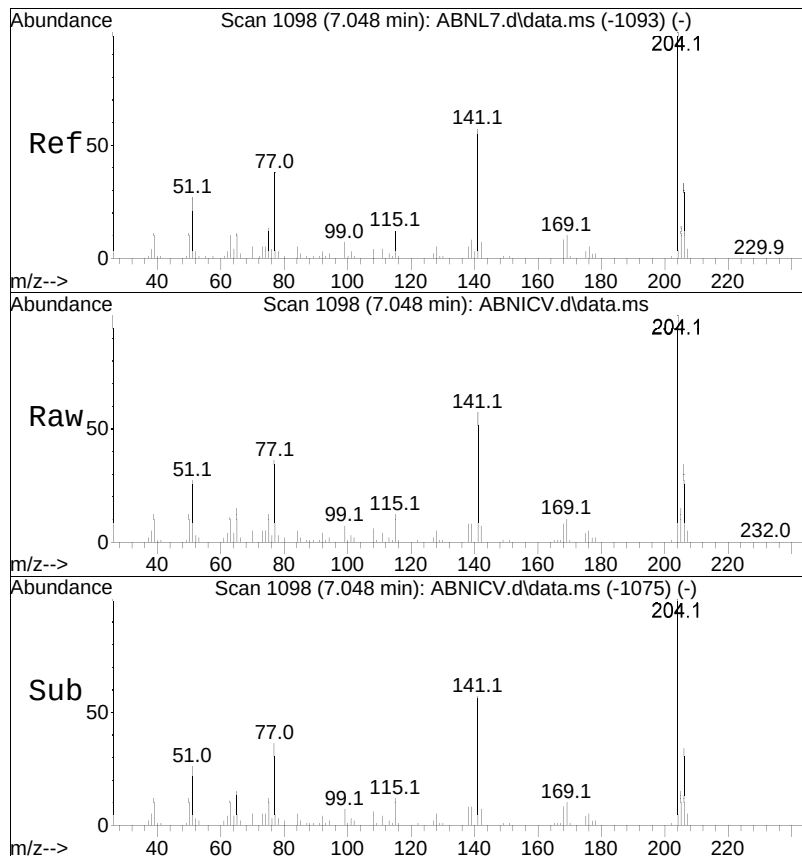
Delta R.T. -0.005 min

Lab File: ABNICV.d

Acq: 9 Jun 2019 11:14 pm

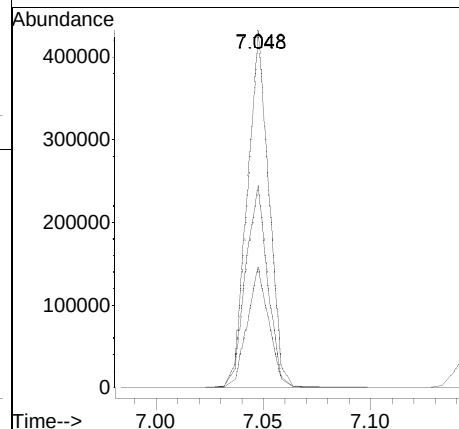
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.1 | 77.2  | 115.8 |
| 167     | 13.5  | 10.9  | 16.3  |

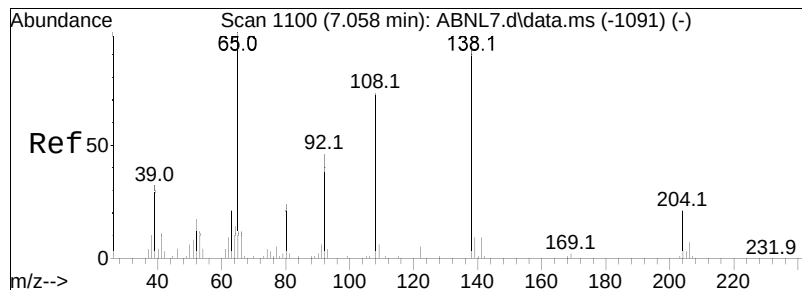




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 44.11 ug/ml  
 RT: 7.048 min Scan# 1098  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

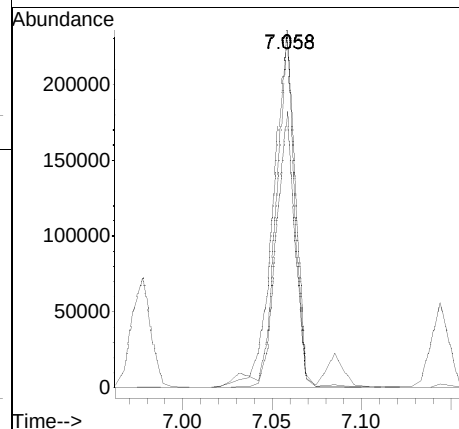
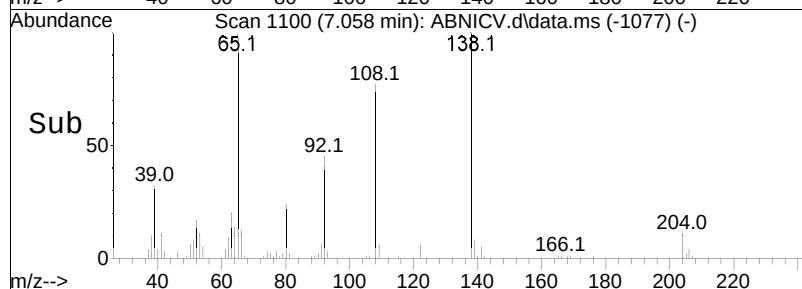
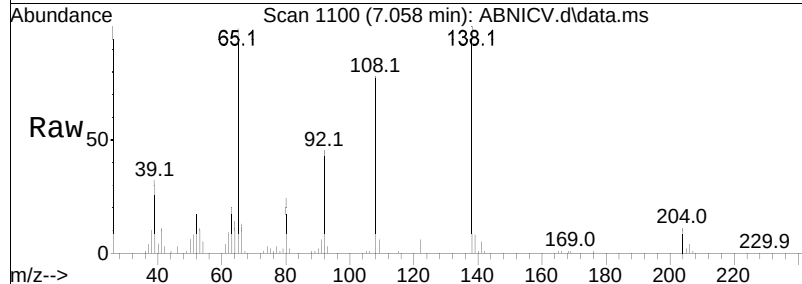
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:204 | Resp: | 297567 |
| Ion | Ratio   | Lower | Upper  |
| 204 | 100     |       |        |
| 206 | 34.1    | 27.0  | 40.6   |
| 141 | 58.4    | 42.2  | 63.2   |

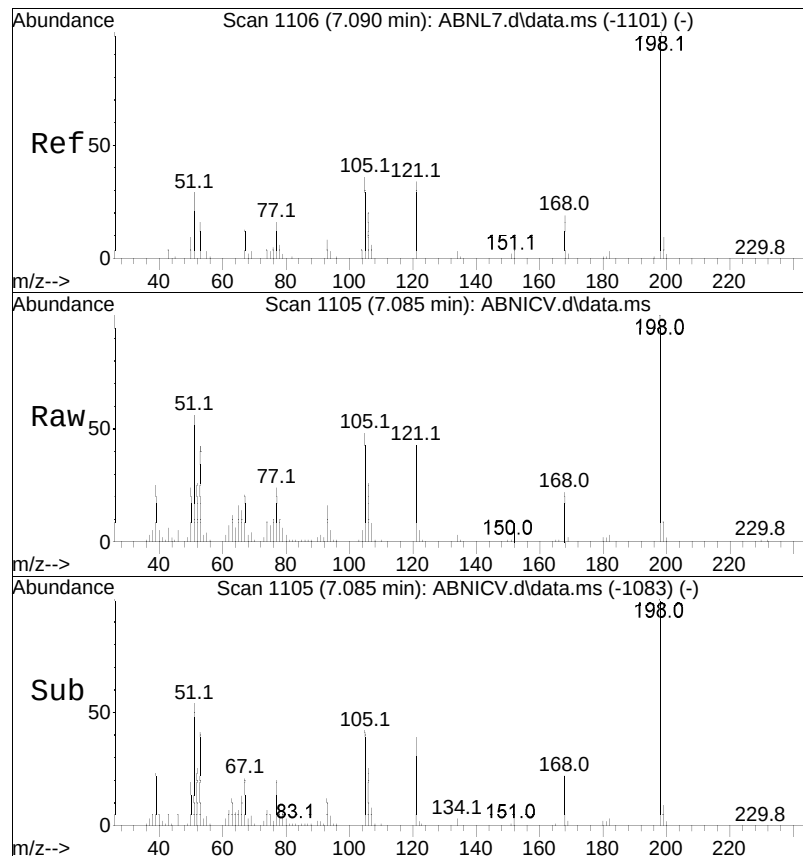




#75  
 4-Nitroaniline  
 Concen: 51.65 ug/ml  
 RT: 7.058 min Scan# 1100  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

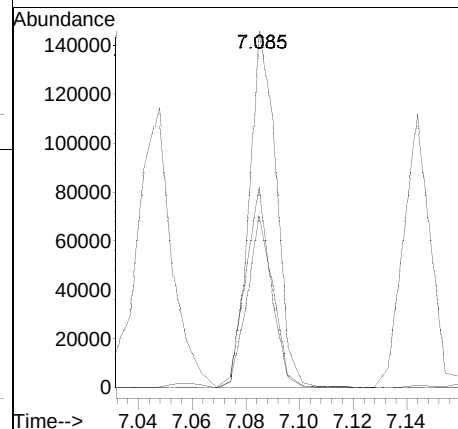
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 74.3  | 46.7  | 70.1# |
| 65      | 108.0 | 81.2  | 121.8 |

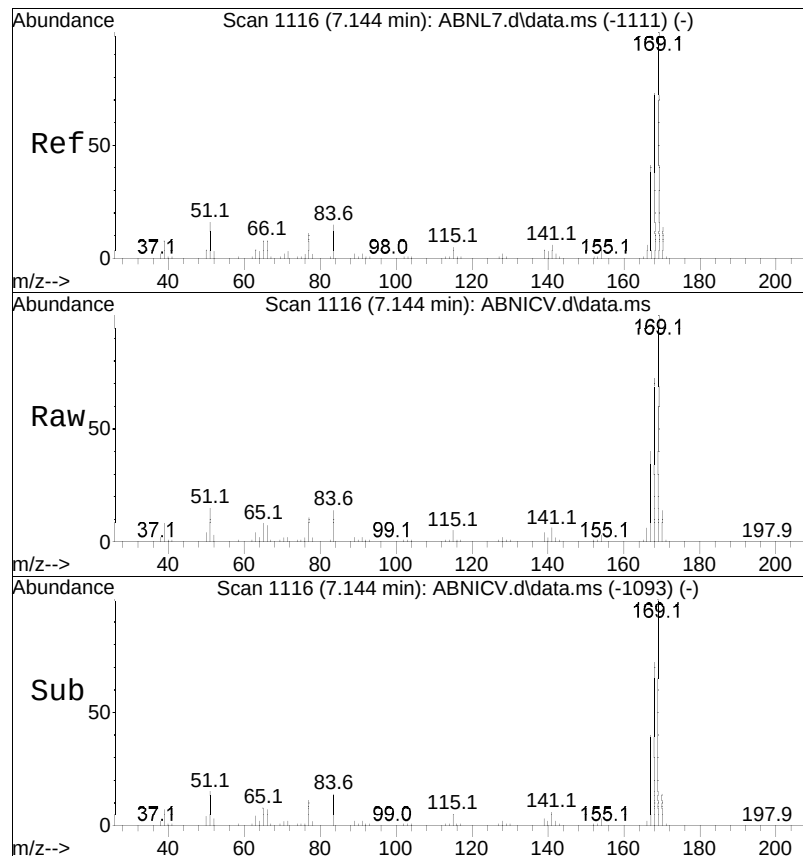




#76  
 4,6-Dinitro-o-cresol  
 Concen: 49.55 ug/ml  
 RT: 7.085 min Scan# 1105  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 198     | 100   | 103737 |       |       |
| 51      | 52.1  |        | 35.0  | 52.6  |
| 105     | 46.4  |        | 32.3  | 48.5  |





#77

NDPA/DPA

Concen: 46.61 ug/ml

RT: 7.144 min Scan# 1116

Delta R.T. -0.000 min

Lab File: ABNICV.d

Acq: 9 Jun 2019 11:14 pm

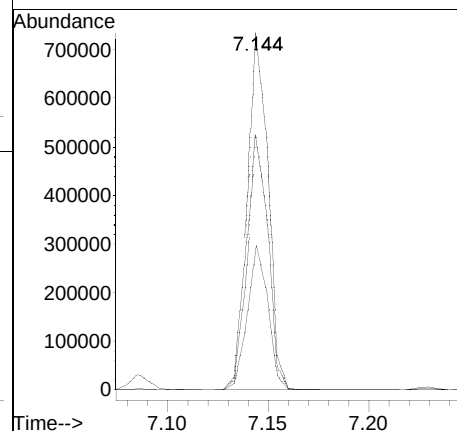
Tgt Ion:169 Resp: 526121

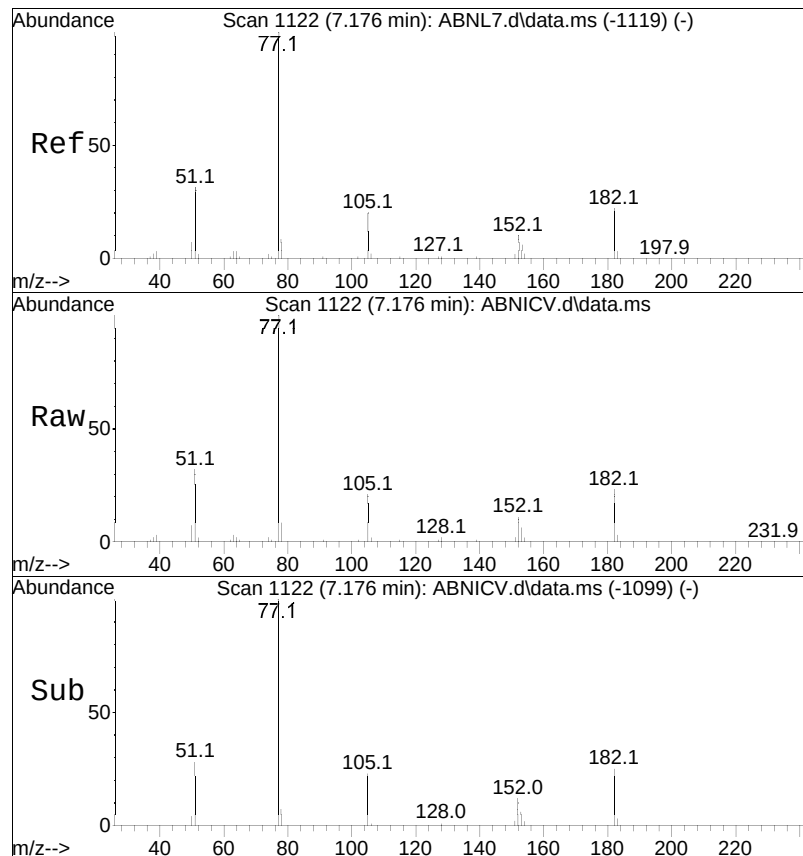
Ion Ratio Lower Upper

169 100

168 71.7 54.6 82.0

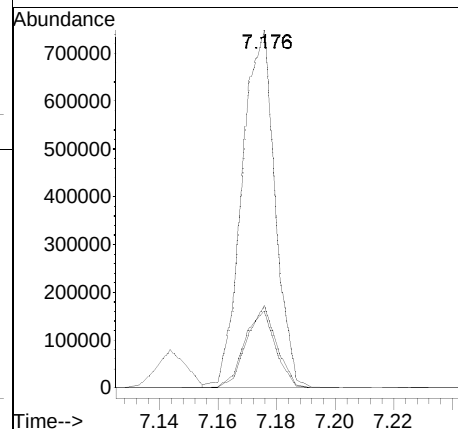
167 40.4 30.7 46.1



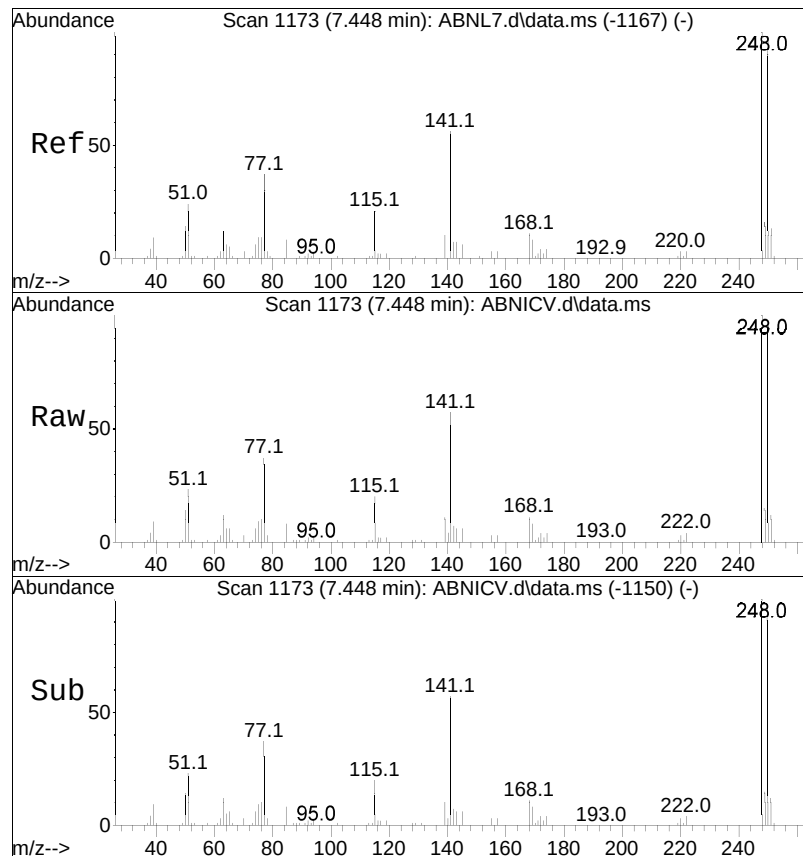


#78  
 Azobenzene  
 Concen: 47.89 ug/ml  
 RT: 7.176 min Scan# 1122  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 21.1  | 19.8  | 29.8  |
| 105     | 20.7  | 12.1  | 18.1# |

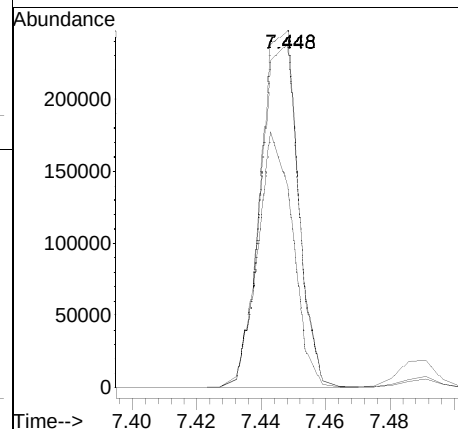


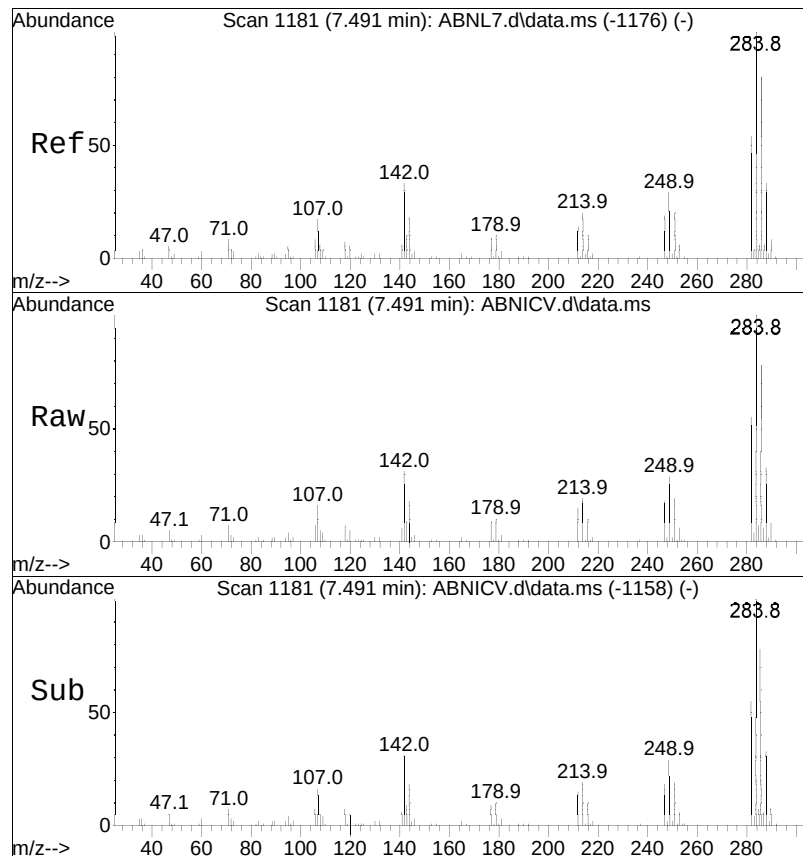




#80  
 4-Bromophenyl phenyl ether  
 Concen: 45.97 ug/ml  
 RT: 7.448 min Scan# 1173  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

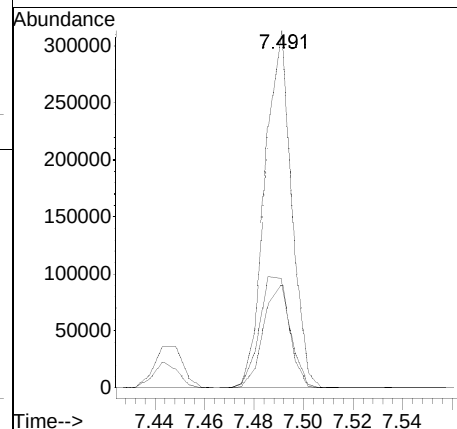
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 141     | 67.0  | 46.6  | 70.0  |
| 250     | 96.5  | 79.4  | 119.2 |

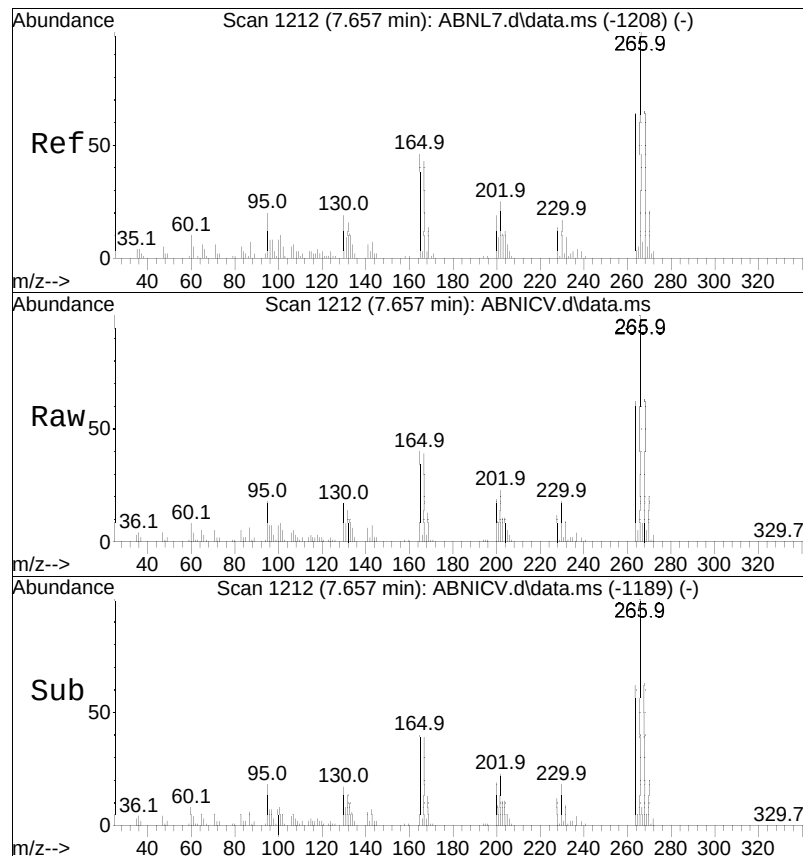




#81  
 Hexachlorobenzene  
 Concen: 45.11 ug/ml  
 RT: 7.491 min Scan# 1181  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

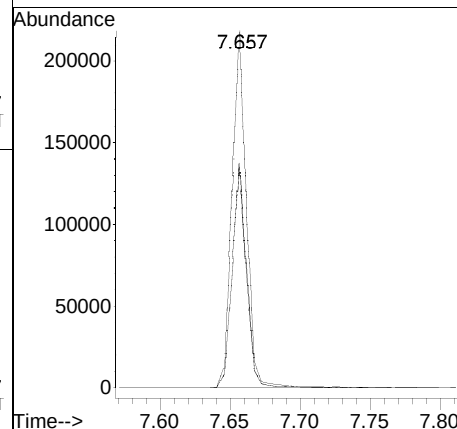
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 284   | Resp: | 233061 |
| Ion Ratio | Lower | Upper |        |
| 284       | 100   |       |        |
| 142       | 35.3  | 26.0  | 39.0   |
| 249       | 30.0  | 20.6  | 30.8   |

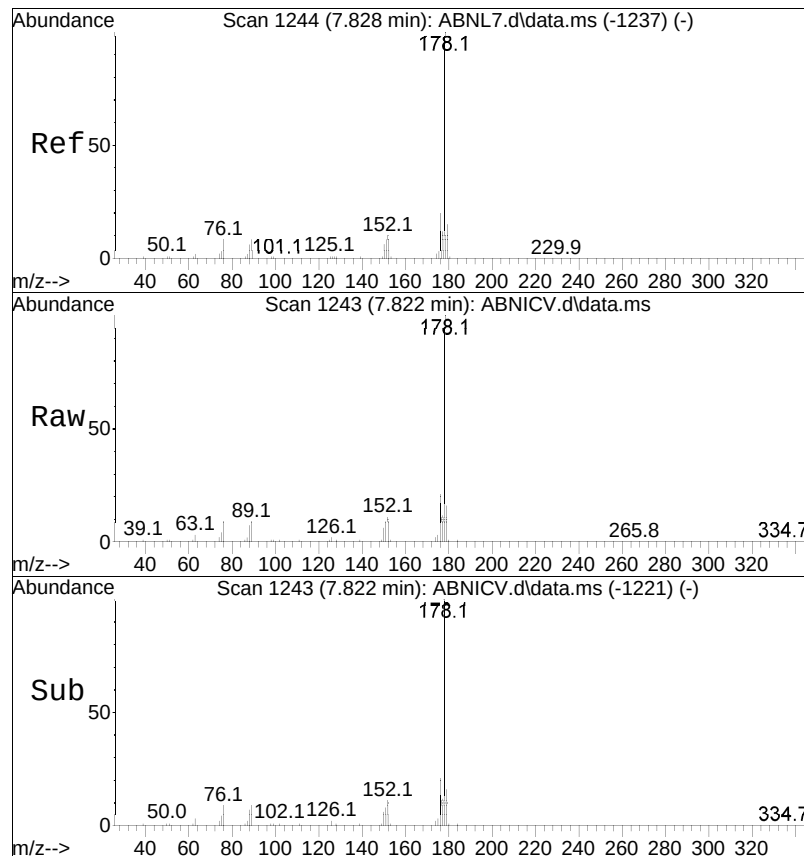




#82  
 Pentachlorophenol  
 Concen: 46.64 ug/ml  
 RT: 7.657 min Scan# 1212  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

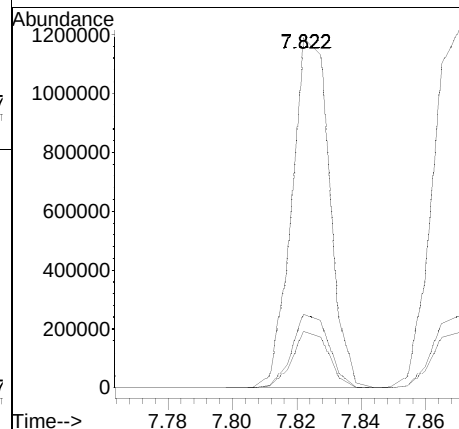
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 154271 |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 61.9  | 51.2  | 76.8   |
| 268       | 63.3  | 51.5  | 77.3   |

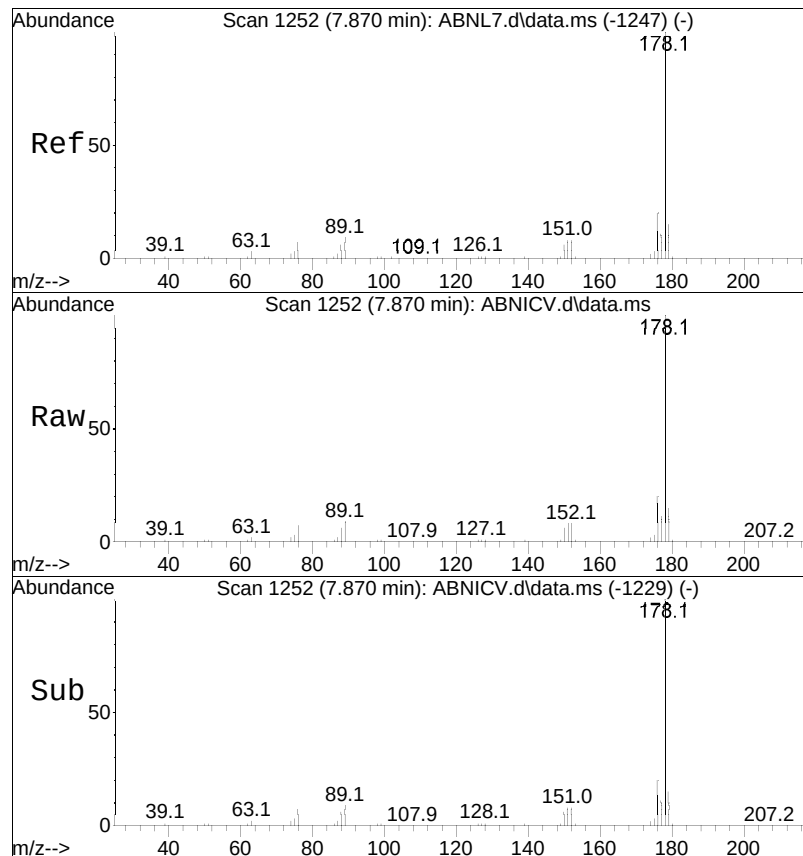




#89  
 Phenanthrene  
 Concen: 45.41 ug/ml  
 RT: 7.822 min Scan# 1243  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

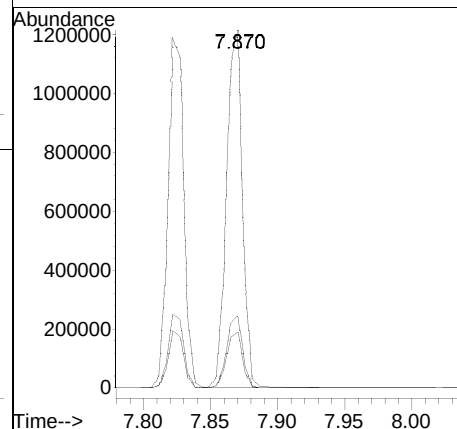
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 969238 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.7  | 19.1   |
| 176       | 20.6  | 15.8  | 23.6   |

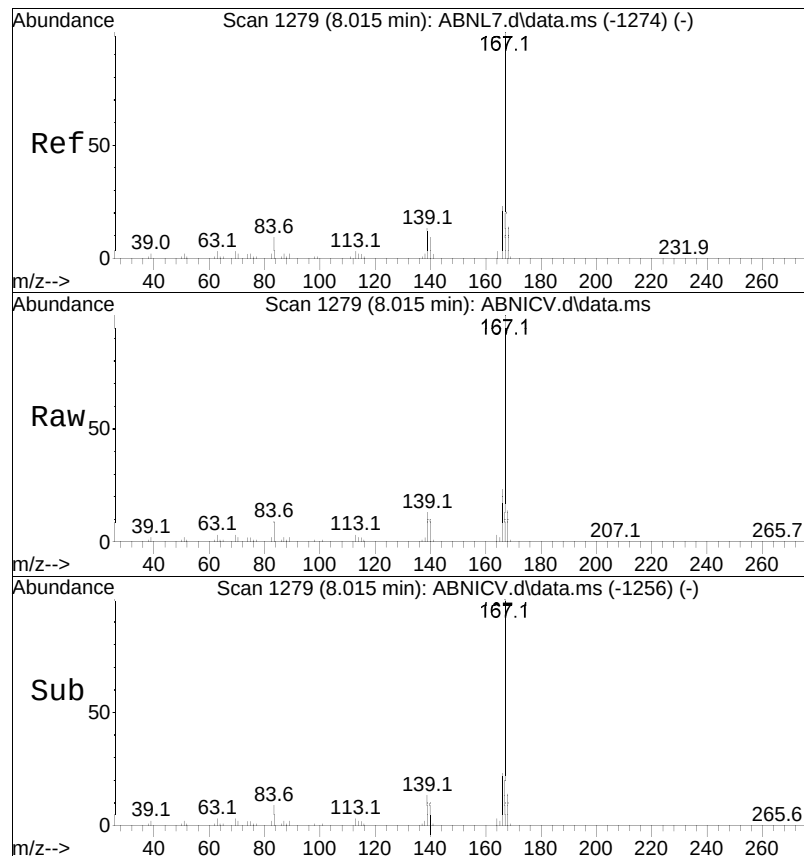




#90  
 Anthracene  
 Concen: 47.81 ug/ml  
 RT: 7.870 min Scan# 1252  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

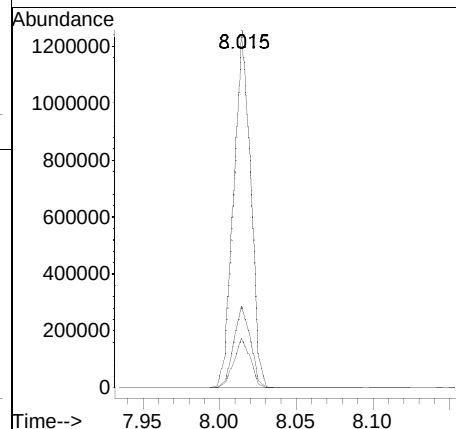
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.5  | 18.7  |
| 176     | 19.9  | 15.4  | 23.0  |

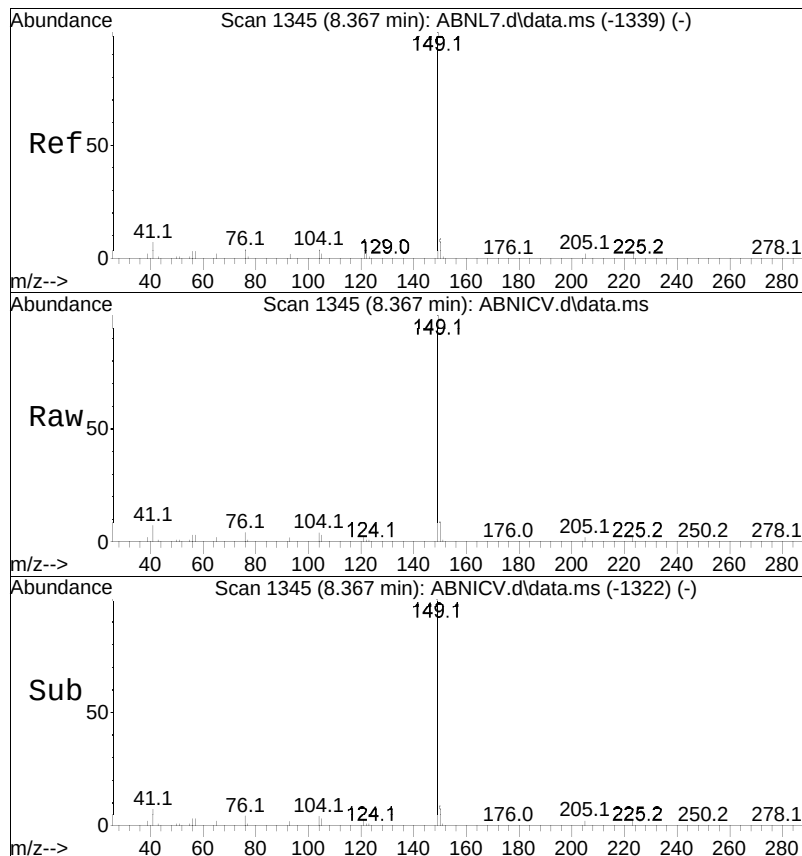




#91  
 Carbazole  
 Concen: 49.07 ug/ml  
 RT: 8.015 min Scan# 1279  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

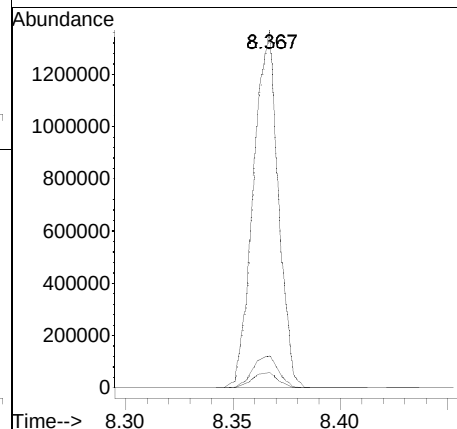
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 946940 |       |       |
| 168     | 13.8  |        | 11.3  | 16.9  |
| 166     | 22.9  |        | 17.8  | 26.8  |

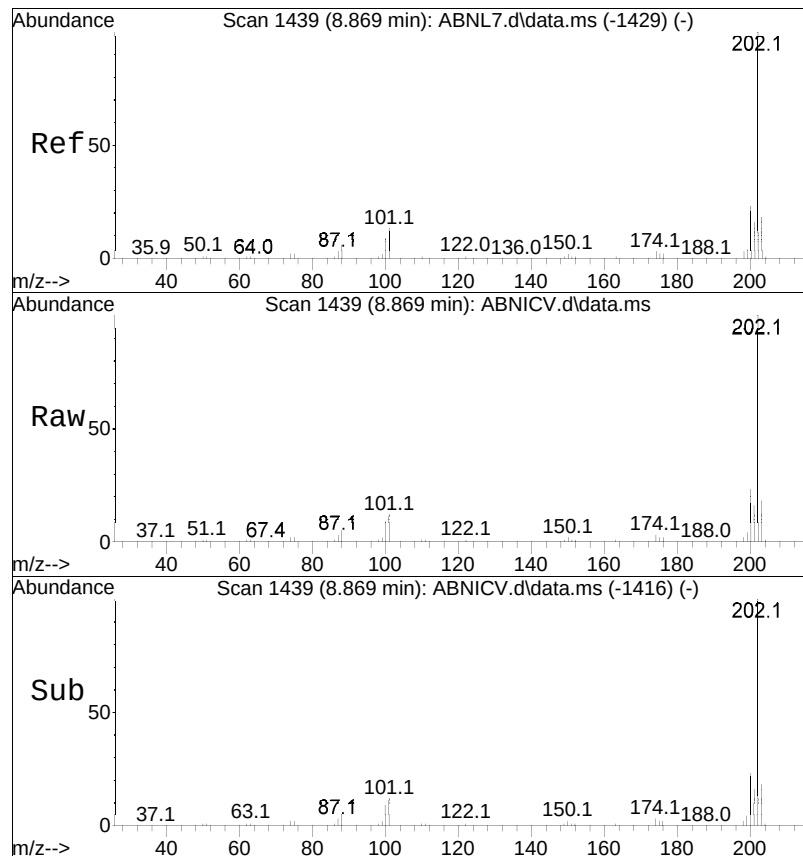




#92  
 Di-n-butylphthalate  
 Concen: 51.63 ug/ml  
 RT: 8.367 min Scan# 1345  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

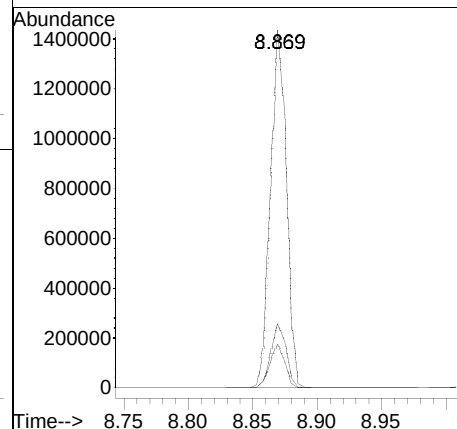
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.3   | 7.4   | 11.2  |
| 104     | 4.5   | 3.8   | 5.8   |



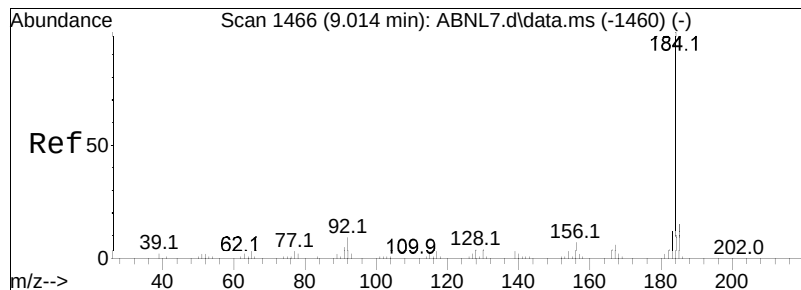


#93  
 Fluoranthene  
 Concen: 48.62 ug/ml  
 RT: 8.869 min Scan# 1439  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.8  | 12.6  | 19.0# |
| 203     | 17.6  | 14.4  | 21.6  |







#94

Benzidine

Concen: 53.45 ug/ml

RT: 9.014 min Scan# 1466

Delta R.T. -0.000 min

Lab File: ABNICV.d

Acq: 9 Jun 2019 11:14 pm

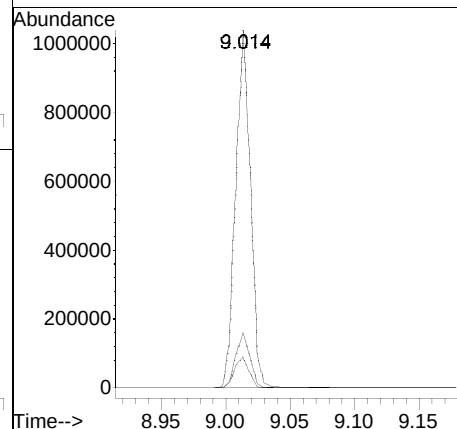
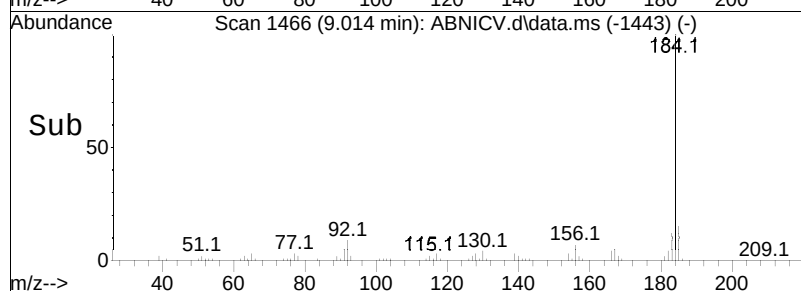
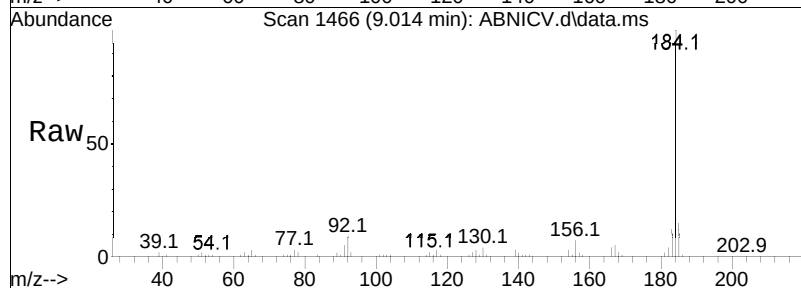
Tgt Ion:184 Resp: 814910

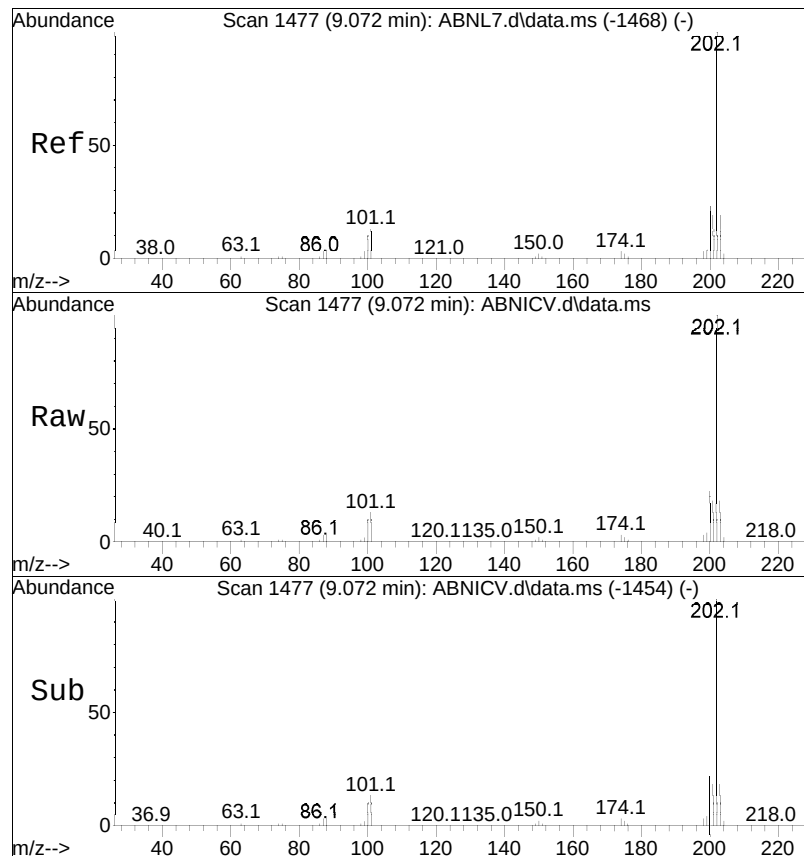
Ion Ratio Lower Upper

184 100

92 8.8 8.4 12.6

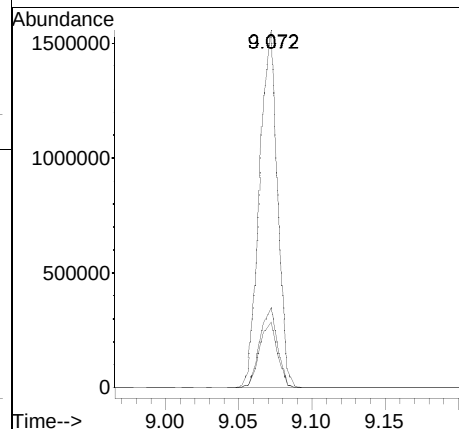
185 15.2 11.5 17.3

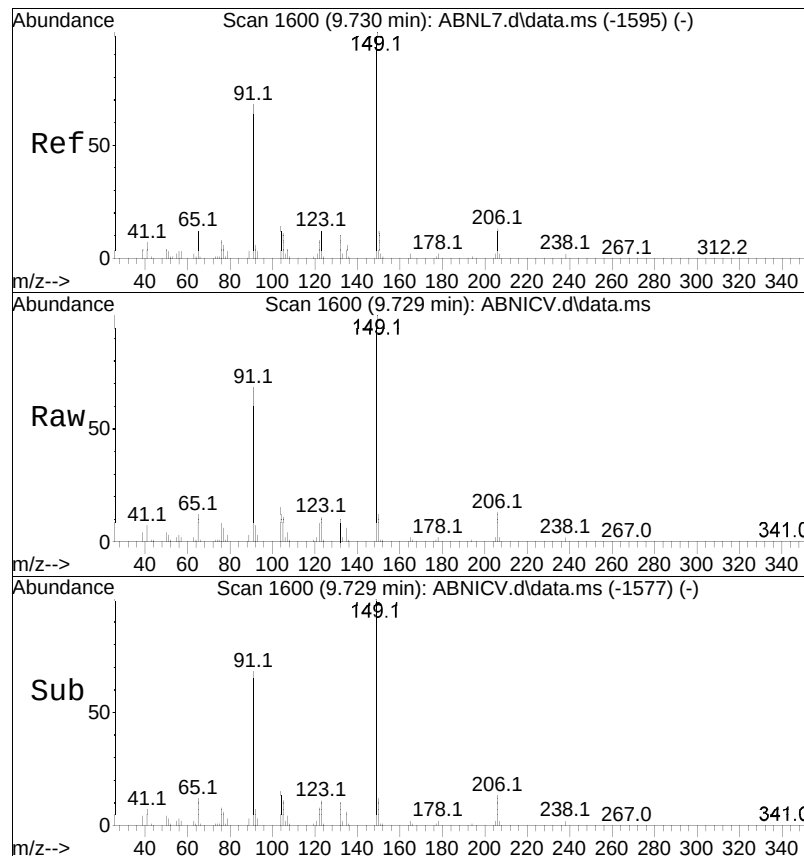




#95  
 Pyrene  
 Concen: 48.88 ug/ml  
 RT: 9.072 min Scan# 1477  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

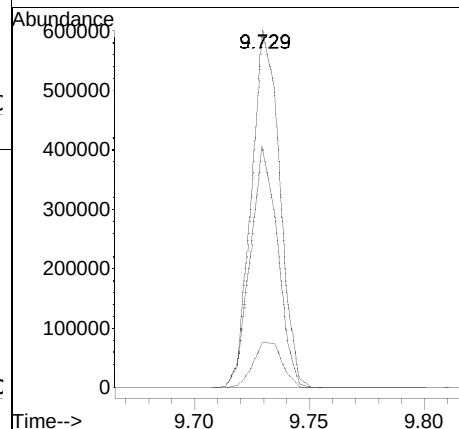
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.3  | 17.2  | 25.8  |
| 203     | 18.6  | 15.0  | 22.6  |

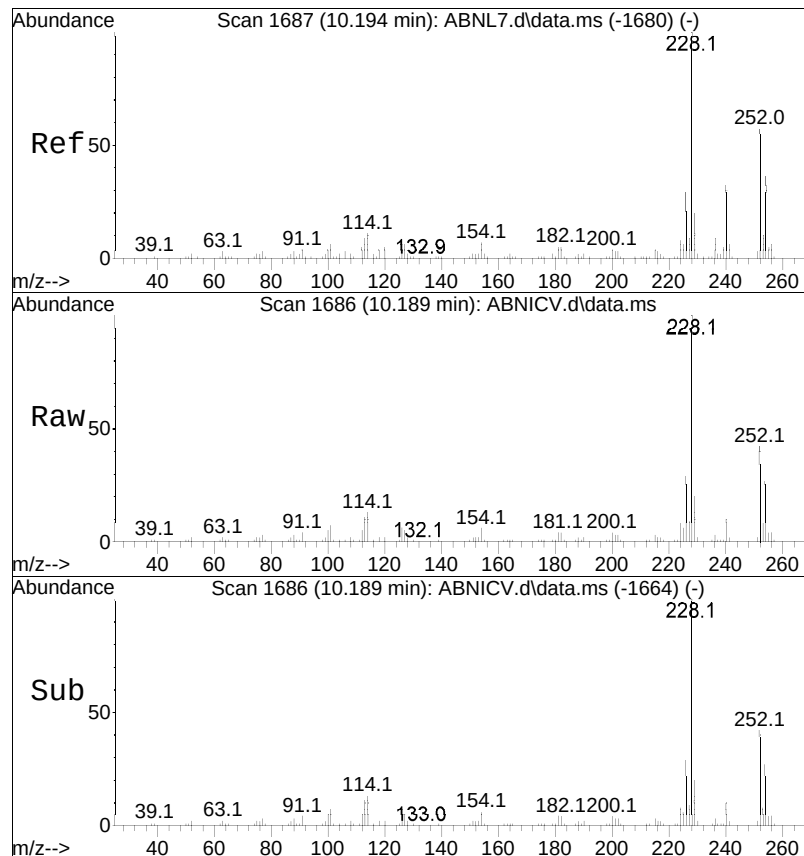




#97  
 Butyl benzyl phthalate  
 Concen: 51.07 ug/ml  
 RT: 9.729 min Scan# 1600  
 Delta R.T. -0.001 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

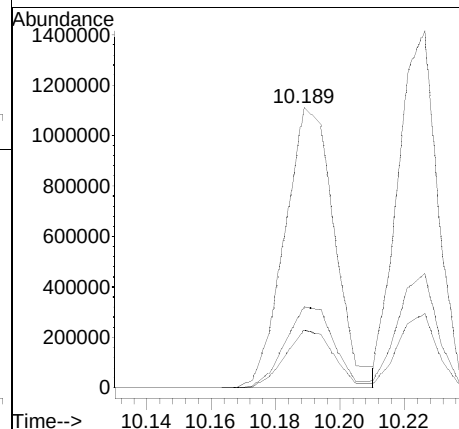
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 508501 |       |       |
| 91      | 65.5  |        | 53.4  | 80.2  |
| 206     | 13.3  |        | 13.3  | 19.9# |

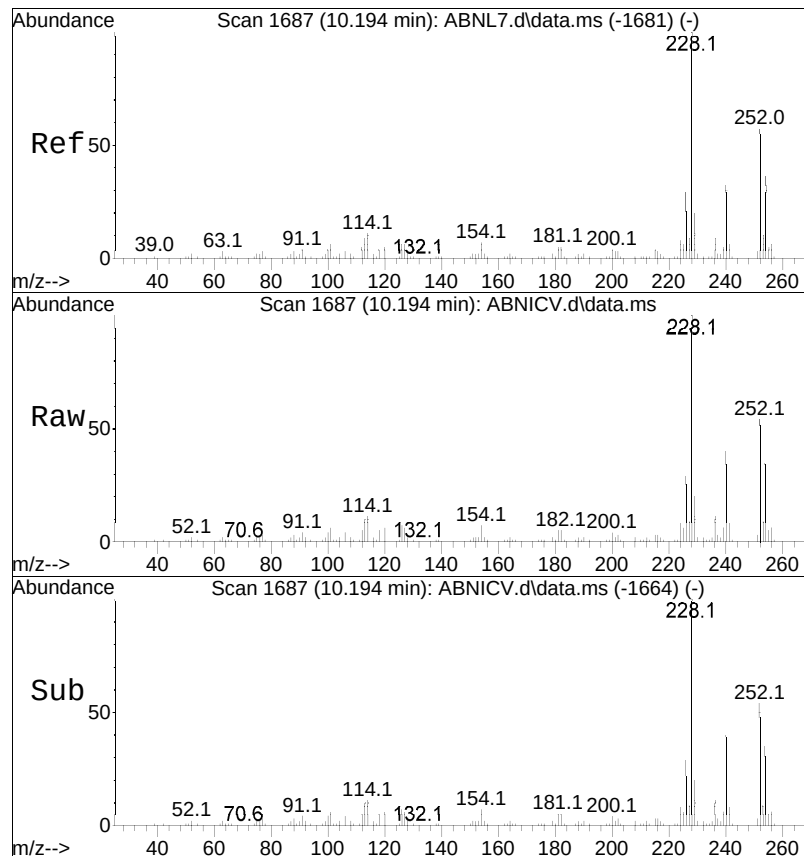




#105  
 Benzo(a)anthracene  
 Concen: 47.67 ug/ml  
 RT: 10.189 min Scan# 1686  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

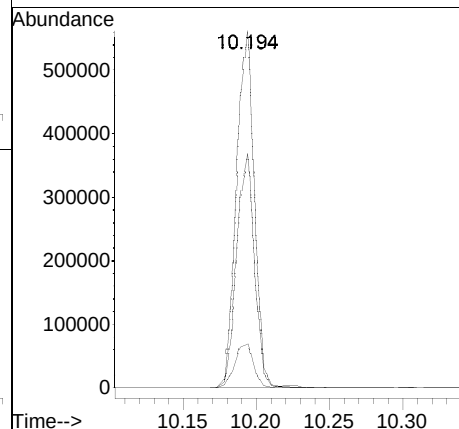
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.9  | 34.3  |
| 229     | 20.4  | 16.1  | 24.1  |

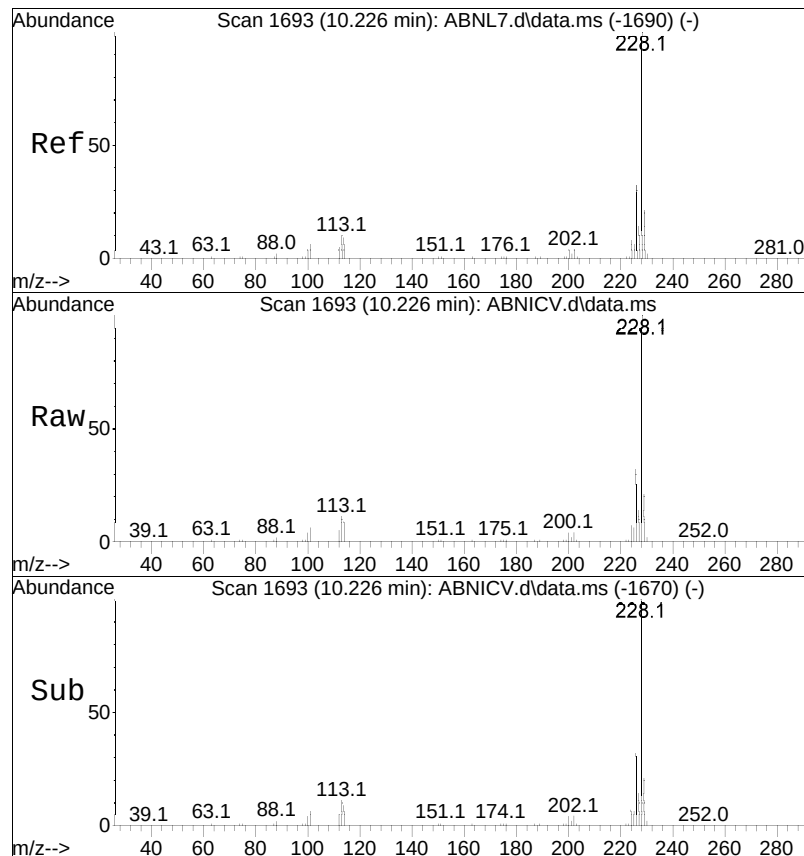




#106  
 3,3'-Dichlorobenzidine  
 Concen: 49.99 ug/ml  
 RT: 10.194 min Scan# 1687  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

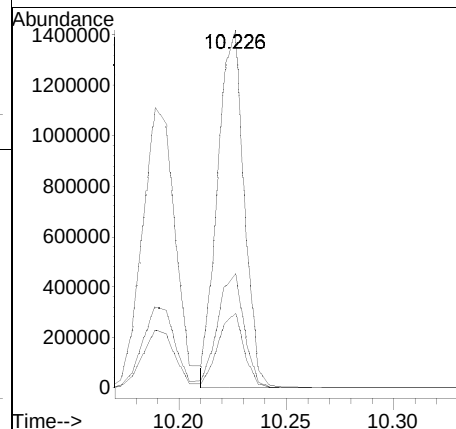
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 126     | 13.1  | 13.4  | 20.0# |
| 254     | 65.6  | 52.8  | 79.2  |

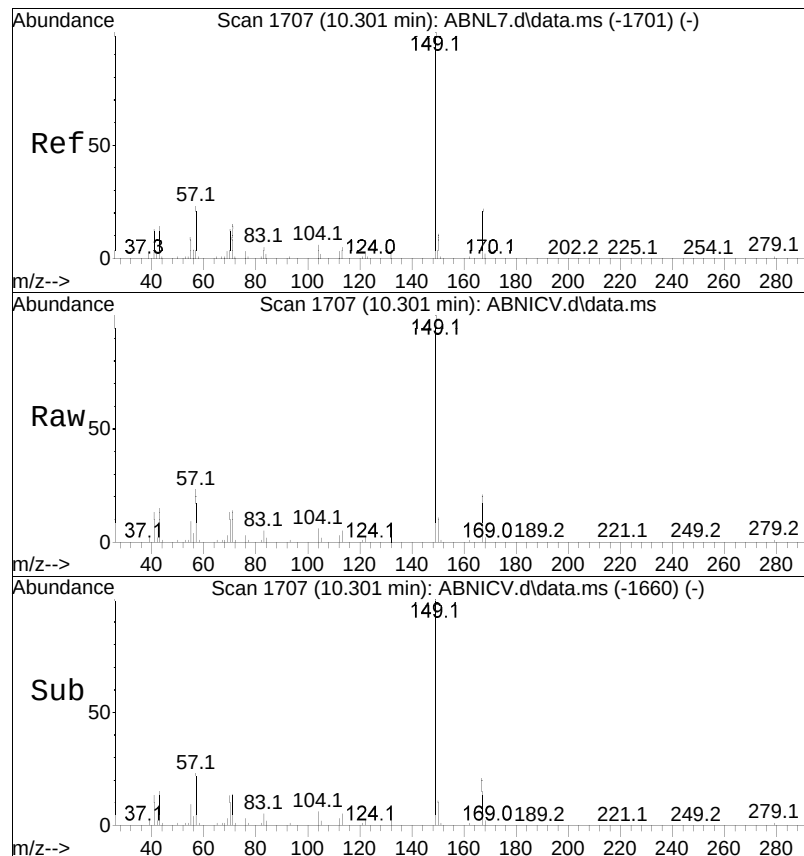




#107  
 Chrysene  
 Concen: 45.21 ug/ml  
 RT: 10.226 min Scan# 1693  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

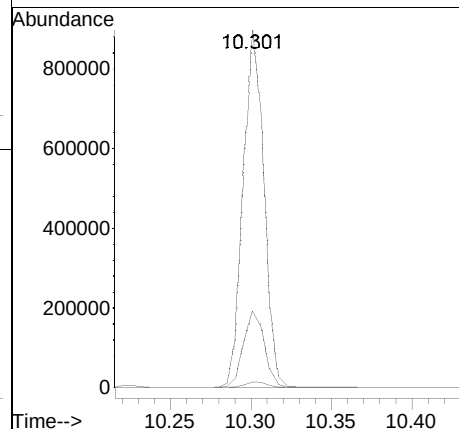
|              |               |
|--------------|---------------|
| Tgt Ion: 228 | Resp: 1210482 |
| Ion Ratio    | Lower Upper   |
| 228 100      |               |
| 226 32.5     | 24.9 37.3     |
| 229 20.5     | 16.6 24.8     |

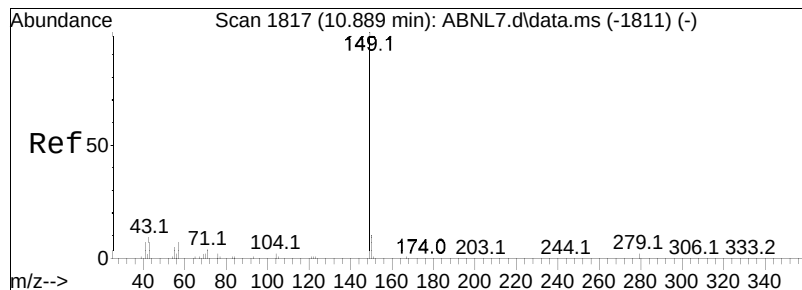




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 48.95 ug/ml  
 RT: 10.301 min Scan# 1707  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

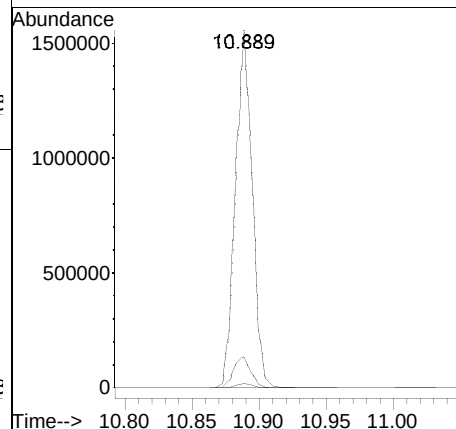
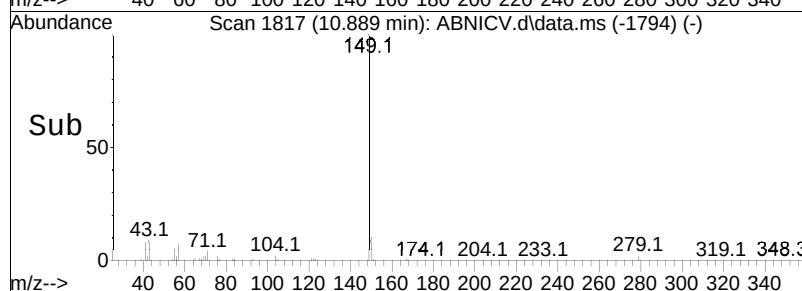
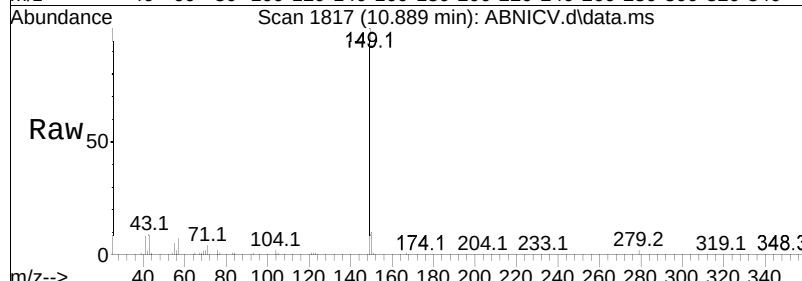
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 21.7  | 21.2  | 31.8  |
| 279     | 1.5   | 3.8   | 5.6#  |



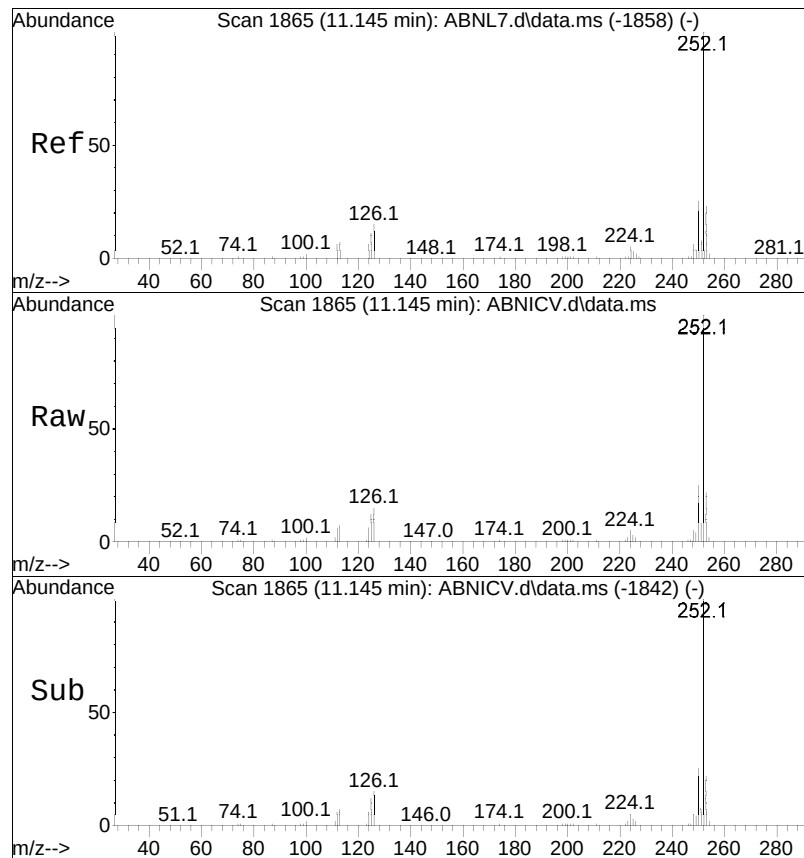


#109  
 Di-n-octylphthalate  
 Concen: 51.64 ug/ml  
 RT: 10.889 min Scan# 1817  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 43      | 9.2   | 8.0   | 12.0  |
| 167     | 1.2   | 1.0   | 1.6   |

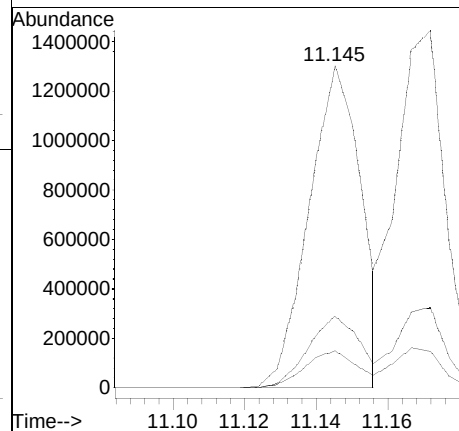


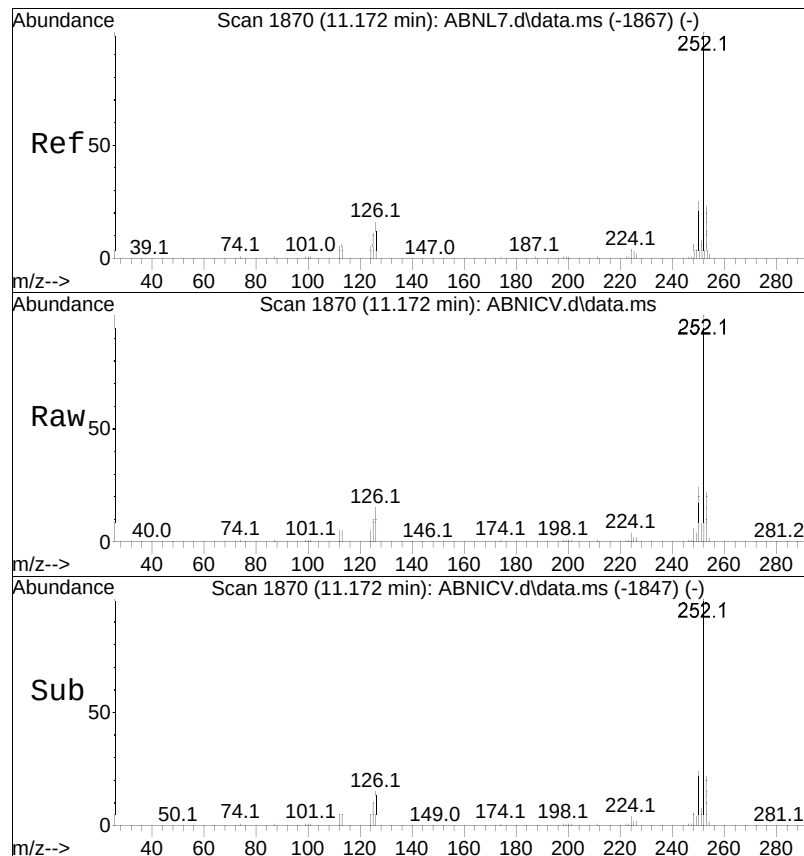




#110  
 Benzo(b)fluoranthene  
 Concen: 48.61 ug/ml  
 RT: 11.145 min Scan# 1865  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

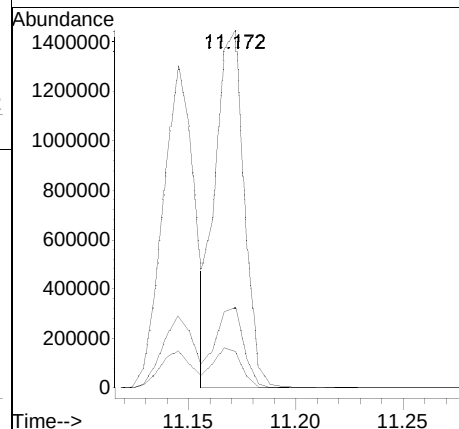
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 11.8  | 12.6  | 18.8# |
| 253     | 22.3  | 18.2  | 27.2  |

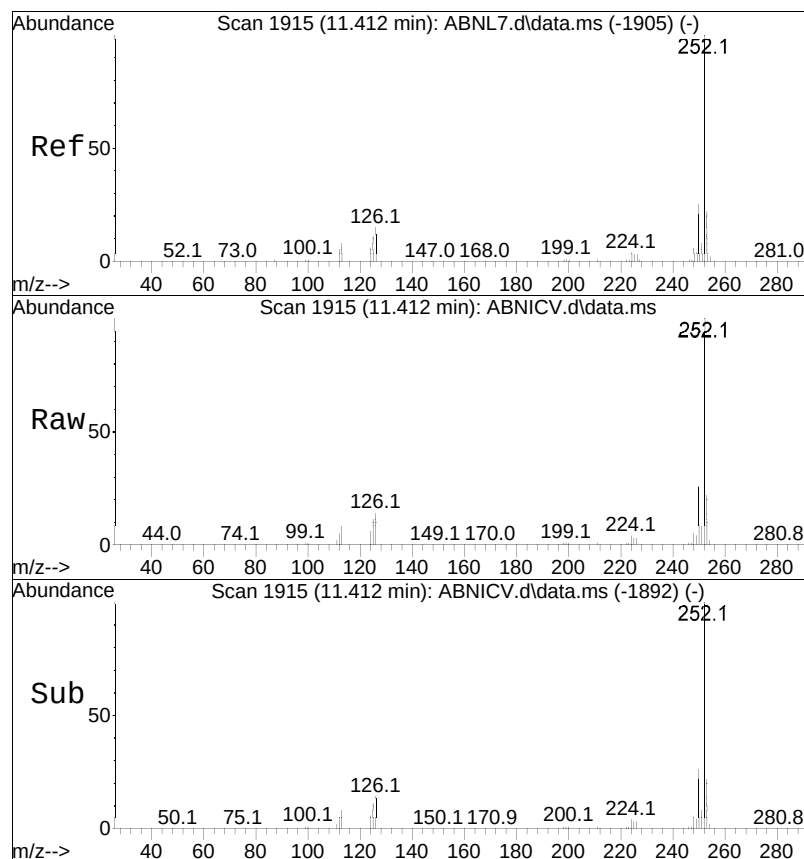




#111  
 Benzo(k)fluoranthene  
 Concen: 51.67 ug/ml  
 RT: 11.172 min Scan# 1870  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

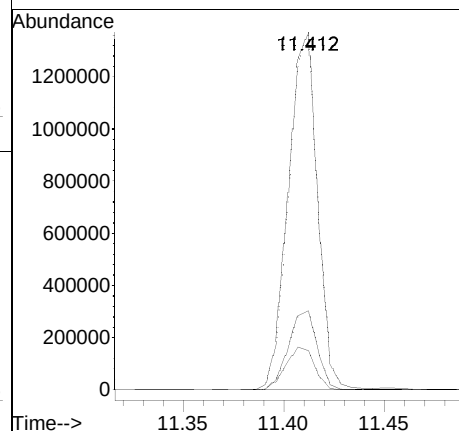
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 11.1  | 12.1  | 18.1# |
| 253     | 22.3  | 18.1  | 27.1  |

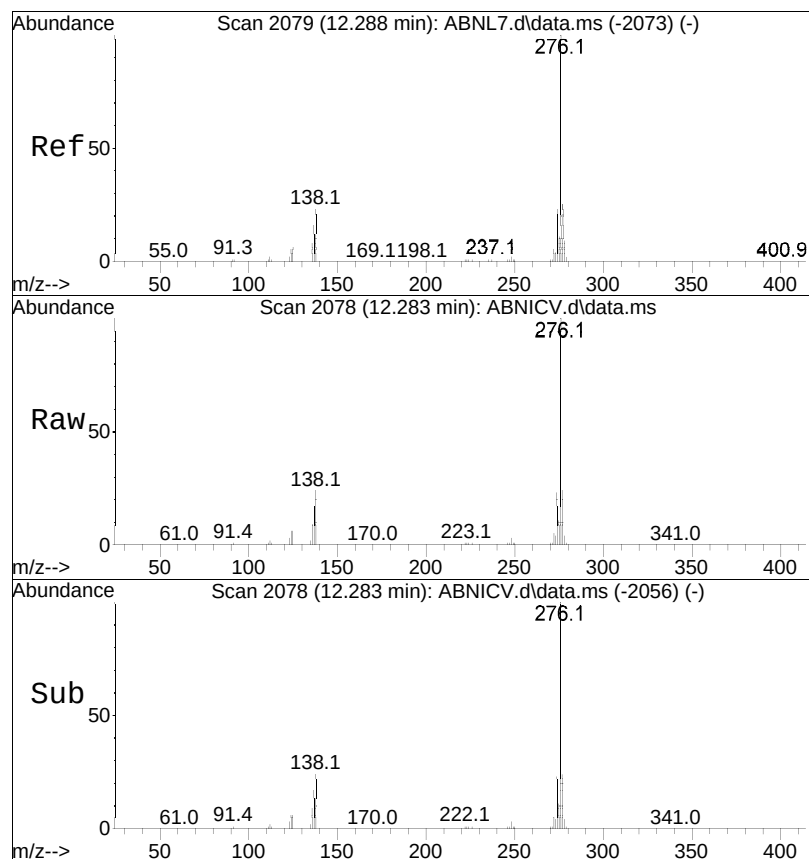




#112  
 Benzo(a)pyrene  
 Concen: 52.06 ug/ml  
 RT: 11.412 min Scan# 1915  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

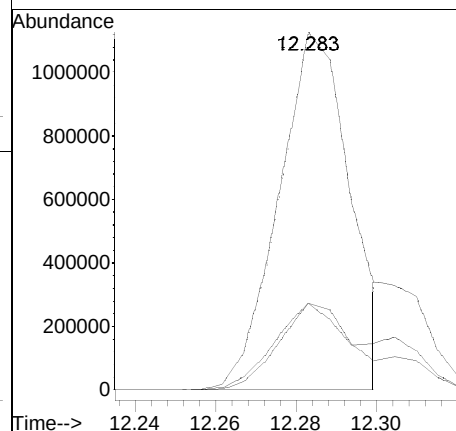
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 252 | 100  |       |       |       |
| 125 | 12.3 | 13.3  | 19.9# |       |
| 253 | 22.2 | 18.2  | 27.4  |       |

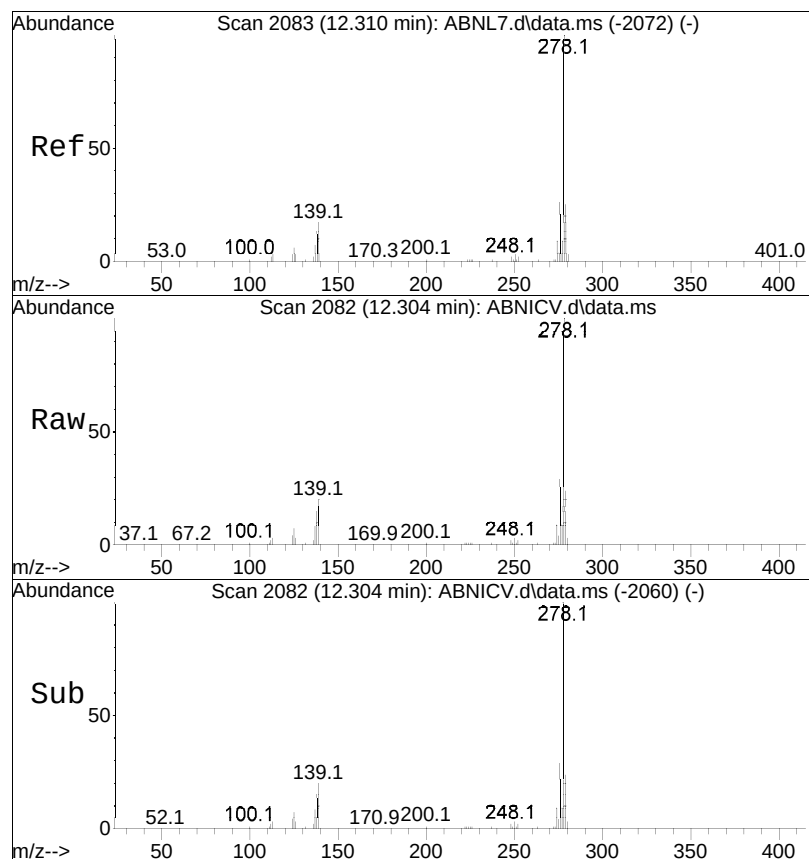




#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 50.34 ug/mL M6  
 RT: 12.283 min Scan# 2078  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

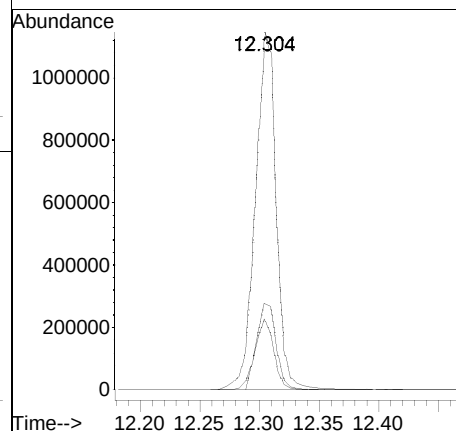
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 34.7  | 26.7  | 40.1  |
| 277     | 30.5  | 20.4  | 30.6  |

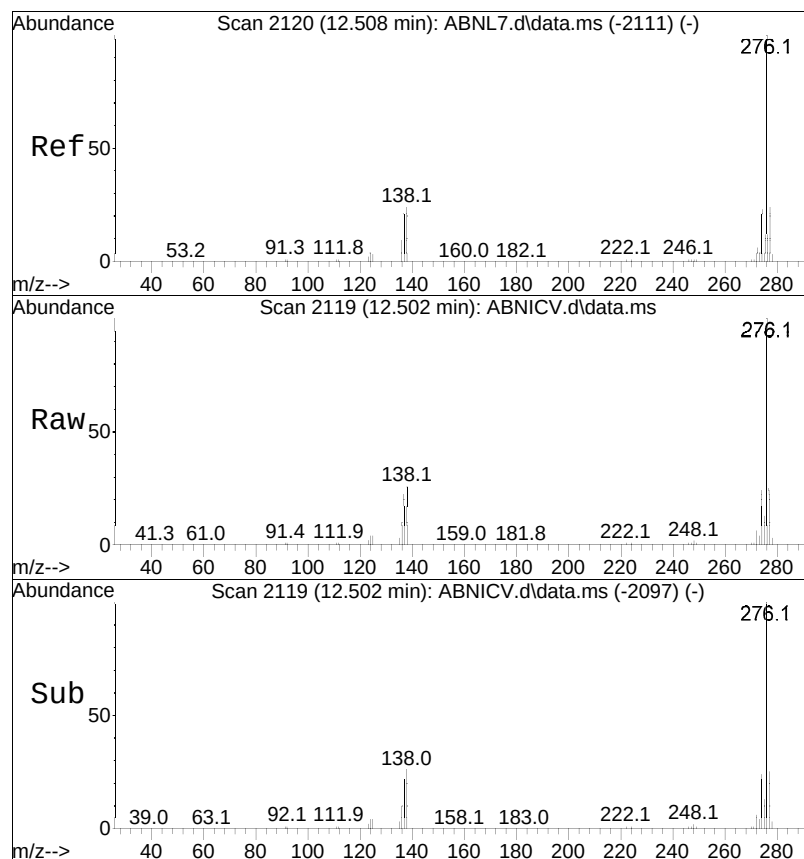




#115  
 Dibenzo(a,h)anthracene  
 Concen: 50.48 ug/ml  
 RT: 12.304 min Scan# 2082  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

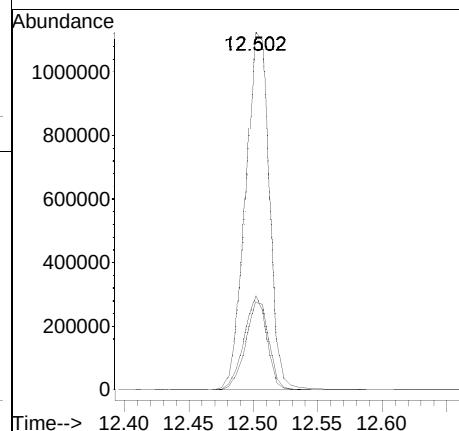
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.5  | 18.2  | 27.4# |
| 279     | 23.8  | 19.3  | 28.9  |





#116  
 Benzo(ghi)perylene  
 Concen: 48.31 ug/ml  
 RT: 12.502 min Scan# 2119  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.d  
 Acq: 9 Jun 2019 11:14 pm

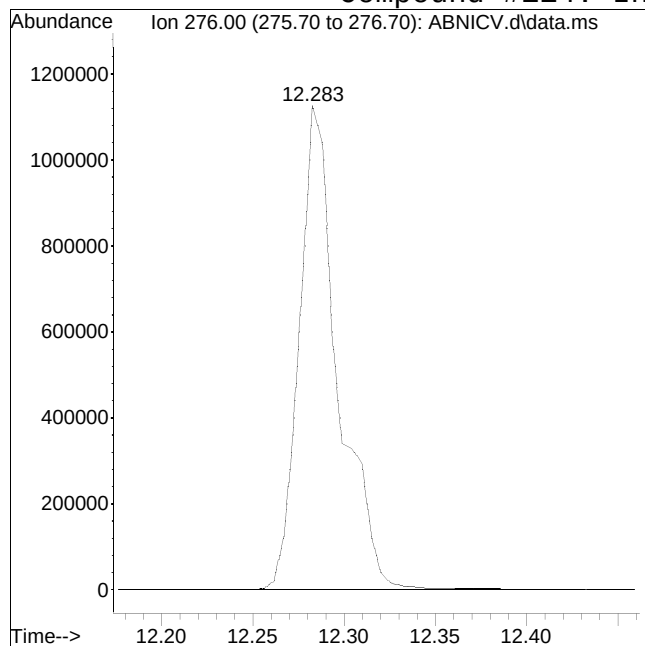
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.4  | 26.1  | 39.1# |
| 277     | 24.5  | 19.4  | 29.0  |



# Manual Integration Report

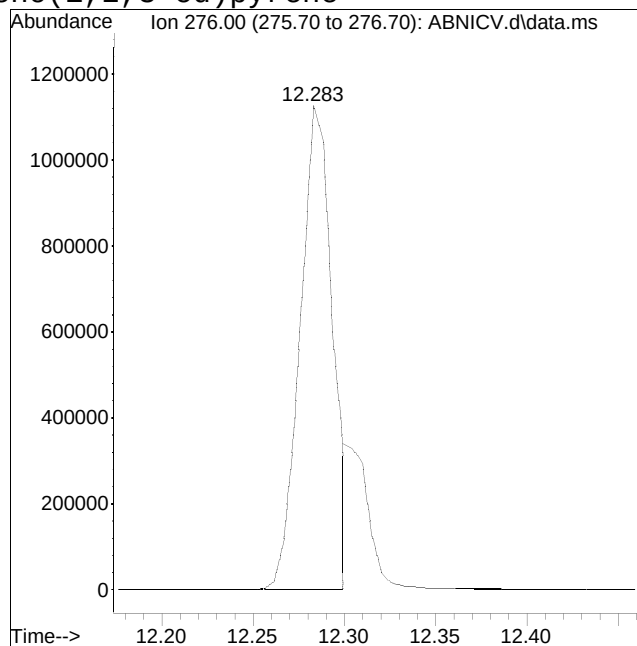
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ABNICV.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 11:14 pm Instrument : GCMS5  
Sample : CQICV1,32,,ABNICV Lot# 806 Quant Date : 6/10/2019 4:17 pm

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1668489

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1397195 M6

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9ICV.d  
 Acq On : 9 Jun 2019 11:40 pm  
 Operator : gcms5:ek  
 Sample : CQICV2,32,,AP9ICV Lot# 8077  
 Misc : wg1246641,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 10 15:32:47 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 15:32:36 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|-------|----------------------------|----------|--------|------|-------|----------|
| ----- |                            |          |        |      |       |          |
| 27 I  | IS2_1,4-Dichlorobenzene-d4 | 1.000    | 1.000  | 0.0  | 96    | 0.00     |
| 28 T  | Benzaldehyde               | 0.853    | 0.915  | -7.3 | 95    | 0.00     |
| 29 T  | Acetophenone               | 1.611    | 1.607  | 0.2  | 91    | 0.00     |
| 30 T  | m-Toluidine                | 1.430    | 1.556  | -8.8 | 91    | 0.00     |
| 31 T  | 2-Chloroaniline            | 1.515    | 1.486  | 1.9  | 89    | 0.00     |
|       |                            |          |        |      |       |          |
| 55 I  | IS2_Naphthalene-d8         | 1.000    | 1.000  | 0.0  | 92    | 0.00     |
| 56 T  | a-Terpineol                | 0.233    | 0.245  | -5.2 | 88    | 0.00     |
| 57 T  | 3-Chloroaniline            | 0.126    | 0.126  | 0.0  | 91    | 0.00     |
| 58 T  | 2,6-Dichlorophenol         | 0.289    | 0.301  | -4.2 | 87    | 0.00     |
| 59 T  | 1-chloro-2-nitrobenzene    | 0.127    | 0.130  | -2.4 | 87    | 0.00     |
| 60 T  | Caprolactam                | 0.142    | 0.145  | -2.1 | 88    | 0.00     |
| 61 T  | 1,2,4,5-Tetrachlorobenzene | 0.391    | 0.367  | 6.1  | 86    | 0.00     |
| 62 T  | Biphenyl                   | 0.845    | 0.804  | 4.9  | 88    | 0.00     |
|       |                            |          |        |      |       |          |
| 83 I  | IS2_Acenaphthene-d10       | 1.000    | 1.000  | 0.0  | 89    | 0.00     |
| 84 T  | Dichloran                  | * 50.000 | 47.387 | 5.2  | 85    | 0.00     |
| 85 T  | Pentachloronitrobenzene    | 0.183    | 0.185  | -1.1 | 86    | 0.00     |
|       |                            |          |        |      |       |          |
| 98 I  | IS2_Phenanthrene-d10       | 1.000    | 1.000  | 0.0  | 90    | 0.00     |
| 99 T  | Diphenamid                 | 0.454    | 0.449  | 1.1  | 82    | 0.00     |
| ----- |                            |          |        |      |       |          |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9ICV.d  
 Acq On : 9 Jun 2019 11:40 pm  
 Operator : gcms5:ek  
 Sample : CQICV2,32,,AP9ICV Lot# 8077  
 Misc : wg1246641,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 10 15:32:47 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 15:32:36 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.051 | 152  | 166084   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 173744      |       |      | Recovery | =      | 95.59% |          |
| 55) IS2_Naphthalene-d8        | 5.146 | 136  | 609498   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 659830      |       |      | Recovery | =      | 92.37% |          |
| 83) IS2_Acenaphthene-d10      | 6.588 | 164  | 356840   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 400442      |       |      | Recovery | =      | 89.11% |          |
| 98) IS2_Phenanthrene-d10      | 7.806 | 188  | 730436   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 810648      |       |      | Recovery | =      | 90.11% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.650 | 105  | 189998   | 53.631 | ug/ml  | 95     |
| 29) Acetophenone              | 4.414 | 105  | 333681   | 49.871 | ug/ml# | 92     |
| 30) m-Toluidine               | 4.483 | 106  | 323025   | 54.420 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 4.804 | 127  | 308506   | 49.050 | ug/ml  | 99     |
| 56) a-Terpineol               | 5.194 | 59   | 186402   | 52.595 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.205 | 65   | 96326M6  | 50.304 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.231 | 162  | 229371   | 52.153 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 5.445 | 111  | 99104    | 51.083 | ug/ml  | 93     |
| 60) Caprolactam               | 5.482 | 55   | 110610   | 51.174 | ug/ml# | 84     |
| 61) 1,2,4,5-Tetrachloroben... | 5.883 | 216  | 279332   | 46.842 | ug/ml  | 100    |
| 62) Biphenyl                  | 6.134 | 154  | 612794   | 47.578 | ug/ml  | 98     |
| 84) Dichloran                 | 7.539 | 206  | 79738    | 47.387 | ug/ml  | 98     |
| 85) Pentachloronitrobenzene   | 7.667 | 237  | 82477    | 50.511 | ug/ml  | 94     |
| 99) Diphenamid                | 8.618 | 167  | 409615   | 49.367 | ug/ml  | 92     |

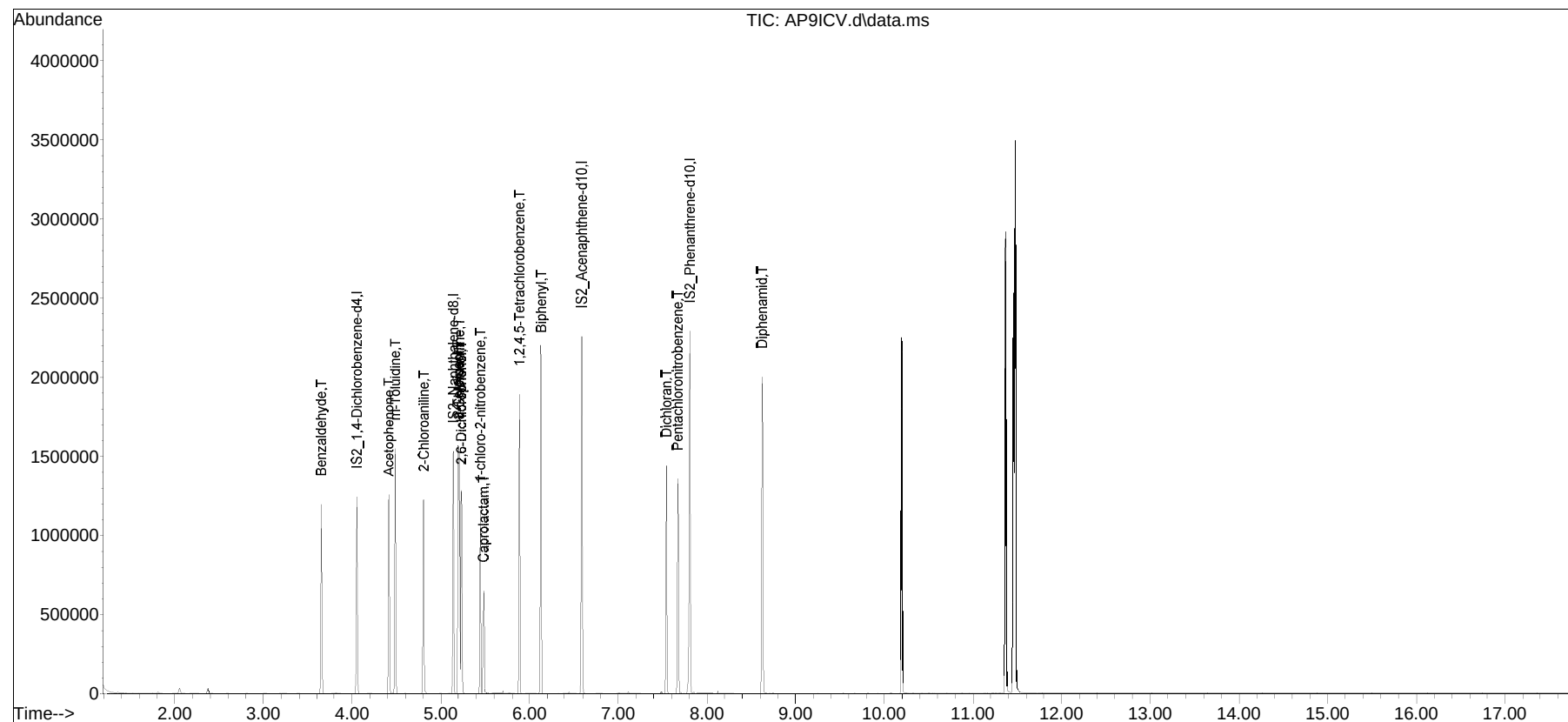
(#) = qualifier out of range (m) = manual integration (+) = signals summed

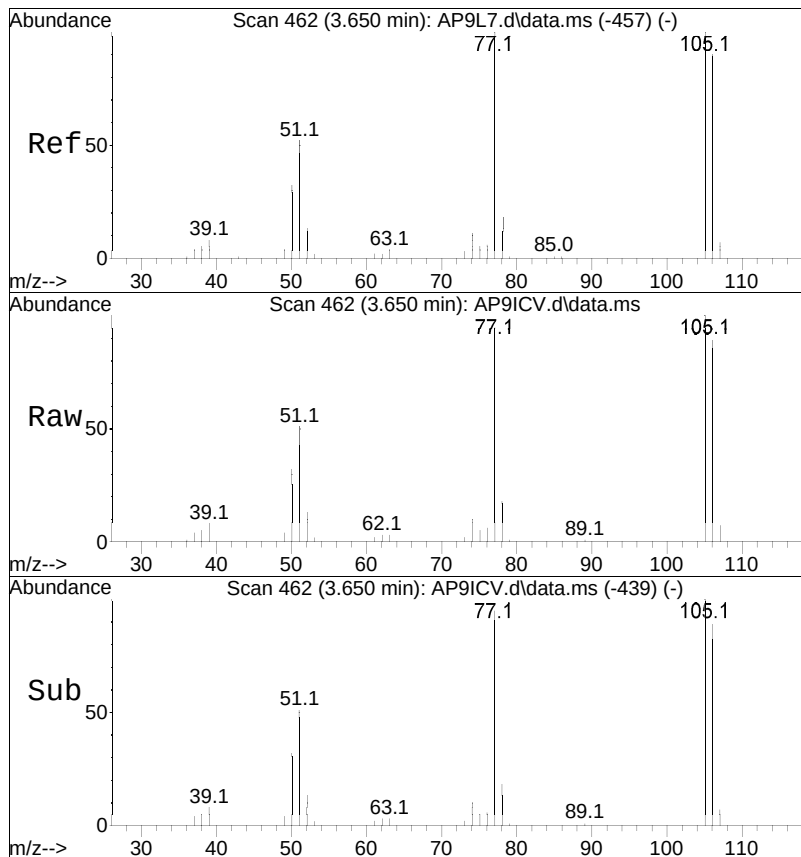
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : AP9ICV.d  
 Acq On : 9 Jun 2019 11:40 pm  
 Operator : gcms5:ek  
 Sample : CQICV2,32,,AP9ICV Lot# 8077  
 Misc : wg1246641,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 10 15:32:47 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 15:32:36 2019  
 Response via : Initial Calibration

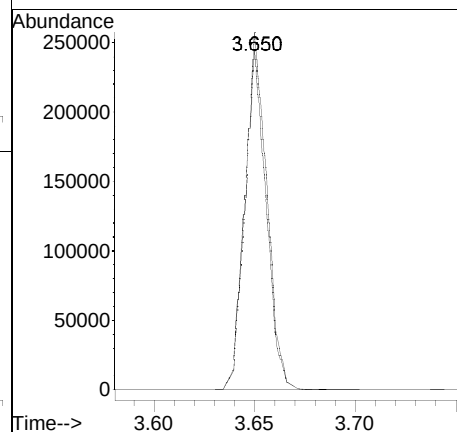
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•

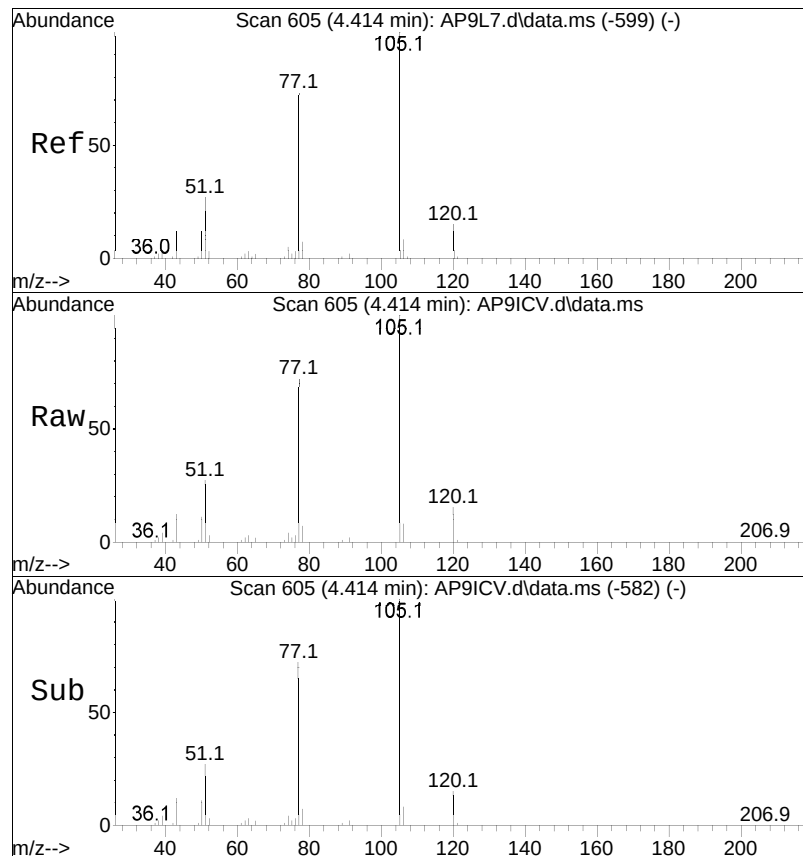




#28  
 Benzaldehyde  
 Concen: 53.63 ug/ml  
 RT: 3.650 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

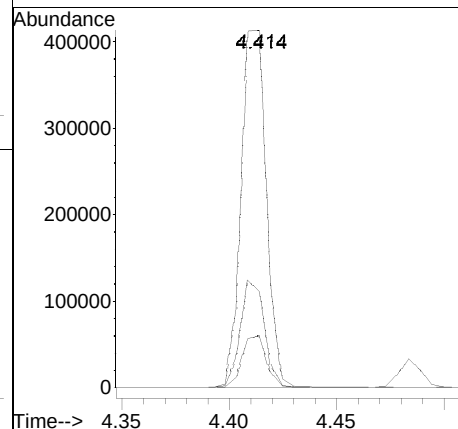
Tgt Ion:105 Resp: 189998  
 Ion Ratio Lower Upper  
 105 100  
 77 94.6 79.3 118.9

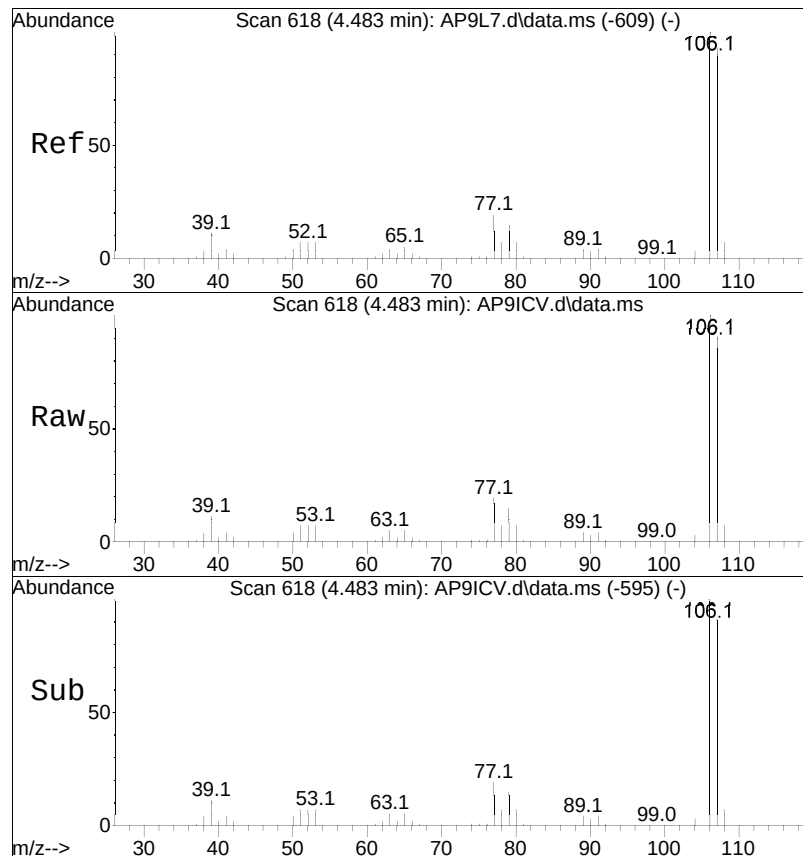




#29  
 Acetophenone  
 Concen: 49.87 ug/ml  
 RT: 4.414 min Scan# 605  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

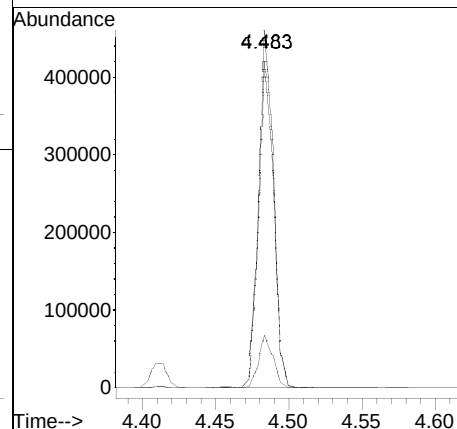
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 333681 |       |       |
| 120     | 14.2  |        | 17.4  | 26.2# |
| 51      | 28.9  |        | 23.8  | 35.6  |

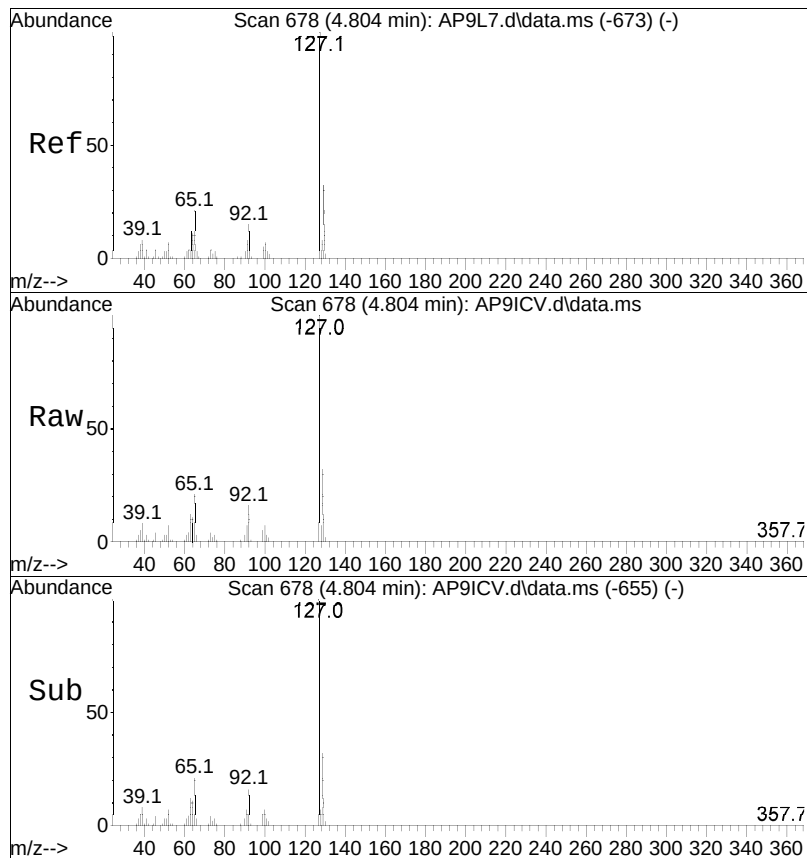




#30  
 m-Toluidine  
 Concen: 54.42 ug/ml  
 RT: 4.483 min Scan# 618  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

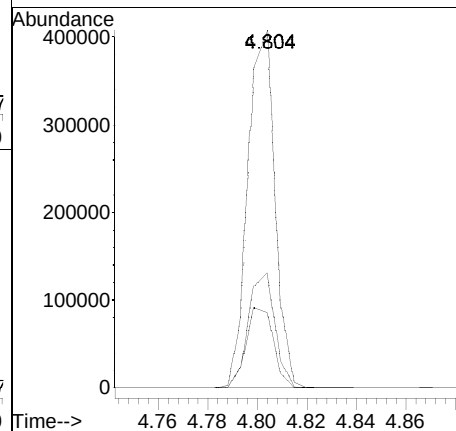
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 107     | 91.6  | 72.5  | 108.7 |
| 79      | 14.4  | 11.4  | 17.2  |

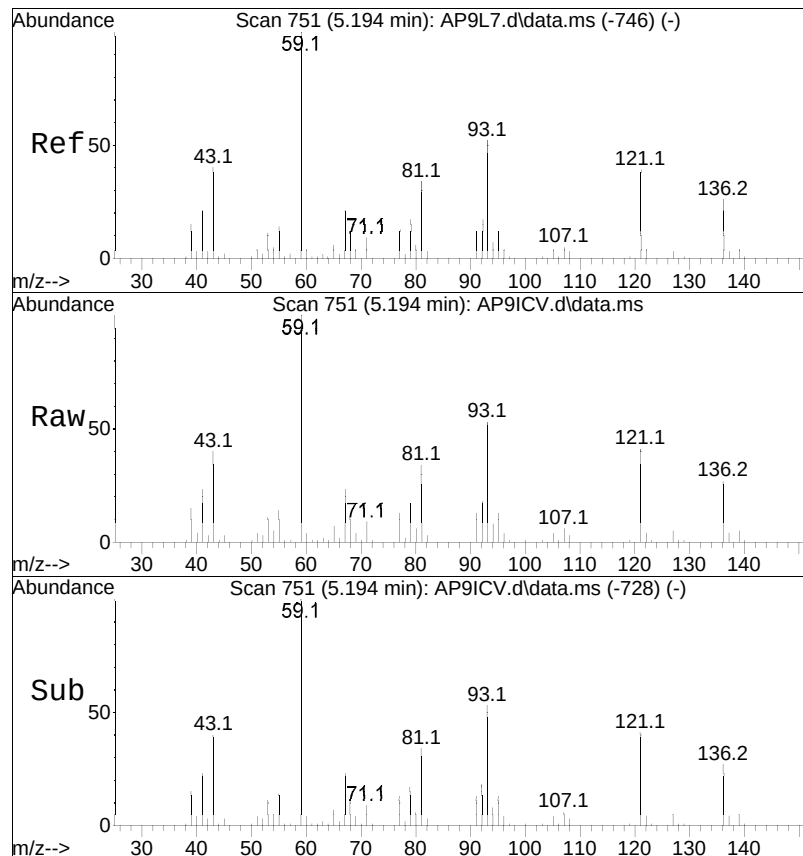




#31  
 2-Chloroaniline  
 Concen: 49.05 ug/ml  
 RT: 4.804 min Scan# 678  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

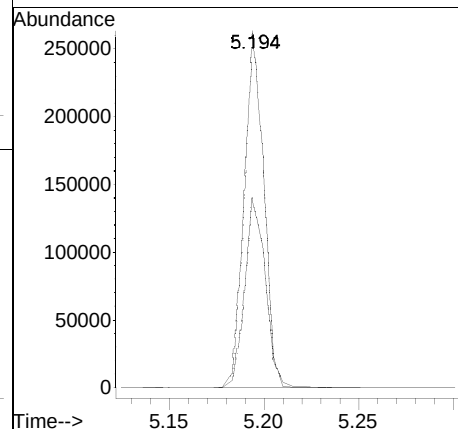
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 31.7  | 25.5  | 38.3  |
| 65      | 22.9  | 17.3  | 25.9  |

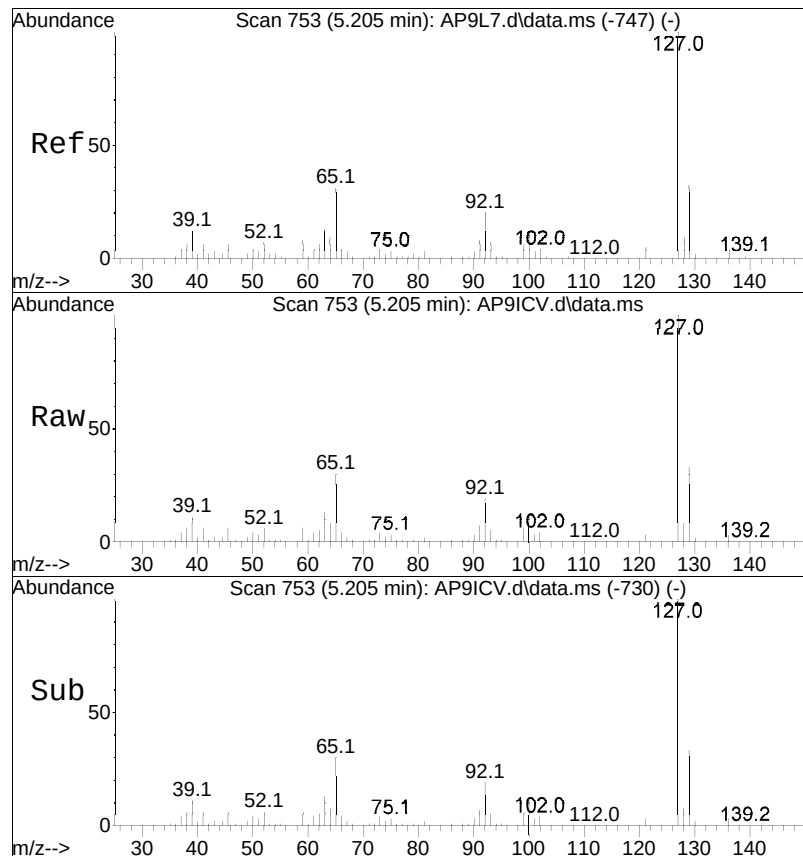




#56  
 a-Terpineol  
 Concen: 52.60 ug/ml  
 RT: 5.194 min Scan# 751  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

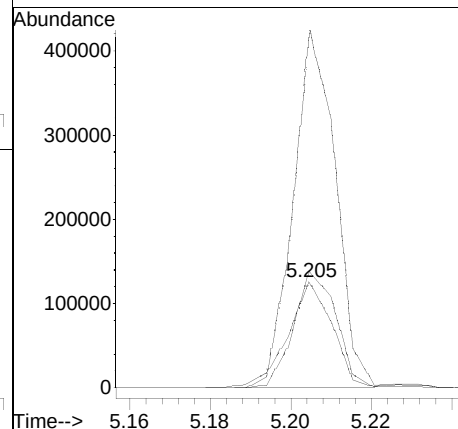
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 93      | 56.7  | 49.3  | 73.9  |



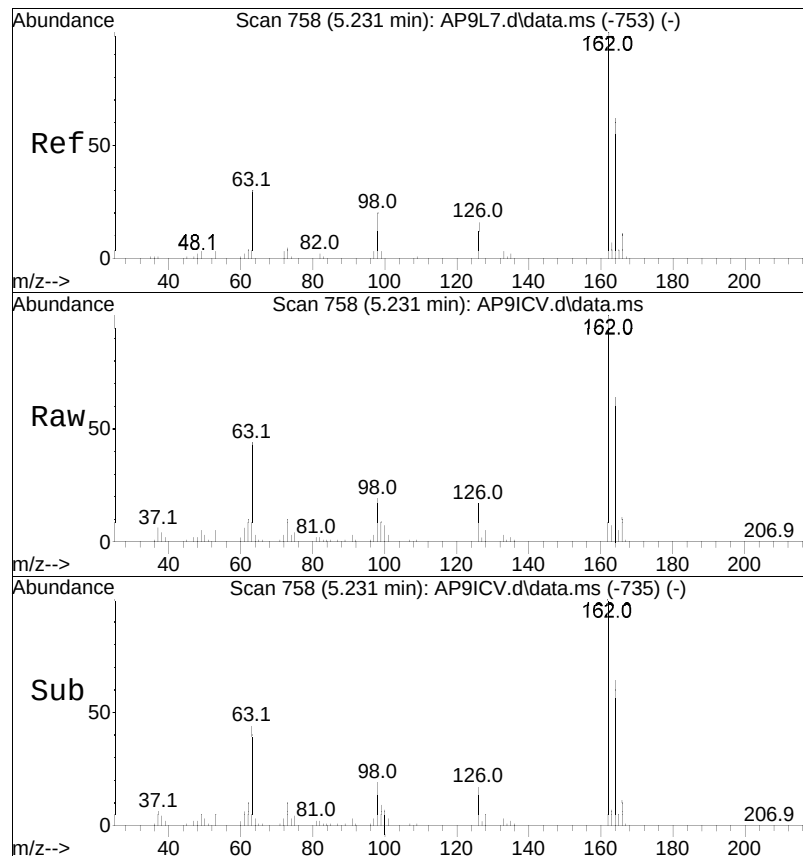


#57  
 3-Chloroaniline  
 Concen: 50.30 ug/ml M6  
 RT: 5.205 min Scan# 753  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

| Tgt Ion:  | 65    | Resp: | 96326 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 127       | 322.2 | 269.3 | 403.9 |
| 129       | 106.5 | 88.2  | 132.4 |

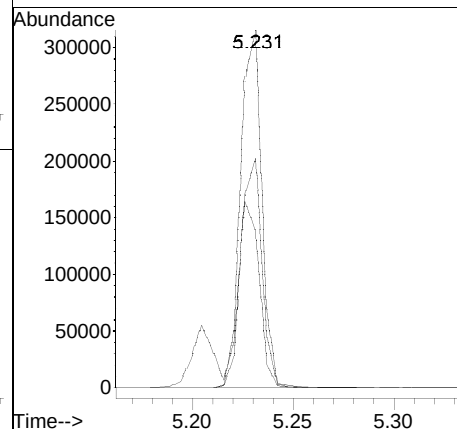


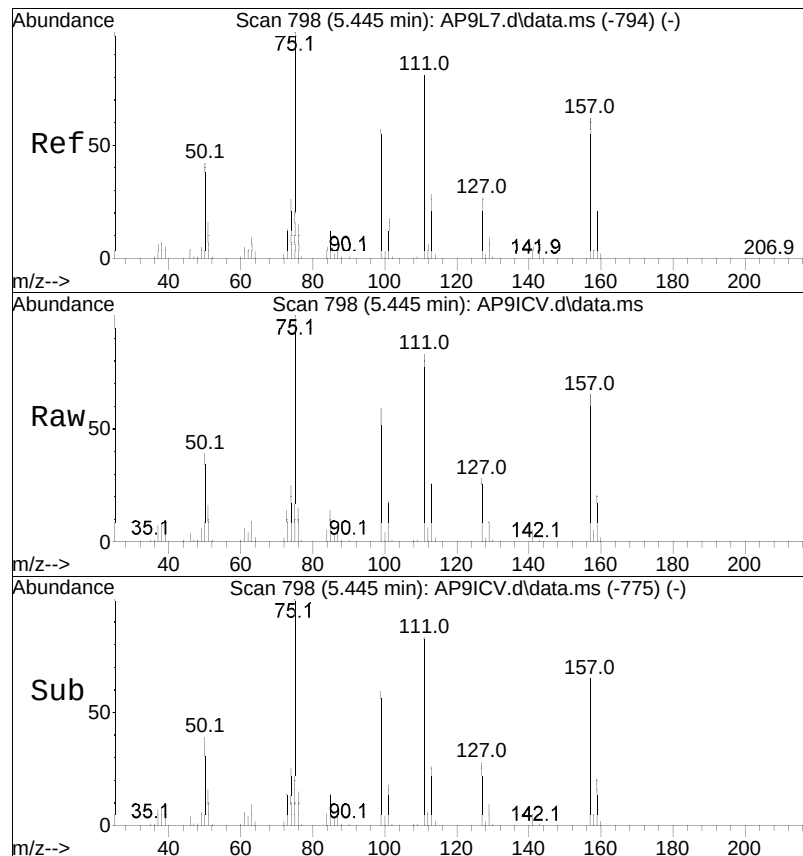




#58  
 2,6-Dichlorophenol  
 Concen: 52.15 ug/ml  
 RT: 5.231 min Scan# 758  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

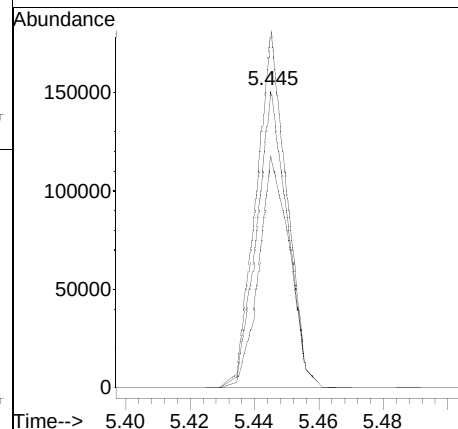
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 229371 |       |       |
| 164     | 63.6  |        | 51.8  | 77.6  |
| 63      | 51.4  |        | 41.7  | 62.5  |

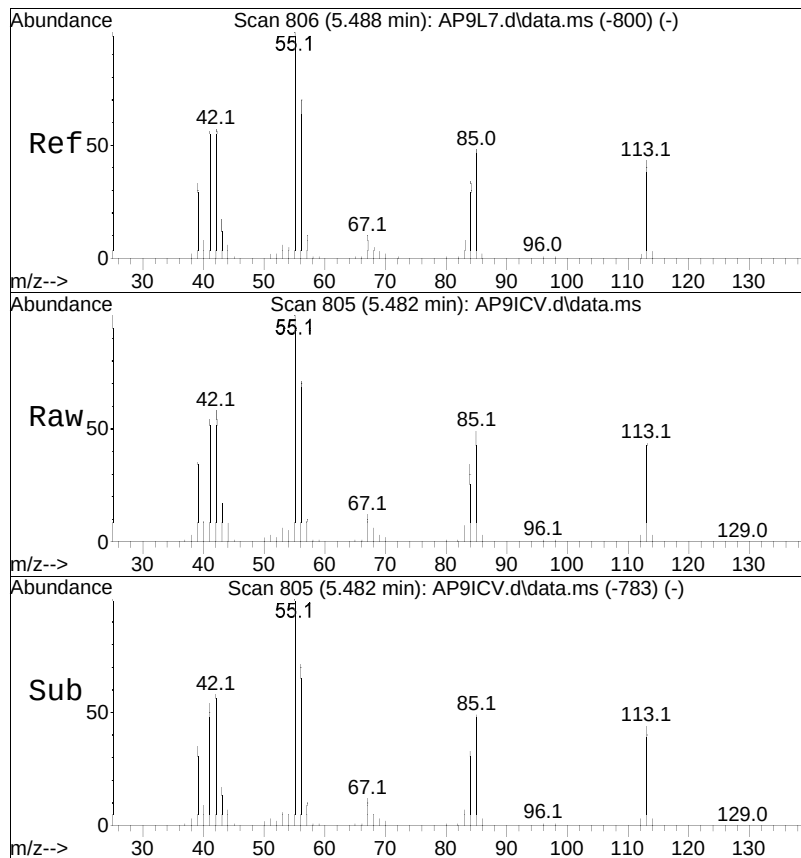




#59  
 1-chloro-2-nitrobenzene  
 Concen: 51.08 ug/ml  
 RT: 5.445 min Scan# 798  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

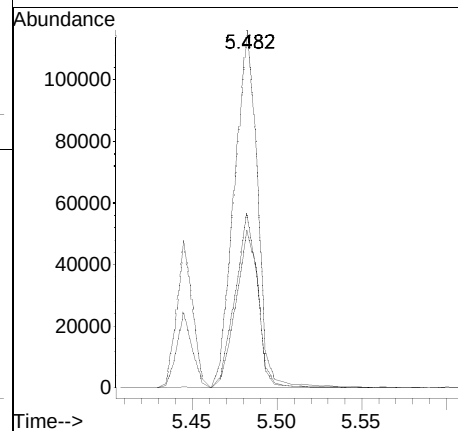
| Tgt | Ion   | Ratio | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|-------|
| 111 | 100   |       | 99104 |       |       |
| 157 | 78.3  | 67.6  | 101.4 |       |       |
| 75  | 119.7 | 102.5 | 153.7 |       |       |

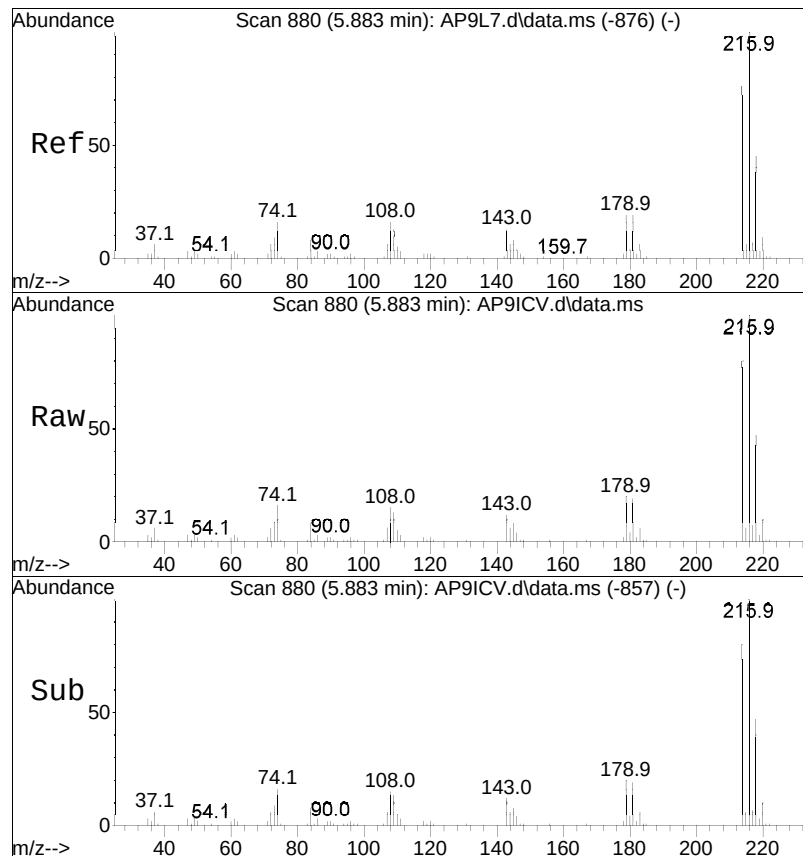




#60  
 Caprolactam  
 Concen: 51.17 ug/ml  
 RT: 5.482 min Scan# 805  
 Delta R.T. -0.006 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

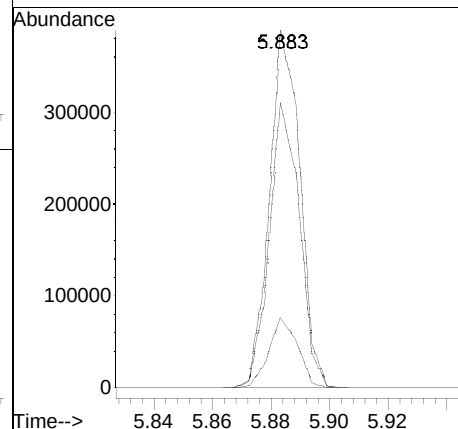
|     |         |              |
|-----|---------|--------------|
| Tgt | Ion: 55 | Resp: 110610 |
| Ion | Ratio   | Lower Upper  |
| 55  | 100     |              |
| 85  | 47.5    | 36.6 54.8    |
| 113 | 43.3    | 50.2 75.2#   |

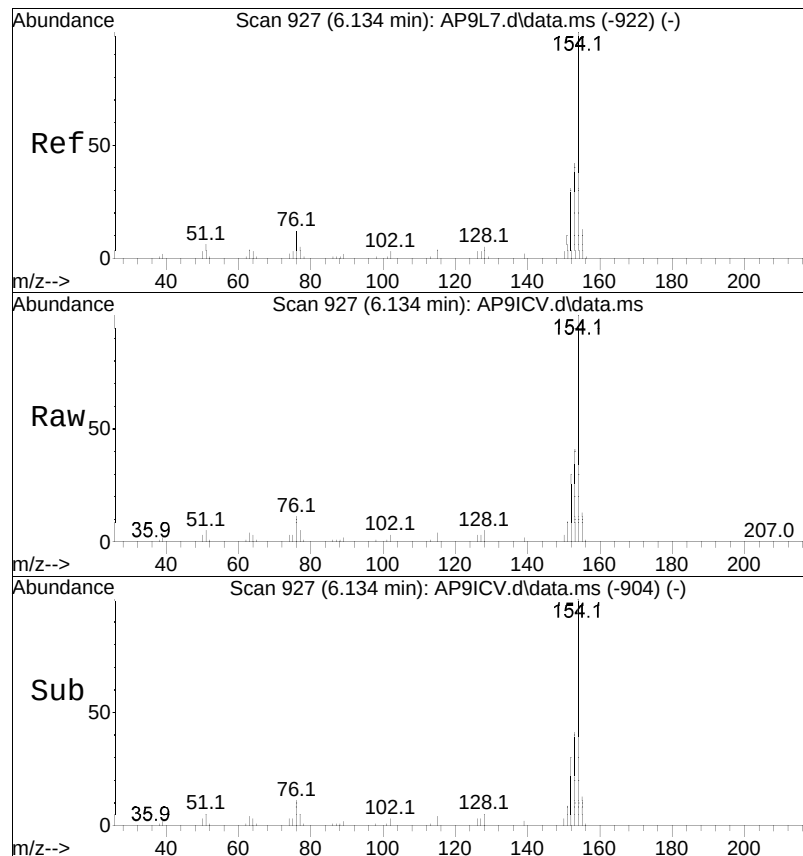




#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 46.84 ug/ml  
 RT: 5.883 min Scan# 880  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

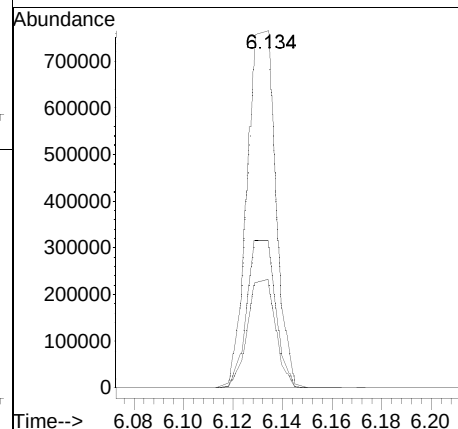
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 279332 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 78.6  | 63.0  | 94.4   |
| 179       | 18.7  | 15.3  | 22.9   |

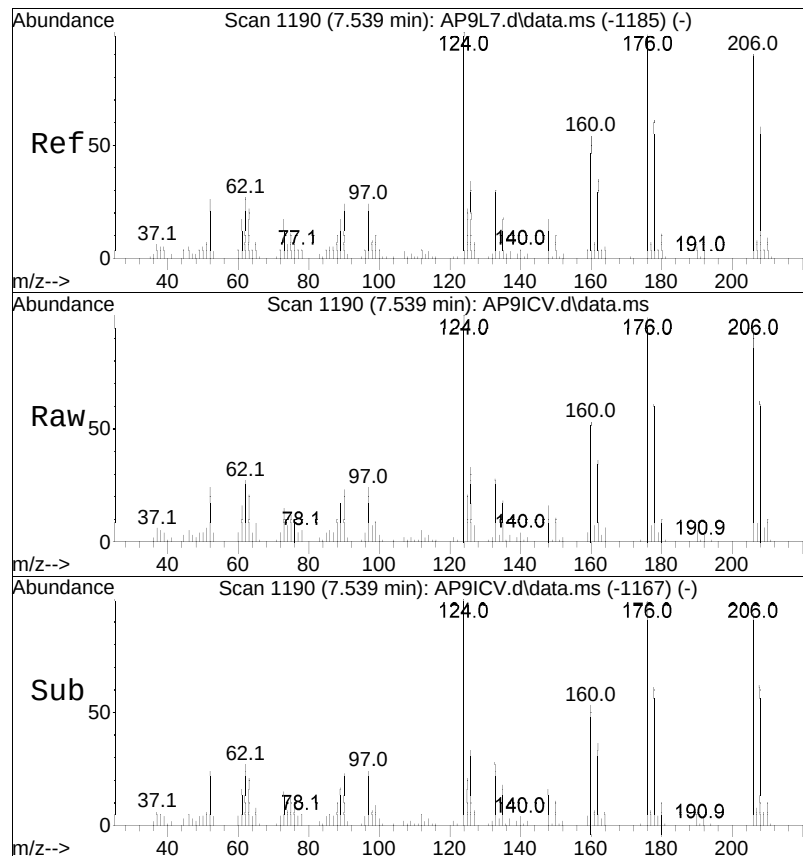




#62  
 Biphenyl  
 Concen: 47.58 ug/ml  
 RT: 6.134 min Scan# 927  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

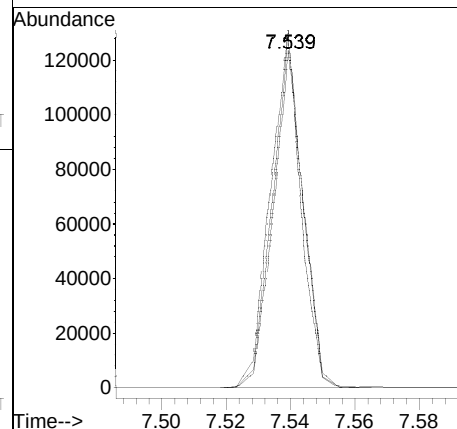
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.4  | 33.8  | 50.8  |
| 152     | 29.9  | 23.0  | 34.6  |

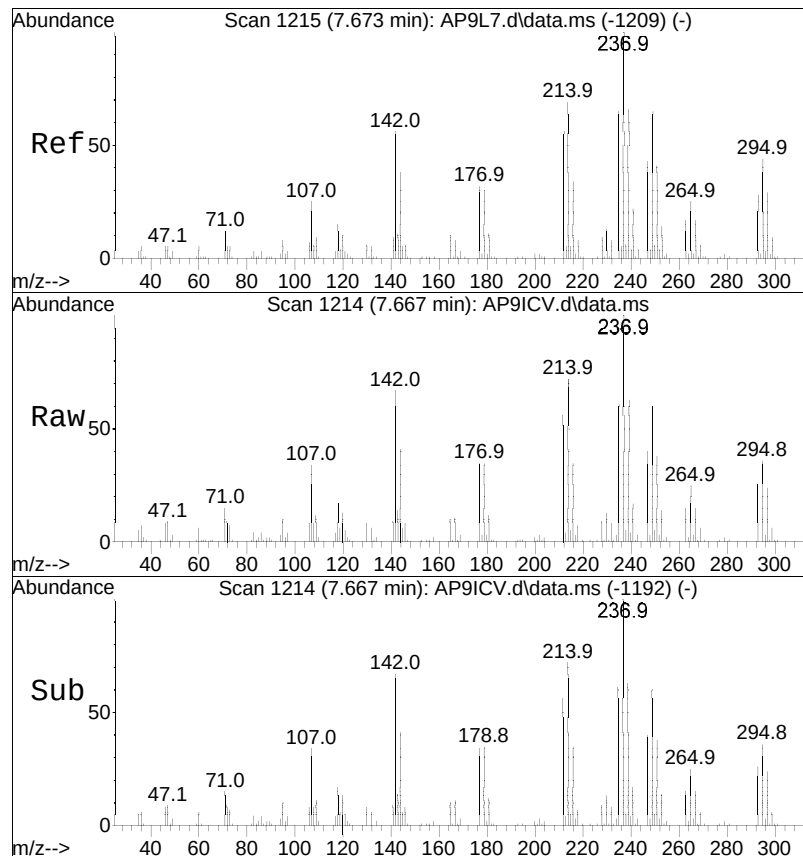




#84  
 Dichloran  
 Concen: 47.39 ug/ml  
 RT: 7.539 min Scan# 1190  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

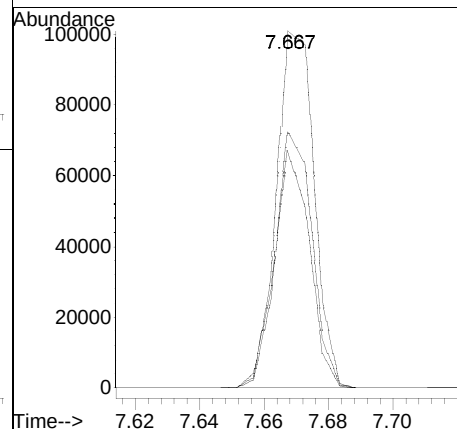
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 206     | 100   |       |       |
| 176     | 105.0 | 82.7  | 124.1 |
| 124     | 106.1 | 86.2  | 129.4 |

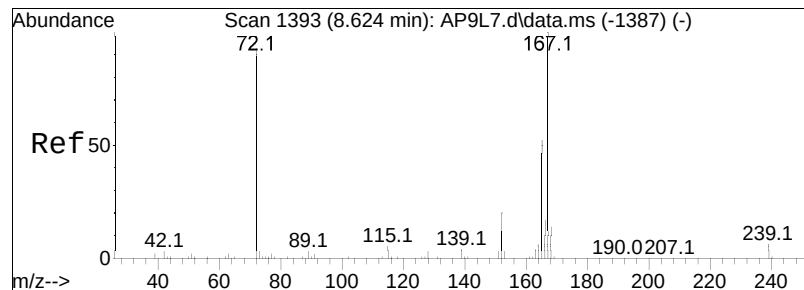




#85  
 Pentachloronitrobenzene  
 Concen: 50.51 ug/ml  
 RT: 7.667 min Scan# 1214  
 Delta R.T. -0.006 min  
 Lab File: AP9ICV.d  
 Acq: 9 Jun 2019 11:40 pm

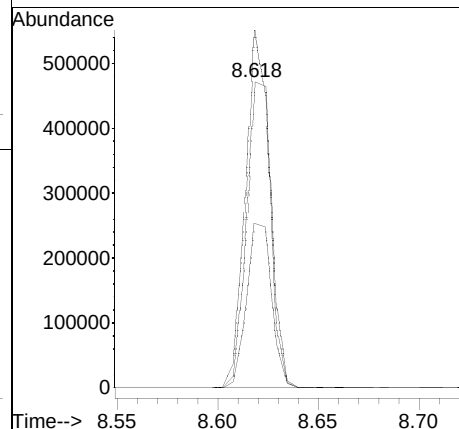
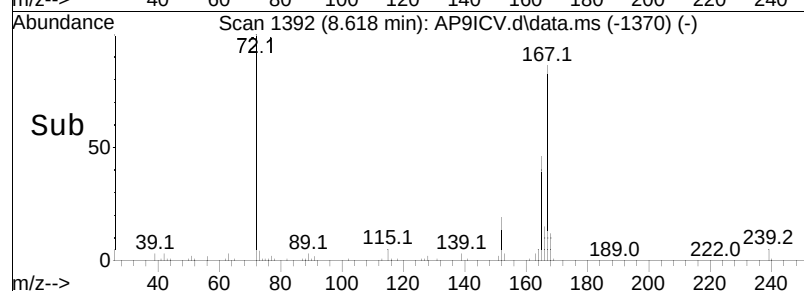
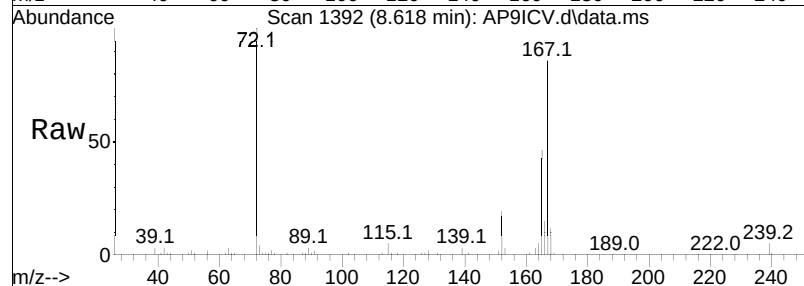
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 82477 |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 142       | 62.5  | 57.4  | 86.2  |
| 214       | 69.3  | 55.0  | 82.6  |





#99  
Diphenamid  
Concen: 49.37 ug/ml  
RT: 8.618 min Scan# 1392  
Delta R.T. -0.006 min  
Lab File: AP9ICV.d  
Acq: 9 Jun 2019 11:40 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 409615 |       |       |
| 72      | 108.9 |        | 95.0  | 142.6 |
| 165     | 53.8  |        | 40.4  | 60.6  |

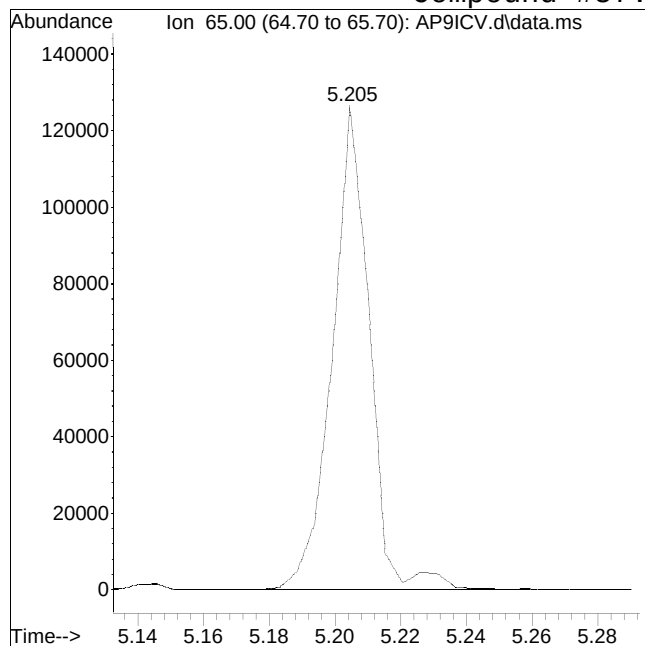




# Manual Integration Report

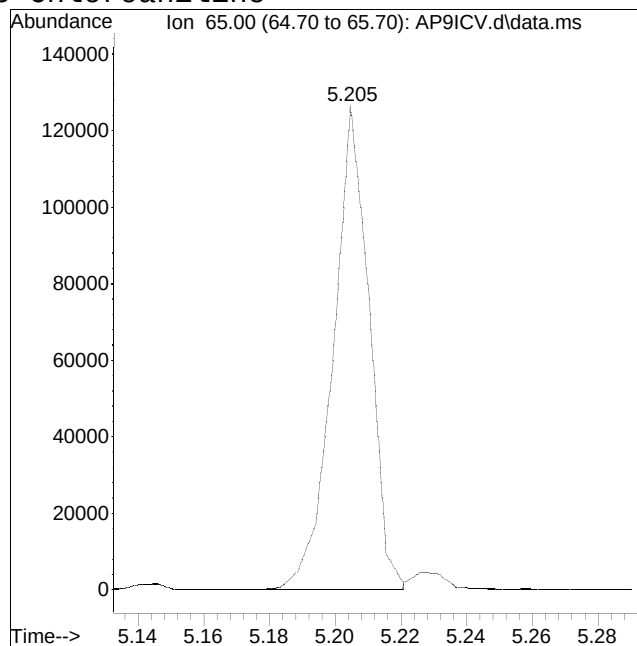
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : AP9ICV.d Operator : gcms5:ek  
Date Inj'd : 6/9/2019 11:40 pm Instrument : GCMS5  
Sample : CQICV2,32,,AP9ICV Lot# 807 Quant Date : 6/10/2019 3:32 pm

## Compound #57: 3-Chloroaniline



Original Peak Response = 99550

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



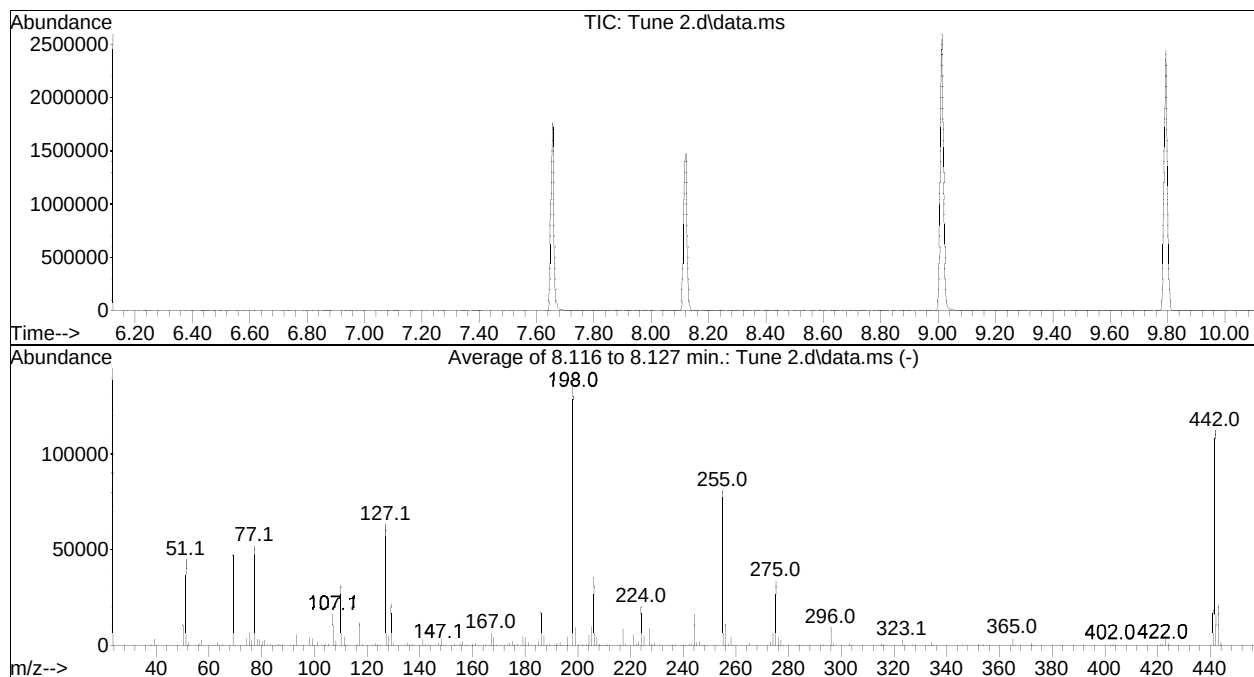
Manual Peak Response = 96326 M6

## DFTPP

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : Tune 2.d  
 Acq On : 10 Jun 2019 12:05 am  
 Operator : gcms5:ek  
 Sample : Tune2  
 Misc : wg1246641,,  
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Jun 10 16:17:59 2019

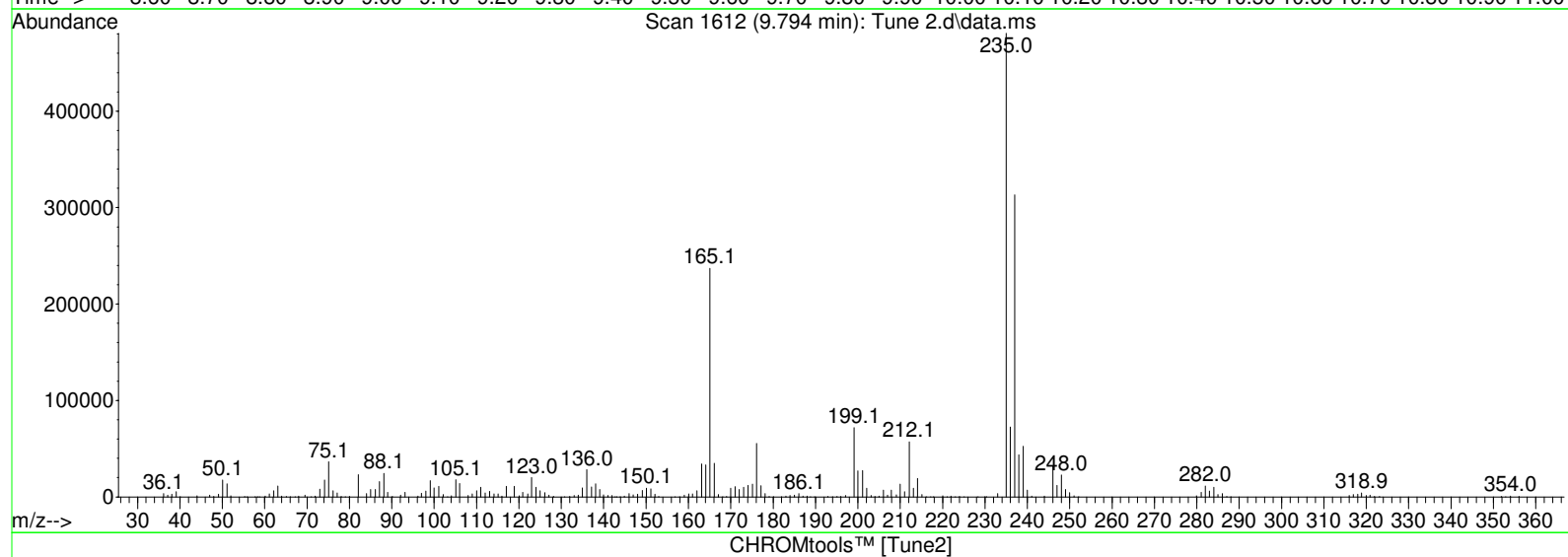
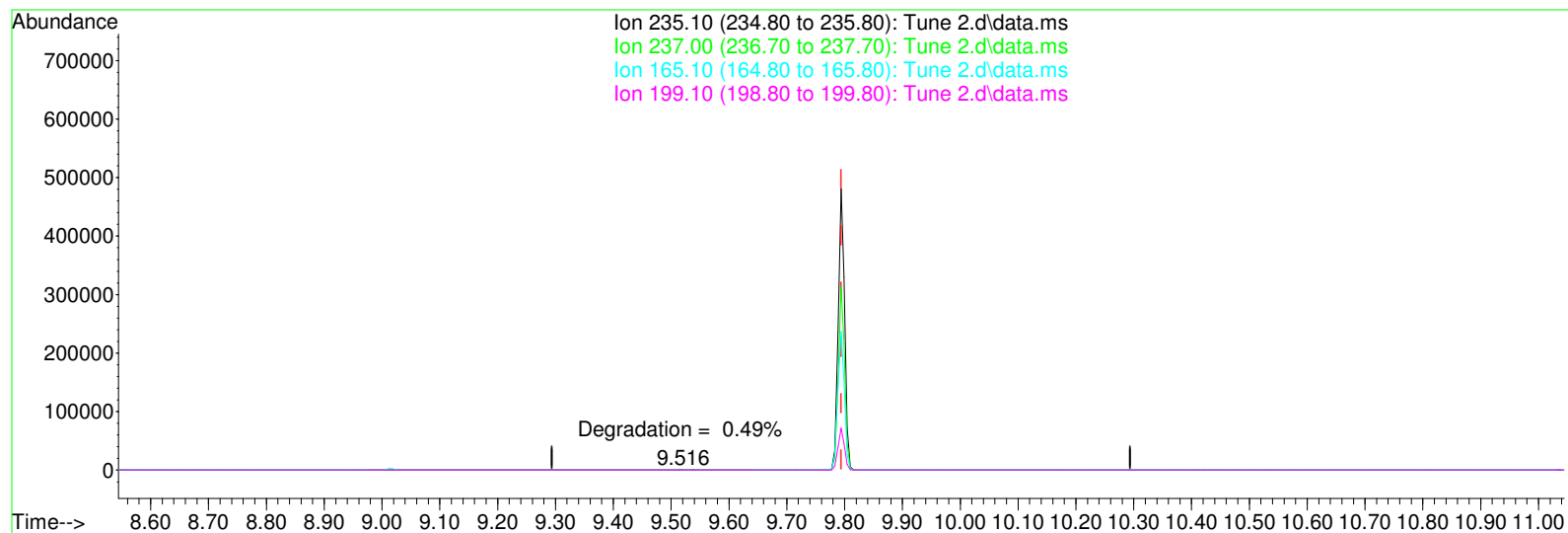


Spectrum Information: Average of 8.116 to 8.127 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 32.3      | 44512   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.3       | 158     | PASS             |
| 70          | 69           | 0.00         | 2            | 0.6       | 284     | PASS             |
| 127         | 198          | 10           | 80           | 45.6      | 62851   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 137813  | PASS             |
| 199         | 198          | 5            | 9            | 6.5       | 9003    | PASS             |
| 275         | 198          | 10           | 60           | 24.5      | 33803   | PASS             |
| 365         | 198          | 1            | 100          | 2.7       | 3692    | PASS             |
| 441         | 442          | 0.01         | 24           | 16.8      | 18869   | PASS             |
| 442         | 198          | 50           | 100          | 81.4      | 112248  | PASS             |
| 443         | 442          | 15           | 24           | 18.8      | 21112   | PASS             |

Data Path : I:\8270\GCMS5\190609ical\  
Data File : Tune 2.d  
Acq On : 10 Jun 2019 12:05 am  
Operator : gcms5:  
Sample : Tune2  
Misc :  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 10 09:14:27 2019  
Quant Method : I:\8270\GCMS5\190609ical\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 09:03:10 2019  
Response via : Initial Calibration



(6) ddt (T)

9.794min (-0.000) 61.20

response 373055

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |

|        |       |       |
|--------|-------|-------|
| 237.00 | 65.40 | 64.73 |
|--------|-------|-------|

|        |       |       |
|--------|-------|-------|
| 165.10 | 48.80 | 50.48 |
|--------|-------|-------|

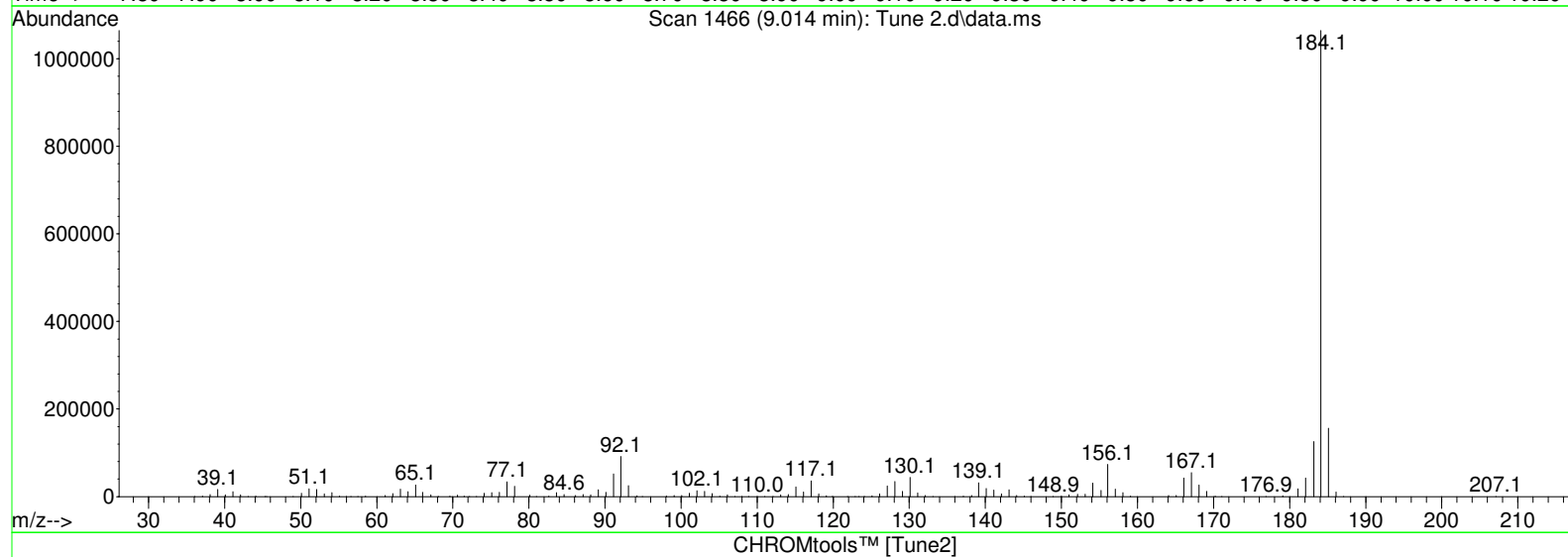
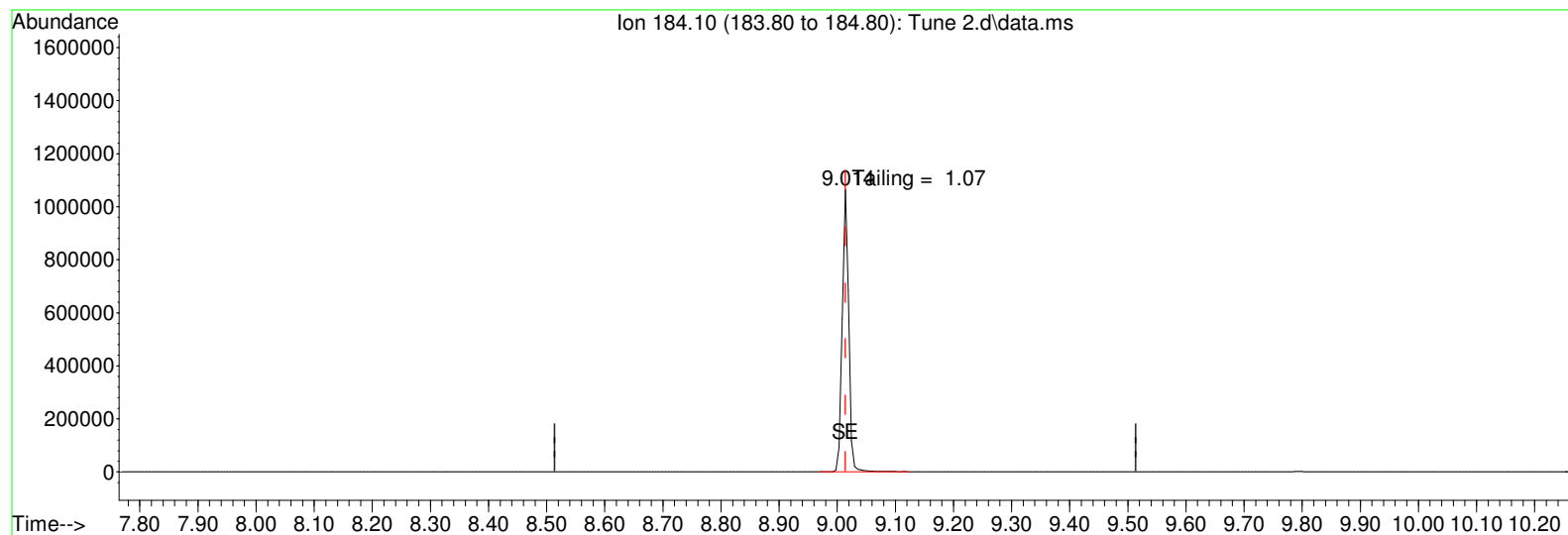
|        |       |       |
|--------|-------|-------|
| 199.10 | 14.40 | 15.07 |
|--------|-------|-------|

Duplicate Retention Times

(5) DDD 235.00

Data Path : I:\8270\GCMS5\190609ical\  
Data File : Tune 2.d  
Acq On : 10 Jun 2019 12:05 am  
Operator : gcms5:  
Sample : Tune2  
Misc :  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 10 09:14:27 2019  
Quant Method : I:\8270\GCMS5\190609ical\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 09:03:10 2019  
Response via : Initial Calibration



(3) benzidine (T)

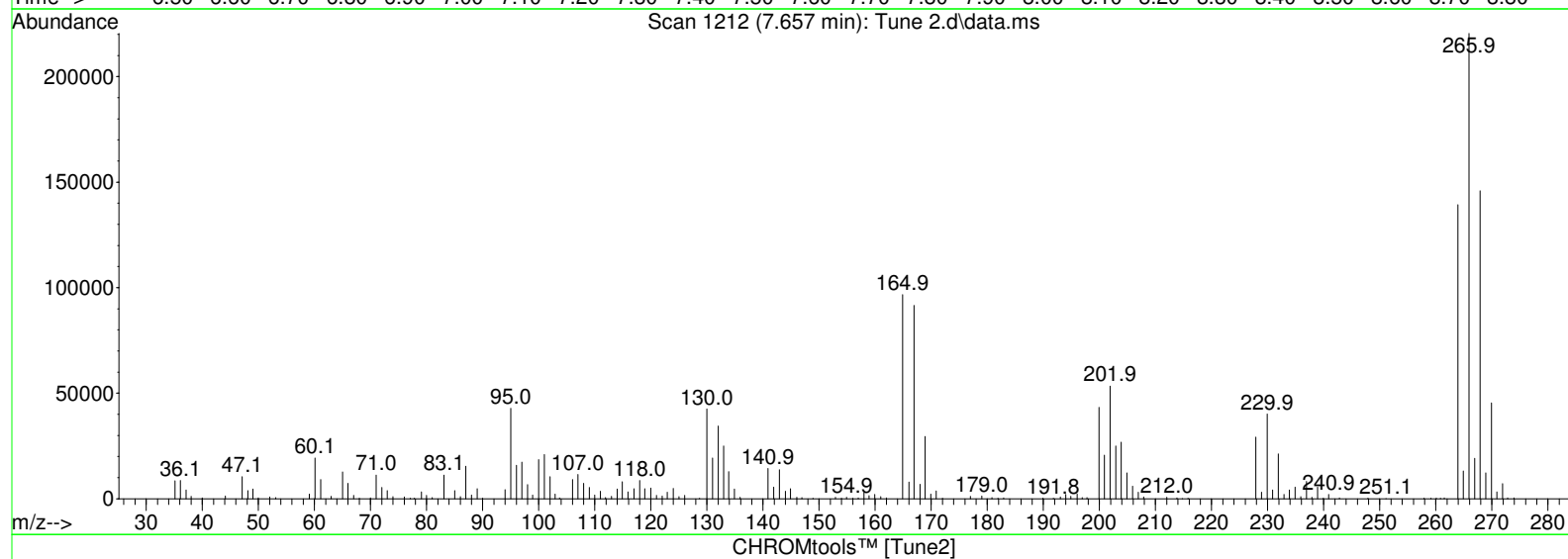
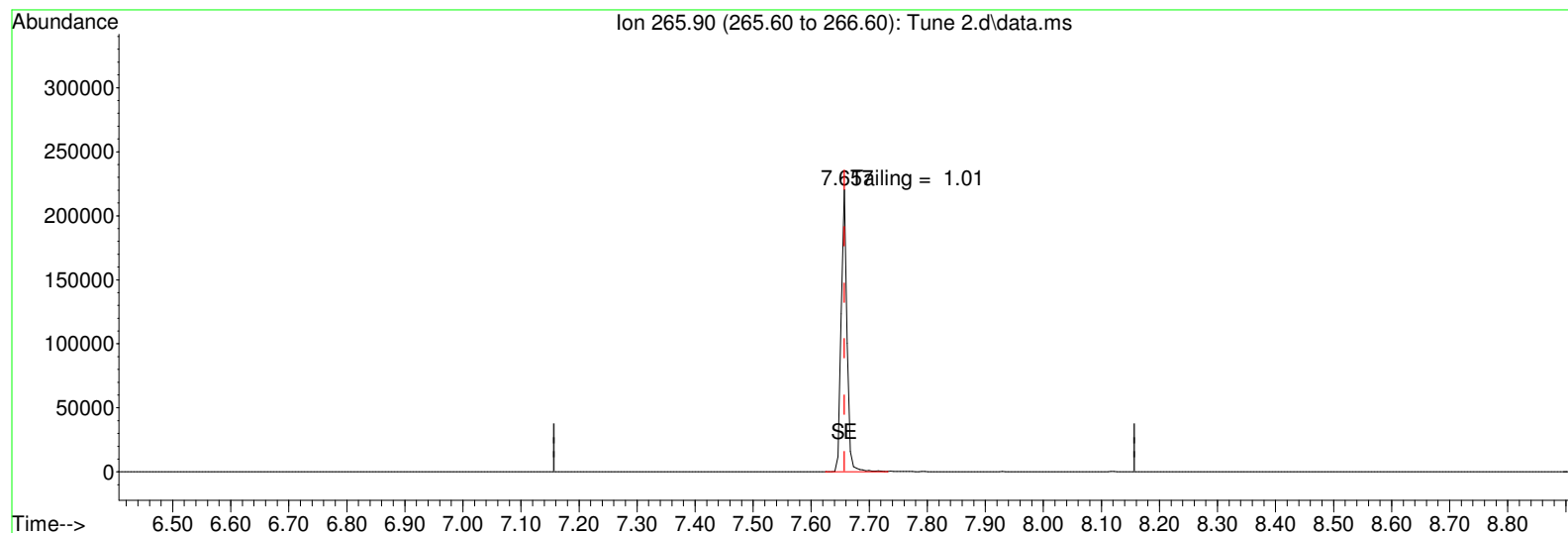
9.014min (-0.000) 82.20

response 836773

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

Data Path : I:\8270\GCMS5\190609ical\  
Data File : Tune 2.d  
Acq On : 10 Jun 2019 12:05 am  
Operator : gcms5:  
Sample : Tune2  
Misc :  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 10 09:14:27 2019  
Quant Method : I:\8270\GCMS5\190609ical\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Jun 10 09:03:10 2019  
Response via : Initial Calibration



(1) pentachlorophenol (T)

7.657min (-0.000) 74.24

response 155928

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL10.d  
 Acq On : 10 Jun 2019 12:31 am  
 Operator : gcms5:ek  
 Sample : IL21,32,,ADPL200 Lot# 8234  
 Misc : wg1246641,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 10 13:11:49 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 178648   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 101.87% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 376679   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 99.94%  |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 785154   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 100.87% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 33) 1,4-Dioxane             | 1.406 | 88   | 349708M2 | 181.283 | ug/ml  |        |
| 34) n-Decane                | 3.955 | 57   | 857804   | 174.205 | ug/ml  | 99     |
| 87) Atrazine                | 7.614 | 200  | 658669   | 197.161 | ug/ml# | 91     |
| 101) n-Octadecane           | 7.785 | 57   | 1269955  | 162.560 | ug/ml  | 96     |
| 102) Parathion              | 8.517 | 109  | 470871   | 210.727 | ug/ml# | 93     |
| 103) 3,3'-Dimethylbenzidine | 9.703 | 212  | 2979651  | 193.877 | ug/ml  | 99     |

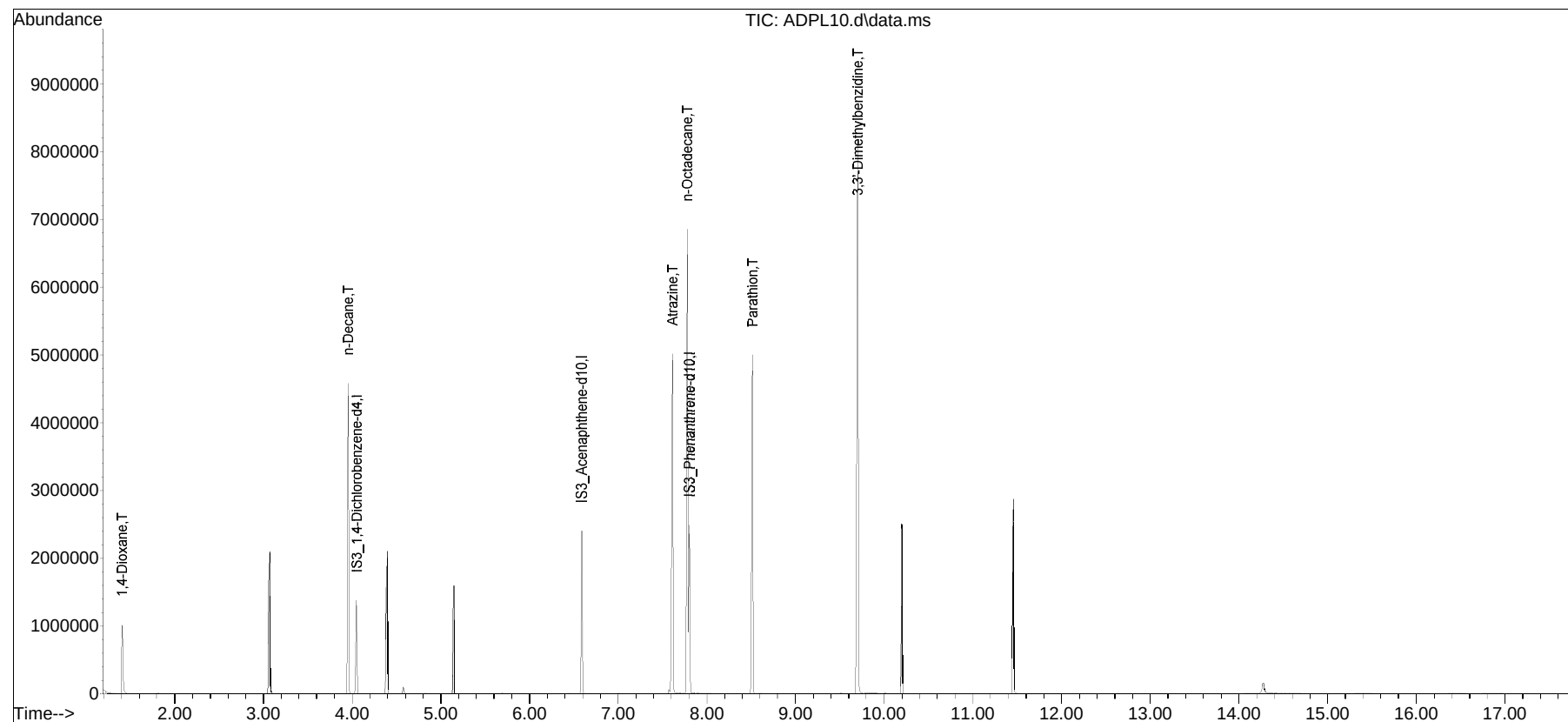
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL10.d  
 Acq On : 10 Jun 2019 12:31 am  
 Operator : gcms5:ek  
 Sample : IL21,32,,ADPL200 Lot# 8234  
 Misc : wg1246641,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 10 13:11:49 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

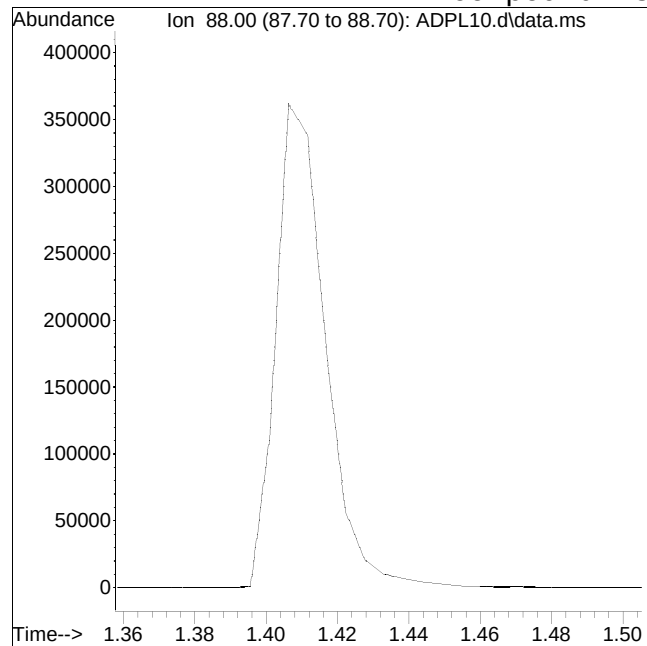
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

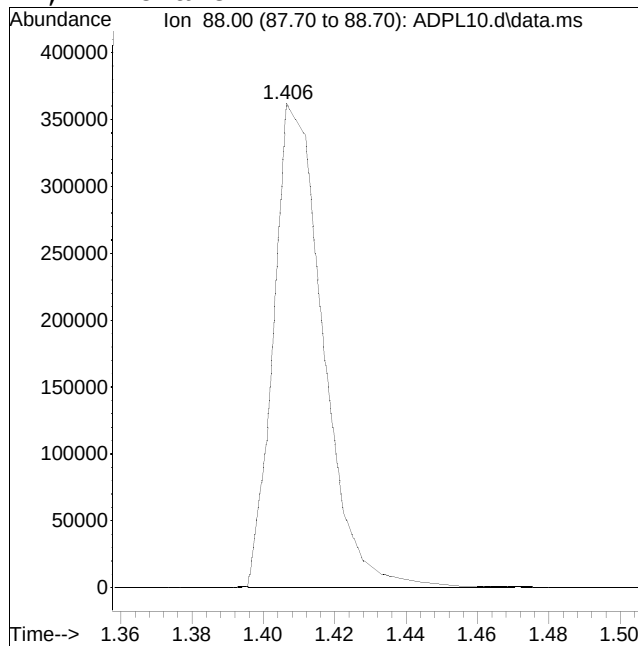
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL10.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 12:31 am Instrument : GCMS5  
Sample : IL21,32,,ADPL200 Lot# 8234Quant Date : 6/10/2019 11:52 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 349708 M2



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL9.d  
 Acq On : 10 Jun 2019 12:57 am  
 Operator : gcms5:ek  
 Sample : IL22,32,,ADPL150 Lot# 8243  
 Misc : wg1246641,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 10 13:37:40 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 165504   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 94.37% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 343192   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 91.05% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 721254   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 92.66% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 33) 1,4-Dioxane             | 1.406 | 88   | 252539M2 | 141.309 | ug/ml  |        |
| 34) n-Decane                | 3.954 | 57   | 616996   | 135.252 | ug/ml  | 99     |
| 87) Atrazine                | 7.609 | 200  | 460883   | 151.418 | ug/ml# | 90     |
| 101) n-Octadecane           | 7.785 | 57   | 913885   | 127.346 | ug/ml  | 96     |
| 102) Parathion              | 8.511 | 109  | 324670   | 158.171 | ug/ml# | 92     |
| 103) 3,3'-Dimethylbenzidine | 9.697 | 212  | 2096984  | 148.533 | ug/ml  | 99     |
| -----                       |       |      |          |         |        |        |

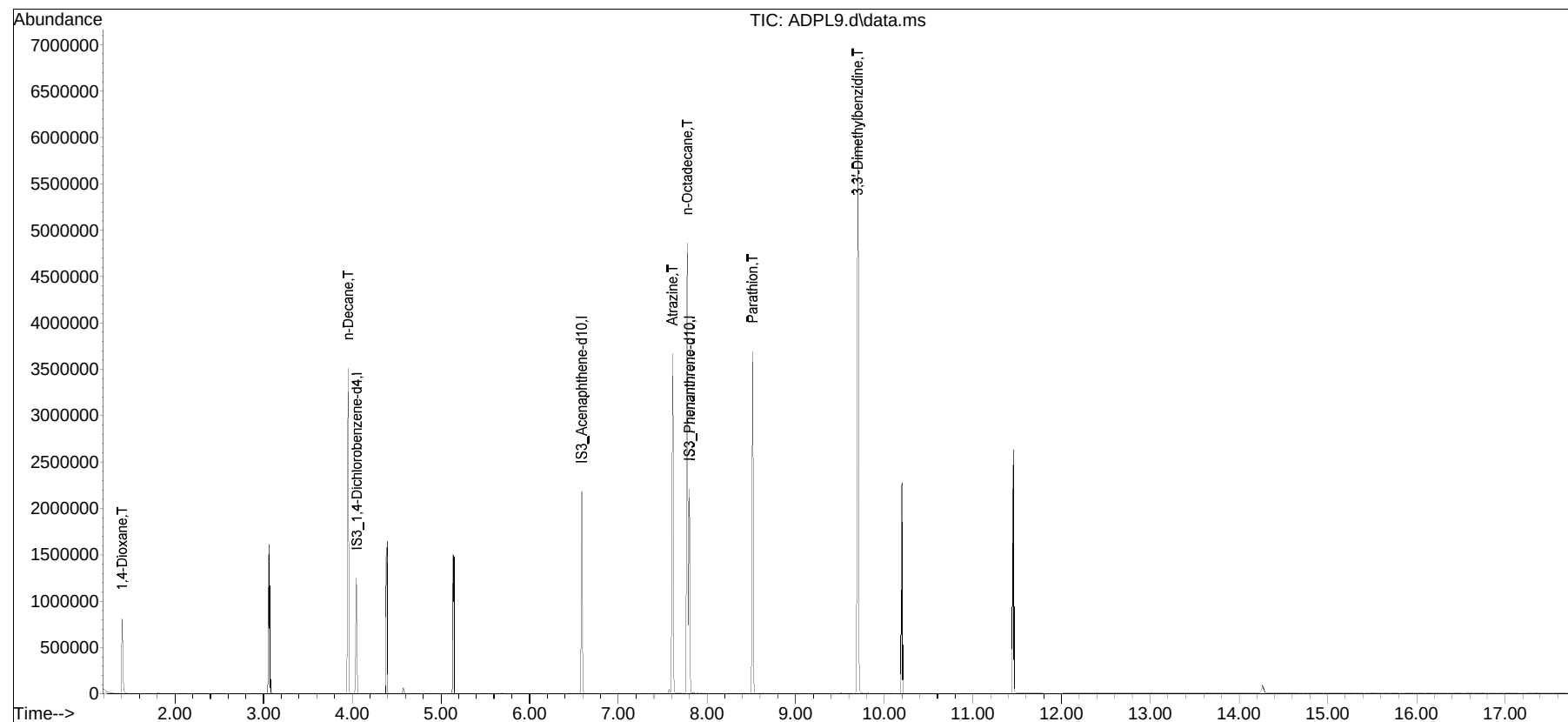
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL9.d  
 Acq On : 10 Jun 2019 12:57 am  
 Operator : gcms5:ek  
 Sample : IL22,32,,ADPL150 Lot# 8243  
 Misc : wg1246641,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 10 13:37:40 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

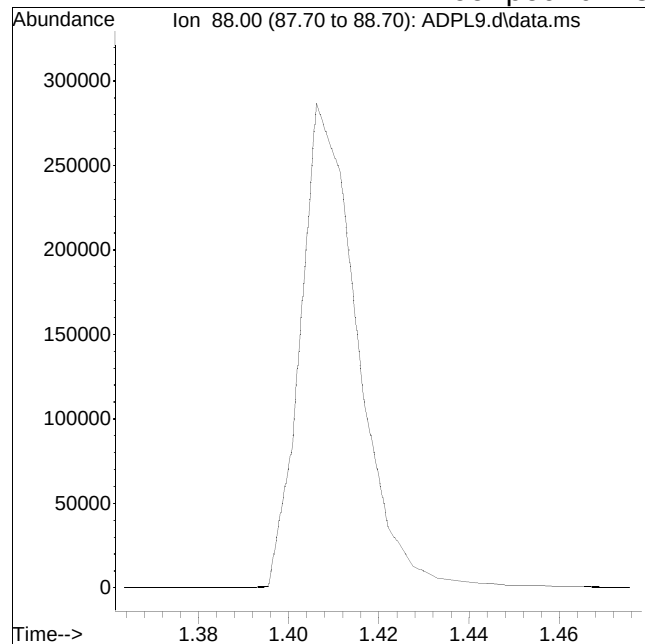
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

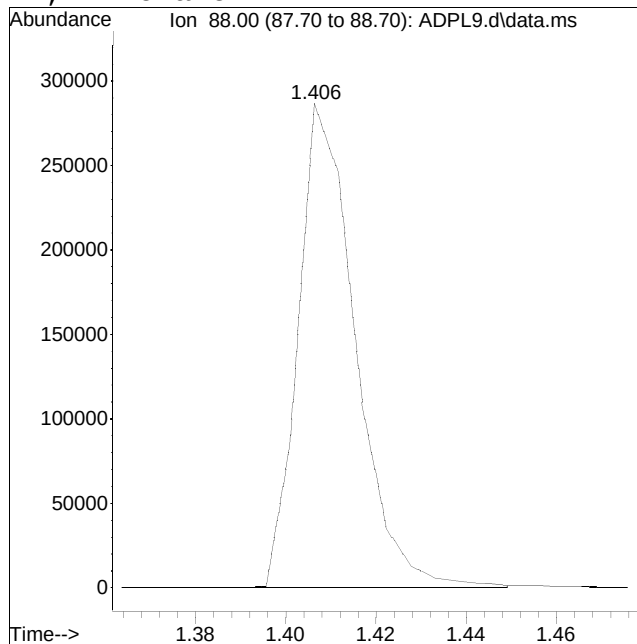
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL9.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 12:57 am Instrument : GCMS5  
Sample : IL22,32,,ADPL150 Lot# 8243 Quant Date : 6/10/2019 11:53 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 252539 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL8.d  
 Acq On : 10 Jun 2019 1:22 am  
 Operator : gcms5:ek  
 Sample : IL23,32,,ADPL100 Lot# 8242  
 Misc : wg1246641,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 13:36:38 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 163498   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 93.23%  |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 361749   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 95.98%  |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 785928   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 100.97% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|-------|------|----------|---------|--------|--------|
| 33) 1,4-Dioxane             | 1.406 | 88   | 173717M2 | 98.396  | ug/ml  |        |
| 34) n-Decane                | 3.955 | 57   | 433392   | 96.170  | ug/ml  | 98     |
| 87) Atrazine                | 7.609 | 200  | 335063   | 104.434 | ug/ml# | 91     |
| 101) n-Octadecane           | 7.780 | 57   | 710952   | 90.916  | ug/ml  | 96     |
| 102) Parathion              | 8.512 | 109  | 244314   | 109.229 | ug/ml# | 91     |
| 103) 3,3'-Dimethylbenzidine | 9.697 | 212  | 1587179  | 103.171 | ug/ml  | 100    |
| -----                       |       |      |          |         |        |        |

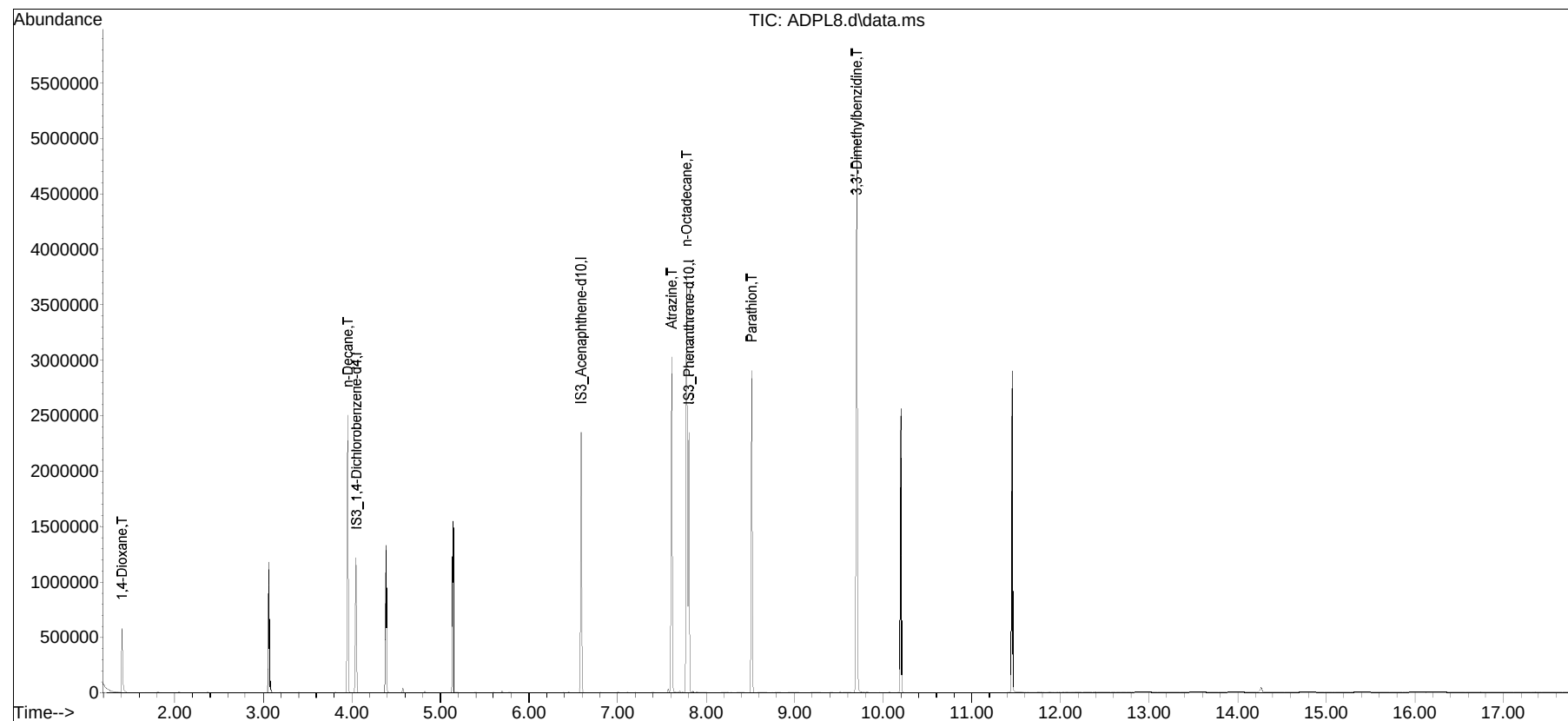
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL8.d  
 Acq On : 10 Jun 2019 1:22 am  
 Operator : gcms5:ek  
 Sample : IL23,32,,ADPL100 Lot# 8242  
 Misc : wg1246641,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 10 13:36:38 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

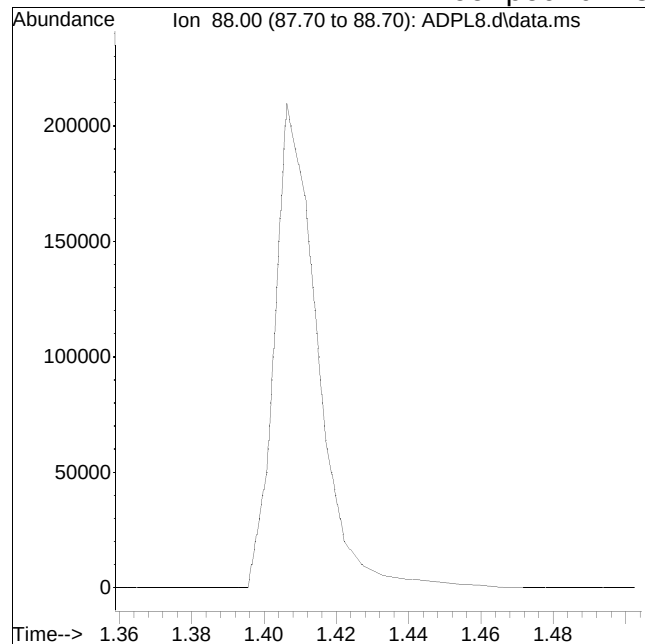
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

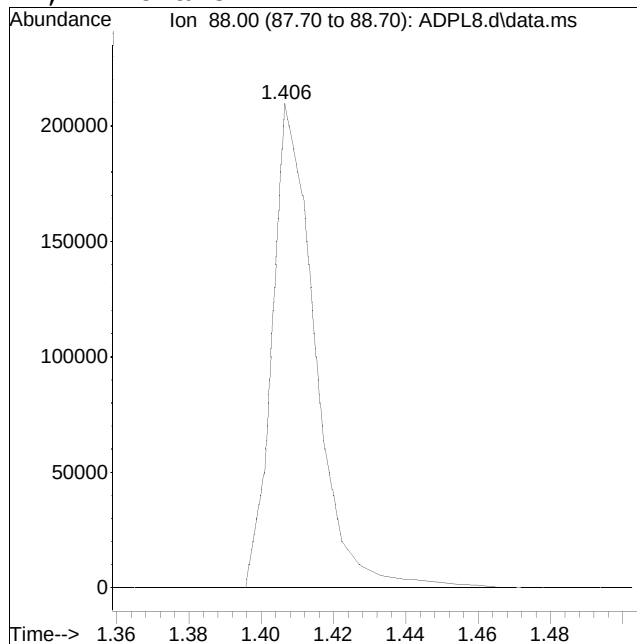
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL8.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 1:22 am Instrument : GCMS5  
Sample : IL23,32,,ADPL100 Lot# 8242Quant Date : 6/10/2019 11:53 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 173717 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL7.d  
 Acq On : 10 Jun 2019 1:48 am  
 Operator : gcms5:ek  
 Sample : IL24,32,,ADPL50 Lot# 8241  
 Misc : wg1246641,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 10 11:49:49 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:49:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 175372   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 100.00% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 376912   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 100.00% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 778399   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 100.00% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.412 | 88   | 94685M2  | 50.000 | ug/ml  |        |
| 34) n-Decane                | 3.954 | 57   | 241691   | 50.000 | ug/ml  | 99     |
| 87) Atrazine                | 7.603 | 200  | 167142   | 50.000 | ug/ml# | 90     |
| 101) n-Octadecane           | 7.779 | 57   | 387250   | 50.000 | ug/ml  | 94     |
| 102) Parathion              | 8.511 | 109  | 110764   | 50.000 | ug/ml# | 90     |
| 103) 3,3'-Dimethylbenzidine | 9.697 | 212  | 761827   | 50.000 | ug/ml  | 99     |

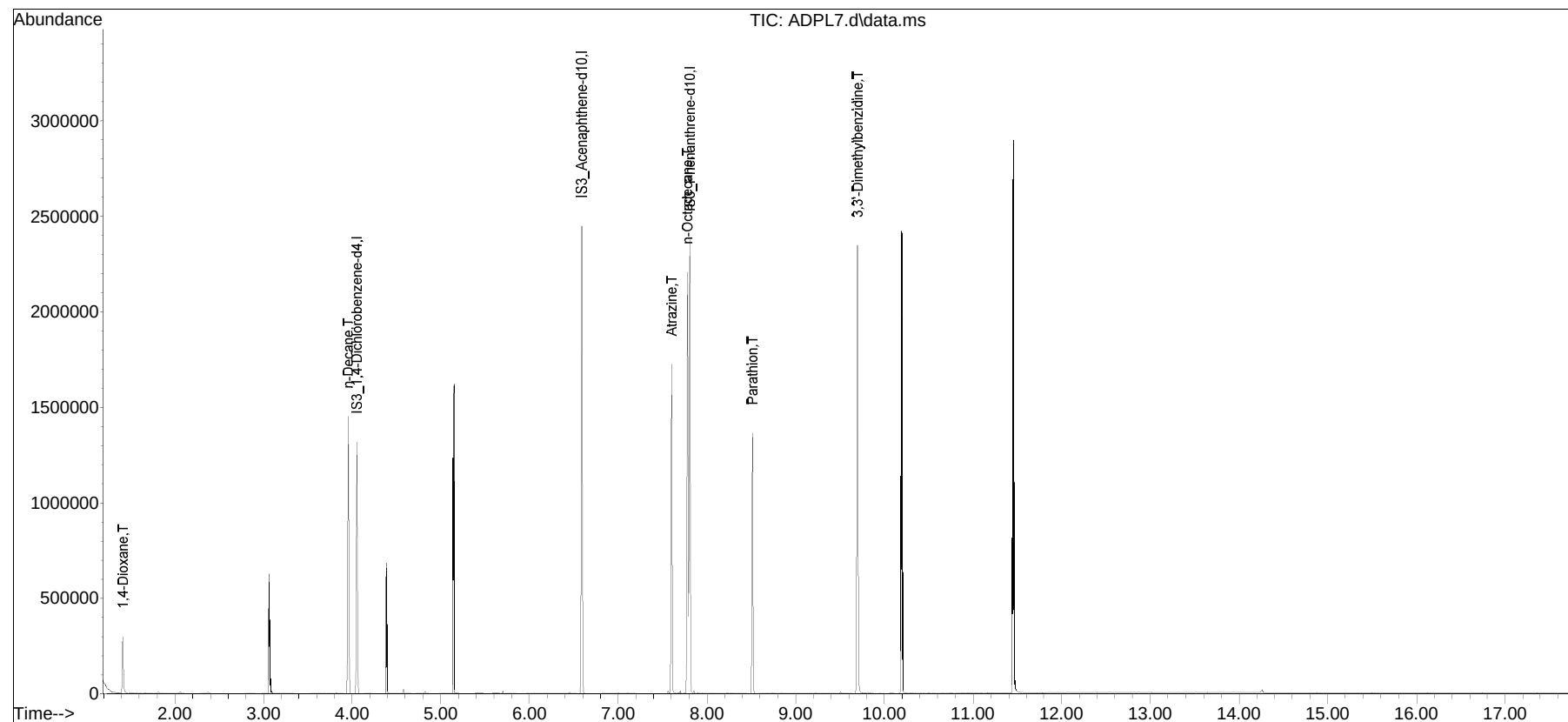
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL7.d  
 Acq On : 10 Jun 2019 1:48 am  
 Operator : gcms5:ek  
 Sample : IL24,32,,ADPL50 Lot# 8241  
 Misc : wg1246641,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 10 11:49:49 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:49:31 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•

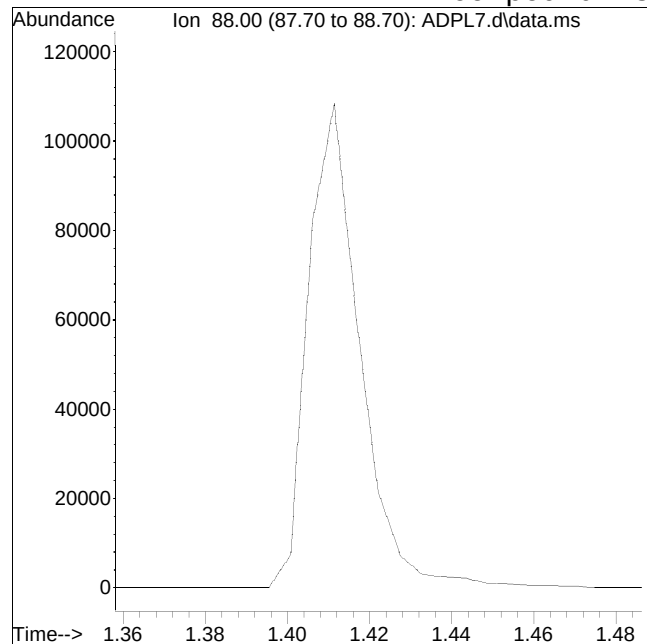




# Manual Integration Report

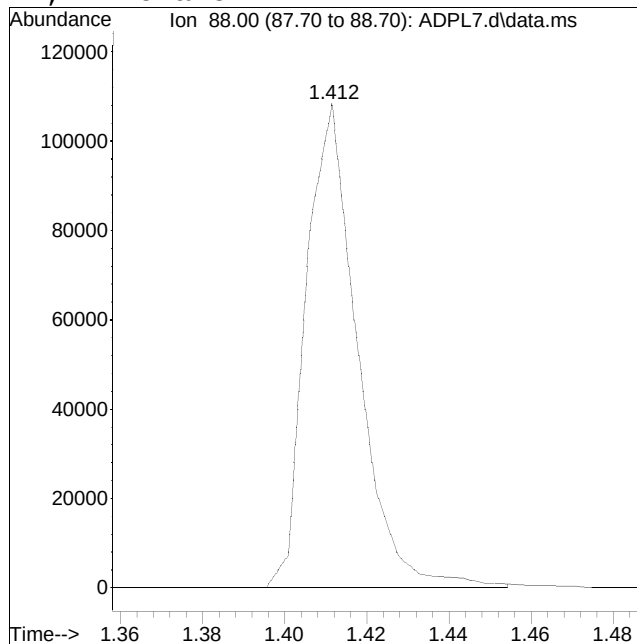
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL7.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 1:48 am Instrument : GCMS5  
Sample : IL24,32,,ADPL50 Lot# 8241 Quant Date : 6/10/2019 11:49 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 94685 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL6.d  
 Acq On : 10 Jun 2019 2:14 am  
 Operator : gcms5:ek  
 Sample : IL25,32,,ADPL20 Lot# 8240  
 Misc : wg1246641,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 10 13:35:09 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 164200   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 93.63% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 347121   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 92.10% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 718653   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 92.32% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.412 | 88   | 36177M2  | 20.404 | ug/ml  |        |
| 34) n-Decane                | 3.955 | 57   | 92765    | 20.497 | ug/ml  | 98     |
| 87) Atrazine                | 7.603 | 200  | 56539    | 18.365 | ug/ml# | 89     |
| 101) n-Octadecane           | 7.780 | 57   | 144387   | 20.192 | ug/ml  | 97     |
| 102) Parathion              | 8.506 | 109  | 29516    | 14.432 | ug/ml# | 86     |
| 103) 3,3'-Dimethylbenzidine | 9.692 | 212  | 238740   | 16.972 | ug/ml  | 98     |
| -----                       |       |      |          |        |        |        |

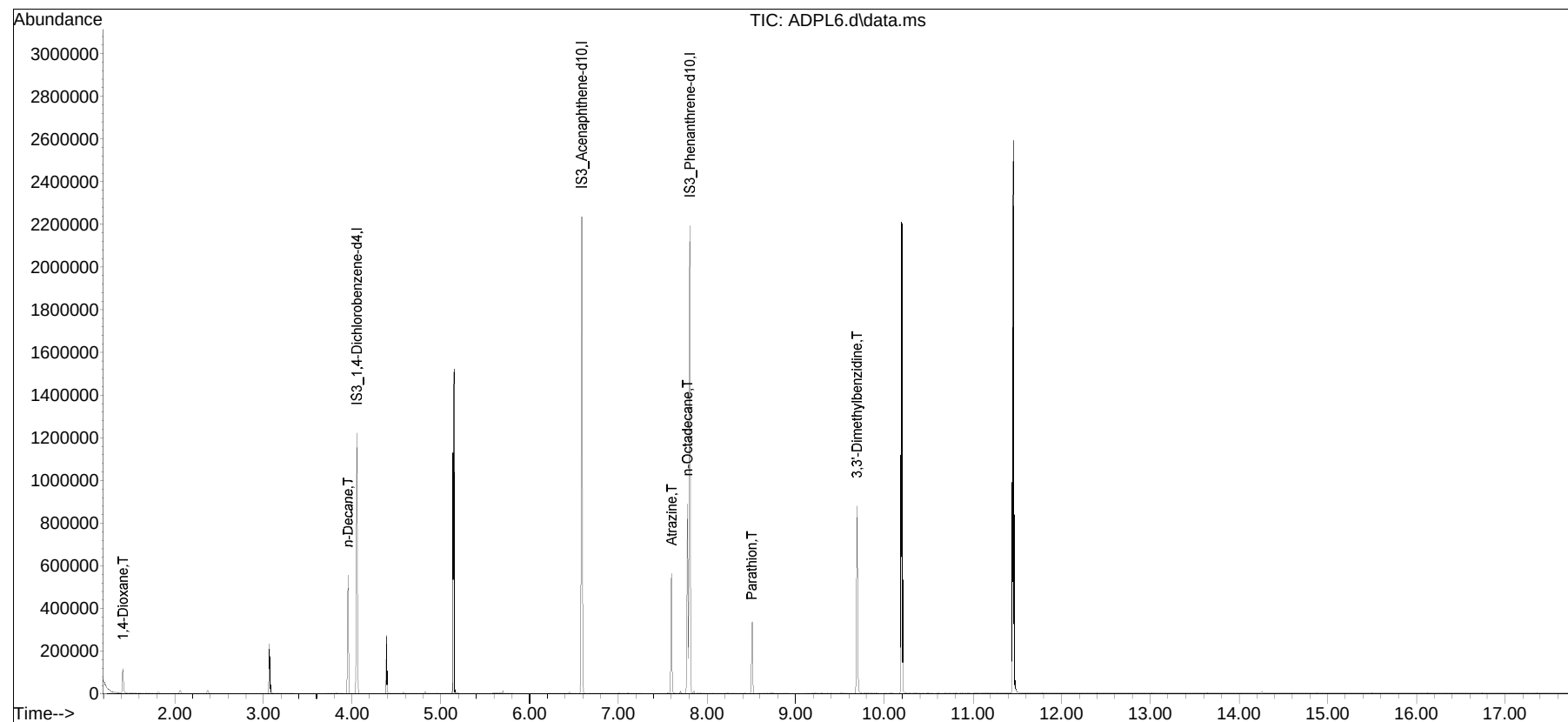
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL6.d  
 Acq On : 10 Jun 2019 2:14 am  
 Operator : gcms5:ek  
 Sample : IL25,32,,ADPL20 Lot# 8240  
 Misc : wg1246641,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 10 13:35:09 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

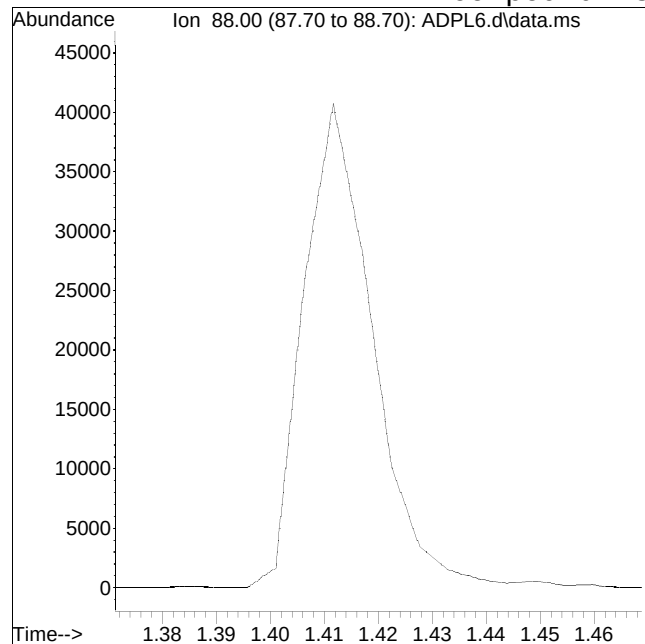
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

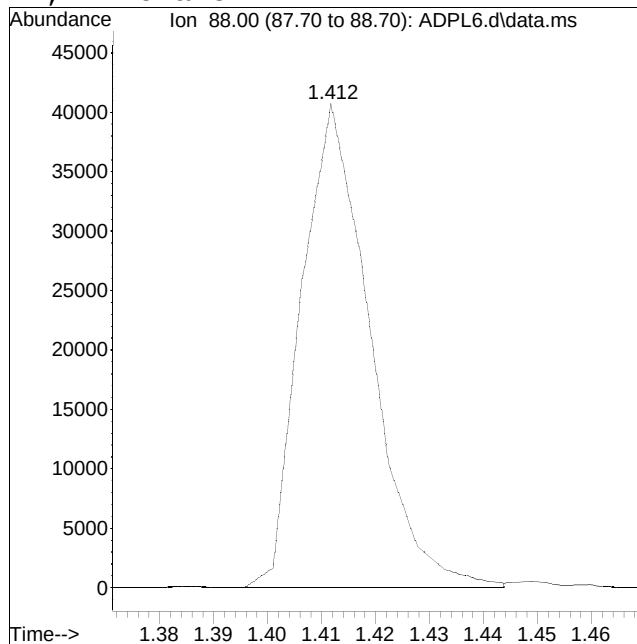
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL6.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 2:14 am Instrument : GCMS5  
Sample : IL25,32,,ADPL20 Lot# 8240 Quant Date : 6/10/2019 11:53 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 36177 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL5.d  
 Acq On : 10 Jun 2019 2:39 am  
 Operator : gcms5:ek  
 Sample : IL26,32,,ADPL10 Lot# 8239  
 Misc : wg1246641,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 10 13:39:48 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:30:53 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 158958   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 90.64% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 359509   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 95.38% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 757137   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 97.27% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.412 | 88   | 17530M2  | 10.514 | ug/ml  |        |
| 34) n-Decane                | 3.954 | 57   | 46780    | 10.649 | ug/ml  | 98     |
| 87) Atrazine                | 7.603 | 200  | 25914    | 10.287 | ug/ml  | 92     |
| 101) n-Octadecane           | 7.779 | 57   | 73987    | 11.294 | ug/ml  | 98     |
| 102) Parathion              | 8.511 | 109  | 10298    | 5.884  | ug/ml# | 82     |
| 103) 3,3'-Dimethylbenzidine | 9.692 | 212  | 107612   | 9.056  | ug/ml  | 98     |
| -----                       |       |      |          |        |        |        |

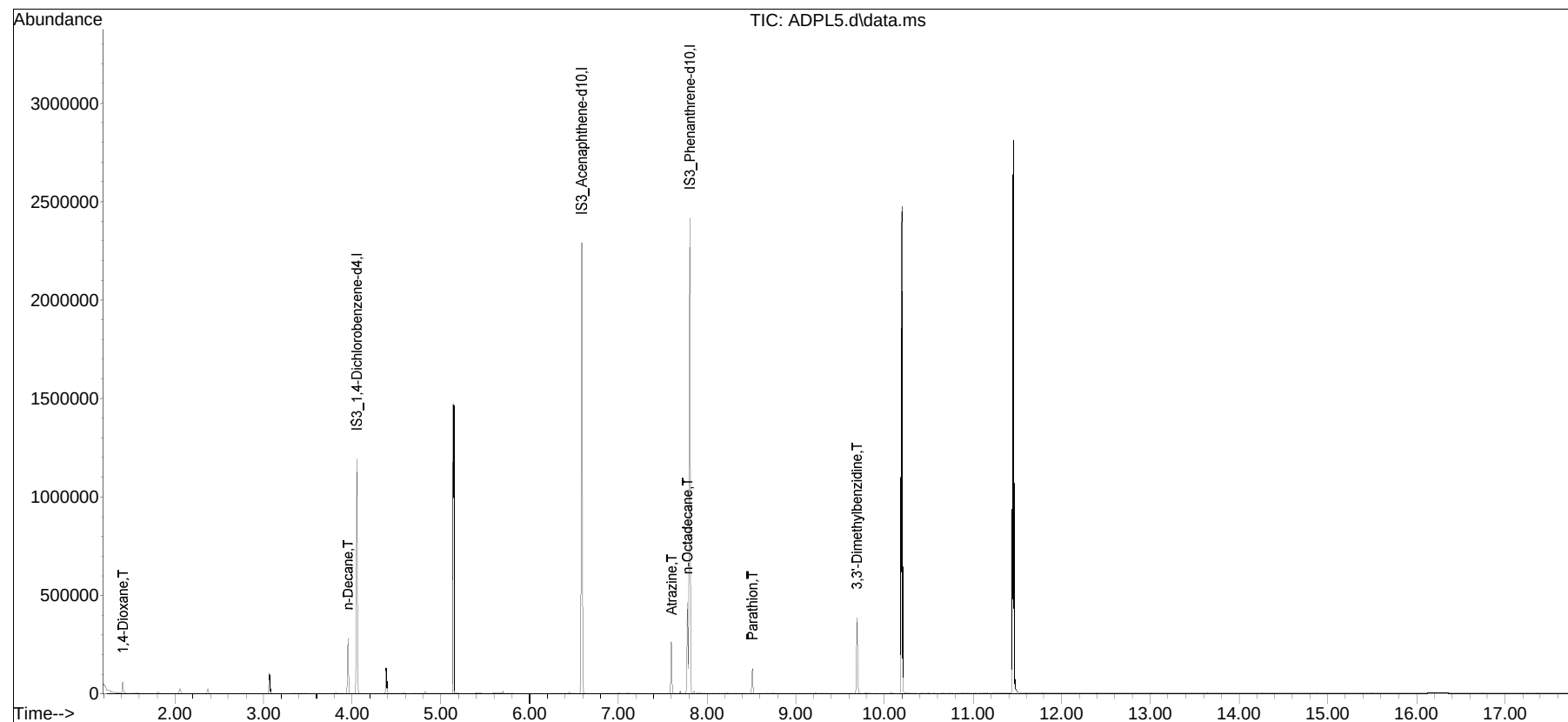
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL5.d  
 Acq On : 10 Jun 2019 2:39 am  
 Operator : gcms5:ek  
 Sample : IL26,32,,ADPL10 Lot# 8239  
 Misc : wg1246641,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 10 13:39:48 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:30:53 2019  
 Response via : Initial Calibration

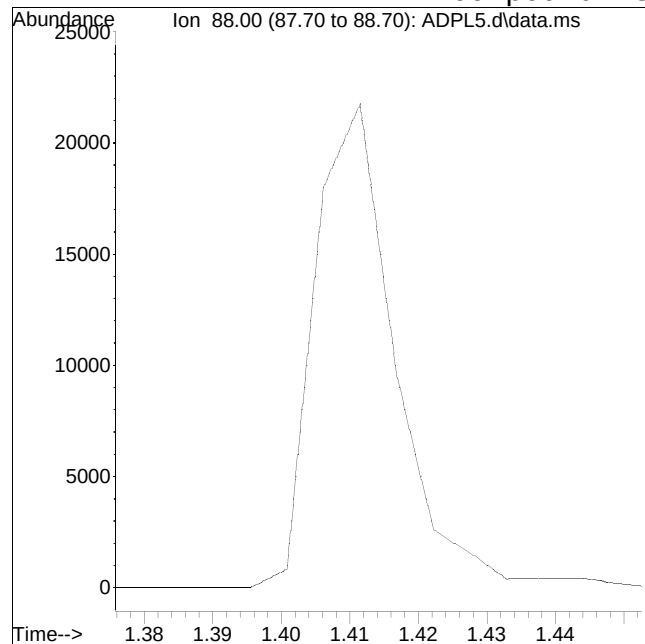
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

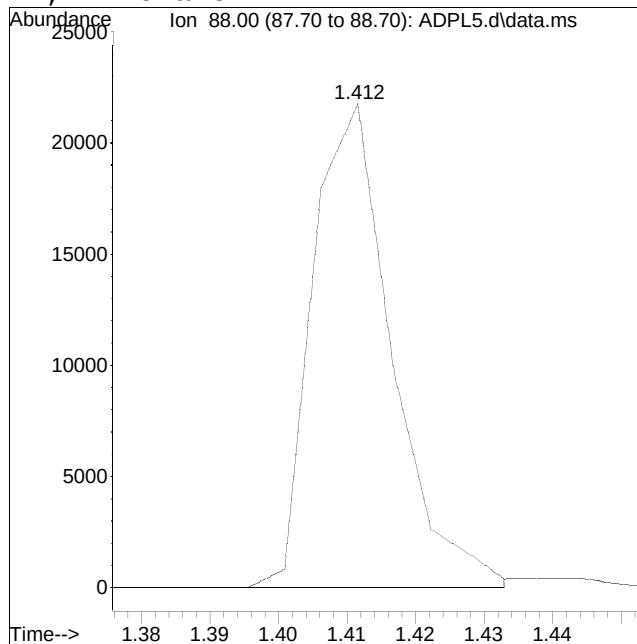
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL5.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 2:39 am Instrument : GCMS5  
Sample : IL26,32,,ADPL10 Lot# 8239 Quant Date : 6/10/2019 1:34 pm

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 17530 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL4.d  
 Acq On : 10 Jun 2019 3:05 am  
 Operator : gcms5:ek  
 Sample : IL27,32,,ADPL5 Lot# 8238  
 Misc : wg1246641,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 10 13:42:48 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:42:39 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 147388   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 84.04% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 317433   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 84.22% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 657535   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 84.47% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.412 | 88   | 7930M2   | 5.087 | ug/ml  |        |
| 34) n-Decane                | 3.955 | 57   | 20850    | 5.147 | ug/ml  | 97     |
| 87) Atrazine                | 7.603 | 200  | 8782     | 4.686 | ug/ml# | 86     |
| 101) n-Octadecane           | 7.780 | 57   | 29715    | 5.048 | ug/ml  | 95     |
| 102) Parathion              | 8.506 | 109  | 3583     | 6.060 | ug/ml# | 81     |
| 103) 3,3'-Dimethylbenzidine | 9.692 | 212  | 28065    | 4.881 | ug/ml  | 98     |

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

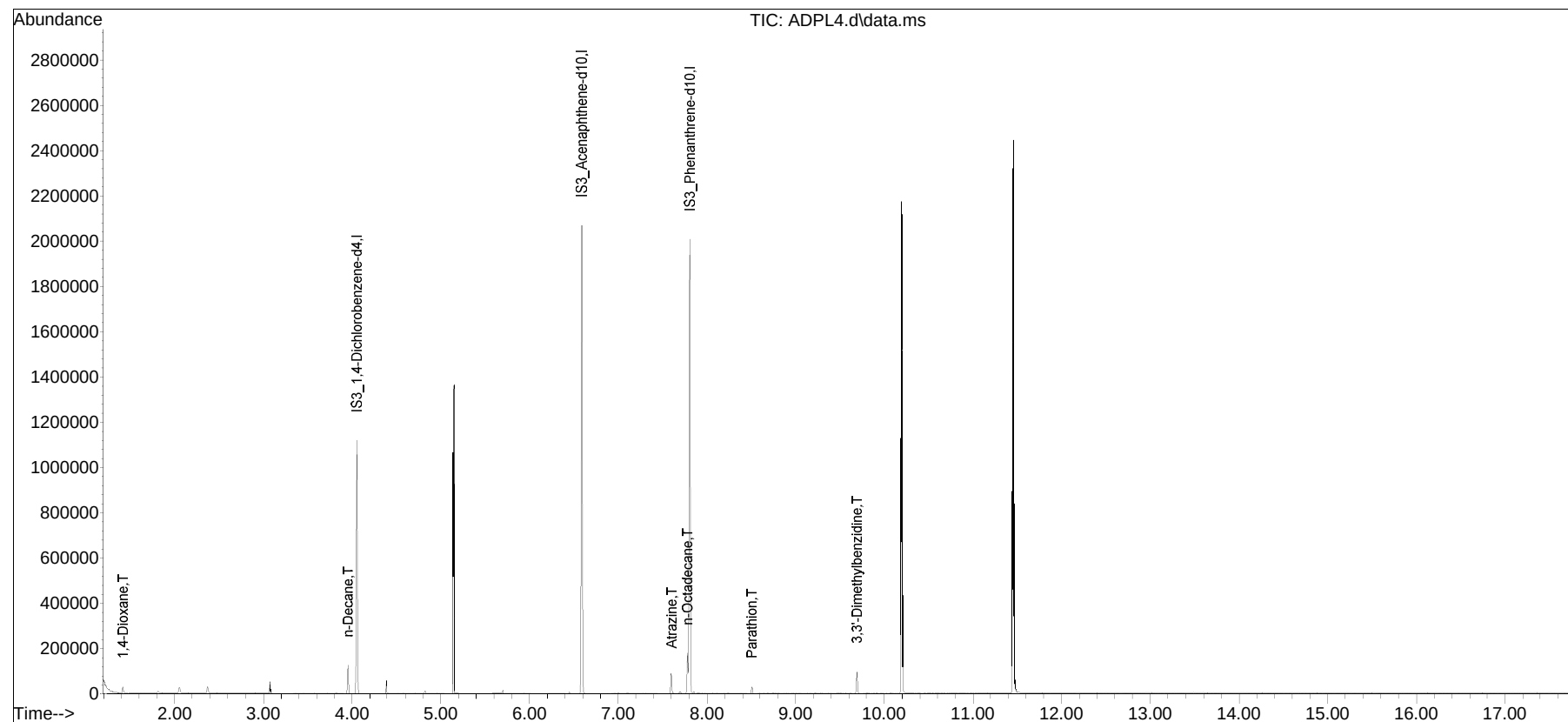


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL4.d  
 Acq On : 10 Jun 2019 3:05 am  
 Operator : gcms5:ek  
 Sample : IL27,32,,ADPL5 Lot# 8238  
 Misc : wg1246641,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 10 13:42:48 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:42:39 2019  
 Response via : Initial Calibration

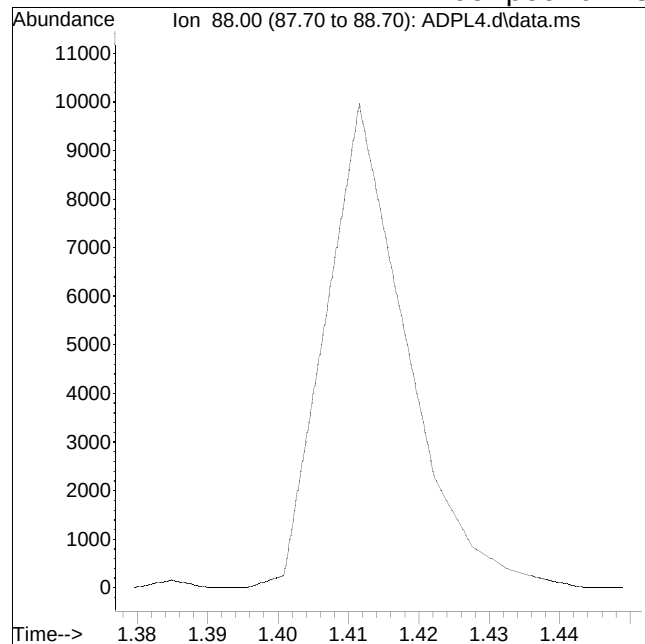
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

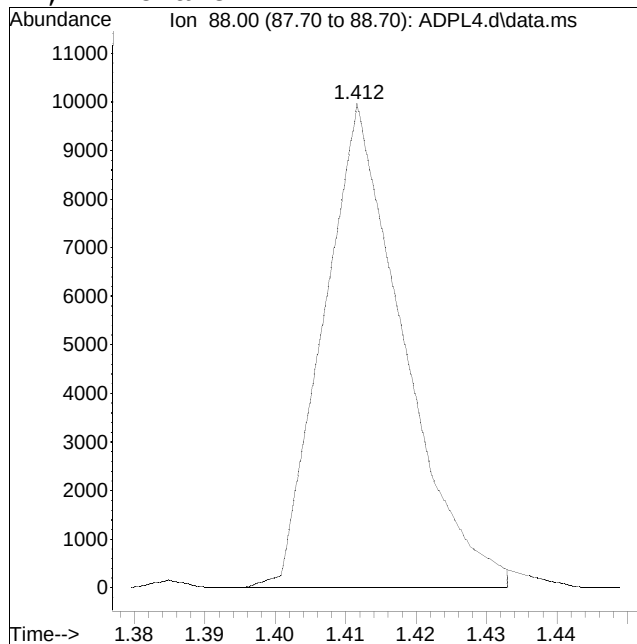
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL4.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 3:05 am Instrument : GCMS5  
Sample : IL27,32,,ADPL5 Lot# 8238 Quant Date : 6/10/2019 1:42 pm

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 7930 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL3.d  
 Acq On : 10 Jun 2019 3:31 am  
 Operator : gcms5:ek  
 Sample : IL28,32,,ADPL3 Lot# 8237  
 Misc : wg1246641,,  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 10 13:42:16 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:42:06 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 154682   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 88.20% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 324179   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 86.01% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 660757   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 84.89% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.412 | 88   | 5346M2   | 3.267 | ug/ml  |        |
| 34) n-Decane                | 3.954 | 57   | 13224    | 3.110 | ug/ml  | 96     |
| 87) Atrazine                | 7.603 | 200  | 4749     | 3.244 | ug/ml  | 89     |
| 101) n-Octadecane           | 7.779 | 57   | 16224    | 2.743 | ug/ml  | 96     |
| 102) Parathion              | 8.506 | 109  | 1649     | 5.106 | ug/ml# | 80     |
| 103) 3,3'-Dimethylbenzidine | 9.692 | 212  | 12159    | 3.655 | ug/ml  | 98     |
| -----                       |       |      |          |       |        |        |

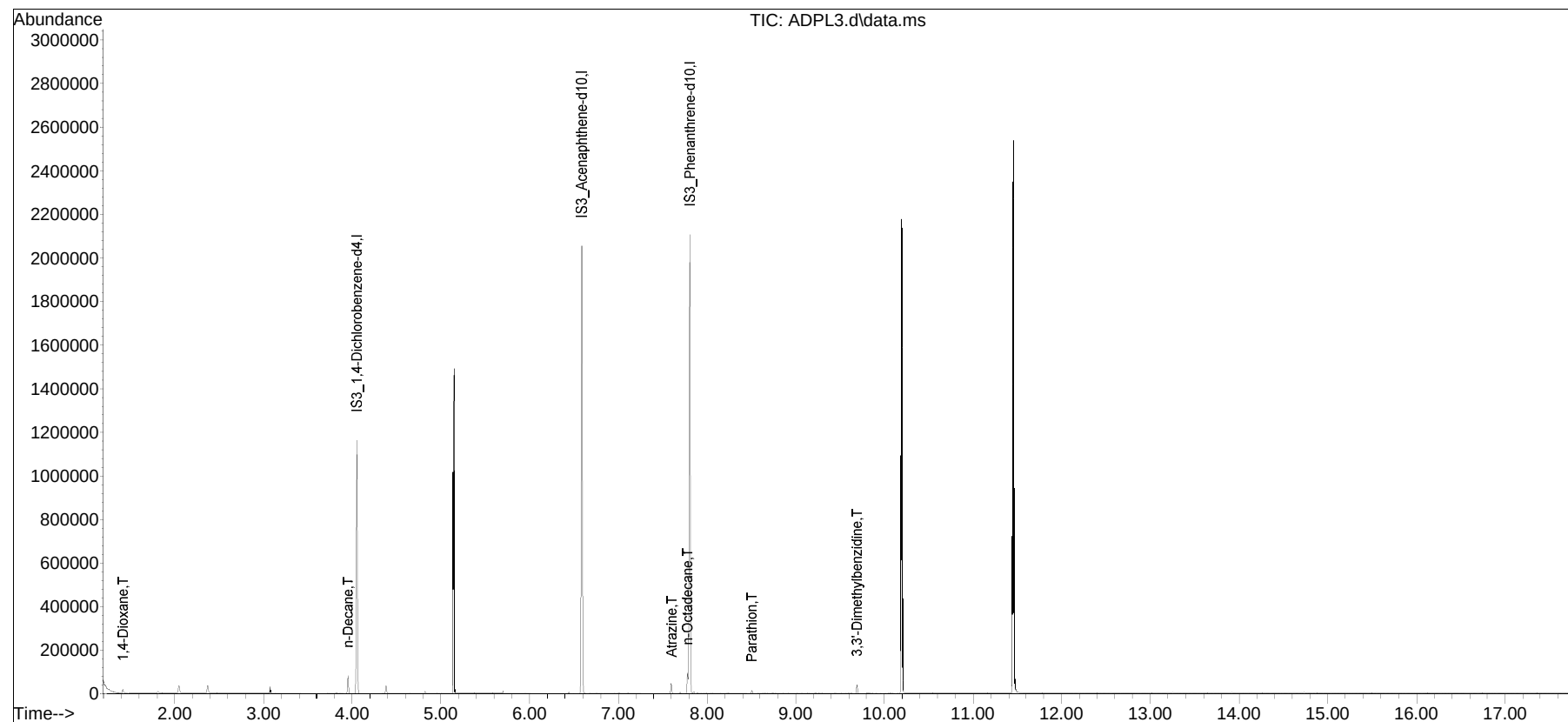
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL3.d  
 Acq On : 10 Jun 2019 3:31 am  
 Operator : gcms5:ek  
 Sample : IL28,32,,ADPL3 Lot# 8237  
 Misc : wg1246641,,  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 10 13:42:16 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 13:42:06 2019  
 Response via : Initial Calibration

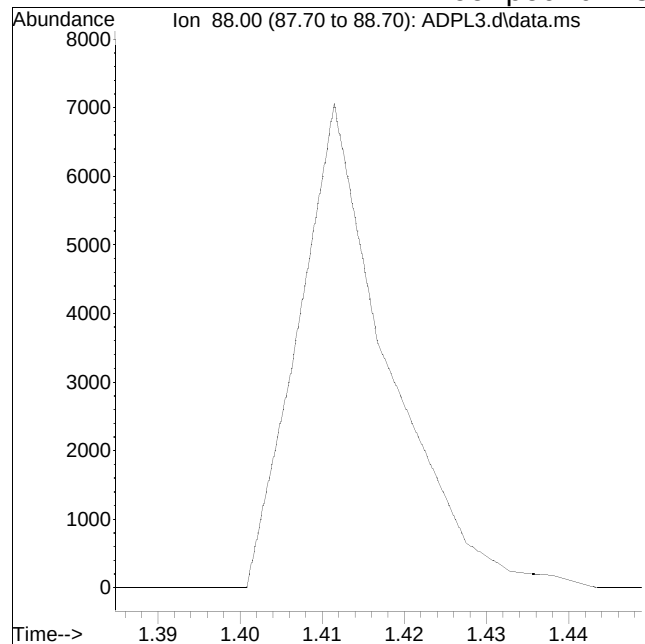
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

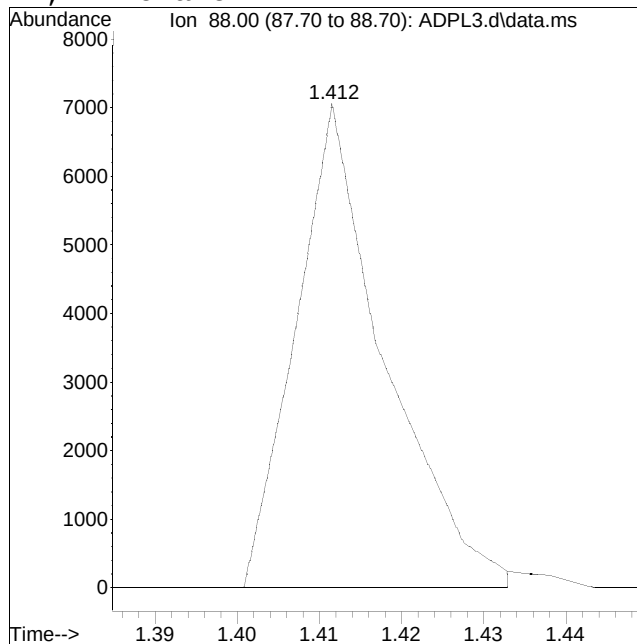
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL3.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 3:31 am Instrument : GCMS5  
Sample : IL28,32,,ADPL3 Lot# 8237 Quant Date : 6/10/2019 1:42 pm

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 5346 M2

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL2.d  
 Acq On : 10 Jun 2019 3:57 am  
 Operator : gcms5:ek  
 Sample : IL29,32,,ADPL2 Lot# 8236  
 Misc : wg1246641,,  
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 10 13:12:48 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 154747   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 88.24% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 336604   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 89.31% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 702078   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 90.20% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.411 | 88   | 3151M2   | 1.886 | ug/ml  |        |
| 34) n-Decane                | 3.954 | 57   | 9001     | 2.110 | ug/ml  | 97     |
| 87) Atrazine                | 7.598 | 200  | 3171     | 1.062 | ug/ml# | 80     |
| 101) n-Octadecane           | 7.779 | 57   | 11234    | 1.608 | ug/ml  | 95     |
| 102) Parathion              | 8.506 | 109  | 1030     | 0.515 | ug/ml# | 67     |
| 103) 3,3'-Dimethylbenzidine | 9.692 | 212  | 7204     | 0.524 | ug/ml  | 97     |

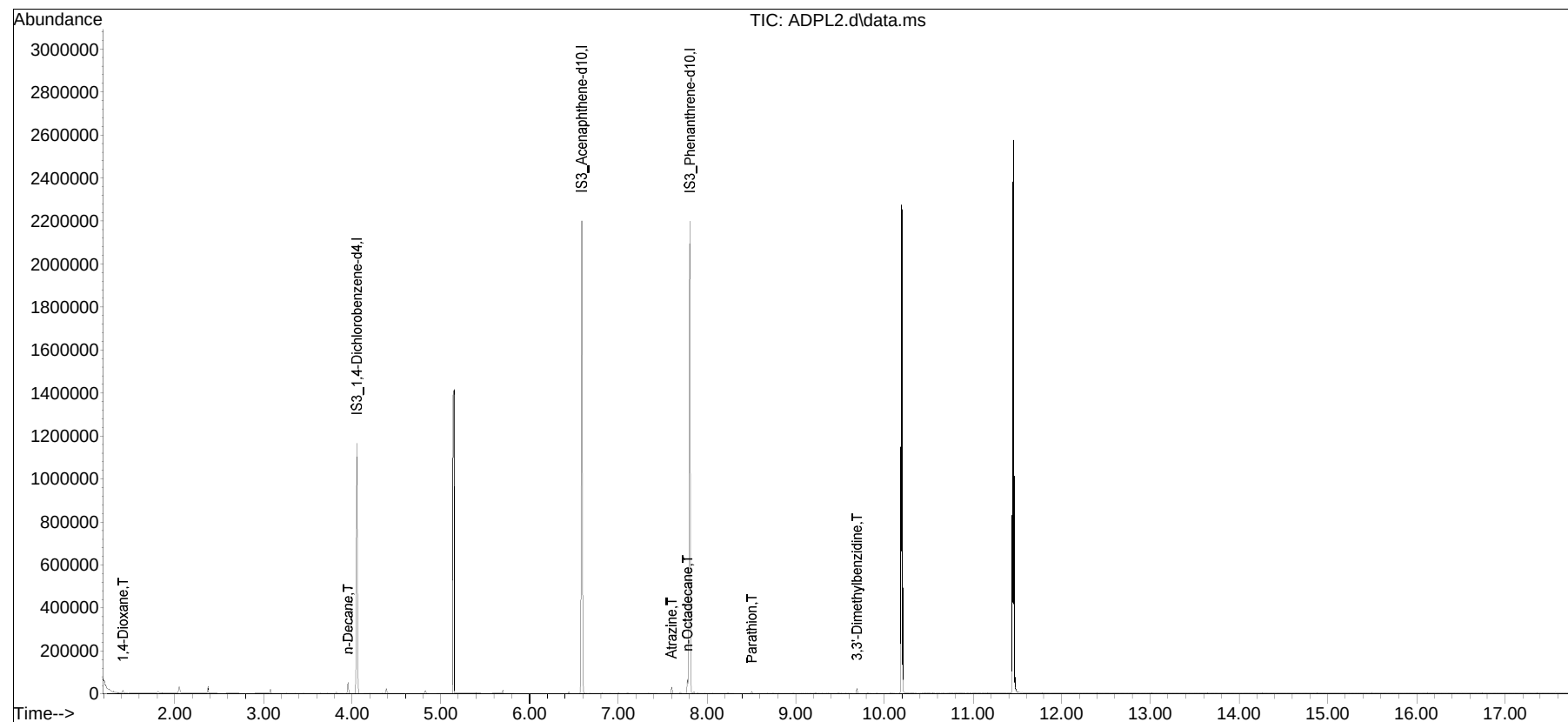
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL2.d  
 Acq On : 10 Jun 2019 3:57 am  
 Operator : gcms5:ek  
 Sample : IL29,32,,ADPL2 Lot# 8236  
 Misc : wg1246641,,  
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 10 13:12:48 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

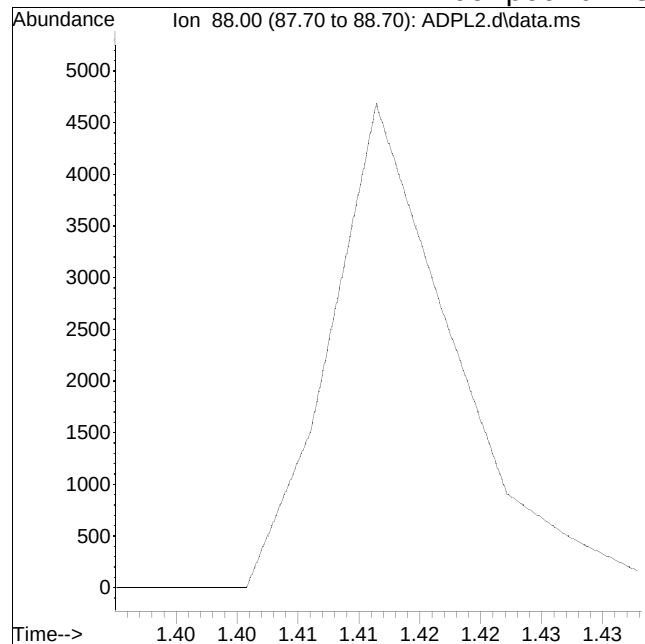
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

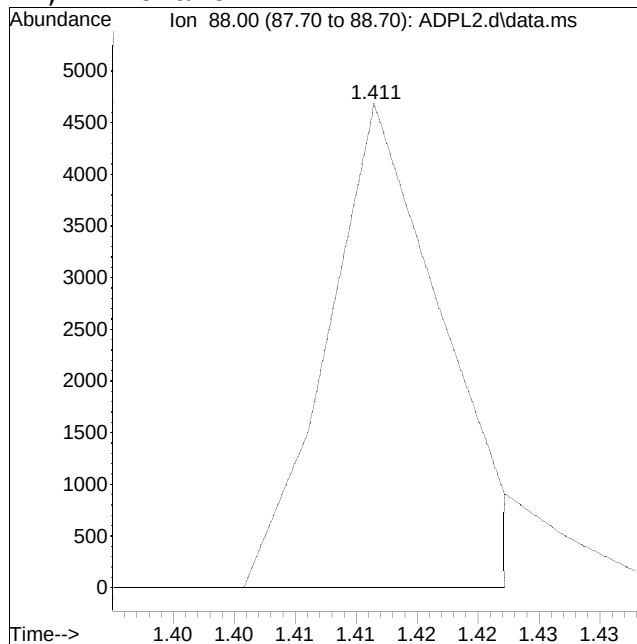
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL2.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 3:57 am Instrument : GCMS5  
Sample : IL29,32,,ADPL2 Lot# 8236 Quant Date : 6/10/2019 11:53 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 3151 M2



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL1.d  
 Acq On : 10 Jun 2019 4:22 am  
 Operator : gcms5:ek  
 Sample : IL29,32,,ADPL0.5 Lot# 8235  
 Misc : wg1246641,,  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 10 13:10:56 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 165334   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 94.28% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 353406   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 93.76% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 720369   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 92.54% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.417 | 88   | 817M2    | 0.458 | ug/ml  |        |
| 34) n-Decane                | 3.955 | 57   | 2345     | 0.515 | ug/ml  | 92     |
| 87) Atrazine                | 7.598 | 200  | 754      | 0.241 | ug/ml# | 33     |
| 101) n-Octadecane           | 7.780 | 57   | 2012     | 0.281 | ug/ml# | 73     |
| 102) Parathion              | 8.506 | 109  | 267M2    | 0.130 | ug/ml  |        |
| 103) 3,3'-Dimethylbenzidine | 9.692 | 212  | 1538     | 0.109 | ug/ml# | 61     |
| -----                       |       |      |          |       |        |        |

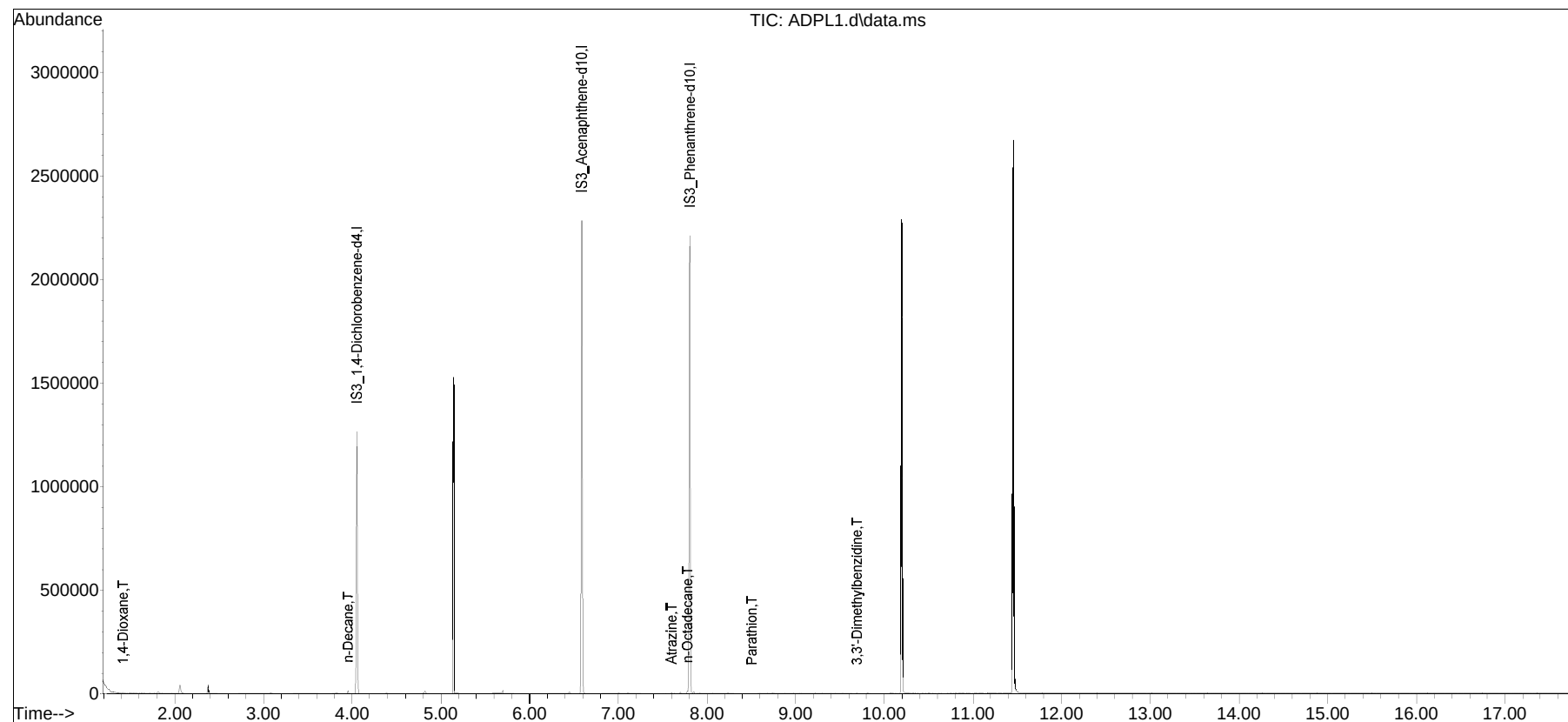
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPL1.d  
 Acq On : 10 Jun 2019 4:22 am  
 Operator : gcms5:ek  
 Sample : IL29,32,,ADPL0.5 Lot# 8235  
 Misc : wg1246641,,  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 10 13:10:56 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 11:50:18 2019  
 Response via : Initial Calibration

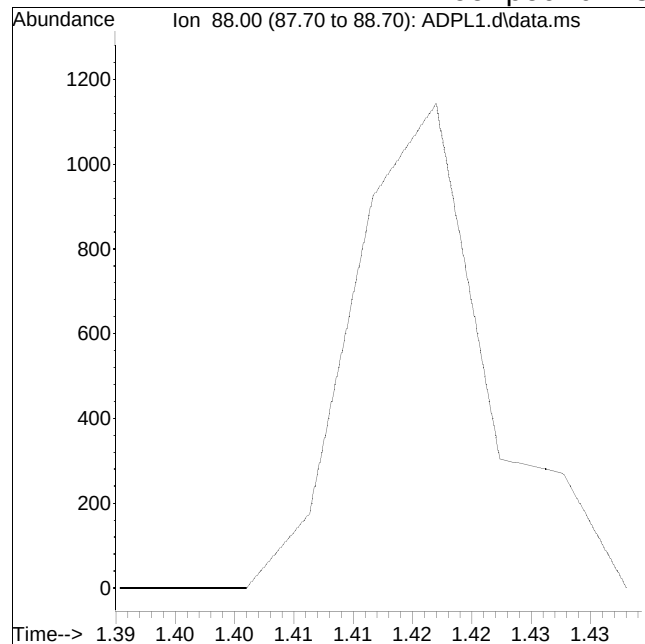
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

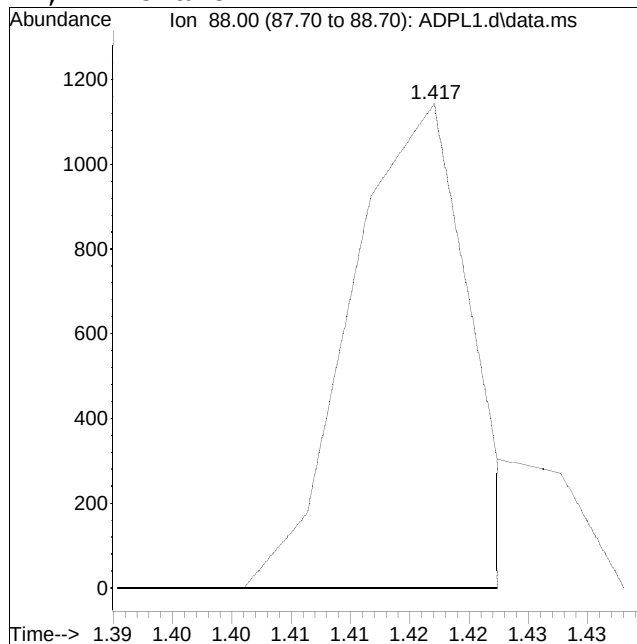
Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL1.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 4:22 am Instrument : GCMS5  
Sample : IL29,32,,ADPL0.5 Lot# 8235Quant Date : 6/10/2019 11:52 am

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

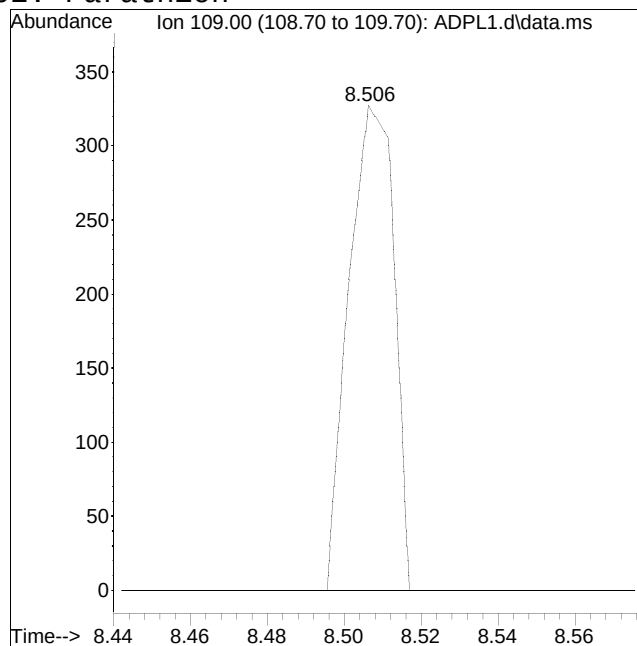
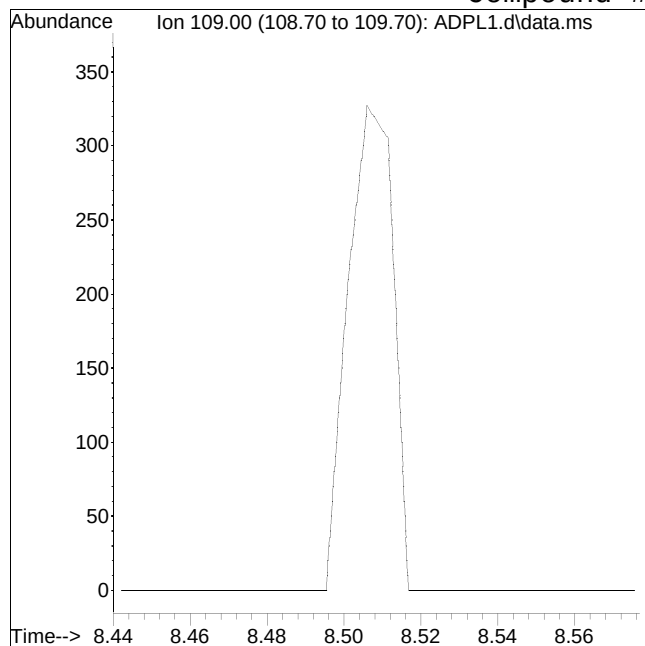


Manual Peak Response = 817 M2

# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPL1.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 4:22 am Instrument : GCMS5  
Sample : IL29,32,,ADPL0.5 Lot# 8235 Quant Date : 6/10/2019 11:52 am

## Compound #102: Parathion



Original Peak Response = 0

Manual Peak Response = 267 M2

M2 = Peak not found by automatic integration algorithm.

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPICV.d  
 Acq On : 10 Jun 2019 4:48 am  
 Operator : gcms5:ek  
 Sample : CQICV3,32,,ADPICV Lot# 8244  
 Misc : wg1246641,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 10 15:32:08 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 15:31:57 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|-------|----------------------------|----------|--------|------|-------|----------|
| 32 I  | IS3_1,4-Dichlorobenzene-d4 | 1.000    | 1.000  | 0.0  | 99    | 0.00     |
| 33 T  | 1,4-Dioxane                | 0.423    | 0.441  | -4.3 | 101   | 0.00     |
| 34 T  | n-Decane                   | 1.099    | 1.100  | -0.1 | 98    | 0.00     |
| 86 I  | IS3_Acenaphthene-d10       | 1.000    | 1.000  | 0.0  | 97    | 0.00     |
| 87 T  | Atrazine                   | * 50.000 | 51.890 | -3.8 | 99    | 0.00     |
| 100 I | IS3_Phenanthrene-d10       | 1.000    | 1.000  | 0.0  | 100   | 0.00     |
| 101 T | n-Octadecane               | 0.358    | 0.392  | -9.5 | 98    | 0.00     |
| 102 T | Parathion                  | * 50.000 | 45.739 | 8.5  | 90    | 0.00     |
| 103 T | 3,3'-Dimethylbenzidine     | * 50.000 | 48.702 | 2.6  | 93    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPICV.d  
 Acq On : 10 Jun 2019 4:48 am  
 Operator : gcms5:ek  
 Sample : CQICV3,32,,ADPICV Lot# 8244  
 Misc : wg1246641,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 10 15:32:08 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 15:31:57 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\190609ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.051 | 152  | 173106   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 175372      |       |      | Recovery | =      | 98.71% |          |
| 86) IS3_Acenaphthene-d10      | 6.588 | 164  | 365980   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 376912      |       |      | Recovery | =      | 97.10% |          |
| 100) IS3_Phenanthrene-d10     | 7.806 | 188  | 775719   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 778399      |       |      | Recovery | =      | 99.66% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.412 | 88   | 95451M2  | 52.131 | ug/ml  |        |
| 34) n-Decane                | 3.955 | 57   | 237999   | 50.023 | ug/ml  | 98     |
| 87) Atrazine                | 7.603 | 200  | 166041   | 51.890 | ug/ml  | 91     |
| 101) n-Octadecane           | 7.780 | 57   | 380496   | 54.791 | ug/ml  | 97     |
| 102) Parathion              | 8.511 | 109  | 99520    | 45.739 | ug/ml# | 89     |
| 103) 3,3'-Dimethylbenzidine | 9.697 | 212  | 706320   | 48.702 | ug/ml  | 98     |
| -----                       |       |      |          |        |        |        |

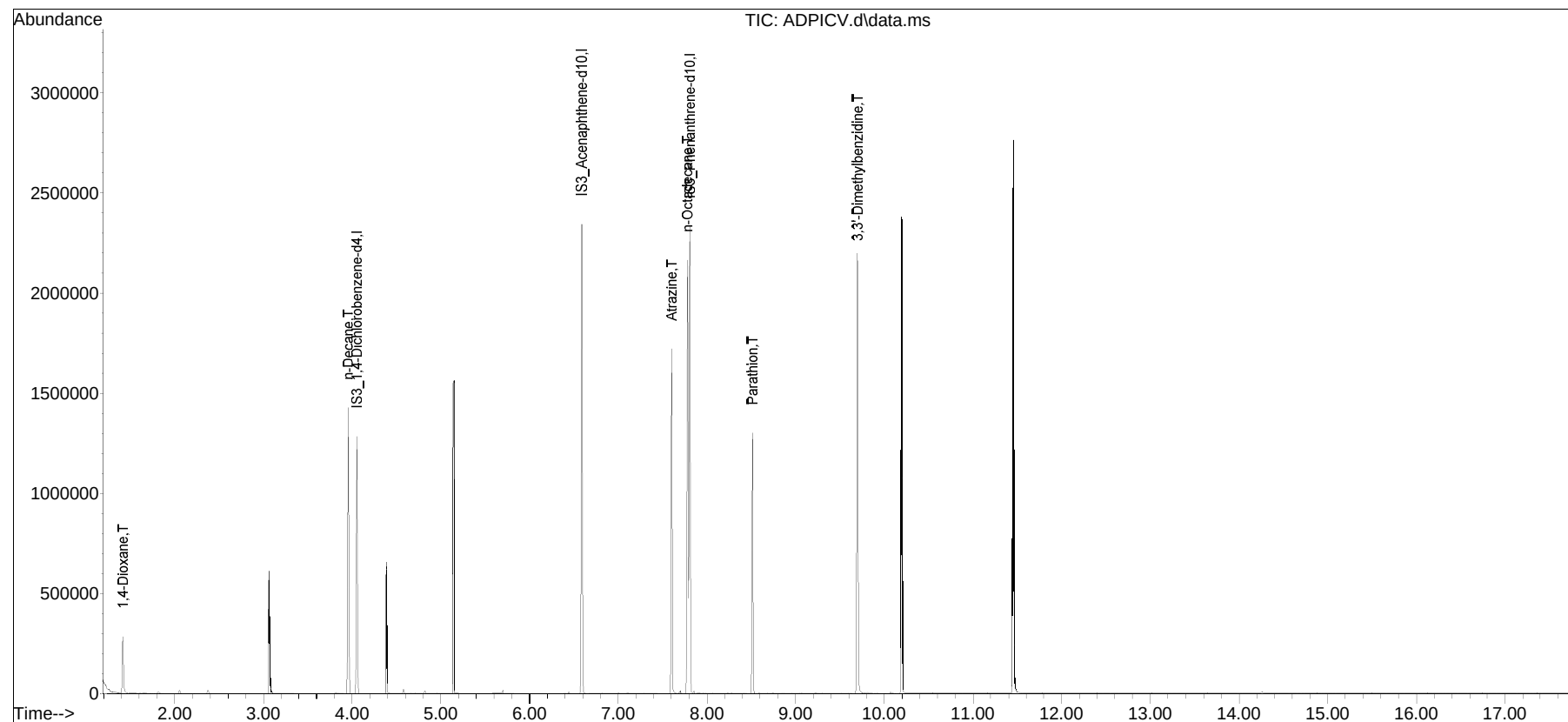
(#) = qualifier out of range (m) = manual integration (+) = signals summed

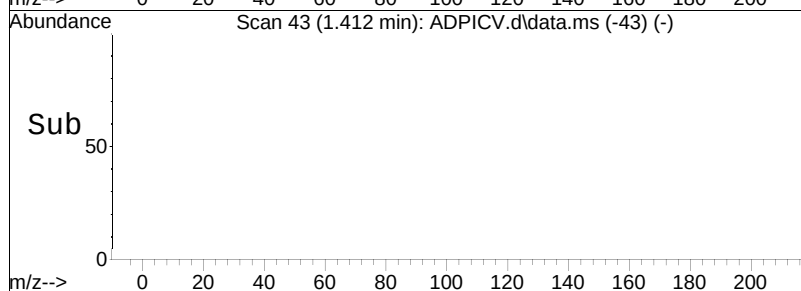
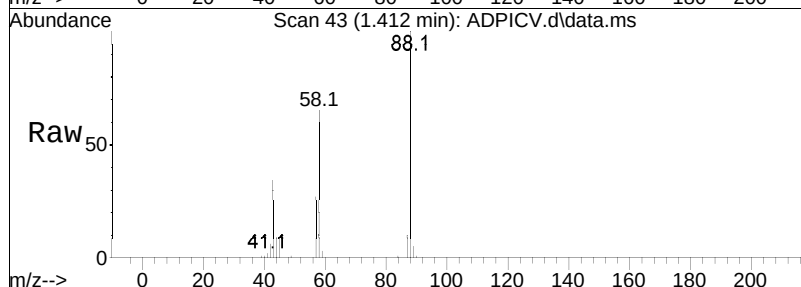
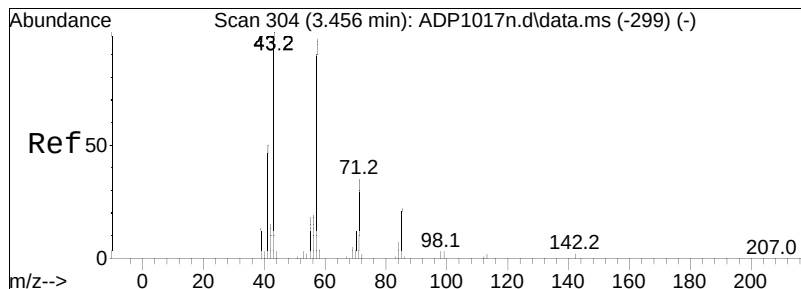
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\190609ical\  
 Data File : ADPICV.d  
 Acq On : 10 Jun 2019 4:48 am  
 Operator : gcms5:ek  
 Sample : CQICV3,32,,ADPICV Lot# 8244  
 Misc : wg1246641,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 10 15:32:08 2019  
 Quant Method : I:\8270\GCMS5\190609ical\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Jun 10 15:31:57 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•





#33

1,4-Dioxane

Concen: 52.13 ug/ml M2

RT: 1.412 min Scan# 43

Delta R.T. -0.000 min

Lab File: ADPICV.d

Acq: 10 Jun 2019 4:48 am

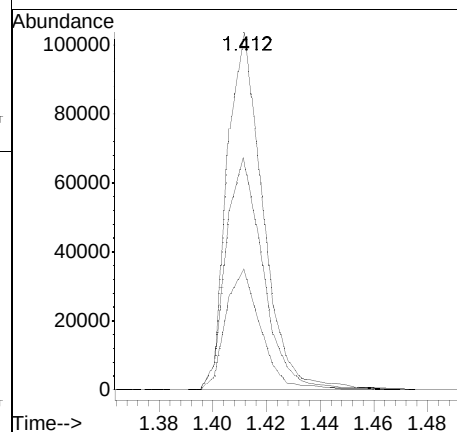
Tgt Ion: 88 Resp: 95451

Ion Ratio Lower Upper

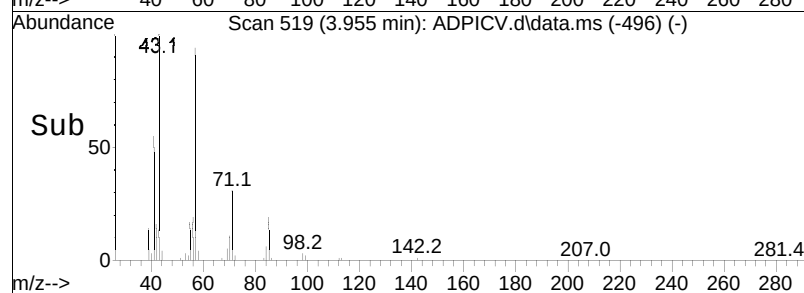
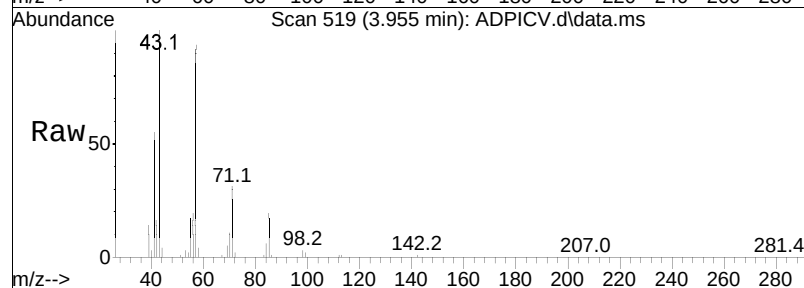
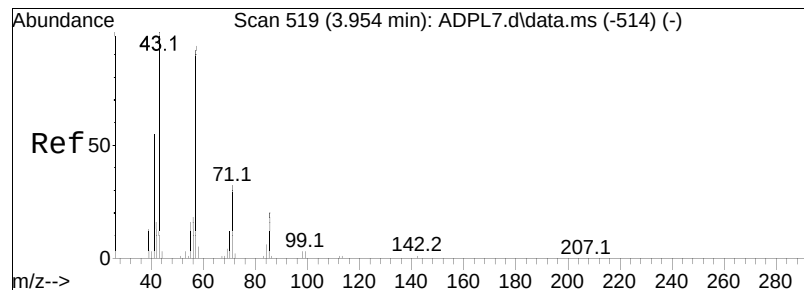
88 100

58 0.0 44.8 67.2#

43 0.0 20.8 31.2#

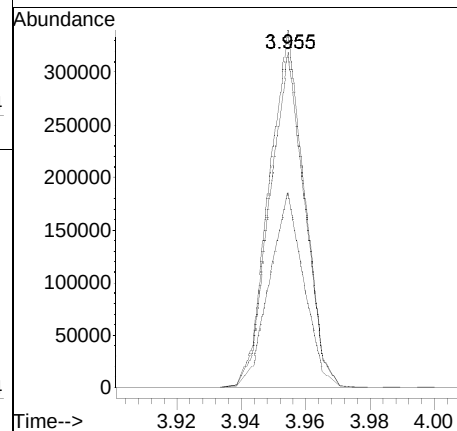


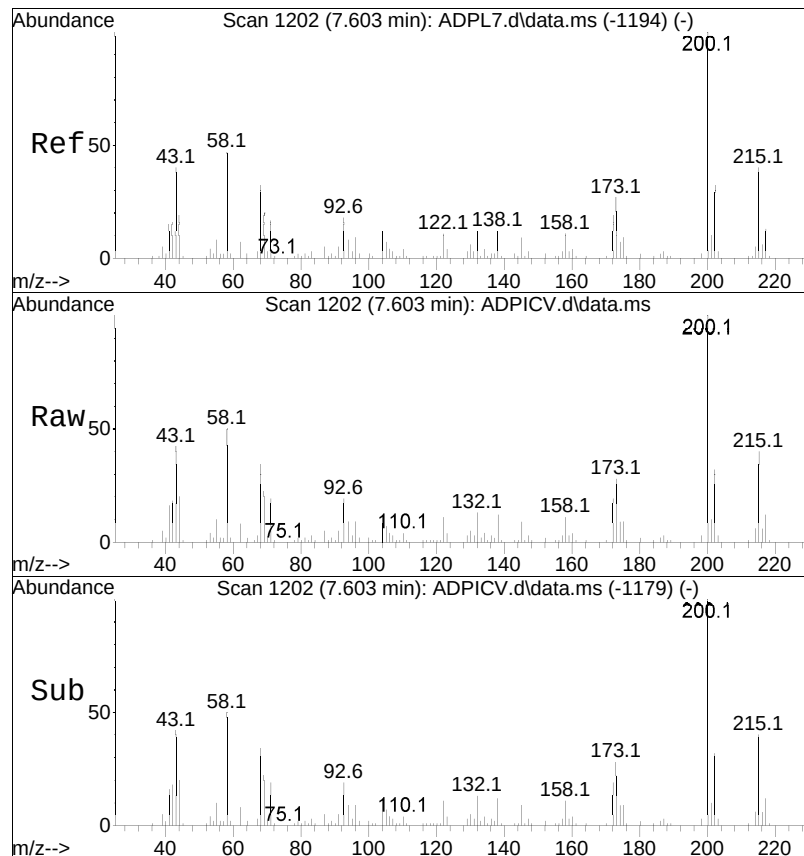




#34  
n-Decane  
Concen: 50.02 ug/ml  
RT: 3.955 min Scan# 519  
Delta R.T. 0.001 min  
Lab File: ADPICV.d  
Acq: 10 Jun 2019 4:48 am

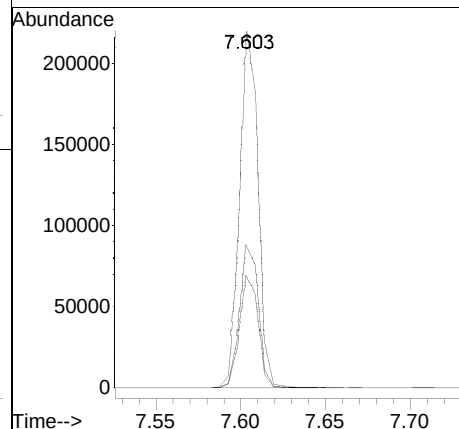
| Tgt | Ion   | Resp   | Lower | Upper |
|-----|-------|--------|-------|-------|
| 57  | 100   | 237999 |       |       |
| 43  | 107.9 | 84.2   | 126.2 |       |
| 41  | 57.6  | 45.8   | 68.8  |       |

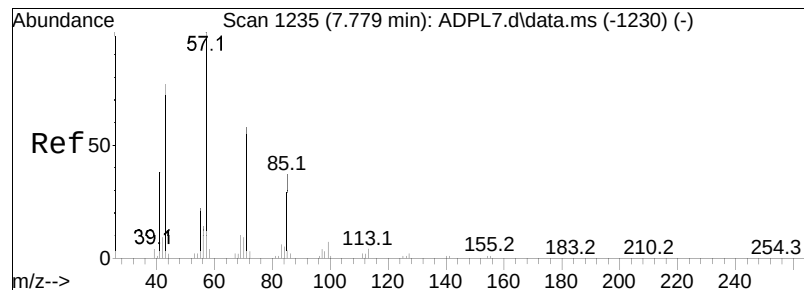




#87  
 Atrazine  
 Concen: 51.89 ug/ml  
 RT: 7.603 min Scan# 1202  
 Delta R.T. 0.000 min  
 Lab File: ADPICV.d  
 Acq: 10 Jun 2019 4:48 am

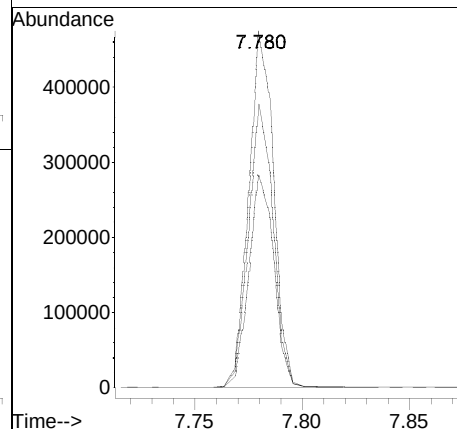
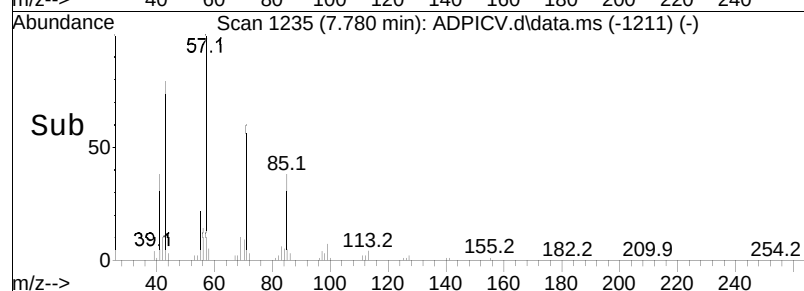
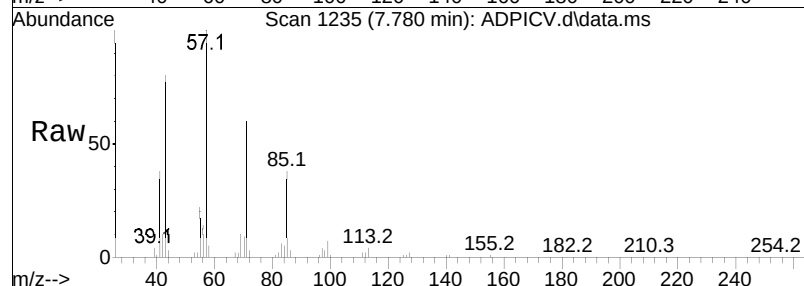
| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 200 | 200 | 100   | 166041 |       |       |
| 202 | 202 | 31.9  |        | 25.8  | 38.8  |
| 215 | 215 | 40.7  |        | 40.3  | 60.5  |

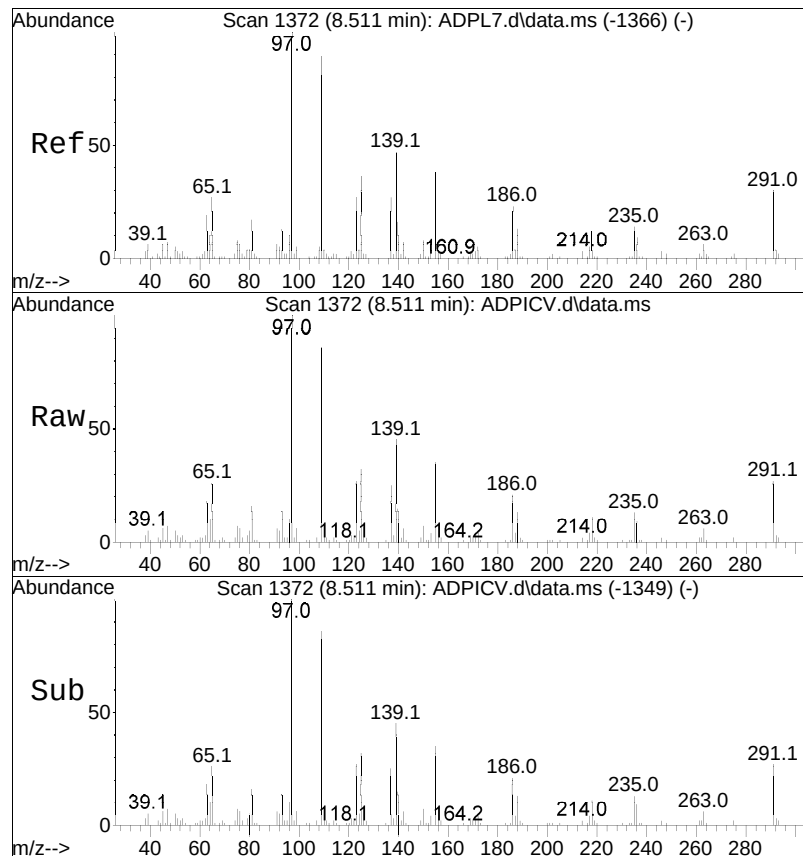




#101  
 n-Octadecane  
 Concen: 54.79 ug/ml  
 RT: 7.780 min Scan# 1235  
 Delta R.T. 0.001 min  
 Lab File: ADPICV.d  
 Acq: 10 Jun 2019 4:48 am

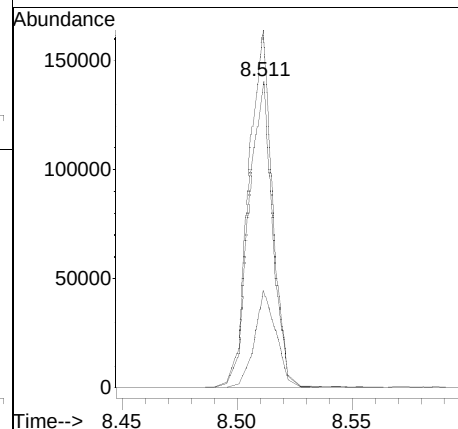
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 57 | Resp: | 380496 |
| Ion | Ratio   | Lower | Upper  |
| 57  | 100     |       |        |
| 43  | 78.8    | 65.0  | 97.4   |
| 71  | 59.8    | 50.5  | 75.7   |

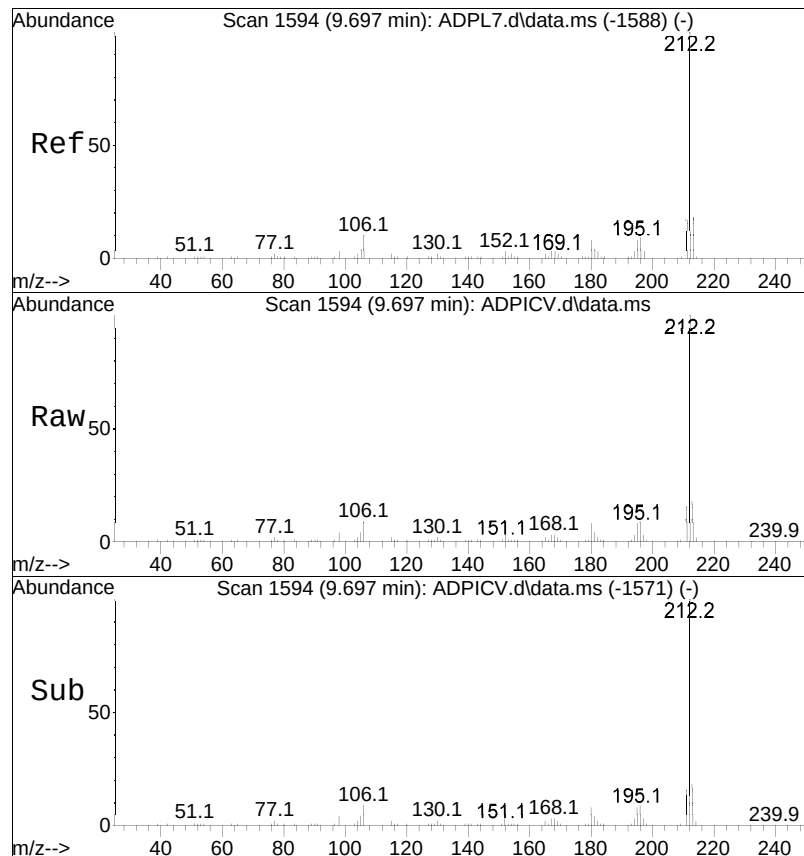




#102  
 Parathion  
 Concen: 45.74 ug/ml  
 RT: 8.511 min Scan# 1372  
 Delta R.T. 0.000 min  
 Lab File: ADPICV.d  
 Acq: 10 Jun 2019 4:48 am

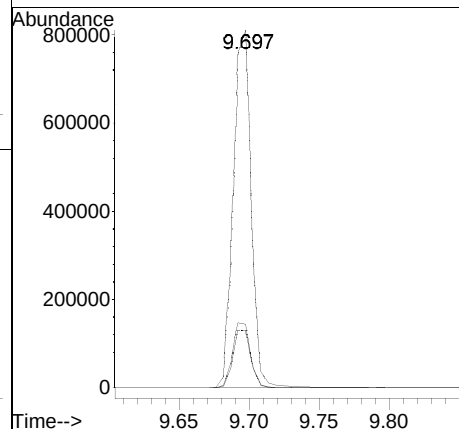
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 109     | 100   |       |       |
| 97      | 116.0 | 88.6  | 133.0 |
| 291     | 29.0  | 36.5  | 54.7# |





#103  
 3,3'-Dimethylbenzidine  
 Concen: 48.70 ug/ml  
 RT: 9.697 min Scan# 1594  
 Delta R.T. 0.000 min  
 Lab File: ADPICV.d  
 Acq: 10 Jun 2019 4:48 am

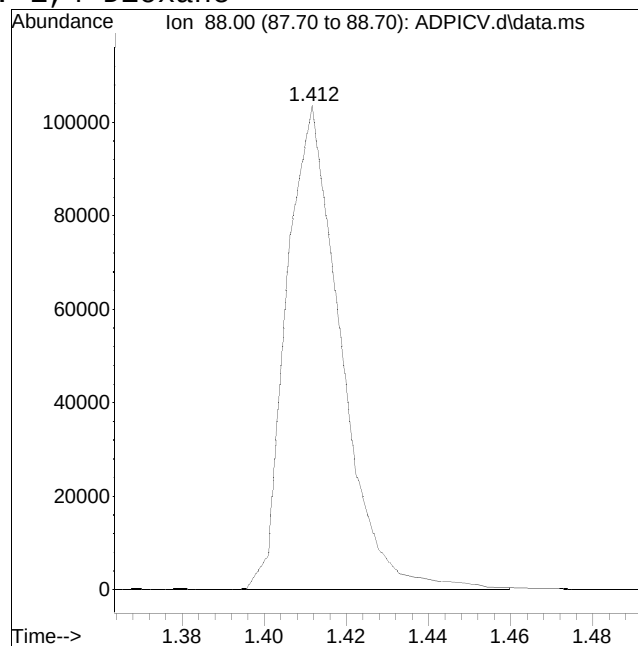
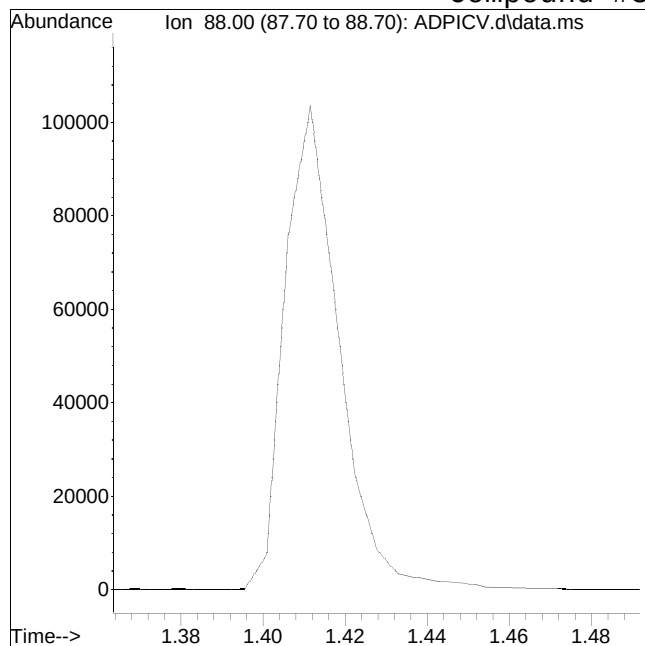
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 212   | Resp: | 706320 |
| Ion Ratio | Lower | Upper |        |
| 212       | 100   |       |        |
| 211       | 16.4  | 13.2  | 19.8   |
| 213       | 18.8  | 13.9  | 20.9   |



# Manual Integration Report

Data Path : I:\8270\GCMS5\190609ical\ QMethod : FS190609gcms5.m  
Data File : ADPICV.d Operator : gcms5:ek  
Date Inj'd : 6/10/2019 4:48 am Instrument : GCMS5  
Sample : CQICV3,32,,ADPICV Lot# 824 Quant Date : 6/10/2019 3:31 pm

## Compound #33: 1,4-Dioxane



Original Peak Response = 0

Manual Peak Response = 95451 M2

M2 = Peak not found by automatic integration algorithm.

## Response Factor Report Buffy

Method Path : I:\8270\Buffy\191006ical\  
 Method File : FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Oct 07 12:50:35 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|-------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1) I IS1_1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 2) t N-Nitrosodimethylamine         | 0.775          | 0.829 | 0.824 | 0.741 | 0.784 | 0.770 | 0.745 | 0.764 | 0.750 | 0.743 | 0.773 | 4.13   |
| 3) t Pyridine                       | 1.281          | 1.469 | 1.409 | 1.241 | 1.278 | 1.270 | 1.263 | 1.320 | 1.303 | 1.297 | 1.313 | 5.43   |
| 4) S 2-Fluorophenol                 | 1.231          | 1.386 | 1.375 | 1.231 | 1.334 | 1.288 | 1.279 | 1.309 | 1.285 | 1.259 | 1.298 | 4.15   |
| 5) T Aniline                        | 2.120          | 2.105 | 2.179 | 1.973 | 2.092 | 2.089 | 2.017 | 2.067 | 2.039 | 1.984 | 2.067 | 3.10   |
| 6) t 2-Chlorophenol                 | 1.324          | 1.499 | 1.507 | 1.348 | 1.448 | 1.444 | 1.410 | 1.465 | 1.447 | 1.407 | 1.430 | 4.14   |
| 7) S Phenol-d6                      | 1.482          | 1.613 | 1.572 | 1.484 | 1.569 | 1.588 | 1.510 | 1.564 | 1.550 | 1.522 | 1.545 | 2.87   |
| 8) T Phenol                         | 1.776          | 1.948 | 1.811 | 1.693 | 1.775 | 1.790 | 1.750 | 1.794 | 1.763 | 1.740 | 1.784 | 3.73   |
| 9) T bis(2-Chloroethyl)ether        | 1.254          | 1.409 | 1.322 | 1.221 | 1.255 | 1.234 | 1.186 | 1.216 | 1.230 | 1.205 | 1.253 | 5.26   |
| 10) T 1,3-Dichlorobenzene           | 1.562          | 1.713 | 1.694 | 1.580 | 1.636 | 1.607 | 1.563 | 1.578 | 1.589 | 1.545 | 1.607 | 3.54   |
| 11) T 1,4-Dichlorobenzene           | 1.650          | 1.799 | 1.760 | 1.657 | 1.663 | 1.645 | 1.591 | 1.634 | 1.619 | 1.581 | 1.660 | 4.16   |
| 12) T 1,2-Dichlorobenzene           | 1.666          | 1.761 | 1.715 | 1.563 | 1.603 | 1.580 | 1.523 | 1.553 | 1.545 | 1.533 | 1.604 | 5.12   |
| 13) t Benzyl alcohol                | 0.997          | 1.097 | 0.992 | 0.959 | 1.022 | 1.041 | 1.001 | 1.040 | 1.051 | 1.054 | 1.026 | 3.85   |
| 14) T bis(2-chloroisopropyl)ether   | 1.788          | 1.862 | 1.777 | 1.654 | 1.689 | 1.687 | 1.663 | 1.686 | 1.687 | 1.656 | 1.715 | 4.07   |
| 15) T 2-Methylphenol                | 1.250          | 1.304 | 1.249 | 1.212 | 1.221 | 1.272 | 1.234 | 1.279 | 1.278 | 1.280 | 1.258 | 2.34   |
| 16) T Hexachloroethane              | 0.691          | 0.645 | 0.686 | 0.615 | 0.629 | 0.601 | 0.602 | 0.607 | 0.610 | 0.613 | 0.630 | 5.32   |
| 17) T n-Nitrosodi-n-propylamine     | 0.877          | 0.922 | 0.905 | 0.832 | 0.855 | 0.892 | 0.873 | 0.899 | 0.904 | 0.899 | 0.886 | 3.05   |
| 18) T 3-Methylphenol/4-Methylphenol | 1.302          | 1.360 | 1.307 | 1.241 | 1.302 | 1.336 | 1.317 | 1.362 | 1.365 | 1.362 | 1.325 | 2.99   |
| 19) S Nitrobenzene-d5               | 1.684          | 1.711 | 1.620 | 1.504 | 1.545 | 1.630 | 1.591 | 1.655 | 1.648 | 1.651 | *L    | 0.9997 |
| 20) T Nitrobenzene                  | 1.332          | 1.395 | 1.365 | 1.211 | 1.317 | 1.317 | 1.309 | 1.323 | 1.354 | 1.363 | 1.329 | 3.71   |
| 21) T Isophorone                    | 2.367          | 2.644 | 2.511 | 2.237 | 2.419 | 2.525 | 2.429 | 2.495 | 2.518 | 2.541 | 2.469 | 4.52   |
| 22) T 2-Nitrophenol                 | 0.564          | 0.650 | 0.576 | 0.614 | 0.656 | 0.698 | 0.720 | 0.763 | 0.779 | 0.785 | 0.680 | 11.98  |
| 23) T 2,4-Dimethylphenol            | 1.207          | 1.404 | 1.297 | 1.254 | 1.304 | 1.319 | 1.279 | 1.359 | 1.367 | 1.385 | 1.317 | 4.70   |
| 24) T bis(2-Chloroethoxy)methane    | 1.575          | 1.772 | 1.718 | 1.555 | 1.671 | 1.666 | 1.639 | 1.652 | 1.683 | 1.690 | 1.662 | 3.81   |
| 25) T 2,4-Dichlorophenol            | 1.085          | 1.146 | 1.179 | 1.084 | 1.203 | 1.218 | 1.219 | 1.254 | 1.279 | 1.275 | 1.194 | 5.94   |
| 26) T 1,2,4-Trichlorobenzene        | 1.368          | 1.403 | 1.344 | 1.243 | 1.280 | 1.276 | 1.251 | 1.288 | 1.310 | 1.341 | 1.310 | 3.99   |
| 27) I IS2_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 28) T Benzaldehyde                  | 1.289          | 1.249 | 1.325 | 1.189 | 1.299 | 1.185 | 1.143 | 1.192 | 1.165 | 1.131 | 1.217 | 5.65   |
| 29) T Acetophenone                  | 2.049          | 1.912 | 2.009 | 1.910 | 2.067 | 1.917 | 1.818 | 1.918 | 1.890 | 1.864 | 1.935 | 4.16   |
| 30) T m-Toluidine                   | 2.084          | 1.931 | 1.964 | 1.968 | 2.116 | 1.977 | 1.896 | 2.023 | 1.985 | 1.937 | 1.988 | 3.45   |
| 31) T 2-Chloroaniline               | 1.911          | 1.777 | 1.858 | 1.862 | 2.045 | 1.844 | 1.757 | 1.882 | 1.831 | 1.804 | 1.857 | 4.36   |
| 32) I IS3_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 33) T 1,4-Dioxane                   | 0.531          | 0.514 | 0.556 | 0.540 | 0.517 | 0.520 | 0.493 | 0.539 | 0.498 | 0.492 | 0.520 | 4.13   |
| 34) T n-Decane                      | 1.361          | 1.540 | 1.318 | 1.369 | 1.346 | 1.293 | 1.260 | 1.310 | 1.271 | 1.218 | 1.328 | 6.62   |
| 35) I IS1_Naphthalene-d8            | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 36) T Naphthalene                   | 1.168          | 1.152 | 1.144 | 1.043 | 1.114 | 1.090 | 1.063 | 1.047 | 1.046 | 1.015 | 1.088 | 4.92   |
| 37) T Benzoic Acid                  |                |       |       |       | 0.165 | 0.210 | 0.238 | 0.262 | 0.273 | 0.262 | *L    | 0.9991 |
| 38) T 4-Chloroaniline               | 0.123          | 0.127 | 0.116 | 0.101 | 0.108 | 0.109 | 0.110 | 0.112 | 0.113 | 0.110 | 0.113 | 6.58   |
| 39) T Hexachlorobutadiene           | 0.185          | 0.203 | 0.176 | 0.172 | 0.172 | 0.172 | 0.165 | 0.162 | 0.172 | 0.169 | 0.175 | 6.59   |
| 40) T p-Chloro-m-cresol             | 0.279          | 0.285 | 0.282 | 0.264 | 0.282 | 0.292 | 0.291 | 0.298 | 0.298 | 0.293 | 0.286 | 3.61   |
| 41) T 2-Methylnaphthalene           | 0.725          | 0.723 | 0.746 | 0.689 | 0.746 | 0.729 | 0.716 | 0.715 | 0.715 | 0.699 | 0.720 | 2.49   |
| 42) T 1-Methylnaphthalene           | 0.229          | 0.228 | 0.229 | 0.206 | 0.212 | 0.207 | 0.207 | 0.208 | 0.207 | 0.208 | 0.214 | 4.73   |
| 43) T Hexachlorocyclopentadiene     |                |       |       | 0.187 | 0.208 | 0.216 | 0.225 | 0.225 | 0.236 | 0.238 | 0.220 | 8.04   |
| 44) T 2,4,6-Trichlorophenol         |                | 0.202 | 0.200 | 0.187 | 0.208 | 0.214 | 0.216 | 0.218 | 0.231 | 0.230 | 0.212 | 6.77   |
| 45) T 2,4,5-Trichlorophenol         | 0.192          | 0.218 | 0.215 | 0.210 | 0.234 | 0.230 | 0.231 | 0.238 | 0.231 | 0.239 | 0.224 | 6.64   |

## Response Factor Report Buffy

Method Path : I:\8270\Buffy\191006ical\  
 Method File : FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Oct 07 12:50:35 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound                         | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 46) S 2-Fluorobiphenyl           | 1.043          | 1.014 | 0.996 | 0.935 | 0.977 | 0.982 | 0.956 | 0.958 | 0.957 | 0.961 | 0.978 | 3.29   |
| 47) T 2-Chloronaphthalene        | 0.698          | 0.715 | 0.701 | 0.634 | 0.689 | 0.690 | 0.681 | 0.682 | 0.678 | 0.687 | 0.686 | 3.09   |
| 48) T 2-Nitroaniline             |                |       | 0.195 | 0.189 | 0.206 | 0.230 | 0.237 | 0.249 | 0.247 | 0.250 | 0.225 | 11.13  |
| 49) T 1,4-Dinitrobenzene         |                |       |       | 0.069 | 0.082 | 0.087 | 0.096 | 0.103 | 0.104 | 0.107 | 0.093 | 14.91  |
| 50) T 1,3-Dinitrobenzene         |                |       |       | 0.082 | 0.104 | 0.105 | 0.112 | 0.121 | 0.120 | 0.123 | 0.110 | 13.32  |
| 51) T Dimethyl phthalate         | 0.766          | 0.854 | 0.811 | 0.738 | 0.824 | 0.816 | 0.823 | 0.820 | 0.801 | 0.813 | 0.807 | 4.04   |
| 52) T Acenaphthylene             | 1.077          | 1.135 | 1.109 | 1.045 | 1.139 | 1.129 | 1.146 | 1.146 | 1.123 | 1.134 | 1.118 | 2.96   |
| 53) T 2,6-Dinitrotoluene         |                | 0.147 | 0.151 | 0.135 | 0.168 | 0.177 | 0.181 | 0.186 | 0.184 | 0.191 | 0.169 | 11.86  |
| 54) T 1,2-Dinitrobenzene         |                |       | 0.054 | 0.054 | 0.065 | 0.067 | 0.071 | 0.075 | 0.073 | 0.075 | 0.067 | 12.80  |
| 55) I IS2_Naphthalene-d8         | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 56) T a-Terpineol                | 0.300          | 0.240 | 0.231 | 0.242 | 0.257 | 0.251 | 0.233 | 0.254 | 0.242 | 0.241 | 0.249 | 7.90   |
| 57) T 3-Chloroaniline            | 0.149          | 0.137 | 0.134 | 0.133 | 0.134 | 0.133 | 0.122 | 0.130 | 0.127 | 0.124 | 0.132 | 5.58   |
| 58) T 2,6-Dichlorophenol         | 0.298          | 0.288 | 0.274 | 0.292 | 0.316 | 0.299 | 0.282 | 0.304 | 0.301 | 0.289 | 0.294 | 4.05   |
| 59) T 1-chloro-2-nitrobenzene    | 0.133          | 0.134 | 0.132 | 0.129 | 0.145 | 0.138 | 0.129 | 0.142 | 0.138 | 0.135 | 0.136 | 3.93   |
| 60) T Caprolactam                |                |       | 0.153 | 0.127 | 0.144 | 0.143 | 0.138 | 0.150 | 0.149 | 0.144 | 0.143 | 5.82   |
| 61) T 1,2,4,5-Tetrachlorobenzene | 0.354          | 0.318 | 0.323 | 0.319 | 0.340 | 0.319 | 0.299 | 0.320 | 0.311 | 0.309 | 0.321 | 4.86   |
| 62) T Biphenyl                   | 0.929          | 0.870 | 0.892 | 0.894 | 0.929 | 0.885 | 0.813 | 0.867 | 0.838 | 0.816 | 0.873 | 4.74   |
| 63) I IS1_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 64) T 3-Nitroaniline             |                | 0.330 | 0.339 | 0.325 | 0.367 | 0.377 | 0.378 | 0.391 | 0.390 | 0.390 | 0.365 | 7.29   |
| 65) T Acenaphthene               | 1.277          | 1.342 | 1.270 | 1.168 | 1.269 | 1.199 | 1.154 | 1.196 | 1.177 | 1.152 | 1.220 | 5.29   |
| 66) T 2,4-Dinitrophenol          |                |       |       | 0.080 | 0.124 | 0.141 | 0.162 | 0.185 | 0.184 | 0.187 | *L    | 0.9988 |
| 67) T Dibenzofuran               |                | 1.999 | 1.925 | 1.727 | 1.857 | 1.856 | 1.768 | 1.799 | 1.784 | 1.771 | 1.832 | 4.72   |
| 68) T 2,4-Dinitrotoluene         |                | 0.320 | 0.354 | 0.335 | 0.403 | 0.416 | 0.425 | 0.449 | 0.452 | 0.454 | 0.401 | 12.99  |
| 69) T 4-Nitrophenol              |                |       |       | 0.212 | 0.240 | 0.236 | 0.244 | 0.259 | 0.253 | 0.253 | 0.243 | 6.43   |
| 70) T 2,3,5,6-Tetrachlorophenol  |                |       | 0.339 | 0.314 | 0.337 | 0.350 | 0.355 | 0.372 | 0.372 | 0.368 | 0.351 | 5.80   |
| 71) T 2,3,4,6-Tetrachlorophenol  |                |       | 0.339 | 0.324 | 0.363 | 0.361 | 0.355 | 0.369 | 0.372 | 0.371 | 0.357 | 4.79   |
| 72) T Diethyl phthalate          | 1.597          | 1.563 | 1.574 | 1.427 | 1.532 | 1.564 | 1.509 | 1.530 | 1.505 | 1.501 | 1.530 | 3.17   |
| 73) T Fluorene                   | 1.550          | 1.451 | 1.491 | 1.434 | 1.475 | 1.484 | 1.440 | 1.469 | 1.468 | 1.454 | 1.471 | 2.25   |
| 74) T 4-Chlorophenyl-phenylether | 0.684          | 0.751 | 0.700 | 0.619 | 0.679 | 0.665 | 0.656 | 0.659 | 0.662 | 0.652 | 0.673 | 5.20   |
| 75) T 4-Nitroaniline             |                | 0.343 | 0.381 | 0.367 | 0.417 | 0.436 | 0.436 | 0.460 | 0.446 | 0.450 | 0.415 | 10.00  |
| 76) T 4,6-Dinitro-o-cresol       |                |       |       | 0.146 | 0.186 | 0.211 | 0.236 | 0.257 | 0.256 | 0.264 | *L    | 0.9992 |
| 77) T NDPA/DPA                   | 1.306          | 1.331 | 1.292 | 1.202 | 1.322 | 1.274 | 1.238 | 1.261 | 1.253 | 1.237 | 1.272 | 3.26   |
| 78) T Azobenzene                 | 1.377          | 1.394 | 1.426 | 1.286 | 1.393 | 1.375 | 1.342 | 1.359 | 1.344 | 1.334 | 1.363 | 2.87   |
| 79) S 2,4,6-Tribromophenol       | 0.226          | 0.213 | 0.227 | 0.203 | 0.234 | 0.238 | 0.242 | 0.250 | 0.251 | 0.252 | 0.234 | 7.11   |
| 80) T 4-Bromophenyl-phenylether  | 0.394          | 0.414 | 0.411 | 0.382 | 0.432 | 0.415 | 0.409 | 0.408 | 0.407 | 0.416 | 0.409 | 3.23   |
| 81) T Hexachlorobenzene          | 0.531          | 0.535 | 0.509 | 0.456 | 0.503 | 0.475 | 0.475 | 0.470 | 0.474 | 0.484 | 0.491 | 5.46   |
| 82) T Pentachlorophenol          |                |       | 0.234 | 0.235 | 0.288 | 0.292 | 0.314 | 0.328 | 0.317 | 0.329 | 0.292 | 13.17  |
| 83) I IS2_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 84) T Dichloran                  |                |       |       | 0.129 | 0.158 | 0.161 | 0.166 | 0.194 | 0.193 | 0.184 | 0.169 | 13.57  |
| 85) T Pentachloronitrobenzene    |                |       | 0.145 | 0.143 | 0.156 | 0.153 | 0.158 | 0.171 | 0.167 | 0.163 | 0.157 | 6.39   |
| 86) I IS3_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 87) T Atrazine                   |                | 0.354 | 0.303 | 0.355 | 0.376 | 0.364 | 0.363 | 0.377 | 0.382 | 0.363 | 0.360 | 6.51   |
| 88) I IS1_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 89) T Phenanthrene               | 1.266          | 1.230 | 1.245 | 1.148 | 1.169 | 1.159 | 1.115 | 1.130 | 1.130 | 1.102 | 1.169 | 4.94   |
| 90) T Anthracene                 | 1.203          | 1.211 | 1.189 | 1.121 | 1.178 | 1.189 | 1.148 | 1.151 | 1.178 | 1.147 | 1.171 | 2.46   |



## Response Factor Report Buffy

Method Path : I:\8270\Buffy\191006ical\  
 Method File : FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Oct 07 12:50:35 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D  
 100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

| Compound |                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|----------|----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 91) T    | Carbazole                  | 1.126          | 1.151 | 1.128 | 1.076 | 1.132 | 1.132 | 1.098 | 1.121 | 1.108 | 1.092 | 1.117 | 2.02  |
| 92) T    | Di-n-butylphthalate        | 1.264          | 1.331 | 1.301 | 1.237 | 1.399 | 1.413 | 1.404 | 1.419 | 1.423 | 1.386 | 1.358 | 5.10  |
| 93) T    | Fluoranthene               | 1.276          | 1.355 | 1.335 | 1.247 | 1.285 | 1.299 | 1.270 | 1.304 | 1.288 | 1.277 | 1.294 | 2.46  |
| 94) T    | Benzidine                  |                |       | 0.807 | 0.823 | 0.866 | 0.887 | 0.904 | 0.972 | 0.937 | 0.961 | 0.895 | 6.81  |
| 95) T    | Pyrene                     | 1.392          | 1.427 | 1.388 | 1.341 | 1.400 | 1.367 | 1.332 | 1.363 | 1.335 | 1.339 | 1.368 | 2.37  |
| 96) S    | 4-Terphenyl-d14            | 1.113          | 1.182 | 1.095 | 1.073 | 1.141 | 1.113 | 1.096 | 1.119 | 1.095 | 1.113 | 1.114 | 2.69  |
| 97) T    | Butyl benzyl phthalate     |                |       | 0.522 | 0.527 | 0.619 | 0.624 | 0.652 | 0.679 | 0.674 | 0.682 | 0.622 | 10.43 |
| 98) I    | IS2_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 99) T    | Diphenamid                 |                |       | 0.508 | 0.543 | 0.594 | 0.571 | 0.537 | 0.583 | 0.559 | 0.530 | 0.553 | 5.21  |
| 100) I   | IS3_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 101) T   | n-Octadecane               | 0.413          | 0.453 | 0.415 | 0.427 | 0.457 | 0.440 | 0.442 | 0.438 | 0.452 | 0.404 | 0.434 | 4.27  |
| 102) T   | Parathion                  |                |       |       | 0.095 | 0.107 | 0.113 | 0.130 | 0.141 | 0.151 | 0.144 | 0.126 | 16.81 |
| 103) T   | 3,3'-Dimethylbenzidine     |                |       |       | 0.650 | 0.756 | 0.759 | 0.804 | 0.837 | 0.835 | 0.842 | 0.783 | 8.82  |
| 104) I   | IS1_Chrysene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 105) T   | Benzo[a]anthracene         | 1.410          | 1.336 | 1.326 | 1.227 | 1.321 | 1.328 | 1.293 | 1.323 | 1.332 | 1.298 | 1.319 | 3.43  |
| 106) T   | 3,3'-Dichlorobenzidine     |                | 0.482 | 0.479 | 0.451 | 0.511 | 0.523 | 0.532 | 0.556 | 0.566 | 0.561 | 0.518 | 7.84  |
| 107) T   | Chrysene                   | 1.475          | 1.393 | 1.380 | 1.269 | 1.342 | 1.300 | 1.264 | 1.249 | 1.244 | 1.211 | 1.313 | 6.31  |
| 108) T   | bis(2-Ethylhexyl)phthalate |                | 0.818 | 0.840 | 0.800 | 0.955 | 1.015 | 1.044 | 1.010 | 1.056 | 1.005 | 0.949 | 10.73 |
| 109) T   | Di-n-octylphthalate        |                |       |       | 1.238 | 1.556 | 1.692 | 1.797 | 1.799 | 1.851 | 1.799 | 1.676 | 12.93 |
| 110) T   | Benzo(b)fluoranthene       | 1.393          | 1.426 | 1.357 | 1.303 | 1.405 | 1.383 | 1.382 | 1.396 | 1.359 | 1.409 | 1.381 | 2.52  |
| 111) T   | Benzo(k)fluoranthene       | 1.365          | 1.372 | 1.330 | 1.317 | 1.414 | 1.401 | 1.357 | 1.419 | 1.367 | 1.357 | 1.370 | 2.44  |
| 112) T   | Benzo(a)pyrene             | 1.259          | 1.347 | 1.282 | 1.267 | 1.336 | 1.344 | 1.359 | 1.406 | 1.356 | 1.372 | 1.333 | 3.60  |
| 113) I   | IS1_Perylene-d12           | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 114) T   | Indeno(1,2,3-cd)pyrene     |                | 1.027 | 1.024 | 0.974 | 1.075 | 1.091 | 1.126 | 1.192 | 1.220 | 1.232 | 1.107 | 8.32  |
| 115) T   | Dibenzo[a,h]anthracene     | 1.038          | 1.083 | 1.050 | 1.047 | 1.097 | 1.116 | 1.122 | 1.172 | 1.175 | 1.200 | 1.110 | 5.22  |
| 116) T   | Benzo(g,h,i)perylene       | 1.086          | 1.130 | 1.129 | 1.077 | 1.164 | 1.169 | 1.169 | 1.232 | 1.212 | 1.224 | 1.159 | 4.66  |

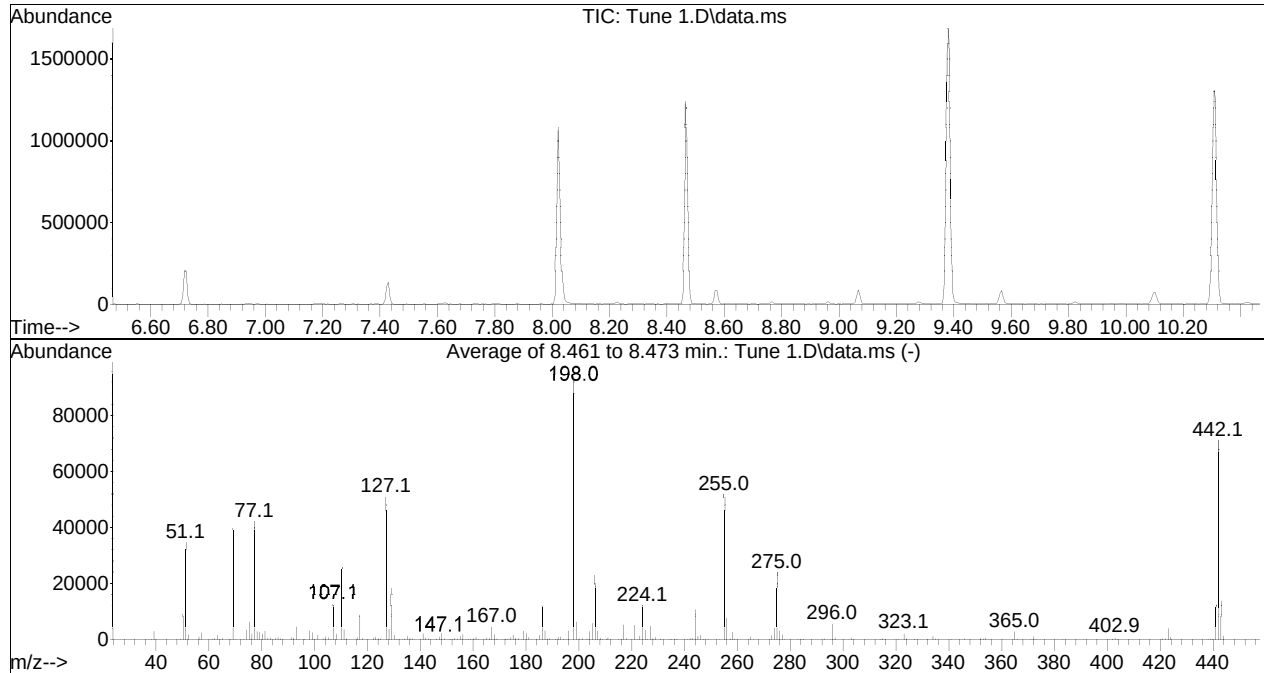
(#) = Out of Range

# DFTPP

Data Path : I:\8270\Buffy\191006ical\  
 Data File : Tune 1.D  
 Acq On : 6 Oct 2019 5:36 pm  
 Operator : Buffy:ek  
 Sample : Tune 1  
 Misc : wg1293206,,  
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Oct 07 12:50:35 2019

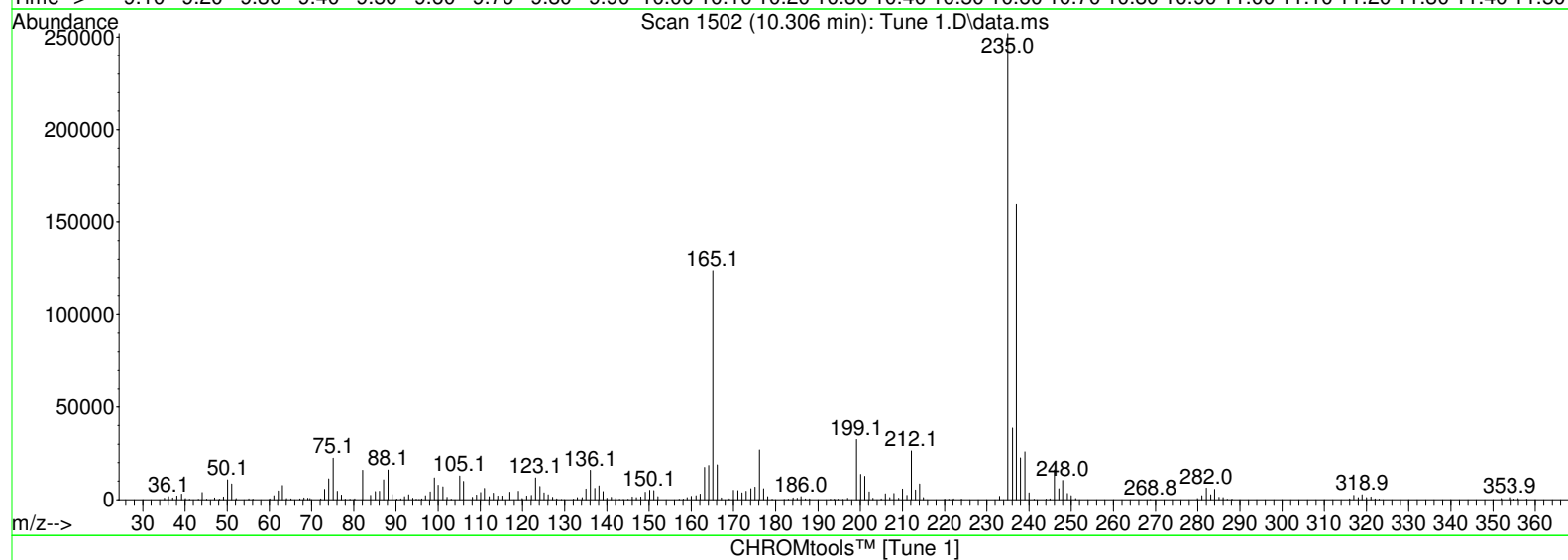
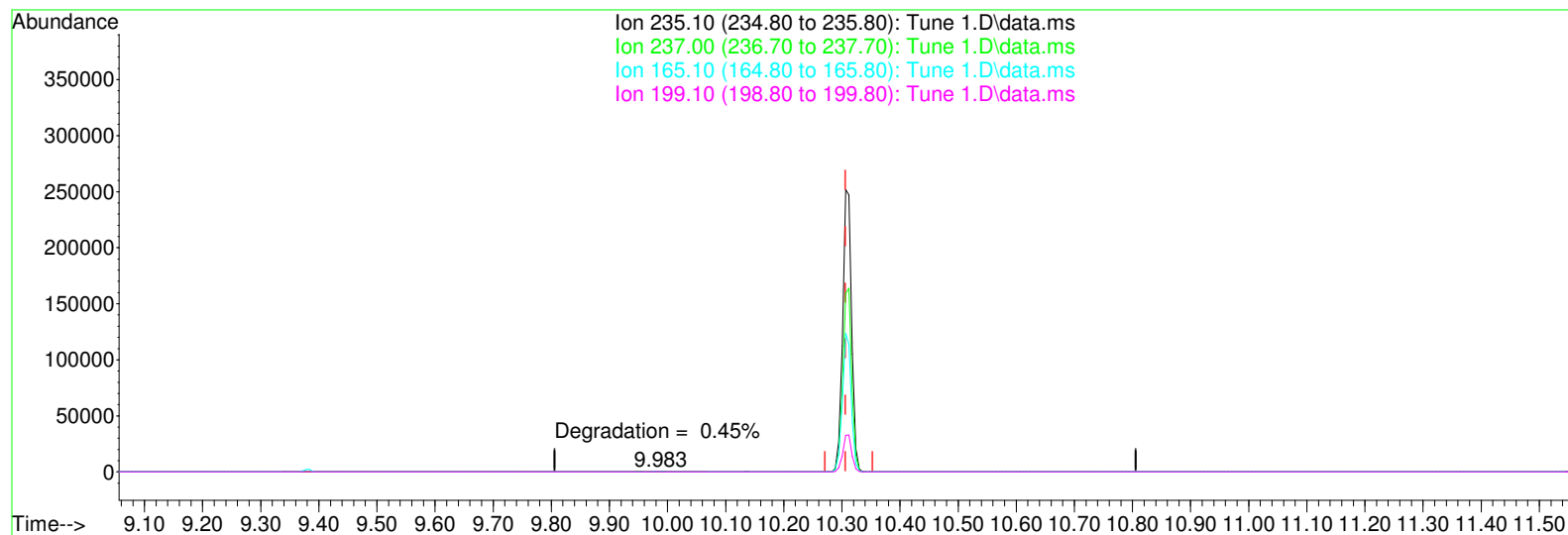


Spectrum Information: Average of 8.461 to 8.473 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 36.7      | 34633   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.5       | 210     | PASS             |
| 70          | 69           | 0.00         | 2            | 0.7       | 262     | PASS             |
| 127         | 198          | 10           | 80           | 54.0      | 50909   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 94299   | PASS             |
| 199         | 198          | 5            | 9            | 6.5       | 6130    | PASS             |
| 275         | 198          | 10           | 60           | 25.2      | 23720   | PASS             |
| 365         | 198          | 1            | 100          | 3.0       | 2804    | PASS             |
| 441         | 442          | 0.01         | 24           | 17.4      | 12392   | PASS             |
| 442         | 198          | 50           | 100          | 75.4      | 71091   | PASS             |
| 443         | 442          | 15           | 24           | 19.2      | 13681   | PASS             |

Data Path : I:\8270\Buffy\191006ical\  
Data File : Tune 1.D  
Acq On : 6 Oct 2019 5:36 pm  
Operator : Buffy:  
Sample : Tune 1  
Misc : Buffy 191006ical  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 07 09:08:32 2019  
Quant Method : I:\8270\Buffy\191006ical\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:08:27 2019  
Response via : Initial Calibration



(6) ddt (T)

10.306min (+ 0.000) 44.62

response 271964

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |

|        |       |       |
|--------|-------|-------|
| 237.00 | 62.60 | 65.06 |
|--------|-------|-------|

|        |       |       |
|--------|-------|-------|
| 165.10 | 46.90 | 48.04 |
|--------|-------|-------|

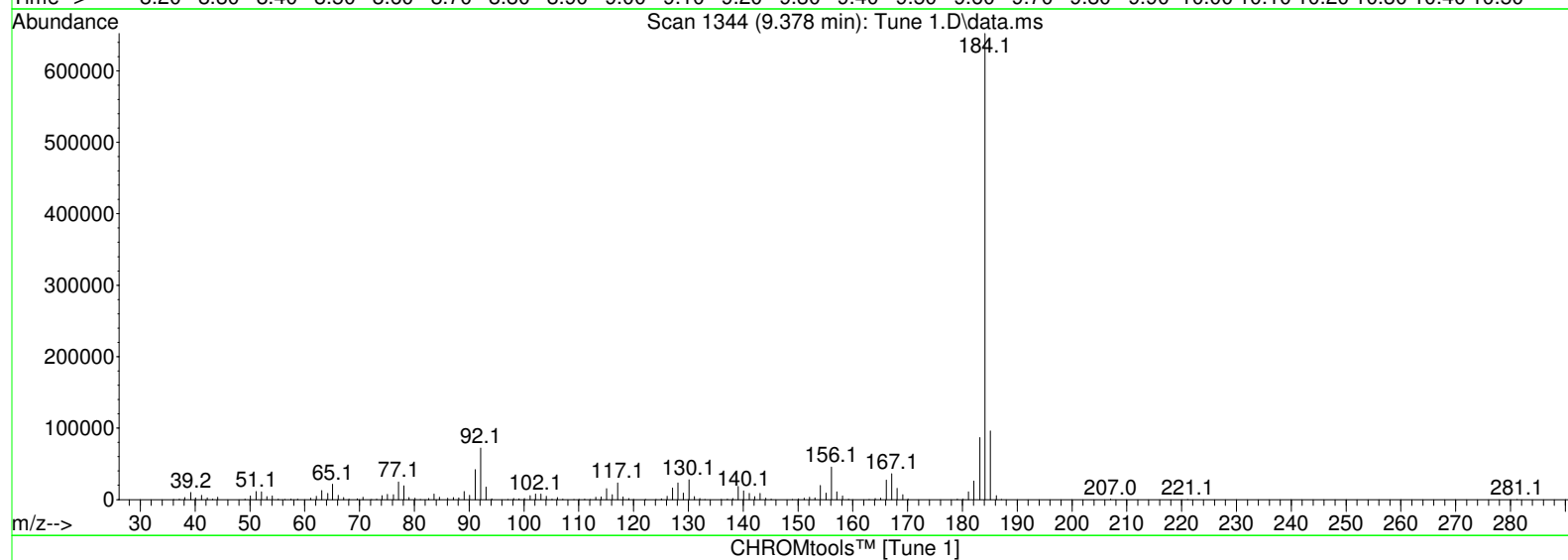
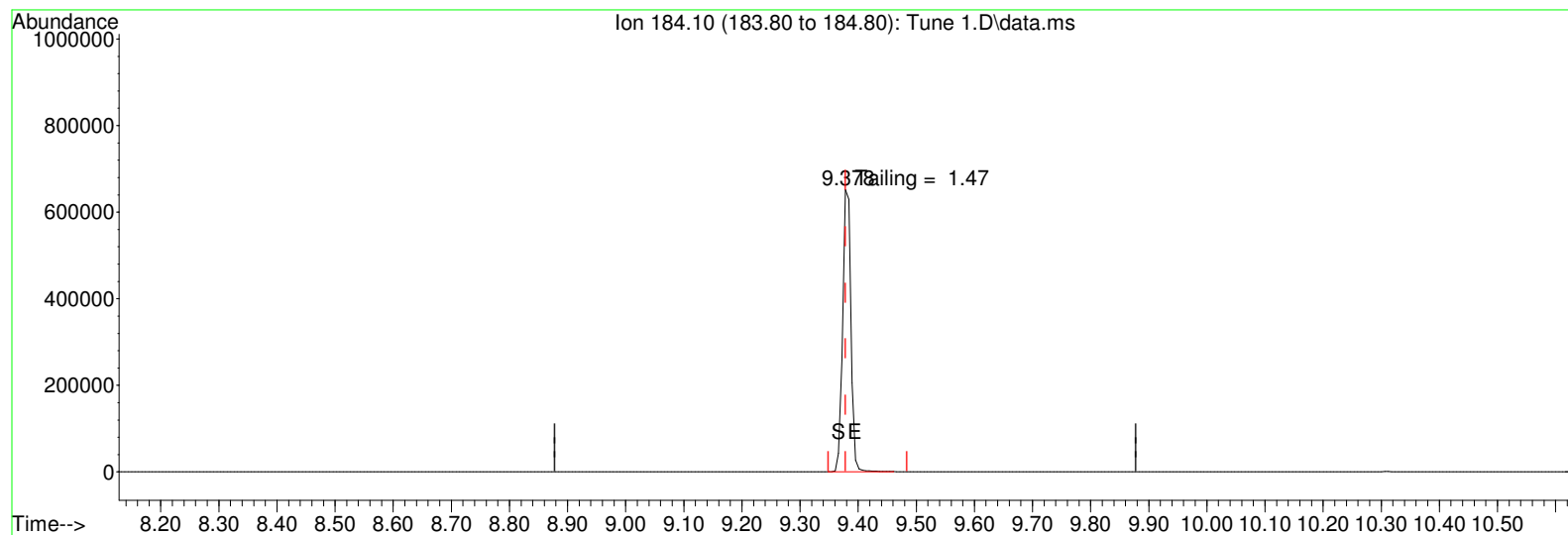
Duplicate Retention Times

(4) DDE 246.00

(5) DDD 235.00

Data Path : I:\8270\Buffy\191006ical\  
Data File : Tune 1.D  
Acq On : 6 Oct 2019 5:36 pm  
Operator : Buffy:  
Sample : Tune 1  
Misc : Buffy 191006ical  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 07 09:08:32 2019  
Quant Method : I:\8270\Buffy\191006ical\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:08:27 2019  
Response via : Initial Calibration



(3) benzidine (T)

9.378min (-0.000) 63.89

response 650439

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |

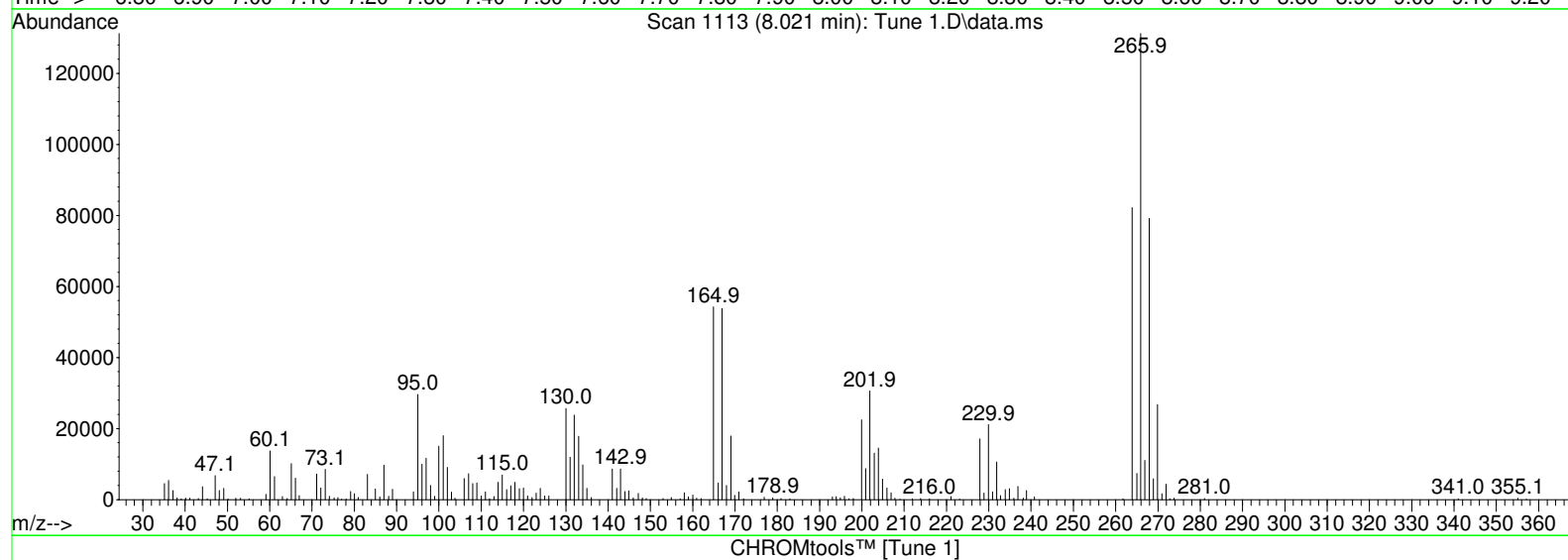
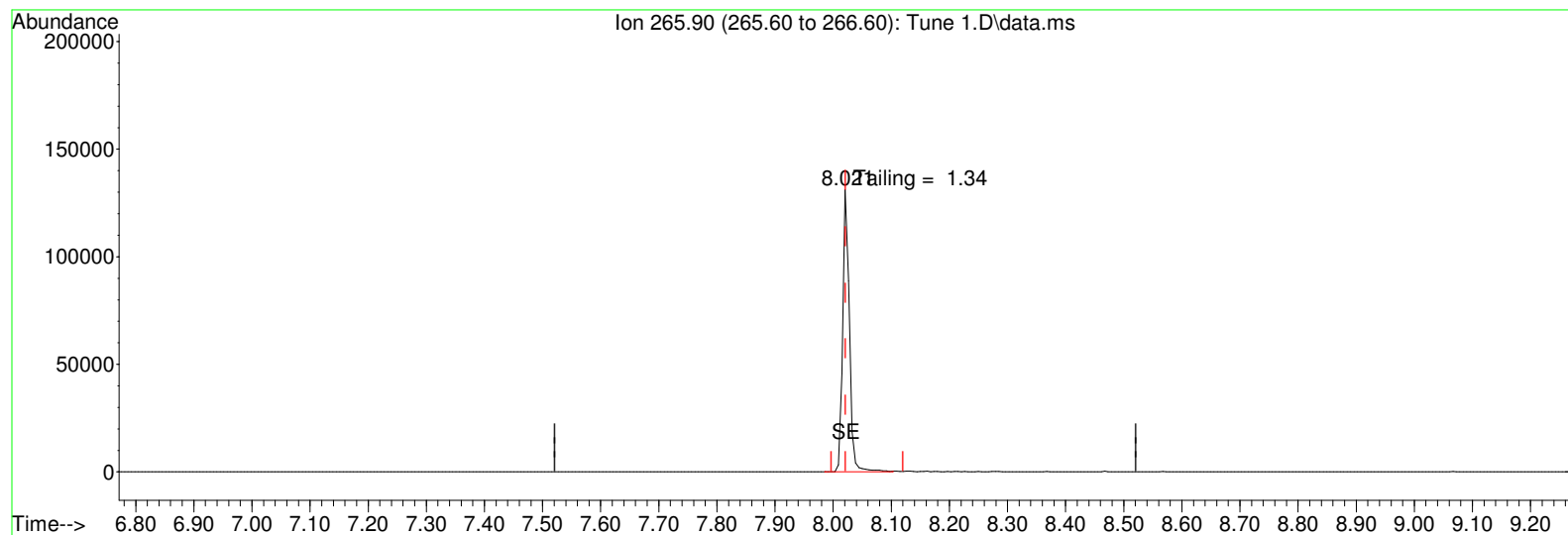
0.00 0.00 0.00

0.00 0.00 0.00

0.00 0.00 0.00

Data Path : I:\8270\Buffy\191006ical\  
Data File : Tune 1.D  
Acq On : 6 Oct 2019 5:36 pm  
Operator : Buffy:  
Sample : Tune 1  
Misc : Buffy 191006ical  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 07 09:08:32 2019  
Quant Method : I:\8270\Buffy\191006ical\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:08:27 2019  
Response via : Initial Calibration



(1) pentachlorophenol (T)

8.021min (-0.000) 50.80

response 106696

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL10.D  
 Acq On : 6 Oct 2019 6:00 pm  
 Operator : Buffy:ek  
 Sample : IL1,32,,ABNL200 Lot#8366  
 Misc : wg1293206,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:32:06 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.319          | 152  | 102459   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 129403      |                |      | Recovery | =       | 79.18%   |          |
| 35) IS1_Naphthalene-d8        | 5.394          | 136  | 442941   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =       | 84.11%   |          |
| 63) IS1_Acenaphthene-d10      | 6.904          | 164  | 255484   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =       | 85.03%   |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 494298   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =       | 85.01%   |          |
| 104) IS1_Chrysene-d12         | 10.905         | 240  | 514599   | 40.000  | ug/ml    | 0.01     |
| Standard Area 1 = 574226      |                |      | Recovery | =       | 89.62%   |          |
| 113) IS1_Perylene-d12         | 13.115         | 264  | 595432   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =       | 86.30%   |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 644970   | 196.887 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 393.77%# |          |
| 7) Phenol-d6                  | 4.025          | 99   | 779850   | 201.666 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 403.33%# |          |
| 19) Nitrobenzene-d5           | 4.783          | 82   | 845927   | 207.573 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 830.29%# |          |
| 46) 2-Fluorobiphenyl          | 6.328          | 172  | 2129132  | 201.030 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 804.12%# |          |
| 79) 2,4,6-Tribromophenol      | 7.586          | 330  | 322328   | 208.396 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 416.79%# |          |
| 96) 4-Terphenyl-d14           | 9.642          | 244  | 2750315  | 203.008 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 812.03%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.180          | 74   | 380592   | 199.359 | ug/ml    | 99       |
| 3) Pyridine                   | 2.204          | 79   | 664606   | 205.451 | ug/ml#   | 79       |
| 5) Aniline                    | 4.043          | 93   | 1016563  | 196.799 | ug/ml    | 97       |
| 6) 2-Chlorophenol             | 4.143          | 128  | 720862   | 199.587 | ug/ml    | 98       |
| 8) Phenol                     | 4.037          | 94   | 891645   | 198.866 | ug/ml    | 98       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 617366   | 203.137 | ug/ml    | 91       |
| 10) 1,3-Dichlorobenzene       | 4.272          | 146  | 791637   | 197.702 | ug/ml    | 95       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 809721   | 198.642 | ug/ml    | 95       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 785393   | 201.286 | ug/ml    | 95       |
| 13) Benzyl alcohol            | 4.436          | 79   | 540149   | 210.578 | ug/ml    | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.560          | 45   | 848270   | 199.177 | ug/ml    | 91       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL10.D  
 Acq On : 6 Oct 2019 6:00 pm  
 Operator : Buffy:ek  
 Sample : IL1,32,,ABNL200 Lot#8366  
 Misc : wg1293206,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:32:06 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|---------|--------|----------|
| 15) | 2-Methylphenol            | 4.536 | 108  | 655755   | 207.386 | ug/ml  | 99       |
| 16) | Hexachloroethane          | 4.742 | 117  | 314181   | 203.643 | ug/ml# | 61       |
| 17) | n-Nitrosodi-n-propylamine | 4.672 | 70   | 460393   | 205.808 | ug/ml  | 99       |
| 18) | 3-Methylphenol/4-Methy... | 4.672 | 108  | 697549   | 206.830 | ug/ml  | 99       |
| 20) | Nitrobenzene              | 4.801 | 77   | 698101   | 208.225 | ug/ml  | 94       |
| 21) | Isophorone                | 5.006 | 82   | 1301821  | 209.267 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.071 | 139  | 402217   | 218.224 | ug/ml  | 89       |
| 23) | 2,4-Dimethylphenol        | 5.124 | 107  | 709771   | 216.695 | ug/ml  | 95       |
| 24) | Bis(2-chloroethoxy)met... | 5.200 | 93   | 865922   | 206.233 | ug/ml# | 97       |
| 25) | 2,4-Dichlorophenol        | 5.277 | 162  | 653154   | 209.178 | ug/ml# | 93       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 687233   | 214.453 | ug/ml  | 99       |
| 36) | Naphthalene               | 5.412 | 128  | 2246882  | 190.852 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 5.247 | 105  | 580039   | 220.429 | ug/ml  | 94       |
| 38) | 4-Chloroaniline           | 5.465 | 65   | 244054   | 201.208 | ug/ml  | 81       |
| 39) | Hexachlorobutadiene       | 5.535 | 225  | 374252   | 204.296 | ug/ml  | 100      |
| 40) | p-Chloro-m-cresol         | 5.888 | 107  | 649144   | 201.390 | ug/ml  | 89       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 1549034  | 195.245 | ug/ml  | 94       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 460660   | 200.800 | ug/ml# | 63       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 527219   | 211.420 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 6.258 | 196  | 510420   | 213.183 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.281 | 196  | 529132   | 206.643 | ug/ml  | 98       |
| 47) | 2-Chloronaphthalene       | 6.422 | 162  | 1521909  | 201.836 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.516 | 138  | 553265   | 210.953 | ug/ml  | 86       |
| 49) | 1,4-Dinitrobenzene        | 6.634 | 168  | 236211   | 221.054 | ug/ml  | 77       |
| 50) | 1,3-Dinitrobenzene        | 6.699 | 168  | 271802   | 218.346 | ug/ml# | 74       |
| 51) | Dimethyl phthalate        | 6.693 | 163  | 1800263  | 197.501 | ug/ml# | 99       |
| 52) | Acenaphthylene            | 6.781 | 152  | 2510786  | 197.833 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.734 | 165  | 422293   | 210.438 | ug/ml# | 76       |
| 54) | 1,2-Dinitrobenzene        | 6.781 | 168  | 165892   | 212.010 | ug/ml  | 85       |
| 64) | 3-Nitroaniline            | 6.875 | 138  | 497872   | 206.161 | ug/ml  | 82       |
| 65) | Acenaphthene              | 6.934 | 154  | 1471068  | 199.543 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.963 | 184  | 238473   | 230.494 | ug/ml# | 84       |
| 67) | Dibenzofuran              | 7.080 | 168  | 2262250  | 200.389 | ug/ml  | 90       |
| 68) | 2,4-Dinitrotoluene        | 7.080 | 165  | 580322   | 213.996 | ug/ml# | 74       |
| 69) | 4-Nitrophenol             | 7.028 | 65   | 322940   | 206.868 | ug/ml  | 87       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.157 | 232  | 469476   | 207.265 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.192 | 232  | 474509   | 209.456 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.304 | 149  | 1917754  | 199.023 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.380 | 166  | 1856879  | 201.924 | ug/ml  | 96       |
| 74) | 4-Chlorophenyl phenyl ... | 7.386 | 204  | 832537   | 198.554 | ug/ml  | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL10.D  
 Acq On : 6 Oct 2019 6:00 pm  
 Operator : Buffy:ek  
 Sample : IL1,32,,ABNL200 Lot#8366  
 Misc : wg1293206,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:32:06 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.410  | 138  | 574813    | 206.605 | ug/ml# | 89       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.433  | 198  | 337724    | 224.126 | ug/ml# | 87       |
| 77)  | NDPA/DPA                  | 7.492  | 169  | 1580211   | 199.883 | ug/ml  | 99       |
| 78)  | Azobenzene                | 7.521  | 77   | 1704532   | 198.788 | ug/ml# | 89       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 531138    | 203.380 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 7.856  | 284  | 618118    | 203.718 | ug/ml# | 87       |
| 82)  | Pentachlorophenol         | 8.026  | 266  | 420265    | 209.615 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.203  | 178  | 2722668   | 197.557 | ug/ml  | 99       |
| 90)  | Anthracene                | 8.250  | 178  | 2833642   | 199.760 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.391  | 167  | 2699340   | 199.022 | ug/ml  | 100      |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 3424463   | 197.313 | ug/ml# | 98       |
| 93)  | Fluoranthene              | 9.249  | 202  | 3156552   | 201.188 | ug/ml# | 92       |
| 94)  | Benzidine                 | 9.390  | 184  | 2374573   | 212.575 | ug/ml# | 94       |
| 95)  | Pyrene                    | 9.466  | 202  | 3308981   | 201.027 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.218 | 149  | 1684664   | 208.964 | ug/ml# | 81       |
| 105) | Benzo(a)anthracene        | 10.894 | 228  | 3339446   | 200.709 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 10.888 | 252  | 1444176   | 210.879 | ug/ml# | 96       |
| 107) | Chrysene                  | 10.947 | 228  | 3116224   | 191.618 | ug/ml  | 100      |
| 108) | Bis(2-ethylhexyl)phtha... | 11.035 | 149  | 2586006   | 192.501 | ug/ml# | 96       |
| 109) | Di-n-octylphthalate       | 12.057 | 149  | 4629789   | 200.265 | ug/ml  | 95       |
| 110) | Benzo(b)fluoranthene      | 12.521 | 252  | 3626115   | 203.947 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.568 | 252  | 3492347   | 199.993 | ug/ml  | 97       |
| 112) | Benzo(a)pyrene            | 13.038 | 252  | 3530577   | 201.916 | ug/ml  | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.854 | 276  | 3666932   | 218.861 | ug/mL  | 97       |
| 115) | Dibenzo(a,h)anthracene    | 14.913 | 278  | 3573744M6 | 213.975 | ug/ml  |          |
| 116) | Benzo(ghi)perylene        | 15.271 | 276  | 3643280   | 209.333 | ug/ml# | 82       |

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

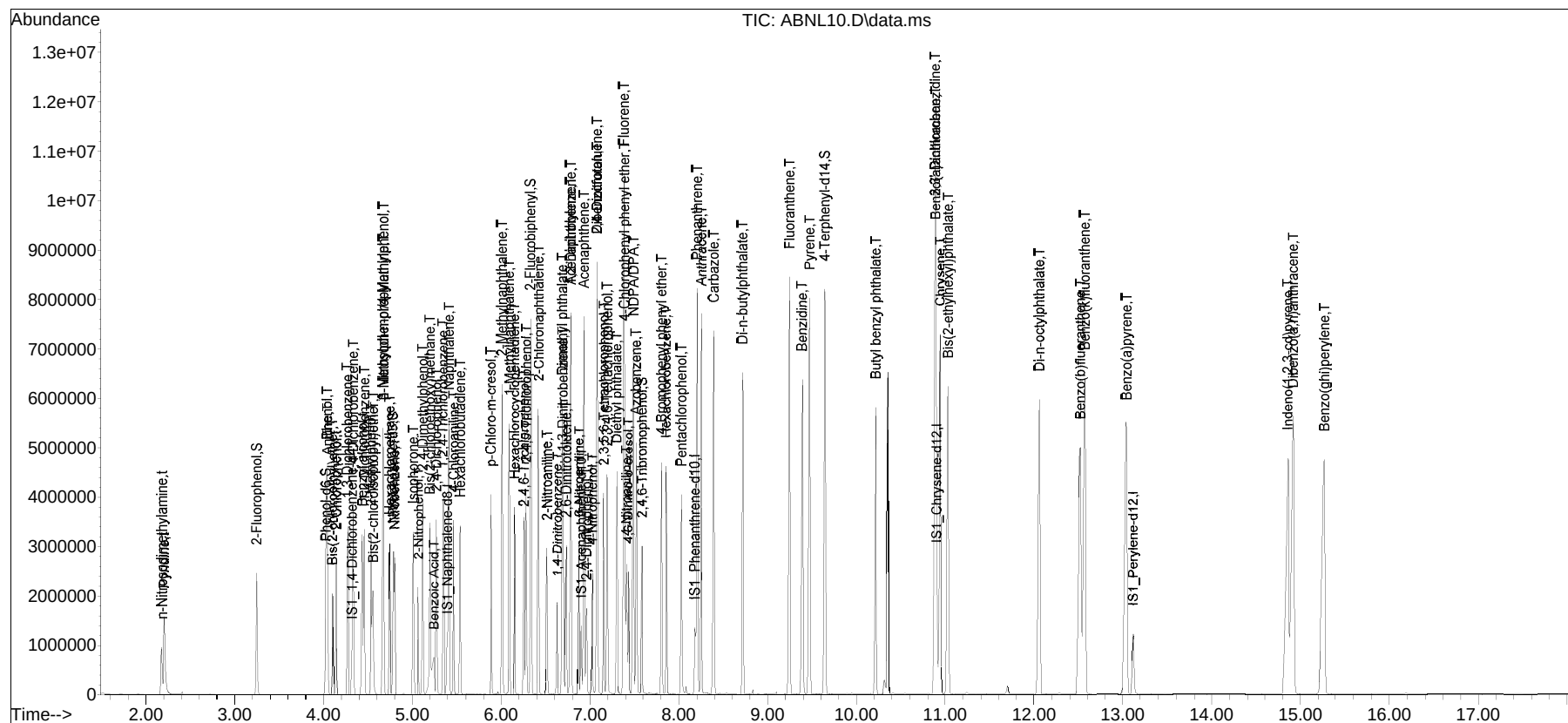


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL10.D  
 Acq On : 6 Oct 2019 6:00 pm  
 Operator : Buffy:ek  
 Sample : IL1,32,,ABNL200 Lot#8366  
 Misc : wg1293206,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 07 10:32:06 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

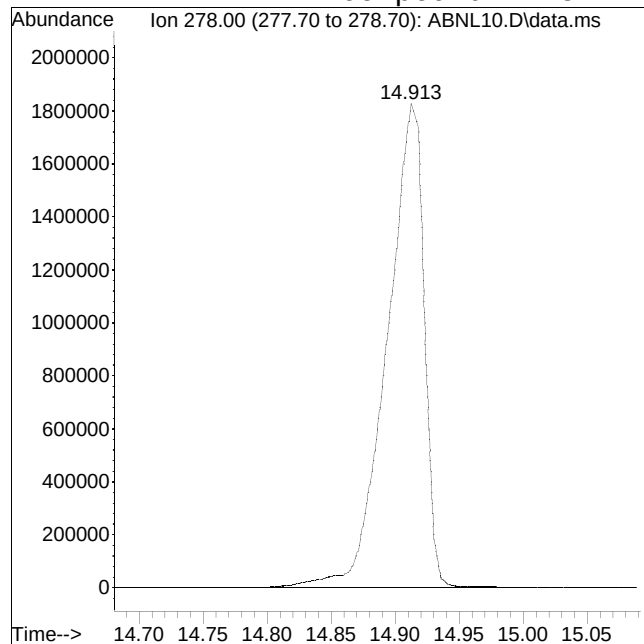
Sub List : ABNical - ABN ical sublistal\ABNL7.D•



# Manual Integration Report

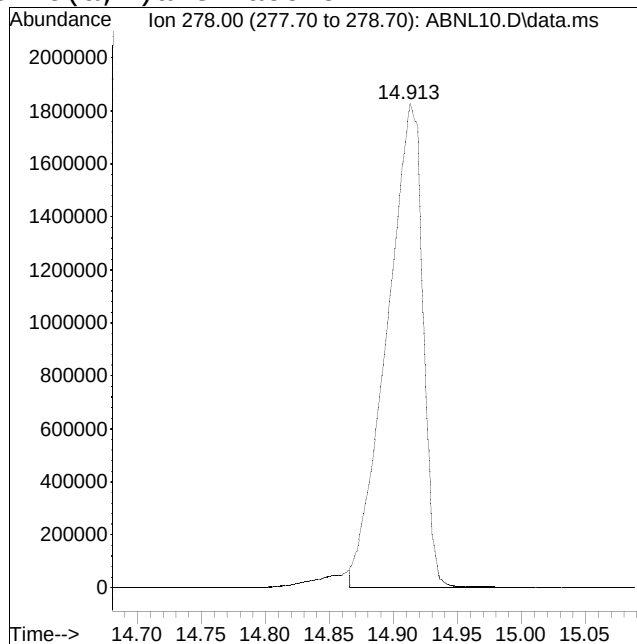
Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ABNL10.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 6:00 pm Instrument : Buffy  
Sample : IL1,32,,ABNL200 Lot#8366 Quant Date : 10/7/2019 9:50 am

## Compound #115: Dibenzo(a,h)anthracene



Original Peak Response = 3689883

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 3573744 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL9.D  
 Acq On : 6 Oct 2019 6:23 pm  
 Operator : Buffy:ek  
 Sample : IL2,32,,ABNL150 Lot#8375  
 Misc : wgl293206,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 10:28:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.319          | 152  | 142634   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 129403      |                |      | Recovery | =       | 110.22%  |          |
| 35) IS1_Naphthalene-d8        | 5.394          | 136  | 592201   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =       | 112.45%  |          |
| 63) IS1_Acenaphthene-d10      | 6.904          | 164  | 328514   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =       | 109.33%  |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 605138   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =       | 104.08%  |          |
| 104) IS1_Chrysene-d12         | 10.900         | 240  | 584672   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery | =       | 101.82%  |          |
| 113) IS1_Perylene-d12         | 13.115         | 264  | 656458   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =       | 95.14%   |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 3.256          | 112  | 687525   | 150.762 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 301.52%# |          |
| 7) Phenol-d6                  | 4.025          | 99   | 828838   | 153.964 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 307.93%# |          |
| 19) Nitrobenzene-d5           | 4.783          | 82   | 881527   | 155.382 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 621.53%# |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 2125568  | 150.110 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 600.44%# |          |
| 79) 2,4,6-Tribromophenol      | 7.586          | 330  | 309501   | 155.619 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 311.24%# |          |
| 96) 4-Terphenyl-d14           | 9.642          | 244  | 2485579  | 149.862 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 599.45%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.186          | 74   | 401164   | 150.947 | ug/ml    | 99       |
| 3) Pyridine                   | 2.210          | 79   | 697180   | 154.816 | ug/ml#   | 80       |
| 5) Aniline                    | 4.043          | 93   | 1090773  | 151.687 | ug/ml    | 98       |
| 6) 2-Chlorophenol             | 4.143          | 128  | 773778   | 153.895 | ug/ml    | 98       |
| 8) Phenol                     | 4.037          | 94   | 942910   | 151.065 | ug/ml    | 98       |
| 9) Bis(2-chloroethyl)ether    | 4.108          | 93   | 657648   | 155.441 | ug/ml    | 91       |
| 10) 1,3-Dichlorobenzene       | 4.272          | 146  | 850026   | 152.491 | ug/ml    | 94       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 866139   | 152.634 | ug/ml    | 94       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 826582   | 152.174 | ug/ml    | 94       |
| 13) Benzyl alcohol            | 4.437          | 79   | 562309   | 157.472 | ug/ml    | 95       |
| 14) Bis(2-chloroisopropyl)... | 4.560          | 45   | 902175   | 152.167 | ug/ml    | 90       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL9.D  
 Acq On : 6 Oct 2019 6:23 pm  
 Operator : Buffy:ek  
 Sample : IL2,32,,ABNL150 Lot#8375  
 Misc : wgl293206,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 10:28:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|---------|--------|----------|
| 15) | 2-Methylphenol            | 4.542 | 108  | 683406   | 155.255 | ug/ml  | 100      |
| 16) | Hexachloroethane          | 4.742 | 117  | 326181   | 151.871 | ug/ml# | 61       |
| 17) | n-Nitrosodi-n-propylamine | 4.672 | 70   | 483505   | 155.260 | ug/ml  | 99       |
| 18) | 3-Methylphenol/4-Methy... | 4.672 | 108  | 730326   | 155.555 | ug/ml  | 97       |
| 20) | Nitrobenzene              | 4.801 | 77   | 724173   | 155.162 | ug/ml  | 94       |
| 21) | Isophorone                | 5.007 | 82   | 1346974  | 155.538 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.071 | 139  | 416618   | 162.370 | ug/ml  | 89       |
| 23) | 2,4-Dimethylphenol        | 5.124 | 107  | 730933   | 160.300 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.200 | 93   | 900114   | 153.994 | ug/ml# | 97       |
| 25) | 2,4-Dichlorophenol        | 5.277 | 162  | 683905   | 157.335 | ug/ml# | 93       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 700501   | 157.023 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.412 | 128  | 2321861  | 147.513 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 5.242 | 105  | 607347   | 172.634 | ug/ml  | 93       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 251145M6 | 154.868 | ug/ml  |          |
| 39) | Hexachlorobutadiene       | 5.535 | 225  | 381707   | 155.848 | ug/ml  | 100      |
| 40) | p-Chloro-m-cresol         | 5.888 | 107  | 662384   | 153.704 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 1587203  | 149.633 | ug/ml  | 93       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 459126   | 149.689 | ug/ml# | 59       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 524777   | 157.400 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 513576   | 160.438 | ug/ml  | 100      |
| 45) | 2,4,5-Trichlorophenol     | 6.282 | 196  | 513731   | 150.062 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.423 | 162  | 1506489  | 149.435 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.517 | 138  | 549261   | 156.642 | ug/ml  | 87       |
| 49) | 1,4-Dinitrobenzene        | 6.634 | 168  | 230467   | 161.318 | ug/ml  | 79       |
| 50) | 1,3-Dinitrobenzene        | 6.699 | 168  | 267409   | 160.674 | ug/ml# | 75       |
| 51) | Dimethyl phthalate        | 6.693 | 163  | 1779601  | 146.027 | ug/ml# | 99       |
| 52) | Acenaphthylene            | 6.781 | 152  | 2492961  | 146.920 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.734 | 165  | 408966   | 152.431 | ug/ml# | 77       |
| 54) | 1,2-Dinitrobenzene        | 6.775 | 168  | 161858   | 154.718 | ug/ml  | 86       |
| 64) | 3-Nitroaniline            | 6.875 | 138  | 480344   | 154.686 | ug/ml  | 83       |
| 65) | Acenaphthene              | 6.934 | 154  | 1450412  | 153.005 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.963 | 184  | 227032   | 170.654 | ug/ml# | 85       |
| 67) | Dibenzofuran              | 7.081 | 168  | 2197692  | 151.395 | ug/ml  | 91       |
| 68) | 2,4-Dinitrotoluene        | 7.081 | 165  | 556822   | 159.684 | ug/ml# | 75       |
| 69) | 4-Nitrophenol             | 7.028 | 65   | 312153   | 155.506 | ug/ml  | 86       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.157 | 232  | 457942   | 157.229 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.192 | 232  | 458304   | 157.330 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.304 | 149  | 1854445  | 149.670 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.374 | 166  | 1808239  | 152.922 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.386 | 204  | 815917   | 151.332 | ug/ml  | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL9.D  
 Acq On : 6 Oct 2019 6:23 pm  
 Operator : Buffy:ek  
 Sample : IL2,32,,ABNL150 Lot#8375  
 Misc : wg1293206,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 07 10:28:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.410  | 138  | 548857    | 153.420 | ug/ml# | 89       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.433  | 198  | 315628    | 162.898 | ug/ml# | 86       |
| 77)  | NDPA/DPA                  | 7.492  | 169  | 1544076   | 151.894 | ug/ml  | 100      |
| 78)  | Azobenzene                | 7.521  | 77   | 1655625   | 150.161 | ug/ml# | 89       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 501662    | 149.390 | ug/ml# | 89       |
| 81)  | Hexachlorobenzene         | 7.856  | 284  | 583941    | 149.671 | ug/ml# | 87       |
| 82)  | Pentachlorophenol         | 8.027  | 266  | 390523    | 151.480 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 8.203  | 178  | 2564556   | 152.000 | ug/ml  | 99       |
| 90)  | Anthracene                | 8.250  | 178  | 2672518   | 153.893 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.391  | 167  | 2514666   | 151.446 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 3229839   | 152.012 | ug/ml# | 98       |
| 93)  | Fluoranthene              | 9.249  | 202  | 2923770   | 152.218 | ug/ml# | 92       |
| 94)  | Benzidine                 | 9.390  | 184  | 2127298   | 155.557 | ug/ml# | 94       |
| 95)  | Pyrene                    | 9.466  | 202  | 3030049   | 150.364 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.218 | 149  | 1529238   | 154.941 | ug/ml# | 81       |
| 105) | Benzo(a)anthracene        | 10.888 | 228  | 2919355   | 154.432 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 10.882 | 252  | 1241610   | 159.572 | ug/ml# | 96       |
| 107) | Chrysene                  | 10.941 | 228  | 2727254   | 147.602 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 2316347   | 151.762 | ug/ml# | 96       |
| 109) | Di-n-octylphthalate       | 12.051 | 149  | 4057610   | 154.480 | ug/ml  | 96       |
| 110) | Benzo(b)fluoranthene      | 12.516 | 252  | 2979319   | 147.485 | ug/ml  | 95       |
| 111) | Benzo(k)fluoranthene      | 12.563 | 252  | 2996868   | 151.051 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 13.033 | 252  | 2973195   | 149.660 | ug/ml  | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.854 | 276  | 3002447   | 162.542 | ug/mL  | 97       |
| 115) | Dibenzo(a,h)anthracene    | 14.907 | 278  | 2892218M6 | 157.071 | ug/ml  |          |
| 116) | Benzo(ghi)perylene        | 15.265 | 276  | 2982718   | 155.447 | ug/ml# | 82       |

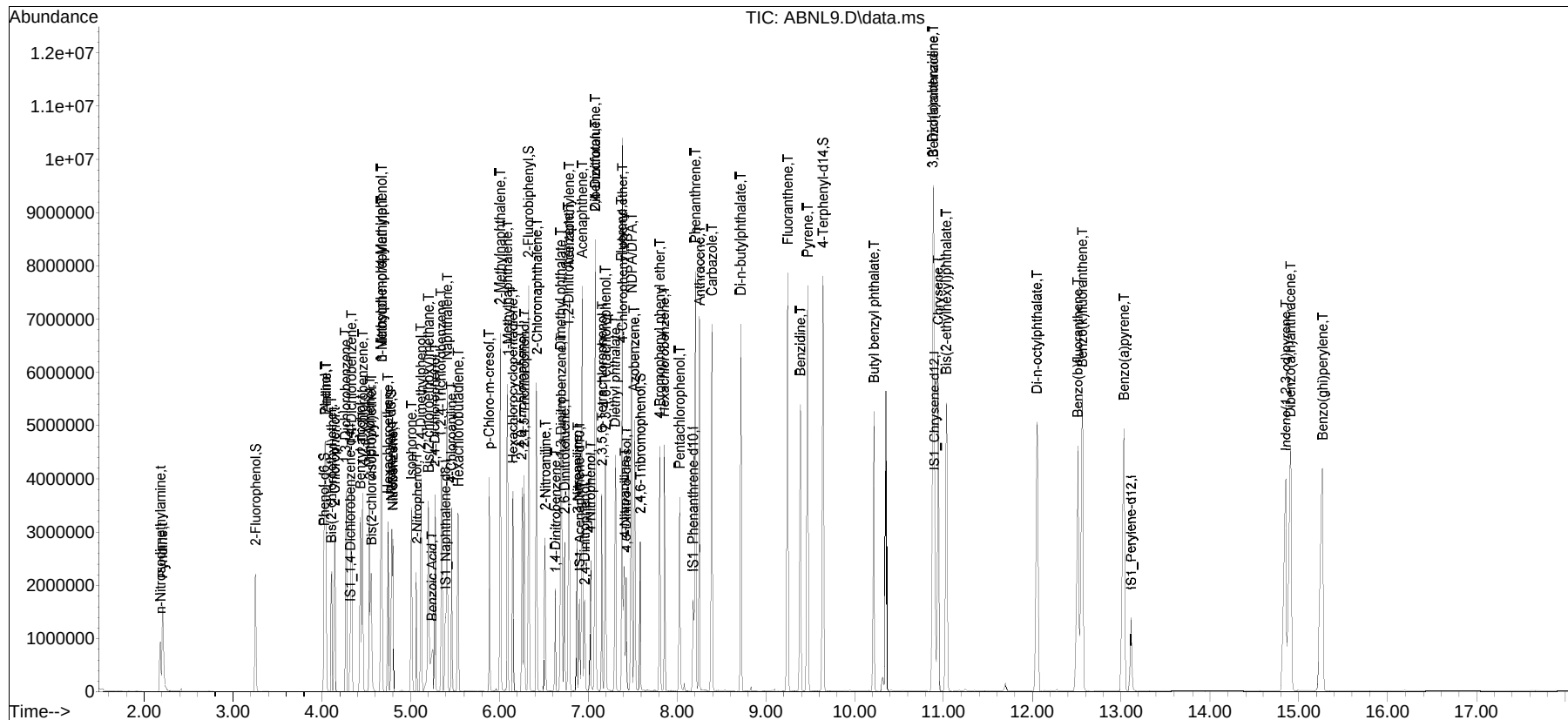
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : I:\8270\Buffy\191006ical\
Data File : ABNL9.D
Acq On    : 6 Oct 2019    6:23 pm
Operator  : Buffy:ek
Sample    : IL2,32,,ABNL150 Lot#8375
Misc      : wg1293206,,
ALS Vial  : 2    Sample Multiplier: 1
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Quant Time: Oct 07 10:28:59 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:47:15 2019  
Response via : Initial Calibration

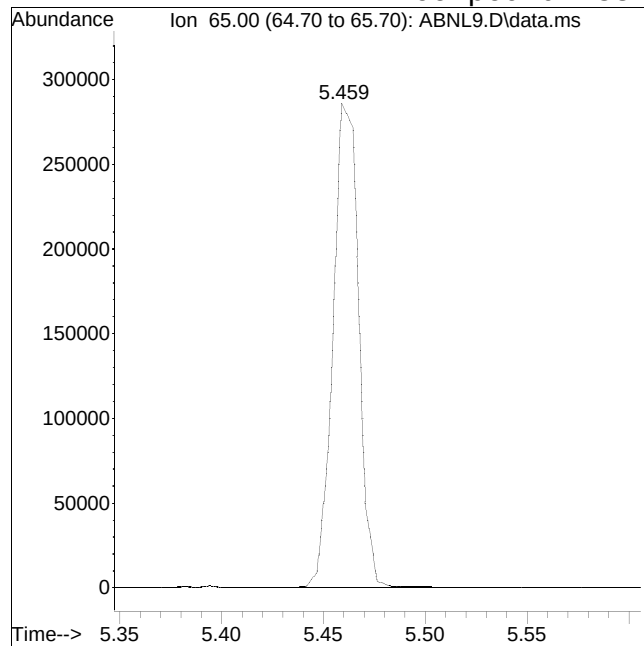
Sub List : ABNical - ABN ical sublistal\ABNL7.D•



# Manual Integration Report

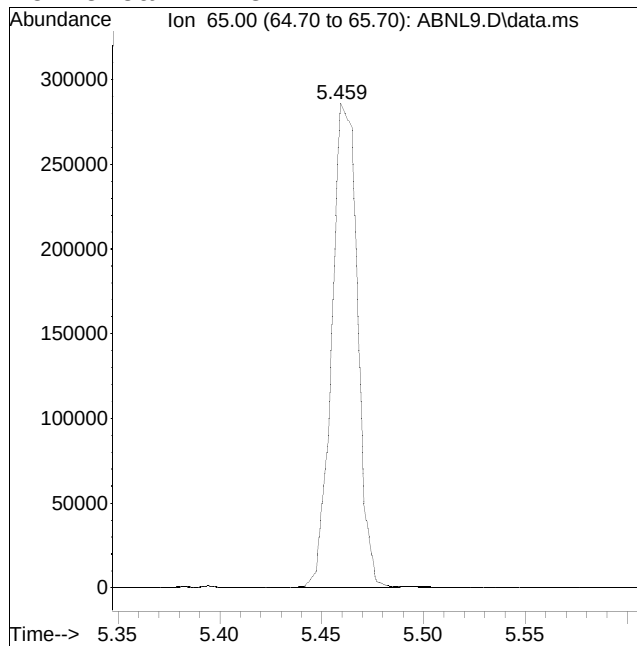
Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ABNL9.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 6:23 pm Instrument : Buffy  
Sample : IL2,32,,ABNL150 Lot#8375 Quant Date : 10/7/2019 9:50 am

## Compound #38: 4-Chloroaniline



Original Peak Response = 252117

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

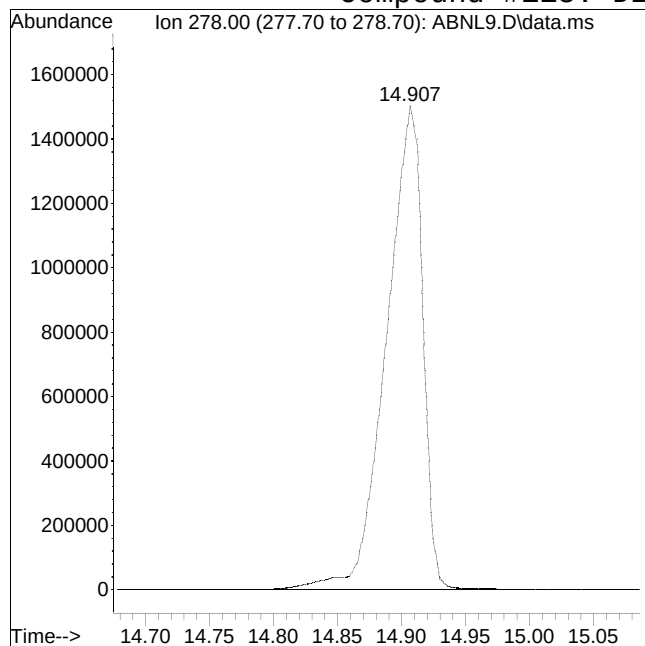


Manual Peak Response = 251145 M6

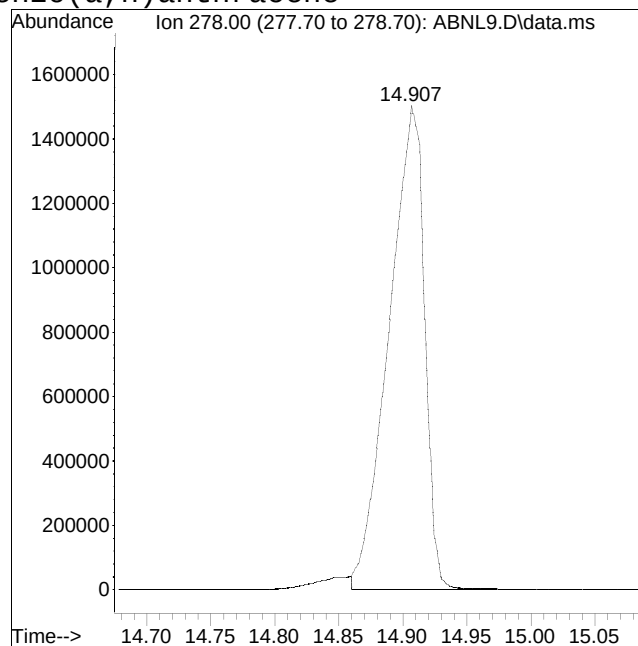
# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ABNL9.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 6:23 pm Instrument : Buffy  
Sample : IL2,32,,ABNL150 Lot#8375 Quant Date : 10/7/2019 9:50 am

## Compound #115: Dibenzo(a,h)anthracene



Original Peak Response = 2978807



Manual Peak Response = 2892218 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL8.D  
 Acq On : 6 Oct 2019 6:46 pm  
 Operator : Buffy:ek  
 Sample : IL3,32,,ABNL100 Lot#8374  
 Misc : wg1293206,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 10:29:55 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 117950   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 129403      |                |      | Recovery | =       | 91.15%   |          |
| 35) IS1_Naphthalene-d8        | 5.389          | 136  | 487679   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =       | 92.60%   |          |
| 63) IS1_Acenaphthene-d10      | 6.904          | 164  | 274730   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =       | 91.43%   |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 535270   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =       | 92.06%   |          |
| 104) IS1_Chrysene-d12         | 10.900         | 240  | 551260   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery | =       | 96.00%   |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 661788   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =       | 95.91%   |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 385958   | 102.346 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 204.69%# |          |
| 7) Phenol-d6                  | 4.020          | 99   | 461260   | 103.614 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 207.23%# |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 488143   | 104.049 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 416.20%# |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 1168311  | 100.191 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 400.76%# |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 171819   | 103.305 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 206.61%# |          |
| 96) 4-Terphenyl-d14           | 9.642          | 244  | 1497206  | 102.054 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 408.22%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.180          | 74   | 225382   | 102.553 | ug/ml    | 98       |
| 3) Pyridine                   | 2.204          | 79   | 389160   | 104.502 | ug/ml#   | 79       |
| 5) Aniline                    | 4.043          | 93   | 609570   | 102.509 | ug/ml    | 99       |
| 6) 2-Chlorophenol             | 4.143          | 128  | 431857   | 103.866 | ug/ml    | 97       |
| 8) Phenol                     | 4.031          | 94   | 529149   | 102.517 | ug/ml    | 99       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 358484   | 102.463 | ug/ml    | 91       |
| 10) 1,3-Dichlorobenzene       | 4.266          | 146  | 465326   | 100.947 | ug/ml    | 94       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 481888   | 102.691 | ug/ml    | 94       |
| 12) 1,2-Dichlorobenzene       | 4.454          | 146  | 458040   | 101.972 | ug/ml    | 94       |
| 13) Benzyl alcohol            | 4.437          | 79   | 306759   | 103.884 | ug/ml    | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 497062   | 101.383 | ug/ml    | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL8.D  
 Acq On : 6 Oct 2019 6:46 pm  
 Operator : Buffy:ek  
 Sample : IL3,32,,ABNL100 Lot#8374  
 Misc : wg1293206,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 10:29:55 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|---------|--------|----------|
| 15) | 2-Methylphenol            | 4.537 | 108  | 377034   | 103.579 | ug/ml  | 99       |
| 16) | Hexachloroethane          | 4.742 | 117  | 178885   | 100.720 | ug/ml# | 63       |
| 17) | n-Nitrosodi-n-propylamine | 4.666 | 70   | 265206   | 102.984 | ug/ml  | 99       |
| 18) | 3-Methylphenol/4-Methy... | 4.672 | 108  | 401529   | 103.421 | ug/ml  | 98       |
| 20) | Nitrobenzene              | 4.795 | 77   | 390230   | 101.108 | ug/ml  | 94       |
| 21) | Isophorone                | 5.001 | 82   | 735663   | 102.726 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 224956   | 106.021 | ug/ml  | 89       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 400646   | 106.253 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.195 | 93   | 487153   | 100.785 | ug/ml  | 99       |
| 25) | 2,4-Dichlorophenol        | 5.277 | 162  | 369912   | 102.909 | ug/ml# | 93       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 379855   | 102.967 | ug/ml  | 99       |
| 36) | Naphthalene               | 5.406 | 128  | 1276610  | 98.489  | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.218 | 105  | 319510   | 110.283 | ug/ml  | 94       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 136737   | 102.390 | ug/ml  | 79       |
| 39) | Hexachlorobutadiene       | 5.530 | 225  | 197568   | 97.954  | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 363247   | 102.356 | ug/ml  | 91       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 871576   | 99.778  | ug/ml# | 93       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 254183   | 100.633 | ug/ml# | 59       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 274617   | 100.021 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 266258   | 101.004 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.282 | 196  | 290337   | 102.984 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.423 | 162  | 831818   | 100.196 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 303578   | 105.132 | ug/ml  | 86       |
| 49) | 1,4-Dinitrobenzene        | 6.628 | 168  | 125714   | 106.855 | ug/ml  | 79       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 147877   | 107.896 | ug/ml# | 74       |
| 51) | Dimethyl phthalate        | 6.687 | 163  | 1000287  | 99.671  | ug/ml# | 99       |
| 52) | Acenaphthylene            | 6.775 | 152  | 1397713  | 100.027 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.728 | 165  | 226768   | 102.637 | ug/ml# | 77       |
| 54) | 1,2-Dinitrobenzene        | 6.769 | 168  | 90960    | 105.583 | ug/ml  | 85       |
| 64) | 3-Nitroaniline            | 6.869 | 138  | 268368   | 103.342 | ug/ml  | 83       |
| 65) | Acenaphthene              | 6.928 | 154  | 821758   | 103.659 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.957 | 184  | 127331   | 114.449 | ug/ml# | 84       |
| 67) | Dibenzofuran              | 7.081 | 168  | 1235658  | 101.786 | ug/ml  | 90       |
| 68) | 2,4-Dinitrotoluene        | 7.075 | 165  | 308061   | 105.641 | ug/ml# | 76       |
| 69) | 4-Nitrophenol             | 7.022 | 65   | 177943   | 106.001 | ug/ml  | 88       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 255788   | 105.015 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.192 | 232  | 253733   | 104.155 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.298 | 149  | 1050917  | 101.423 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.375 | 166  | 1008744  | 102.010 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 452591   | 100.378 | ug/ml  | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL8.D  
 Acq On : 6 Oct 2019 6:46 pm  
 Operator : Buffy:ek  
 Sample : IL3,32,,ABNL100 Lot#8374  
 Misc : wg1293206,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 10:29:55 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.398  | 138  | 316098    | 105.656 | ug/ml  | 85       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.427  | 198  | 176627    | 109.005 | ug/ml# | 85       |
| 77)  | NDPA/DPA                  | 7.486  | 169  | 866094    | 101.879 | ug/ml  | 99       |
| 78)  | Azobenzene                | 7.516  | 77   | 933706    | 101.263 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 280465    | 99.870  | ug/ml# | 89       |
| 81)  | Hexachlorobenzene         | 7.856  | 284  | 322921    | 98.972  | ug/ml# | 87       |
| 82)  | Pentachlorophenol         | 8.027  | 266  | 225128    | 104.420 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.203  | 178  | 1512060   | 101.317 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.244  | 178  | 1540477   | 100.285 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.385  | 167  | 1500313   | 102.151 | ug/ml  | 100      |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 1898559   | 101.019 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.243  | 202  | 1745494   | 102.736 | ug/ml# | 92       |
| 94)  | Benzidine                 | 9.384  | 184  | 1301000   | 107.552 | ug/ml# | 93       |
| 95)  | Pyrene                    | 9.460  | 202  | 1823814   | 102.319 | ug/ml  | 100      |
| 97)  | Butyl benzyl phthalate    | 10.218 | 149  | 908543    | 104.069 | ug/ml# | 81       |
| 105) | Benzo(a)anthracene        | 10.882 | 228  | 1823131   | 102.288 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.882 | 252  | 765942    | 104.405 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.935 | 228  | 1721695   | 98.827  | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 1392231   | 96.745  | ug/ml# | 96       |
| 109) | Di-n-octylphthalate       | 12.051 | 149  | 2479884   | 100.136 | ug/ml  | 96       |
| 110) | Benzo(b)fluoranthene      | 12.510 | 252  | 1923484   | 100.989 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.557 | 252  | 1955608   | 104.542 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 13.027 | 252  | 1937847   | 103.456 | ug/ml  | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.842 | 276  | 1971323   | 105.861 | ug/mL  | 96       |
| 115) | Dibenzo(a,h)anthracene    | 14.895 | 278  | 1939471M6 | 104.481 | ug/ml  |          |
| 116) | Benzo(ghi)perylene        | 15.248 | 276  | 2038531   | 105.384 | ug/ml# | 81       |

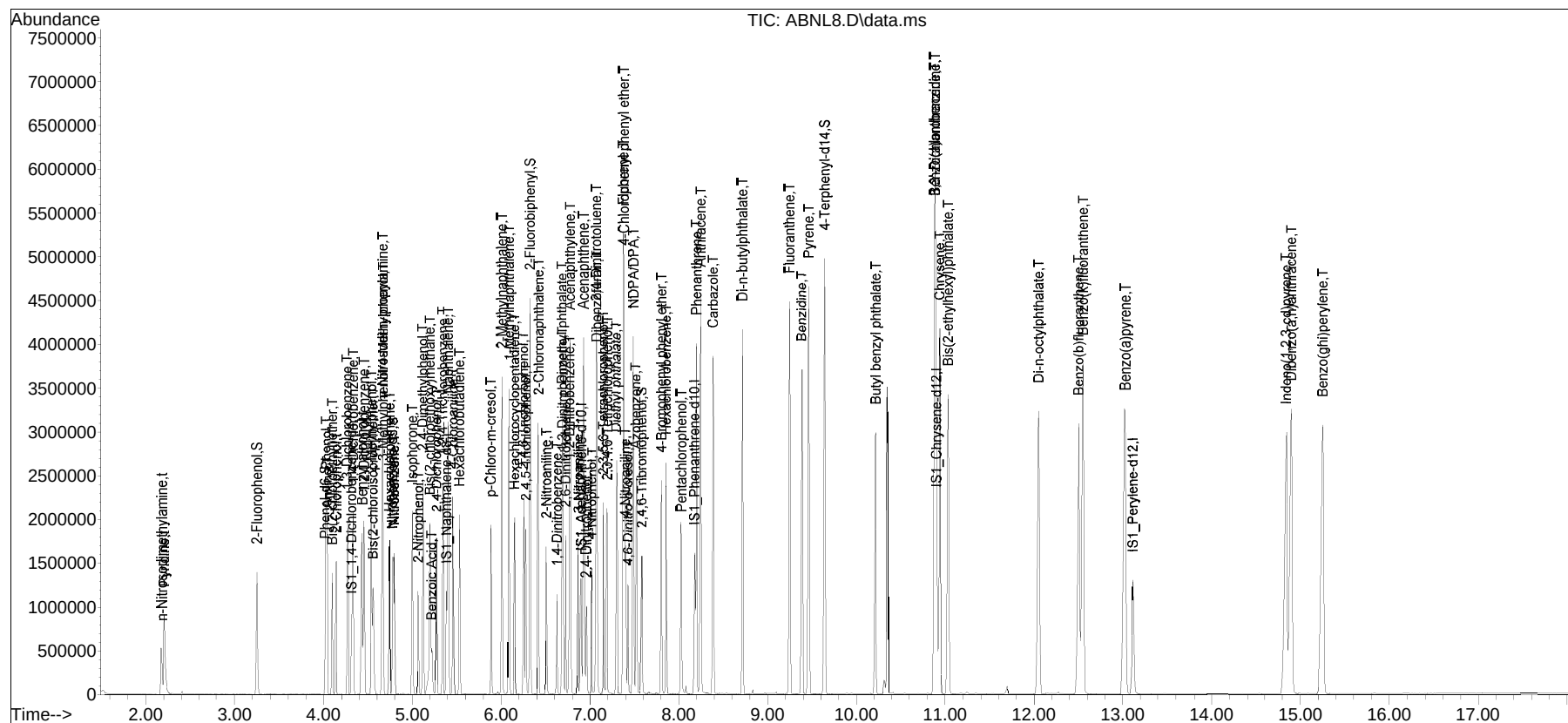
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL8.D  
 Acq On : 6 Oct 2019 6:46 pm  
 Operator : Buffy:ek  
 Sample : IL3,32,,ABNL100 Lot#8374  
 Misc : wg1293206,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 07 10:29:55 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

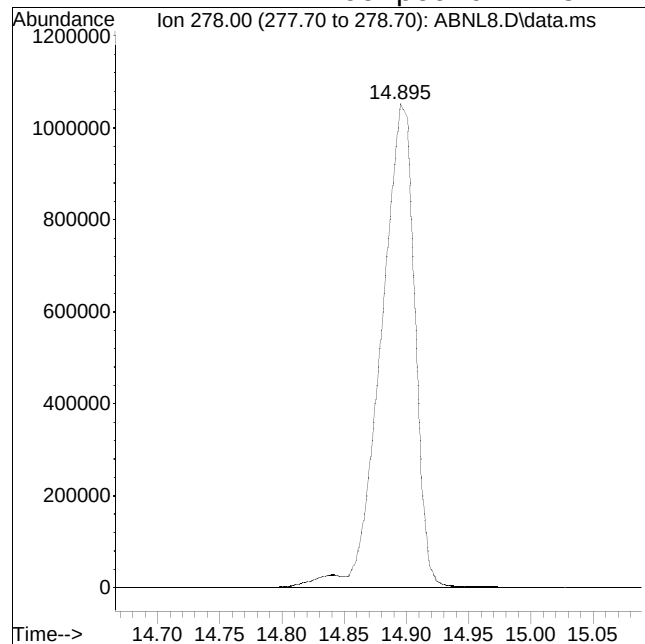
Sub List : ABNical - ABN ical sublistal\ABNL7.D•



# Manual Integration Report

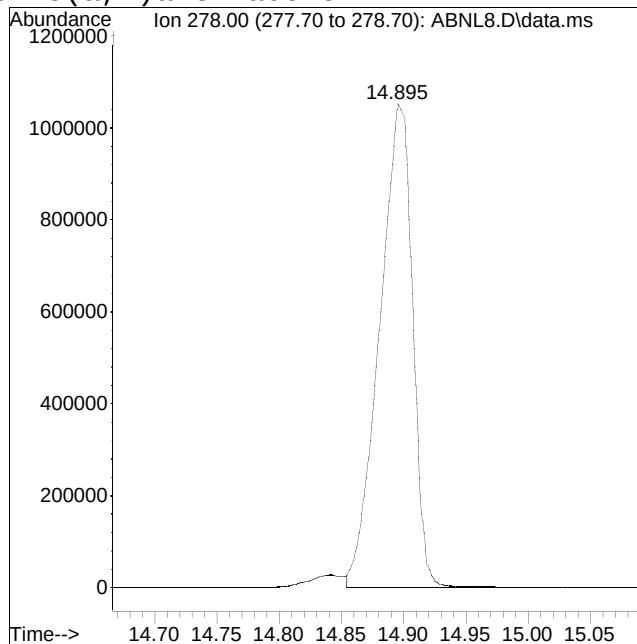
Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ABNL8.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 6:46 pm Instrument : Buffy  
Sample : IL3,32,,ABNL100 Lot#8374 Quant Date : 10/7/2019 9:50 am

## Compound #115: Dibenzo(a,h)anthracene



Original Peak Response = 1999161

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1939471 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL7.D  
 Acq On : 6 Oct 2019 7:09 pm  
 Operator : Buffy:ek  
 Sample : IL4,32,,ABNL50 Lot#8373  
 Misc : wg1293206,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 07 09:46:12 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:45:59 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|----------|----------|
| -----                         |                |      |          |        |          |          |
| Internal Standards            |                |      |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.319          | 152  | 129403   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery | =      | 100.00%  |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 526646   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =      | 100.00%  |          |
| 63) IS1_Acenaphthene-d10      | 6.898          | 164  | 300481   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =      | 100.00%  |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 581431   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =      | 100.00%  |          |
| 104) IS1_Chrysene-d12         | 10.894         | 240  | 574226   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery | =      | 100.00%  |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 689990   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =      | 100.00%  |          |
| System Monitoring Compounds   |                |      |          |        |          |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 206865   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 7) Phenol-d6                  | 4.019          | 99   | 244198   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 257351   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| 46) 2-Fluorobiphenyl          | 6.328          | 172  | 629629   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 90956    | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 96) 4-Terphenyl-d14           | 9.636          | 244  | 796799   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| Target Compounds              |                |      |          |        |          |          |
|                               |                |      |          |        |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.180          | 74   | 120556   | 50.000 | ug/ml#   | 98       |
| 3) Pyridine                   | 2.210          | 79   | 204277   | 50.000 | ug/ml#   | 78       |
| 5) Aniline                    | 4.043          | 93   | 326194   | 50.000 | ug/ml    | 99       |
| 6) 2-Chlorophenol             | 4.143          | 128  | 228078   | 50.000 | ug/ml    | 97       |
| 8) Phenol                     | 4.031          | 94   | 283137   | 50.000 | ug/ml    | 99       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 191919   | 50.000 | ug/ml    | 90       |
| 10) 1,3-Dichlorobenzene       | 4.272          | 146  | 252860   | 50.000 | ug/ml    | 94       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 257412   | 50.000 | ug/ml    | 94       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 246398   | 50.000 | ug/ml    | 94       |
| 13) Benzyl alcohol            | 4.436          | 79   | 161981   | 50.000 | ug/ml    | 95       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 268943   | 50.000 | ug/ml#   | 77       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL7.D  
 Acq On : 6 Oct 2019 7:09 pm  
 Operator : Buffy:ek  
 Sample : IL4,32,,ABNL50 Lot#8373  
 Misc : wg1293206,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 07 09:46:12 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:45:59 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.536 | 108  | 199676   | 50.000 | ug/ml  | 100      |
| 16) | Hexachloroethane          | 4.742 | 117  | 97426    | 50.000 | ug/ml# | 63       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 141264   | 50.000 | ug/ml  | 99       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 212973   | 50.000 | ug/ml  | 97       |
| 20) | Nitrobenzene              | 4.795 | 77   | 211714   | 50.000 | ug/ml  | 95       |
| 21) | Isophorone                | 5.001 | 82   | 392839   | 50.000 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 116392   | 50.000 | ug/ml  | 90       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 206840   | 50.000 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.194 | 93   | 265146   | 50.000 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 197180   | 50.000 | ug/ml# | 93       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 202365   | 50.000 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.406 | 128  | 699885   | 50.000 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.194 | 105  | 156434   | 50.000 | ug/ml  | 95       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 72108    | 50.000 | ug/ml  | 76       |
| 39) | Hexachlorobutadiene       | 5.529 | 225  | 108905   | 50.000 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 191622   | 50.000 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 471655   | 50.000 | ug/ml# | 93       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 136383   | 50.000 | ug/ml# | 59       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 148248   | 50.000 | ug/ml  | 98       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 142337   | 50.000 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 152225   | 50.000 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.422 | 162  | 448262   | 50.000 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 155916   | 50.000 | ug/ml  | 86       |
| 49) | 1,4-Dinitrobenzene        | 6.628 | 168  | 63525    | 50.000 | ug/ml  | 82       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 74003    | 50.000 | ug/ml  | 78       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 541889   | 50.000 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.775 | 152  | 754490   | 50.000 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.728 | 165  | 119298   | 50.000 | ug/ml# | 77       |
| 54) | 1,2-Dinitrobenzene        | 6.769 | 168  | 46517    | 50.000 | ug/ml  | 87       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 142015   | 50.000 | ug/ml  | 83       |
| 65) | Acenaphthene              | 6.928 | 154  | 433530   | 50.000 | ug/ml  | 96       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 60842    | 50.000 | ug/ml# | 86       |
| 67) | Dibenzofuran              | 7.075 | 168  | 663880   | 50.000 | ug/ml  | 89       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 159473   | 50.000 | ug/ml# | 77       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 91802    | 50.000 | ug/ml  | 89       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 133202   | 50.000 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.186 | 232  | 133222   | 50.000 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.298 | 149  | 566648   | 50.000 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.374 | 166  | 540777   | 50.000 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 246574   | 50.000 | ug/ml# | 88       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL7.D  
 Acq On : 6 Oct 2019 7:09 pm  
 Operator : Buffy:ek  
 Sample : IL4,32,,ABNL50 Lot#8373  
 Misc : wg1293206,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 07 09:46:12 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:45:59 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.392  | 138  | 163610   | 50.000 | ug/ml# | 86       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.421  | 198  | 88612    | 50.000 | ug/ml# | 81       |
| 77)  | NDPA/DPA                  | 7.486  | 169  | 464903   | 50.000 | ug/ml  | 99       |
| 78)  | Azobenzene                | 7.515  | 77   | 504241   | 50.000 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 153576   | 50.000 | ug/ml# | 89       |
| 81)  | Hexachlorobenzene         | 7.856  | 284  | 178429   | 50.000 | ug/ml# | 88       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 117903   | 50.000 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.197  | 178  | 810554   | 50.000 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.244  | 178  | 834286   | 50.000 | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.385  | 167  | 797692   | 50.000 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 1020742  | 50.000 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.243  | 202  | 922763   | 50.000 | ug/ml# | 91       |
| 94)  | Benzidine                 | 9.378  | 184  | 656982   | 50.000 | ug/ml# | 93       |
| 95)  | Pyrene                    | 9.460  | 202  | 968096   | 50.000 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 474156   | 50.000 | ug/ml# | 80       |
| 105) | Benzo(a)anthracene        | 10.882 | 228  | 928305   | 50.000 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.876 | 252  | 382094   | 50.000 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.929 | 228  | 907351   | 50.000 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 749515   | 50.000 | ug/ml# | 95       |
| 109) | Di-n-octylphthalate       | 12.045 | 149  | 1289850  | 50.000 | ug/ml  | 95       |
| 110) | Benzo(b)fluoranthene      | 12.498 | 252  | 991994   | 50.000 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.545 | 252  | 974284   | 50.000 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 13.015 | 252  | 975570   | 50.000 | ug/ml  | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.830 | 276  | 970769   | 50.000 | ug/mL  | 95       |
| 115) | Dibenzo(a,h)anthracene    | 14.883 | 278  | 967699   | 50.000 | ug/ml  | 96       |
| 116) | Benzo(ghi)perylene        | 15.236 | 276  | 1008408  | 50.000 | ug/ml# | 80       |

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

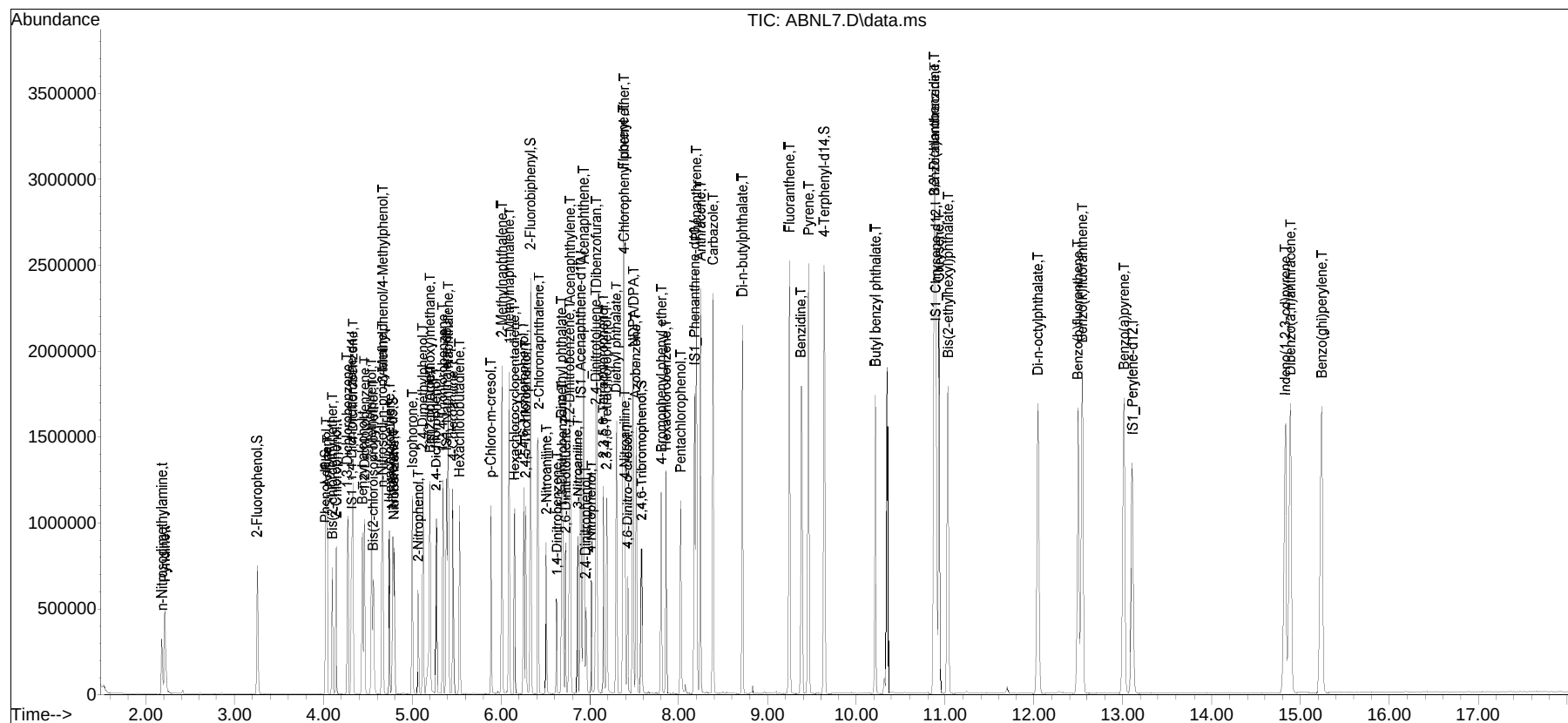


Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL7.D  
Acq On    : 6 Oct 2019    7:09 pm  
Operator  : Buffy:ek  
Sample    : IL4,32,,ABNL50 Lot#8373  
Misc      : wg1293206,,  
ALS Vial  : 4    Sample Multiplier: 1
```

Quant Time: Oct 07 09:46:12 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:45:59 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : ABNL7.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 7:09 pm         | Instrument | : Buffy             |
| Sample     | : IL4,32,,ABNL50 Lot#8373   | Quant Date | : 10/7/2019 9:46 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL6.D  
 Acq On : 6 Oct 2019 7:32 pm  
 Operator : Buffy:ek  
 Sample : IL5,32,,ABNL20 Lot#8372  
 Misc : wg1293206,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:18:49 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response          | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|-------------------|--------|--------|----------|
| -----                         |                |      |                   |        |        |          |
| Internal Standards            |                |      |                   |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 127794            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery = 98.76% |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 518309            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery = 98.42% |        |        |          |
| 63) IS1_Acenaphthene-d10      | 6.899          | 164  | 288576            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery = 96.04% |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 559389            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery = 96.21% |        |        |          |
| 104) IS1_Chrysene-d12         | 10.894         | 240  | 545841            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery = 95.06% |        |        |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 649967            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery = 94.20% |        |        |          |
| System Monitoring Compounds   |                |      |                   |        |        |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 82295             | 20.141 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 40.28% |        |        |          |
| 7) Phenol-d6                  | 4.019          | 99   | 101447            | 21.033 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 42.07% |        |        |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 104155            | 20.491 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 81.96% |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 254365            | 20.525 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 82.10% |        |        |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 34312             | 19.640 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 39.28% |        |        |          |
| 96) 4-Terphenyl-d14           | 9.637          | 244  | 311338            | 20.307 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 81.23% |        |        |          |
| Target Compounds              |                |      |                   |        |        |          |
|                               |                |      |                   |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.186          | 74   | 49193             | 20.659 | ug/ml# | 99       |
| 3) Pyridine                   | 2.210          | 79   | 81145             | 20.112 | ug/ml# | 81       |
| 5) Aniline                    | 4.043          | 93   | 133503            | 20.721 | ug/ml  | 100      |
| 6) 2-Chlorophenol             | 4.137          | 128  | 92236             | 20.475 | ug/ml  | 98       |
| 8) Phenol                     | 4.031          | 94   | 114401            | 20.457 | ug/ml  | 99       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 78865             | 20.805 | ug/ml  | 89       |
| 10) 1,3-Dichlorobenzene       | 4.272          | 146  | 102712            | 20.566 | ug/ml  | 94       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 105080            | 20.668 | ug/ml  | 95       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 100963            | 20.746 | ug/ml  | 94       |
| 13) Benzyl alcohol            | 4.431          | 79   | 66530             | 20.795 | ug/ml  | 95       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 107764            | 20.287 | ug/ml# | 77       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL6.D  
 Acq On : 6 Oct 2019 7:32 pm  
 Operator : Buffy:ek  
 Sample : IL5,32,,ABNL20 Lot#8372  
 Misc : wg1293206,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:18:49 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.537 | 108  | 81269    | 20.606 | ug/ml  | 99       |
| 16) | Hexachloroethane          | 4.742 | 117  | 38431    | 19.972 | ug/ml# | 61       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 57023    | 20.437 | ug/ml  | 98       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 85339    | 20.287 | ug/ml  | 95       |
| 20) | Nitrobenzene              | 4.795 | 77   | 84154    | 20.125 | ug/ml  | 95       |
| 21) | Isophorone                | 5.001 | 82   | 161326   | 20.792 | ug/ml  | 98       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 44622    | 19.410 | ug/ml  | 91       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 84289    | 20.632 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.195 | 93   | 106477   | 20.332 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 77842    | 19.987 | ug/ml# | 93       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 81540    | 20.400 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.406 | 128  | 282529   | 20.509 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.177 | 105  | 54387    | 17.663 | ug/ml  | 93       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 28294    | 19.935 | ug/ml  | 76       |
| 39) | Hexachlorobutadiene       | 5.530 | 225  | 44641    | 20.825 | ug/ml  | 96       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 75611    | 20.047 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 188907   | 20.348 | ug/ml  | 93       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 53713    | 20.009 | ug/ml# | 56       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 56027    | 19.200 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 55544    | 19.825 | ug/ml  | 100      |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 59545    | 19.873 | ug/ml  | 96       |
| 47) | 2-Chloronaphthalene       | 6.417 | 162  | 178882   | 20.274 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 59585    | 19.415 | ug/ml  | 88       |
| 49) | 1,4-Dinitrobenzene        | 6.622 | 168  | 22601    | 18.075 | ug/ml  | 85       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 27181    | 18.660 | ug/ml  | 81       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 211419   | 19.821 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.775 | 152  | 292691   | 19.709 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.722 | 165  | 45934    | 19.561 | ug/ml# | 77       |
| 54) | 1,2-Dinitrobenzene        | 6.763 | 168  | 17292    | 18.886 | ug/ml  | 96       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 54331    | 19.918 | ug/ml  | 85       |
| 65) | Acenaphthene              | 6.928 | 154  | 173058   | 20.783 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 20275    | 17.349 | ug/ml# | 85       |
| 67) | Dibenzofuran              | 7.075 | 168  | 267760   | 20.998 | ug/ml  | 89       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 59991    | 19.585 | ug/ml# | 79       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 34121    | 19.351 | ug/ml  | 88       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 50509    | 19.742 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.186 | 232  | 52072    | 20.350 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.292 | 149  | 225610   | 20.729 | ug/ml  | 99       |
| 73) | Fluorene                  | 7.369 | 166  | 214148   | 20.617 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 95962    | 20.262 | ug/ml  | 90       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL6.D  
 Acq On : 6 Oct 2019 7:32 pm  
 Operator : Buffy:ek  
 Sample : IL5,32,,ABNL20 Lot#8372  
 Misc : wg1293206,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:18:49 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.386  | 138  | 62869    | 20.006 | ug/ml  | 86       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.416  | 198  | 30454    | 17.893 | ug/ml# | 84       |
| 77)  | NDPA/DPA                  | 7.480  | 169  | 183865   | 20.590 | ug/ml  | 99       |
| 78)  | Azobenzene                | 7.515  | 77   | 198367   | 20.481 | ug/ml# | 90       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 59928    | 20.316 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 7.850  | 284  | 68487    | 19.983 | ug/ml# | 88       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 42124    | 18.601 | ug/ml  | 97       |
| 89)  | Phenanthrene              | 8.197  | 178  | 324058   | 20.778 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.238  | 178  | 332648   | 20.722 | ug/ml  | 97       |
| 91)  | Carbazole                 | 8.385  | 167  | 316707   | 20.634 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 395305   | 20.127 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.243  | 202  | 363320   | 20.462 | ug/ml# | 91       |
| 94)  | Benzidine                 | 9.378  | 184  | 248069   | 19.623 | ug/ml# | 93       |
| 95)  | Pyrene                    | 9.460  | 202  | 382334   | 20.525 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 174634   | 19.141 | ug/ml# | 82       |
| 105) | Benzo(a)anthracene        | 10.876 | 228  | 362441   | 20.537 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.870 | 252  | 142864   | 19.667 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.929 | 228  | 354770   | 20.566 | ug/ml  | 96       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 277015   | 19.441 | ug/ml# | 95       |
| 109) | Di-n-octylphthalate       | 12.046 | 149  | 461906   | 18.837 | ug/ml  | 95       |
| 110) | Benzo(b)fluoranthene      | 12.498 | 252  | 377379   | 20.010 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.539 | 252  | 382438   | 20.647 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 13.009 | 252  | 366829   | 19.778 | ug/ml  | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.819 | 276  | 354577   | 19.387 | ug/mL  | 95       |
| 115) | Dibenzo(a,h)anthracene    | 14.878 | 278  | 362575   | 19.887 | ug/ml  | 95       |
| 116) | Benzo(ghi)perylene        | 15.224 | 276  | 379760   | 19.989 | ug/ml# | 79       |

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

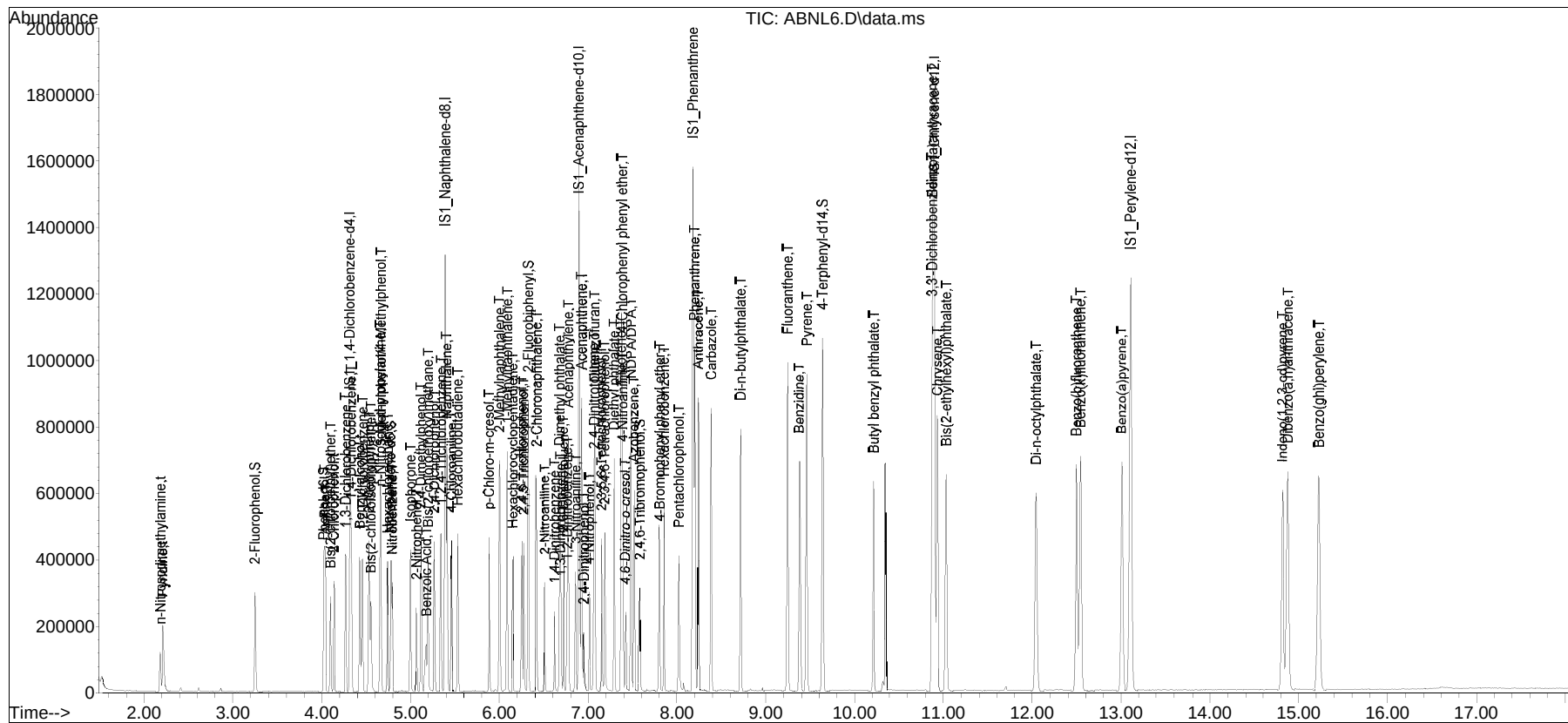
# Quantitation Report

(QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL6.D  
Acq On : 6 Oct 2019 7:32 pm  
Operator : Buffy:ek  
Sample : IL5,32,,ABNL20 Lot#8372  
Misc : wg1293206,,  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 07 10:18:49 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:47:15 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublista\ABNL7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : ABNL6.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 7:32 pm         | Instrument | : Buffy             |
| Sample     | : IL5,32,,ABNL20 Lot#8372   | Quant Date | : 10/7/2019 9:50 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL5.D  
 Acq On : 6 Oct 2019 7:55 pm  
 Operator : Buffy:ek  
 Sample : IL6,32,,ABNL10 Lot#8371  
 Misc : wg1293206,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:40:26 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:40:16 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|--------|----------|
| -----                         |                |      |          |        |        |          |
| Internal Standards            |                |      |          |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 126724   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery | =      | 97.93% |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 503974   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =      | 95.70% |          |
| 63) IS1_Acenaphthene-d10      | 6.898          | 164  | 278529   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =      | 92.69% |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 543757   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =      | 93.52% |          |
| 104) IS1_Chrysene-d12         | 10.894         | 240  | 543412   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery | =      | 94.63% |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 667380   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =      | 96.72% |          |
| System Monitoring Compounds   |                |      |          |        |        |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 42250    | 10.277 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 20.55% |          |
| 7) Phenol-d6                  | 4.019          | 99   | 49704    | 10.152 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 20.30% |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 48962    | 9.516  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 38.06% |          |
| 46) 2-Fluorobiphenyl          | 6.328          | 172  | 123087   | 9.990  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 39.96% |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 16284    | 10.007 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 20.01% |          |
| 96) 4-Terphenyl-d14           | 9.636          | 244  | 155159   | 10.245 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 40.98% |          |
| Target Compounds              |                |      |          |        |        |          |
|                               |                |      |          |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.180          | 74   | 24851    | 10.153 | ug/ml# | 98       |
| 3) Pyridine                   | 2.210          | 79   | 40485    | 9.731  | ug/ml# | 79       |
| 5) Aniline                    | 4.037          | 93   | 66283    | 10.124 | ug/ml  | 99       |
| 6) 2-Chlorophenol             | 4.137          | 128  | 45870    | 10.126 | ug/ml  | 97       |
| 8) Phenol                     | 4.031          | 94   | 56218    | 9.946  | ug/ml  | 100      |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 39744    | 10.011 | ug/ml  | 89       |
| 10) 1,3-Dichlorobenzene       | 4.266          | 146  | 51826    | 10.181 | ug/ml  | 94       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 52678    | 10.017 | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.454          | 146  | 50794    | 9.994  | ug/ml# | 93       |
| 13) Benzyl alcohol            | 4.431          | 79   | 32385    | 9.967  | ug/ml  | 97       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 53505    | 9.850  | ug/ml# | 77       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL5.D  
 Acq On : 6 Oct 2019 7:55 pm  
 Operator : Buffy:ek  
 Sample : IL6,32,,ABNL10 Lot#8371  
 Misc : wg1293206,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:40:26 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:40:16 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.536 | 108  | 38679    | 9.706  | ug/ml  | 97       |
| 16) | Hexachloroethane          | 4.742 | 117  | 19922    | 9.983  | ug/ml# | 65       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 27077    | 9.648  | ug/ml  | 99       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 41238    | 9.821  | ug/ml  | 98       |
| 20) | Nitrobenzene              | 4.795 | 77   | 41735    | 9.915  | ug/ml  | 95       |
| 21) | Isophorone                | 5.001 | 82   | 76624    | 9.798  | ug/ml  | 99       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 20785    | 9.642  | ug/ml  | 94       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 41299    | 9.895  | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.194 | 93   | 52926    | 10.050 | ug/ml# | 93       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 38099    | 10.071 | ug/ml# | 91       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 40560    | 9.769  | ug/ml  | 97       |
| 36) | Naphthalene               | 5.406 | 128  | 140397   | 10.240 | ug/ml  | 98       |
| 37) | Benzoic Acid              | 5.165 | 105  | 20807    | 10.357 | ug/ml# | 88       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 13647    | 9.586  | ug/ml  | 77       |
| 39) | Hexachlorobutadiene       | 5.529 | 225  | 21723    | 9.863  | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 35482    | 9.834  | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 93947    | 10.352 | ug/ml# | 94       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 26685    | 9.892  | ug/ml# | 60       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 26261    | 9.495  | ug/ml  | 100      |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 26218    | 9.816  | ug/ml  | 98       |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 29473    | 10.453 | ug/ml  | 99       |
| 47) | 2-Chloronaphthalene       | 6.417 | 162  | 86794    | 10.047 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 25996    | 9.154  | ug/ml  | 92       |
| 49) | 1,4-Dinitrobenzene        | 6.622 | 168  | 10359    | 8.876  | ug/ml  | 87       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 13050    | 9.454  | ug/ml  | 78       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 103784   | 10.212 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.775 | 152  | 143473   | 10.184 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.722 | 165  | 21141    | 9.940  | ug/ml# | 81       |
| 54) | 1,2-Dinitrobenzene        | 6.763 | 168  | 8248     | 9.822  | ug/ml  | 92       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 25555    | 10.050 | ug/ml  | 85       |
| 65) | Acenaphthene              | 6.928 | 154  | 88351    | 10.396 | ug/ml  | 98       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 8607     | 10.022 | ug/ml# | 86       |
| 67) | Dibenzofuran              | 7.075 | 168  | 129326   | 10.140 | ug/ml  | 90       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 28087    | 10.065 | ug/ml# | 79       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 16679    | 9.874  | ug/ml  | 91       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 23459    | 9.605  | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.186 | 232  | 25290    | 10.178 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.292 | 149  | 106654   | 10.010 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.368 | 166  | 102707   | 10.024 | ug/ml  | 96       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 47275    | 10.093 | ug/ml  | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL5.D  
 Acq On : 6 Oct 2019 7:55 pm  
 Operator : Buffy:ek  
 Sample : IL6,32,,ABNL10 Lot#8371  
 Misc : wg1293206,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:40:26 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:40:16 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.386  | 138  | 29052    | 10.055 | ug/ml  | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.415  | 198  | 12943    | 9.824  | ug/ml# | 85       |
| 77)  | NDPA/DPA                  | 7.480  | 169  | 92088    | 10.400 | ug/ml  | 97       |
| 78)  | Azobenzene                | 7.515  | 77   | 96966    | 10.216 | ug/ml# | 89       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 30069    | 10.559 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 7.850  | 284  | 35030    | 10.242 | ug/ml# | 88       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 20077    | 9.870  | ug/ml  | 99       |
| 89)  | Phenanthrene              | 8.197  | 178  | 158980   | 10.001 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.238  | 178  | 160138   | 10.056 | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.385  | 167  | 153877   | 10.138 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 190174   | 10.304 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.243  | 202  | 174712   | 9.935  | ug/ml# | 91       |
| 94)  | Benzidine                 | 9.378  | 184  | 117778   | 9.683  | ug/ml# | 92       |
| 95)  | Pyrene                    | 9.460  | 202  | 190309   | 10.231 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 84181    | 9.949  | ug/ml# | 79       |
| 105) | Benzo(a)anthracene        | 10.876 | 228  | 179456   | 10.013 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.870 | 252  | 69476    | 9.871  | ug/ml  | 96       |
| 107) | Chrysene                  | 10.929 | 228  | 182261   | 10.221 | ug/ml  | 96       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 129784   | 10.062 | ug/ml# | 96       |
| 109) | Di-n-octylphthalate       | 12.045 | 149  | 211336   | 9.281  | ug/ml  | 96       |
| 110) | Benzo(b)fluoranthene      | 12.498 | 252  | 190806   | 10.169 | ug/ml# | 94       |
| 111) | Benzo(k)fluoranthene      | 12.539 | 252  | 192066   | 10.320 | ug/ml# | 95       |
| 112) | Benzo(a)pyrene            | 13.009 | 252  | 181439   | 10.020 | ug/ml  | 96       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.819 | 276  | 179397   | 9.716  | ug/mL  | 94       |
| 115) | Dibenzo(a,h)anthracene    | 14.877 | 278  | 182997   | 9.882  | ug/ml  | 95       |
| 116) | Benzo(ghi)perylene        | 15.224 | 276  | 194200   | 10.041 | ug/ml# | 79       |

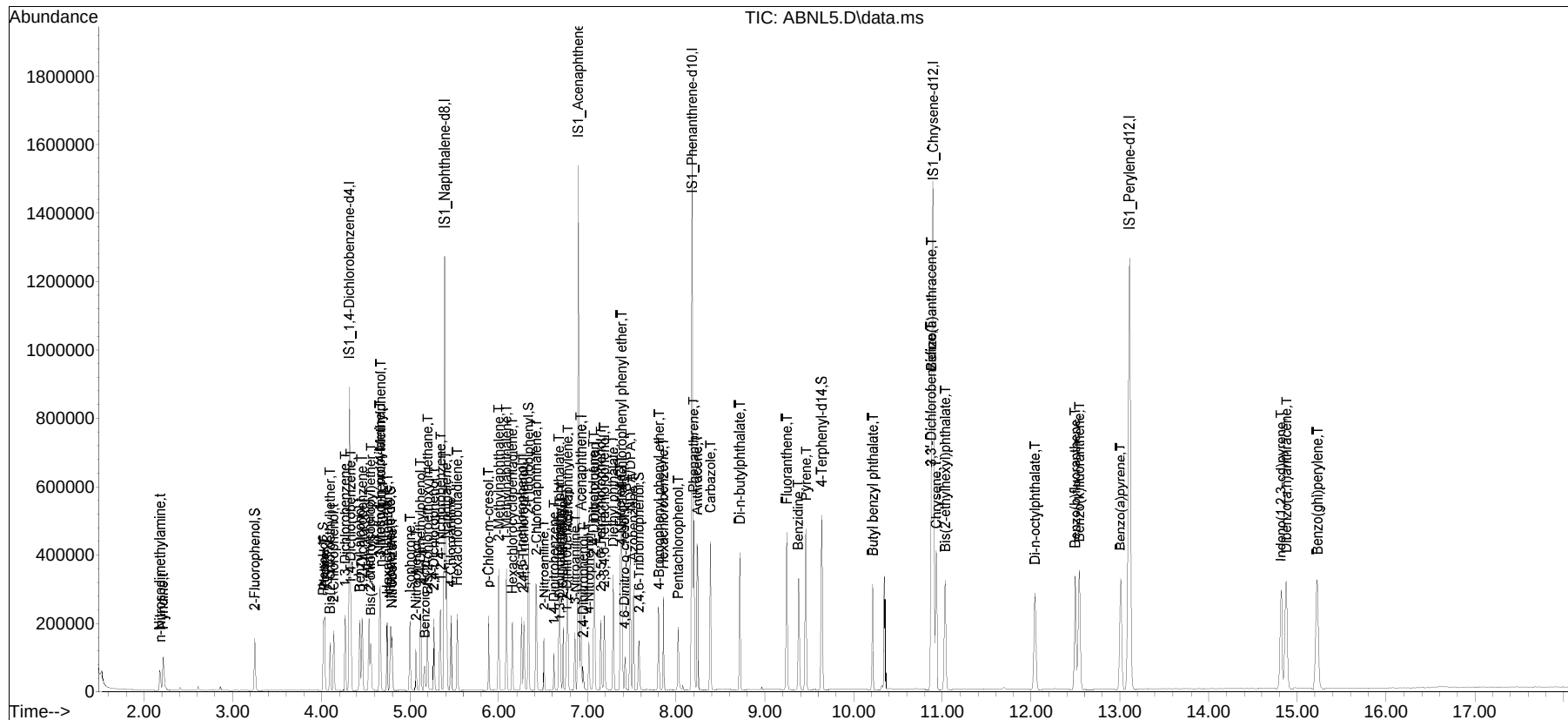
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL5.D  
Acq On : 6 Oct 2019 7:55 pm  
Operator : Buffy:ek  
Sample : IL6,32,,ABNL10 Lot#8371  
Misc : wg1293206,,  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 07 10:40:26 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 10:40:16 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ABNL5.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/6/2019 7:55 pm         | Instrument | : Buffy              |
| Sample     | : IL6,32,,ABNL10 Lot#8371   | Quant Date | : 10/7/2019 10:40 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL4.D  
 Acq On : 6 Oct 2019 8:18 pm  
 Operator : Buffy:ek  
 Sample : IL7,32,,ABNL5 Lot#8370  
 Misc : wg1293206,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:39:37 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:39:29 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 110517     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery = | 85.41%  |        |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 440636     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery = | 83.67%  |        |          |
| 63) IS1_Acenaphthene-d10      | 6.899          | 164  | 236610     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery = | 78.74%  |        |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 457940     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery = | 78.76%  |        |          |
| 104) IS1_Chrysene-d12         | 10.888         | 240  | 475609     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery = | 82.83%  |        |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 597968     | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery = | 86.66%  |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 17011      | 4.744   | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 9.49%#  |        |          |
| 7) Phenol-d6                  | 4.019          | 99   | 20494      | 4.800   | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 9.60%#  |        |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 20774      | 4.630   | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 18.52%# |        |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 51483      | 4.779   | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 19.12%# |        |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 6004       | 4.343   | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 8.69%#  |        |          |
| 96) 4-Terphenyl-d14           | 9.637          | 244  | 61421      | 4.816   | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 19.26%# |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.186          | 74   | 10233      | 4.794   | ug/ml# | 92       |
| 3) Pyridine                   | 2.216          | 79   | 17142      | 4.725   | ug/ml# | 80       |
| 5) Aniline                    | 4.043          | 93   | 27258      | 4.774   | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 4.137          | 128  | 18620      | 4.713   | ug/ml  | 99       |
| 8) Phenol                     | 4.031          | 94   | 23382      | 4.743   | ug/ml  | 98       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 16862      | 4.870   | ug/ml  | 92       |
| 10) 1,3-Dichlorobenzene       | 4.272          | 146  | 21834      | 4.918   | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 22891      | 4.991   | ug/ml  | 97       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 21586      | 4.870   | ug/ml  | 92       |
| 13) Benzyl alcohol            | 4.431          | 79   | 13250      | 4.676   | ug/ml  | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 22843      | 4.822   | ug/ml# | 78       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL4.D  
 Acq On : 6 Oct 2019 8:18 pm  
 Operator : Buffy:ek  
 Sample : IL7,32,,ABNL5 Lot#8370  
 Misc : wg1293206,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:39:37 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:39:29 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.537 | 108  | 16742    | 4.817 | ug/ml  | 99       |
| 16) | Hexachloroethane          | 4.742 | 117  | 8490     | 4.878 | ug/ml# | 67       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 11489    | 4.694 | ug/ml  | 97       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 17141    | 4.681 | ug/ml  | 99       |
| 20) | Nitrobenzene              | 4.795 | 77   | 16736    | 4.559 | ug/ml  | 95       |
| 21) | Isophorone                | 5.001 | 82   | 30909    | 4.532 | ug/ml  | 98       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 8481     | 4.511 | ug/ml  | 92       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 17328    | 4.761 | ug/ml  | 98       |
| 24) | Bis(2-chloroethoxy)met... | 5.195 | 93   | 21488    | 4.679 | ug/ml# | 95       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 14973    | 4.538 | ug/ml# | 92       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 17173    | 4.743 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.406 | 128  | 57459    | 4.793 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.153 | 105  | 5878     | 6.252 | ug/ml  | 96       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 5579     | 4.482 | ug/ml  | 77       |
| 39) | Hexachlorobutadiene       | 5.529 | 225  | 9463     | 4.914 | ug/ml  | 96       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 14562    | 4.616 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 37965    | 4.785 | ug/ml  | 95       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 11331    | 4.804 | ug/ml# | 64       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 10312    | 4.264 | ug/ml  | 95       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 10315    | 4.417 | ug/ml  | 98       |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 11564    | 4.691 | ug/ml  | 98       |
| 47) | 2-Chloronaphthalene       | 6.417 | 162  | 34940    | 4.626 | ug/ml  | 94       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 10414    | 4.194 | ug/ml  | 89       |
| 49) | 1,4-Dinitrobenzene        | 6.622 | 168  | 3797     | 3.721 | ug/ml  | 87       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 4494     | 3.724 | ug/ml  | 89       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 40637    | 4.573 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.775 | 152  | 57538    | 4.671 | ug/ml  | 96       |
| 53) | 2,6-Dinitrotoluene        | 6.722 | 165  | 7438     | 4.000 | ug/ml# | 84       |
| 54) | 1,2-Dinitrobenzene        | 6.763 | 168  | 2976     | 4.053 | ug/ml  | 97       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 9623     | 4.455 | ug/ml# | 86       |
| 65) | Acenaphthene              | 6.928 | 154  | 34545    | 4.785 | ug/ml  | 98       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 2361     | 5.571 | ug/ml  | 93       |
| 67) | Dibenzofuran              | 7.075 | 168  | 51087    | 4.715 | ug/ml  | 89       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 9915     | 4.182 | ug/ml  | 86       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 6280     | 4.377 | ug/ml  | 90       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 9280     | 4.473 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.186 | 232  | 9596     | 4.546 | ug/ml  | 97       |
| 72) | Diethyl phthalate         | 7.292 | 149  | 42206    | 4.663 | ug/ml  | 100      |
| 73) | Fluorene                  | 7.369 | 166  | 42422    | 4.874 | ug/ml  | 99       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 18293    | 4.597 | ug/ml  | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL4.D  
 Acq On : 6 Oct 2019 8:18 pm  
 Operator : Buffy:ek  
 Sample : IL7,32,,ABNL5 Lot#8370  
 Misc : wg1293206,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:39:37 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:39:29 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.386  | 138  | 10860    | 4.424 | ug/ml  | 92       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.421  | 198  | 4331     | 5.541 | ug/ml  | 96       |
| 77)  | NDPA/DPA                  | 7.480  | 169  | 35536    | 4.724 | ug/ml  | 98       |
| 78)  | Azobenzene                | 7.515  | 77   | 38039    | 4.717 | ug/ml# | 91       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 11310    | 4.675 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 7.850  | 284  | 13497    | 4.645 | ug/ml# | 85       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 6960     | 4.028 | ug/ml  | 99       |
| 89)  | Phenanthrene              | 8.197  | 178  | 65702    | 4.908 | ug/ml  | 96       |
| 90)  | Anthracene                | 8.238  | 178  | 64145    | 4.783 | ug/ml  | 96       |
| 91)  | Carbazole                 | 8.385  | 167  | 61611    | 4.820 | ug/ml  | 97       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 70787    | 4.554 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.243  | 202  | 71355    | 4.818 | ug/ml# | 91       |
| 94)  | Benzidine                 | 9.378  | 184  | 47099    | 4.598 | ug/ml# | 92       |
| 95)  | Pyrene                    | 9.454  | 202  | 76734    | 4.898 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 30167    | 4.234 | ug/ml# | 83       |
| 105) | Benzo(a)anthracene        | 10.876 | 228  | 72936    | 4.650 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.870 | 252  | 26834    | 4.356 | ug/ml  | 99       |
| 107) | Chrysene                  | 10.923 | 228  | 75431    | 4.833 | ug/ml  | 96       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 47557    | 4.213 | ug/ml# | 96       |
| 109) | Di-n-octylphthalate       | 12.040 | 149  | 73618    | 3.694 | ug/ml  | 100      |
| 110) | Benzo(b)fluoranthene      | 12.492 | 252  | 77445    | 4.716 | ug/ml  | 95       |
| 111) | Benzo(k)fluoranthene      | 12.539 | 252  | 78313    | 4.808 | ug/ml# | 94       |
| 112) | Benzo(a)pyrene            | 13.003 | 252  | 75315    | 4.752 | ug/ml# | 94       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.813 | 276  | 72804    | 4.401 | ug/mL  | 95       |
| 115) | Dibenzo(a,h)anthracene    | 14.872 | 278  | 78238    | 4.715 | ug/ml  | 94       |
| 116) | Benzo(ghi)perylene        | 15.218 | 276  | 80503    | 4.645 | ug/ml# | 80       |

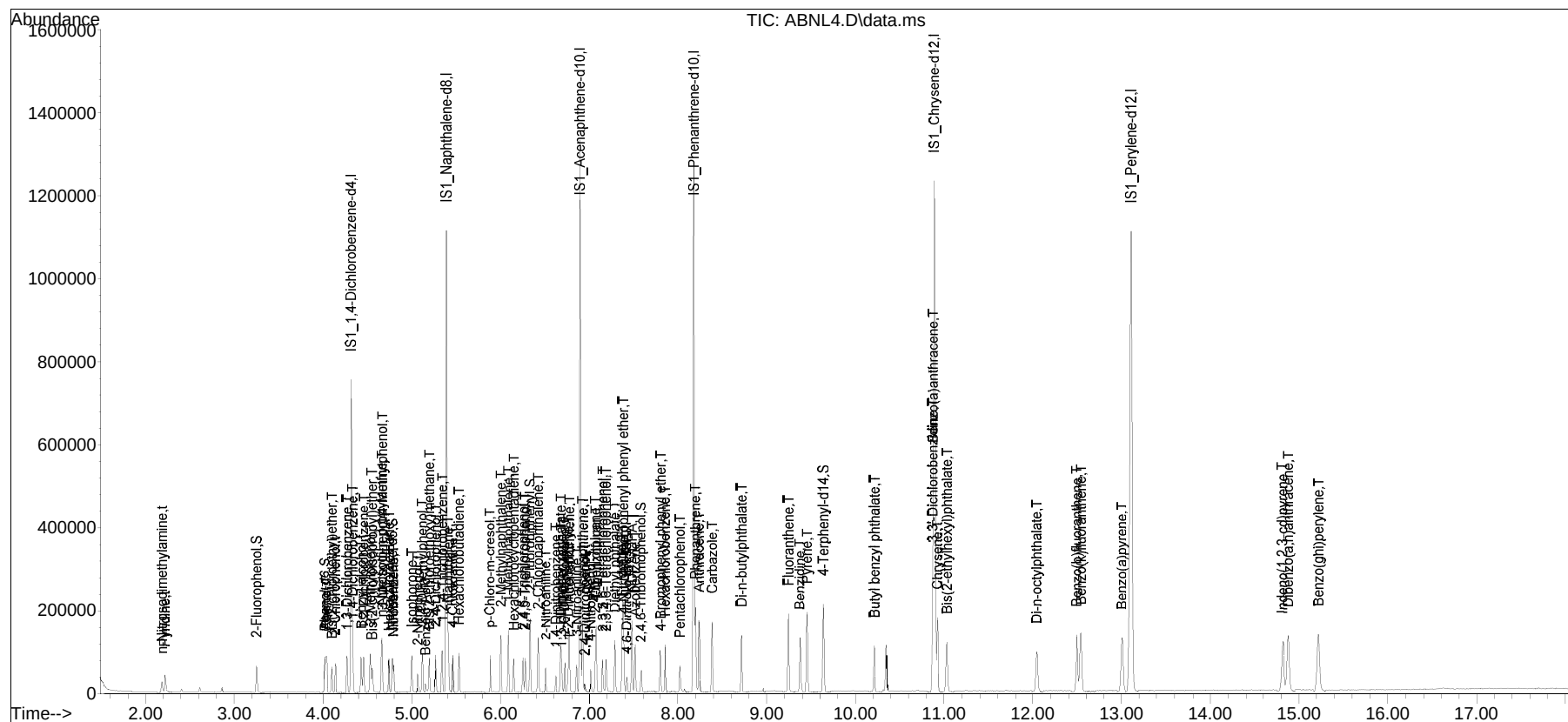
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL4.D  
Acq On : 6 Oct 2019 8:18 pm  
Operator : Buffy:ek  
Sample : IL7,32,,ABNL5 Lot#8370  
Misc : wg1293206,,  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 07 10:39:37 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 10:39:29 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•





# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ABNL4.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/6/2019 8:18 pm         | Instrument | : Buffy              |
| Sample     | : IL7,32,,ABNL5 Lot#8370    | Quant Date | : 10/7/2019 10:39 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL3.D  
 Acq On : 6 Oct 2019 8:42 pm  
 Operator : Buffy:ek  
 Sample : IL8,32,,ABNL3 Lot#8369  
 Misc : wg1293206,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:11:05 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|---------|----------|
| -----                         |                |      |          |        |         |          |
| Internal Standards            |                |      |          |        |         |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 109800   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery | =      | 84.85%  |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 435842   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =      | 82.76%  |          |
| 63) IS1_Acenaphthene-d10      | 6.898          | 164  | 236347   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =      | 78.66%  |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 461956   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =      | 79.45%  |          |
| 104) IS1_Chrysene-d12         | 10.888         | 240  | 454022   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery | =      | 79.07%  |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 560943   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =      | 81.30%  |          |
| System Monitoring Compounds   |                |      |          |        |         |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 11320    | 3.225  | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 6.45%#  |          |
| 7) Phenol-d6                  | 4.019          | 99   | 12943    | 3.123  | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 6.25%#  |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 13342    | 3.055  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 12.22%# |          |
| 46) 2-Fluorobiphenyl          | 6.328          | 172  | 32557    | 3.124  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 12.50%# |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 4028     | 2.815  | ug/ml   | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 5.63%#  |          |
| 96) 4-Terphenyl-d14           | 9.636          | 244  | 37945    | 2.997  | ug/ml   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 11.99%# |          |
| Target Compounds              |                |      |          |        |         |          |
|                               |                |      |          |        |         | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.186          | 74   | 6788     | 3.318  | ug/ml#  | 90       |
| 3) Pyridine                   | 2.221          | 79   | 11607    | 3.348  | ug/ml   | 87       |
| 5) Aniline                    | 4.043          | 93   | 17947    | 3.242  | ug/ml   | 97       |
| 6) 2-Chlorophenol             | 4.143          | 128  | 12414    | 3.207  | ug/ml   | 97       |
| 8) Phenol                     | 4.031          | 94   | 14917    | 3.105  | ug/ml   | 99       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 10887    | 3.343  | ug/ml   | 90       |
| 10) 1,3-Dichlorobenzene       | 4.272          | 146  | 13947    | 3.250  | ug/ml   | 93       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 14495    | 3.318  | ug/ml   | 97       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 14121    | 3.377  | ug/ml   | 93       |
| 13) Benzyl alcohol            | 4.431          | 79   | 8170     | 2.972  | ug/ml   | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 14631    | 3.206  | ug/ml#  | 61       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL3.D  
 Acq On : 6 Oct 2019 8:42 pm  
 Operator : Buffy:ek  
 Sample : IL8,32,,ABNL3 Lot#8369  
 Misc : wg1293206,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:11:05 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.536 | 108  | 10288    | 3.036 | ug/ml  | 95       |
| 16) | Hexachloroethane          | 4.742 | 117  | 5647     | 3.416 | ug/ml# | 70       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 7455     | 3.110 | ug/ml  | 97       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 10767    | 2.979 | ug/ml  | 97       |
| 20) | Nitrobenzene              | 4.795 | 77   | 11244    | 3.130 | ug/ml  | 99       |
| 21) | Isophorone                | 5.001 | 82   | 20674    | 3.101 | ug/ml  | 99       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 4740     | 2.400 | ug/ml  | 94       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 10684    | 3.044 | ug/ml  | 94       |
| 24) | Bis(2-chloroethoxy)met... | 5.194 | 93   | 14150    | 3.145 | ug/ml# | 96       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 9708     | 2.901 | ug/ml  | 92       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 11070    | 3.223 | ug/ml  | 99       |
| 36) | Naphthalene               | 5.406 | 128  | 37411    | 3.229 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.153 | 105  | 3420     | 1.321 | ug/ml# | 80       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 3798     | 3.182 | ug/ml  | 86       |
| 39) | Hexachlorobutadiene       | 5.529 | 225  | 5744     | 3.187 | ug/ml  | 98       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 9211     | 2.904 | ug/ml  | 91       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 24397    | 3.125 | ug/ml# | 94       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 7477     | 3.312 | ug/ml# | 73       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 6704     | 2.732 | ug/ml  | 96       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 6548     | 2.779 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 7015     | 2.784 | ug/ml  | 94       |
| 47) | 2-Chloronaphthalene       | 6.417 | 162  | 22929    | 3.090 | ug/ml  | 94       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 6367     | 2.467 | ug/ml  | 92       |
| 49) | 1,4-Dinitrobenzene        | 6.622 | 168  | 2236     | 2.127 | ug/ml  | 98       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 2851     | 2.328 | ug/ml  | 85       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 26505    | 2.955 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.775 | 152  | 36235    | 2.902 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.722 | 165  | 4921     | 2.492 | ug/ml# | 80       |
| 54) | 1,2-Dinitrobenzene        | 6.763 | 168  | 1762     | 2.289 | ug/ml  | 79       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 6004     | 2.687 | ug/ml# | 83       |
| 65) | Acenaphthene              | 6.928 | 154  | 22509    | 3.300 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 1360     | 1.421 | ug/ml# | 65       |
| 67) | Dibenzofuran              | 7.075 | 168  | 34114    | 3.266 | ug/ml  | 90       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 6268     | 2.498 | ug/ml# | 84       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 4083     | 2.827 | ug/ml  | 92       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 6011     | 2.869 | ug/ml  | 97       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.192 | 232  | 6001     | 2.863 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.292 | 149  | 27906    | 3.131 | ug/ml  | 99       |
| 73) | Fluorene                  | 7.368 | 166  | 26424    | 3.106 | ug/ml  | 94       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 12404    | 3.198 | ug/ml  | 91       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL3.D  
 Acq On : 6 Oct 2019 8:42 pm  
 Operator : Buffy:ek  
 Sample : IL8,32,,ABNL3 Lot#8369  
 Misc : wg1293206,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:11:05 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.386  | 138  | 6746     | 2.621 | ug/ml  | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.421  | 198  | 2110     | 1.514 | ug/ml  | 94       |
| 77)  | NDPA/DPA                  | 7.480  | 169  | 22910    | 3.133 | ug/ml  | 96       |
| 78)  | Azobenzene                | 7.515  | 77   | 25284    | 3.187 | ug/ml# | 91       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 7290     | 3.017 | ug/ml  | 91       |
| 81)  | Hexachlorobenzene         | 7.850  | 284  | 9026     | 3.216 | ug/ml# | 86       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 4144     | 2.234 | ug/ml  | 95       |
| 89)  | Phenanthrene              | 8.197  | 178  | 43134    | 3.349 | ug/ml  | 96       |
| 90)  | Anthracene                | 8.238  | 178  | 41210    | 3.109 | ug/ml  | 97       |
| 91)  | Carbazole                 | 8.385  | 167  | 39097    | 3.084 | ug/ml  | 97       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 45064    | 2.778 | ug/ml  | 98       |
| 93)  | Fluoranthene              | 9.243  | 202  | 46251    | 3.154 | ug/ml# | 92       |
| 94)  | Benzidine                 | 9.378  | 184  | 27971    | 2.679 | ug/ml# | 91       |
| 95)  | Pyrene                    | 9.460  | 202  | 48075    | 3.125 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 18075    | 2.399 | ug/ml  | 86       |
| 105) | Benzo(a)anthracene        | 10.876 | 228  | 45147    | 3.075 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.870 | 252  | 16300    | 2.698 | ug/ml  | 99       |
| 107) | Chrysene                  | 10.923 | 228  | 46978    | 3.274 | ug/ml  | 96       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 28612    | 2.414 | ug/ml# | 93       |
| 109) | Di-n-octylphthalate       | 12.045 | 149  | 41695    | 2.044 | ug/ml# | 96       |
| 110) | Benzo(b)fluoranthene      | 12.492 | 252  | 46195    | 2.945 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.539 | 252  | 45272    | 2.938 | ug/ml# | 95       |
| 112) | Benzo(a)pyrene            | 13.009 | 252  | 43668    | 2.831 | ug/ml# | 94       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.819 | 276  | 43079    | 2.729 | ug/mL  | 94       |
| 115) | Dibenzo(a,h)anthracene    | 14.872 | 278  | 44172    | 2.807 | ug/ml  | 94       |
| 116) | Benzo(ghi)perylene        | 15.218 | 276  | 47514    | 2.898 | ug/ml# | 80       |

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

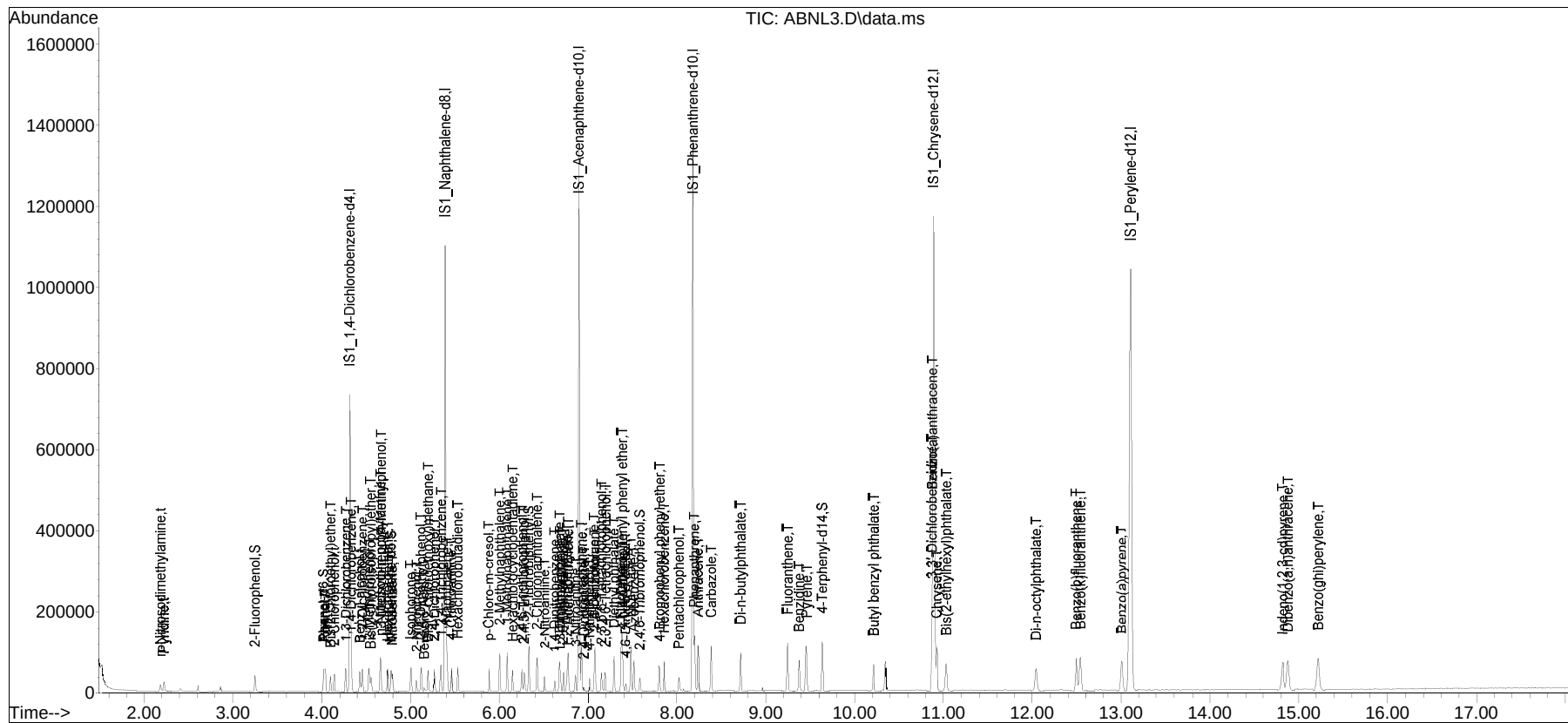
# Quantitation Report

(QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL3.D  
Acq On : 6 Oct 2019 8:42 pm  
Operator : Buffy:ek  
Sample : IL8,32,,ABNL3 Lot#8369  
Misc : wg1293206,,  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 07 10:11:05 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:47:15 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublista\ABNL7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : ABNL3.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 8:42 pm         | Instrument | : Buffy             |
| Sample     | : IL8,32,,ABNL3 Lot#8369    | Quant Date | : 10/7/2019 9:50 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL2.D  
 Acq On : 6 Oct 2019 9:05 pm  
 Operator : Buffy:ek  
 Sample : IL9,32,,ABNL2 Lot#8368  
 Misc : wg1293206,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 10:08:22 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|--------|----------|
| -----                         |                |      |          |        |        |          |
| Internal Standards            |                |      |          |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 102400   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery | =      | 79.13% |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 421221   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery | =      | 79.98% |          |
| 63) IS1_Acenaphthene-d10      | 6.898          | 164  | 229613   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery | =      | 76.42% |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 449155   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery | =      | 77.25% |          |
| 104) IS1_Chrysene-d12         | 10.888         | 240  | 444711   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery | =      | 77.45% |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 562553   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery | =      | 81.53% |          |
| System Monitoring Compounds   |                |      |          |        |        |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 7098     | 2.168  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 4.34%# |          |
| 7) Phenol-d6                  | 4.019          | 99   | 8261     | 2.137  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 4.27%# |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 8762     | 2.151  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 8.60%# |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 21364    | 2.121  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 8.48%# |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 2444     | 1.758  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 3.52%# |          |
| 96) 4-Terphenyl-d14           | 9.636          | 244  | 26542    | 2.156  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 8.62%# |          |
| Target Compounds              |                |      |          |        |        |          |
|                               |                |      |          |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.186          | 74   | 4242     | 2.223  | ug/ml# | 90       |
| 3) Pyridine                   | 2.221          | 79   | 7521     | 2.326  | ug/ml# | 82       |
| 5) Aniline                    | 4.043          | 93   | 10777    | 2.088  | ug/ml  | 97       |
| 6) 2-Chlorophenol             | 4.137          | 128  | 7674     | 2.126  | ug/ml  | 96       |
| 8) Phenol                     | 4.025          | 94   | 9976     | 2.226  | ug/ml  | 98       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 7214     | 2.375  | ug/ml  | 95       |
| 10) 1,3-Dichlorobenzene       | 4.266          | 146  | 8769     | 2.191  | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 9210     | 2.261  | ug/ml  | 94       |
| 12) 1,2-Dichlorobenzene       | 4.454          | 146  | 9018     | 2.313  | ug/ml  | 92       |
| 13) Benzyl alcohol            | 4.431          | 79   | 5618     | 2.191  | ug/ml  | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 9532     | 2.239  | ug/ml# | 82       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL2.D  
 Acq On : 6 Oct 2019 9:05 pm  
 Operator : Buffy:ek  
 Sample : IL9,32,,ABNL2 Lot#8368  
 Misc : wg1293206,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 10:08:22 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.536 | 108  | 6677     | 2.113 | ug/ml  | 99       |
| 16) | Hexachloroethane          | 4.742 | 117  | 3303     | 2.142 | ug/ml# | 62       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 4721     | 2.112 | ug/ml# | 88       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 6963     | 2.066 | ug/ml  | 95       |
| 20) | Nitrobenzene              | 4.795 | 77   | 7140     | 2.131 | ug/ml  | 95       |
| 21) | Isophorone                | 5.001 | 82   | 13536    | 2.177 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 3326     | 1.806 | ug/ml  | 95       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 7186     | 2.195 | ug/ml  | 95       |
| 24) | Bis(2-chloroethoxy)met... | 5.195 | 93   | 9073     | 2.162 | ug/ml# | 94       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 5868     | 1.880 | ug/ml  | 92       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 7183     | 2.243 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.406 | 128  | 24256    | 2.167 | ug/ml  | 98       |
| 37) | Benzoic Acid              | 5.153 | 105  | 814      | 0.325 | ug/ml  | 91       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 2670     | 2.315 | ug/ml  | 98       |
| 39) | Hexachlorobutadiene       | 5.529 | 225  | 4270     | 2.451 | ug/ml  | 91       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 6005     | 1.959 | ug/ml  | 92       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 15222    | 2.018 | ug/ml  | 93       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 4804     | 2.202 | ug/ml# | 62       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 4375     | 1.845 | ug/ml  | 97       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 4246     | 1.865 | ug/ml  | 97       |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 4586     | 1.883 | ug/ml  | 95       |
| 47) | 2-Chloronaphthalene       | 6.417 | 162  | 15066    | 2.101 | ug/ml  | 93       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 4129     | 1.656 | ug/ml  | 95       |
| 49) | 1,4-Dinitrobenzene        | 6.622 | 168  | 1448     | 1.425 | ug/ml  | 98       |
| 50) | 1,3-Dinitrobenzene        | 6.687 | 168  | 1595     | 1.347 | ug/ml  | 97       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 17987    | 2.075 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.775 | 152  | 23905    | 1.981 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.722 | 165  | 3086     | 1.617 | ug/ml# | 82       |
| 54) | 1,2-Dinitrobenzene        | 6.763 | 168  | 1281     | 1.722 | ug/ml  | 97       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 3792     | 1.747 | ug/ml# | 86       |
| 65) | Acenaphthene              | 6.928 | 154  | 15404    | 2.325 | ug/ml  | 96       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 686      | 0.738 | ug/ml# | 43       |
| 67) | Dibenzofuran              | 7.075 | 168  | 22948    | 2.262 | ug/ml# | 85       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 3669     | 1.505 | ug/ml  | 95       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 2617     | 1.865 | ug/ml  | 94       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 3630     | 1.783 | ug/ml  | 93       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.186 | 232  | 3831     | 1.882 | ug/ml  | 89       |
| 72) | Diethyl phthalate         | 7.292 | 149  | 17939    | 2.071 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.368 | 166  | 16655    | 2.015 | ug/ml  | 94       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 8620     | 2.287 | ug/ml# | 85       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL2.D  
 Acq On : 6 Oct 2019 9:05 pm  
 Operator : Buffy:ek  
 Sample : IL9,32,,ABNL2 Lot#8368  
 Misc : wg1293206,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 07 10:08:22 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.386  | 138  | 3933     | 1.573 | ug/ml  | 90       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.421  | 198  | 1321     | 0.975 | ug/ml# | 81       |
| 77)  | NDPA/DPA                  | 7.480  | 169  | 15281    | 2.151 | ug/ml  | 98       |
| 78)  | Azobenzene                | 7.515  | 77   | 16009    | 2.077 | ug/ml# | 89       |
| 80)  | 4-Bromophenyl phenyl e... | 7.797  | 248  | 4755     | 2.026 | ug/ml  | 91       |
| 81)  | Hexachlorobenzene         | 7.850  | 284  | 6140     | 2.252 | ug/ml# | 88       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 2749     | 1.526 | ug/ml  | 90       |
| 89)  | Phenanthrene              | 8.197  | 178  | 27620    | 2.206 | ug/ml  | 100      |
| 90)  | Anthracene                | 8.238  | 178  | 27198    | 2.110 | ug/ml  | 96       |
| 91)  | Carbazole                 | 8.385  | 167  | 25851    | 2.098 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 29887    | 1.895 | ug/ml# | 98       |
| 93)  | Fluoranthene              | 9.243  | 202  | 30431    | 2.135 | ug/ml# | 92       |
| 94)  | Benzidine                 | 9.378  | 184  | 17571    | 1.731 | ug/ml  | 96       |
| 95)  | Pyrene                    | 9.460  | 202  | 32043    | 2.142 | ug/ml  | 97       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 12349    | 1.686 | ug/ml# | 83       |
| 105) | Benzo(a)anthracene        | 10.876 | 228  | 29709    | 2.066 | ug/ml  | 97       |
| 106) | 3,3'-Dichlorobenzidine    | 10.870 | 252  | 10719    | 1.811 | ug/ml  | 96       |
| 107) | Chrysene                  | 10.923 | 228  | 30969    | 2.204 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 18195    | 1.567 | ug/ml# | 95       |
| 109) | Di-n-octylphthalate       | 12.045 | 149  | 26041    | 1.303 | ug/ml# | 98       |
| 110) | Benzo(b)fluoranthene      | 12.492 | 252  | 31699    | 2.063 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.539 | 252  | 30506    | 2.022 | ug/ml# | 95       |
| 112) | Benzo(a)pyrene            | 13.009 | 252  | 29945    | 1.982 | ug/ml# | 93       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.813 | 276  | 28901    | 1.826 | ug/mL  | 97       |
| 115) | Dibenzo(a,h)anthracene    | 14.872 | 278  | 30462    | 1.930 | ug/ml  | 94       |
| 116) | Benzo(ghi)perylene        | 15.218 | 276  | 31792    | 1.933 | ug/ml# | 79       |

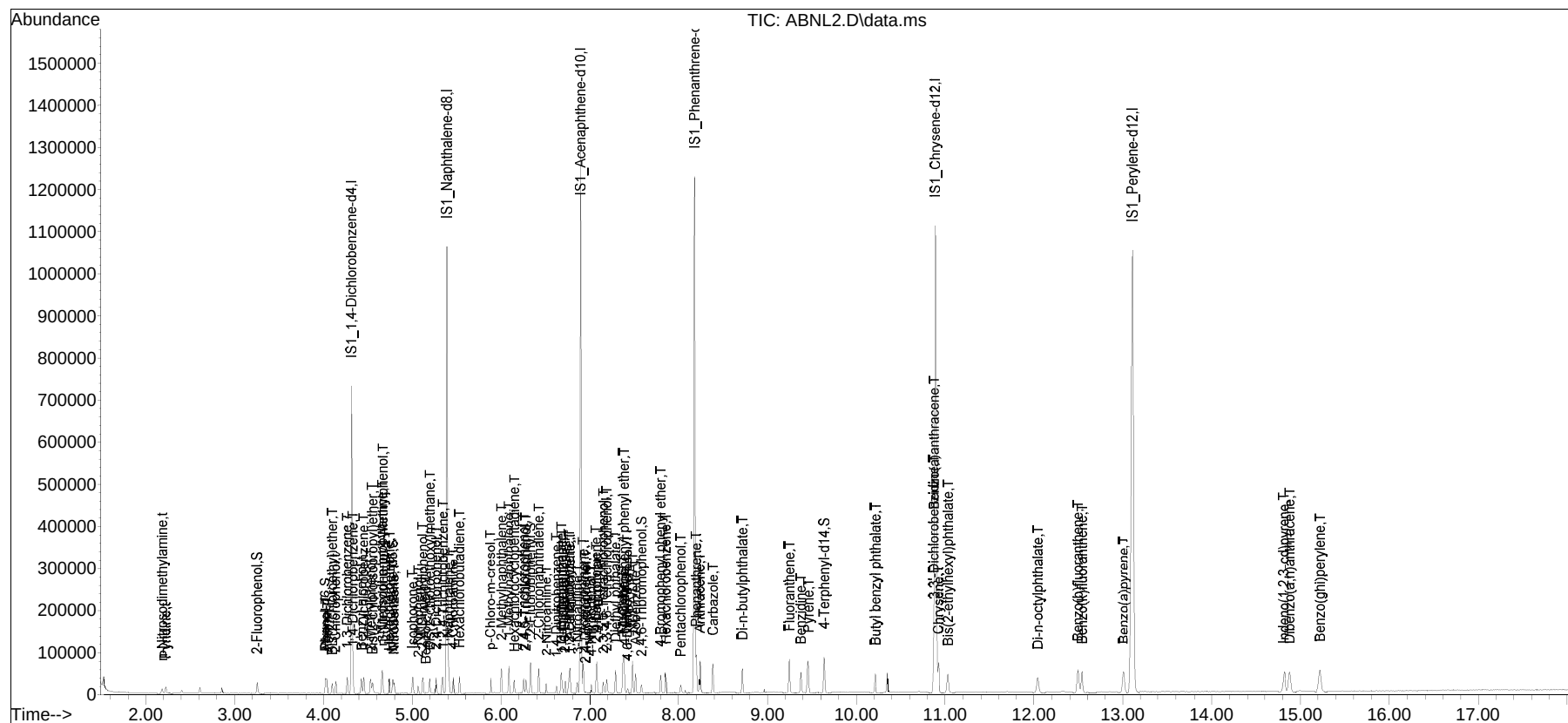
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL2.D  
Acq On    : 6 Oct 2019    9:05 pm  
Operator  : Buffy:ek  
Sample    : IL9,32,,ABNL2 Lot#8368  
Misc      : wg1293206,,  
ALS Vial  : 9    Sample Multiplier: 1
```

Quant Time: Oct 07 10:08:22 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:47:15 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : ABNL2.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 9:05 pm         | Instrument | : Buffy             |
| Sample     | : IL9,32,,ABNL2 Lot#8368    | Quant Date | : 10/7/2019 9:50 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL1.D  
 Acq On : 6 Oct 2019 9:28 pm  
 Operator : Buffy:ek  
 Sample : IL10,32,,ABNL1 Lot#8367  
 Misc : wg1293206,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 10:02:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 101413     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery = | 78.37% |        |          |
| 35) IS1_Naphthalene-d8        | 5.389          | 136  | 400377     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery = | 76.02% |        |          |
| 63) IS1_Acenaphthene-d10      | 6.899          | 164  | 212944     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery = | 70.87% |        |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 424201     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery = | 72.96% |        |          |
| 104) IS1_Chrysene-d12         | 10.888         | 240  | 422773     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery = | 73.62% |        |          |
| 113) IS1_Perylene-d12         | 13.103         | 264  | 530579     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery = | 76.90% |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 3121       | 0.963  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 1.93%# |        |          |
| 7) Phenol-d6                  | 4.020          | 99   | 3758       | 0.982  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 1.96%# |        |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 4270       | 1.059  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 4.24%# |        |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 10438      | 1.090  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 4.36%# |        |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 1205       | 0.935  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 1.87%# |        |          |
| 96) 4-Terphenyl-d14           | 9.637          | 244  | 11801      | 1.015  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 4.06%# |        |          |
| Target Compounds              |                |      |            |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.186          | 74   | 1966       | 1.040  | ug/ml# | 92       |
| 3) Pyridine                   | 2.227          | 79   | 3249       | 1.015  | ug/ml# | 79       |
| 5) Aniline                    | 4.043          | 93   | 5374       | 1.051  | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 4.137          | 128  | 3358       | 0.939  | ug/ml  | 98       |
| 8) Phenol                     | 4.025          | 94   | 4502       | 1.014  | ug/ml  | 95       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 3180       | 1.057  | ug/ml  | 87       |
| 10) 1,3-Dichlorobenzene       | 4.266          | 146  | 3960       | 0.999  | ug/ml  | 91       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 4183       | 1.037  | ug/ml# | 83       |
| 12) 1,2-Dichlorobenzene       | 4.460          | 146  | 4223       | 1.093  | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.431          | 79   | 2528       | 0.996  | ug/ml  | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 4532       | 1.075  | ug/ml# | 62       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL1.D  
 Acq On : 6 Oct 2019 9:28 pm  
 Operator : Buffy:ek  
 Sample : IL10,32,,ABNL1 Lot#8367  
 Misc : wg1293206,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 10:02:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.537 | 108  | 3170     | 1.013 | ug/ml# | 91       |
| 16) | Hexachloroethane          | 4.742 | 117  | 1752     | 1.147 | ug/ml# | 83       |
| 17) | n-Nitrosodi-n-propylamine | 4.666 | 70   | 2223     | 1.004 | ug/ml# | 58       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 3302     | 0.989 | ug/ml# | 96       |
| 20) | Nitrobenzene              | 4.795 | 77   | 3376     | 1.017 | ug/ml# | 87       |
| 21) | Isophorone                | 5.001 | 82   | 6002     | 0.975 | ug/ml# | 93       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 1430     | 0.784 | ug/ml# | 79       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 3059     | 0.944 | ug/ml  | 94       |
| 24) | Bis(2-chloroethoxy)met... | 5.195 | 93   | 3993     | 0.961 | ug/ml# | 86       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 2750     | 0.890 | ug/ml  | 93       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 3468     | 1.093 | ug/ml# | 93       |
| 36) | Naphthalene               | 5.406 | 128  | 11691    | 1.099 | ug/ml  | 98       |
| 37) | Benzoic Acid              | 0.000 |      | 0        | N.D.  |        |          |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 1233     | 1.125 | ug/ml  | 93       |
| 39) | Hexachlorobutadiene       | 5.530 | 225  | 1849     | 1.117 | ug/ml  | 94       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 2789     | 0.957 | ug/ml# | 94       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 7252     | 1.011 | ug/ml# | 96       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 2292     | 1.105 | ug/ml# | 72       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 1879     | 0.834 | ug/ml# | 86       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 1778     | 0.822 | ug/ml  | 97       |
| 45) | 2,4,5-Trichlorophenol     | 6.282 | 196  | 1925     | 0.832 | ug/ml  | 89       |
| 47) | 2-Chloronaphthalene       | 6.417 | 162  | 6984     | 1.025 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 1995     | 0.842 | ug/ml  | 88       |
| 49) | 1,4-Dinitrobenzene        | 6.622 | 168  | 703      | 0.728 | ug/ml  | 88       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 792      | 0.704 | ug/ml  | 93       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 7667     | 0.931 | ug/ml# | 96       |
| 52) | Acenaphthylene            | 6.775 | 152  | 10780    | 0.940 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.722 | 165  | 1362     | 0.751 | ug/ml# | 82       |
| 54) | 1,2-Dinitrobenzene        | 6.758 | 168  | 503      | 0.711 | ug/ml  | 100      |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 1510     | 0.750 | ug/ml# | 96       |
| 65) | Acenaphthene              | 6.928 | 154  | 6799     | 1.106 | ug/ml  | 94       |
| 66) | 2,4-Dinitrophenol         | 0.000 |      | 0        | N.D.  |        |          |
| 67) | Dibenzofuran              | 7.075 | 168  | 10755    | 1.143 | ug/ml  | 90       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 1643     | 0.727 | ug/ml  | 94       |
| 69) | 4-Nitrophenol             | 7.016 | 65   | 1140     | 0.876 | ug/ml  | 93       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 1545     | 0.818 | ug/ml  | 97       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.192 | 232  | 1592     | 0.843 | ug/ml  | 94       |
| 72) | Diethyl phthalate         | 7.292 | 149  | 8503     | 1.059 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.369 | 166  | 8251     | 1.076 | ug/ml  | 98       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 3642     | 1.042 | ug/ml  | 87       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNL1.D  
 Acq On : 6 Oct 2019 9:28 pm  
 Operator : Buffy:ek  
 Sample : IL10,32,,ABNL1 Lot#8367  
 Misc : wg1293206,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 10:02:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.386  | 138  | 1758     | 0.758 | ug/ml  | 94       |
| 76)  | 4,6-Dinitro-o-cresol      | 0.000  |      | 0        | N.D.  |        |          |
| 77)  | NDPA/DPA                  | 7.480  | 169  | 6952     | 1.055 | ug/ml  | 97       |
| 78)  | Azobenzene                | 7.516  | 77   | 7331     | 1.026 | ug/ml# | 92       |
| 80)  | 4-Bromophenyl phenyl e... | 7.798  | 248  | 2099     | 0.964 | ug/ml  | 87       |
| 81)  | Hexachlorobenzene         | 7.850  | 284  | 2825     | 1.117 | ug/ml# | 83       |
| 82)  | Pentachlorophenol         | 8.027  | 266  | 992      | 0.594 | ug/ml# | 56       |
| 89)  | Phenanthrene              | 8.197  | 178  | 13431    | 1.136 | ug/ml  | 96       |
| 90)  | Anthracene                | 8.238  | 178  | 12760    | 1.048 | ug/ml  | 95       |
| 91)  | Carbazole                 | 8.385  | 167  | 11940    | 1.026 | ug/ml  | 97       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 13404    | 0.900 | ug/ml# | 98       |
| 93)  | Fluoranthene              | 9.243  | 202  | 13531    | 1.005 | ug/ml  | 94       |
| 94)  | Benzidine                 | 9.378  | 184  | 7518     | 0.784 | ug/ml# | 95       |
| 95)  | Pyrene                    | 9.454  | 202  | 14762    | 1.045 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 5612     | 0.811 | ug/ml# | 81       |
| 105) | Benzo(a)anthracene        | 10.876 | 228  | 14898    | 1.090 | ug/ml  | 96       |
| 106) | 3,3'-Dichlorobenzidine    | 10.870 | 252  | 4567     | 0.812 | ug/ml# | 89       |
| 107) | Chrysene                  | 10.923 | 228  | 15592    | 1.167 | ug/ml  | 97       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 7813     | 0.708 | ug/ml# | 92       |
| 109) | Di-n-octylphthalate       | 12.040 | 149  | 11131    | 0.586 | ug/ml# | 83       |
| 110) | Benzo(b)fluoranthene      | 12.492 | 252  | 14728    | 1.008 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.539 | 252  | 14430    | 1.006 | ug/ml  | 95       |
| 112) | Benzo(a)pyrene            | 13.009 | 252  | 13311    | 0.927 | ug/ml# | 94       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.813 | 276  | 13409    | 0.898 | ug/mL  | 95       |
| 115) | Dibenzo(a,h)anthracene    | 14.872 | 278  | 13763    | 0.925 | ug/ml# | 92       |
| 116) | Benzo(ghi)perylene        | 15.213 | 276  | 14410    | 0.929 | ug/ml# | 80       |

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

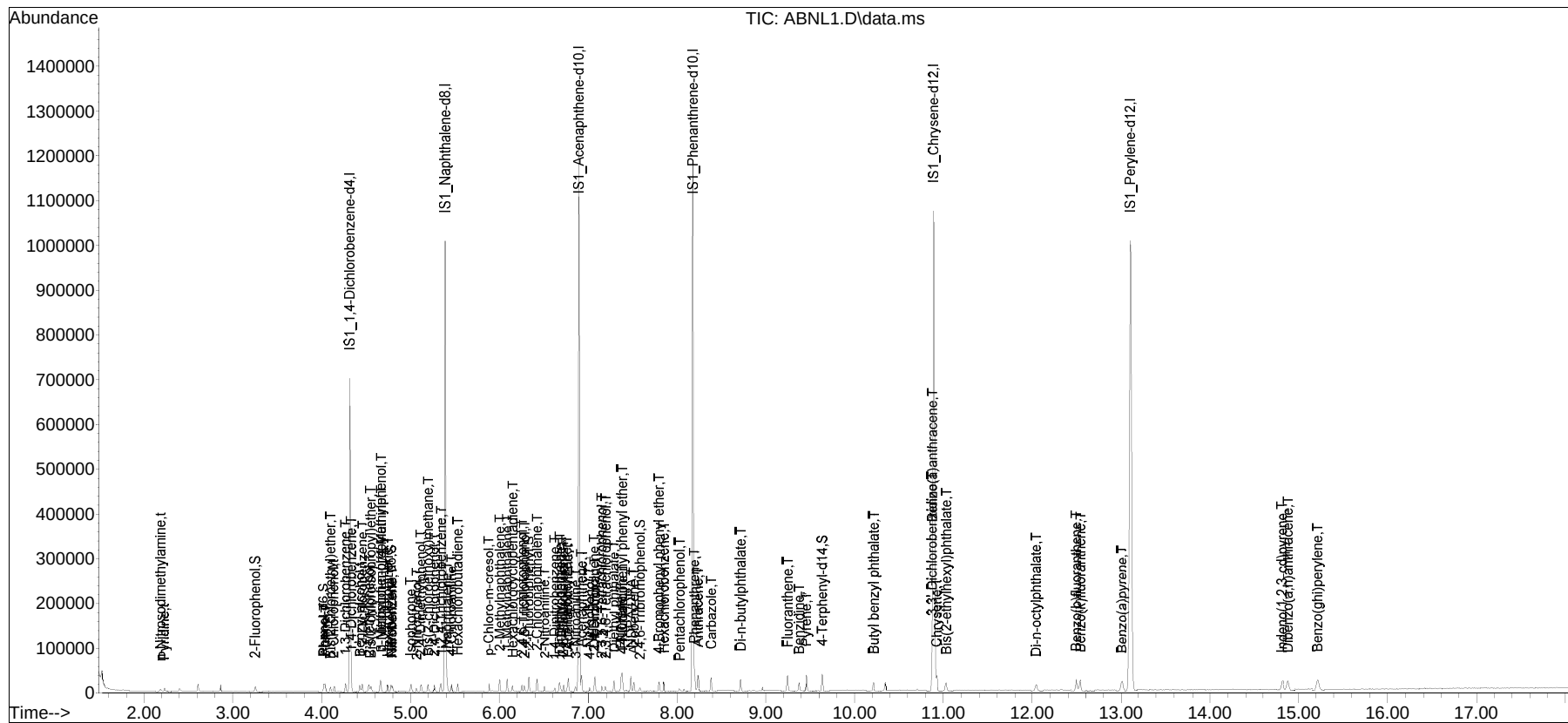
# Quantitation Report

(QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNL1.D  
Acq On : 6 Oct 2019 9:28 pm  
Operator : Buffy:ek  
Sample : IL10,32,,ABNL1 Lot#8367  
Misc : wg1293206,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 07 10:02:59 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:47:15 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublista\ABNL7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : ABNL1.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 9:28 pm         | Instrument | : Buffy             |
| Sample     | : IL10,32,,ABNL1 Lot#8367   | Quant Date | : 10/7/2019 9:49 am |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L10.D  
 Acq On : 6 Oct 2019 9:51 pm  
 Operator : Buffy:ek  
 Sample : IL11,32,,AP9L200 Lot#8355  
 Misc : wg1293206,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 10:53:30 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 110325   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 95.98%  |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 461746   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 99.68%  |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 261752   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 105.20% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 526782   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 104.37% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 623972   | 197.890 | ug/ml  | 93     |
| 29) Acetophenone              | 4.654 | 105  | 1028140  | 205.033 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.724 | 106  | 1068301  | 204.301 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 995324   | 205.418 | ug/ml  | 99     |
| 56) a-Terpineol               | 5.435 | 59   | 557551   | 207.537 | ug/ml  | 89     |
| 57) 3-Chloroaniline           | 5.447 | 65   | 286662   | 203.068 | ug/ml  | 93     |
| 58) 2,6-Dichlorophenol        | 5.471 | 162  | 666165   | 204.948 | ug/ml# | 91     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 312789   | 210.415 | ug/ml  | 88     |
| 60) Caprolactam               | 5.741 | 55   | 331375   | 207.729 | ug/ml# | 78     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 712658   | 206.445 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.411 | 154  | 1882975  | 200.602 | ug/ml  | 99     |
| 84) Dichloran                 | 7.903 | 206  | 241184   | 222.042 | ug/ml# | 71     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 212740   | 206.066 | ug/ml# | 83     |
| 99) Diphenamid                | 8.972 | 167  | 1394961  | 197.171 | ug/ml# | 69     |

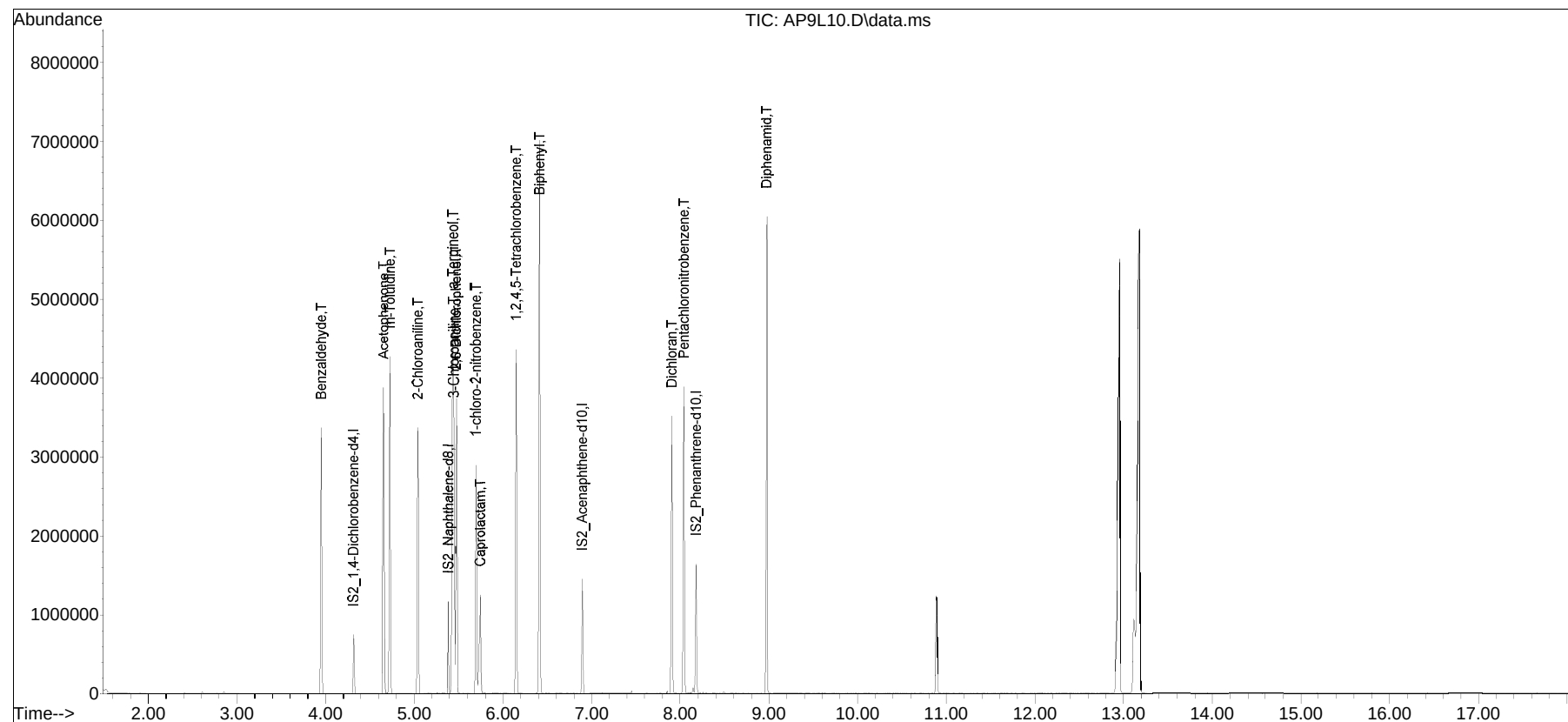
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L10.D  
 Acq On : 6 Oct 2019 9:51 pm  
 Operator : Buffy:ek  
 Sample : IL11,32,,AP9L200 Lot#8355  
 Misc : wg1293206,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 07 10:53:30 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : AP9L10.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 9:51 pm Instrument : Buffy  
Sample : IL11,32,,AP9L200 Lot#8355 Quant Date : 10/7/2019 9:51 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L9.D  
 Acq On : 6 Oct 2019 10:14 pm  
 Operator : Buffy:ek  
 Sample : IL12,32,,AP9L150 Lot#8364  
 Misc : wg1293206,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 10:59:31 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 113645   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 98.87%  |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 464798   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 100.34% |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 262021   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 105.30% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 531121   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 105.23% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 496462   | 152.851 | ug/ml  | 92     |
| 29) Acetophenone              | 4.654 | 105  | 805253   | 155.893 | ug/ml  | 94     |
| 30) m-Toluidine               | 4.724 | 106  | 845883   | 157.040 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 780476   | 156.371 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.429 | 59   | 422597   | 156.270 | ug/ml  | 90     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 221087   | 155.587 | ug/ml  | 89     |
| 58) 2,6-Dichlorophenol        | 5.471 | 162  | 524261   | 160.232 | ug/ml# | 90     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 241297   | 161.256 | ug/ml  | 88     |
| 60) Caprolactam               | 5.741 | 55   | 259808   | 161.796 | ug/ml# | 79     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 542706   | 156.181 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.411 | 154  | 1460040  | 154.523 | ug/ml  | 100    |
| 84) Dichloran                 | 7.903 | 206  | 189565   | 174.341 | ug/ml# | 71     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 164428   | 159.106 | ug/ml# | 83     |
| 99) Diphenamid                | 8.972 | 167  | 1113492  | 156.101 | ug/ml# | 68     |

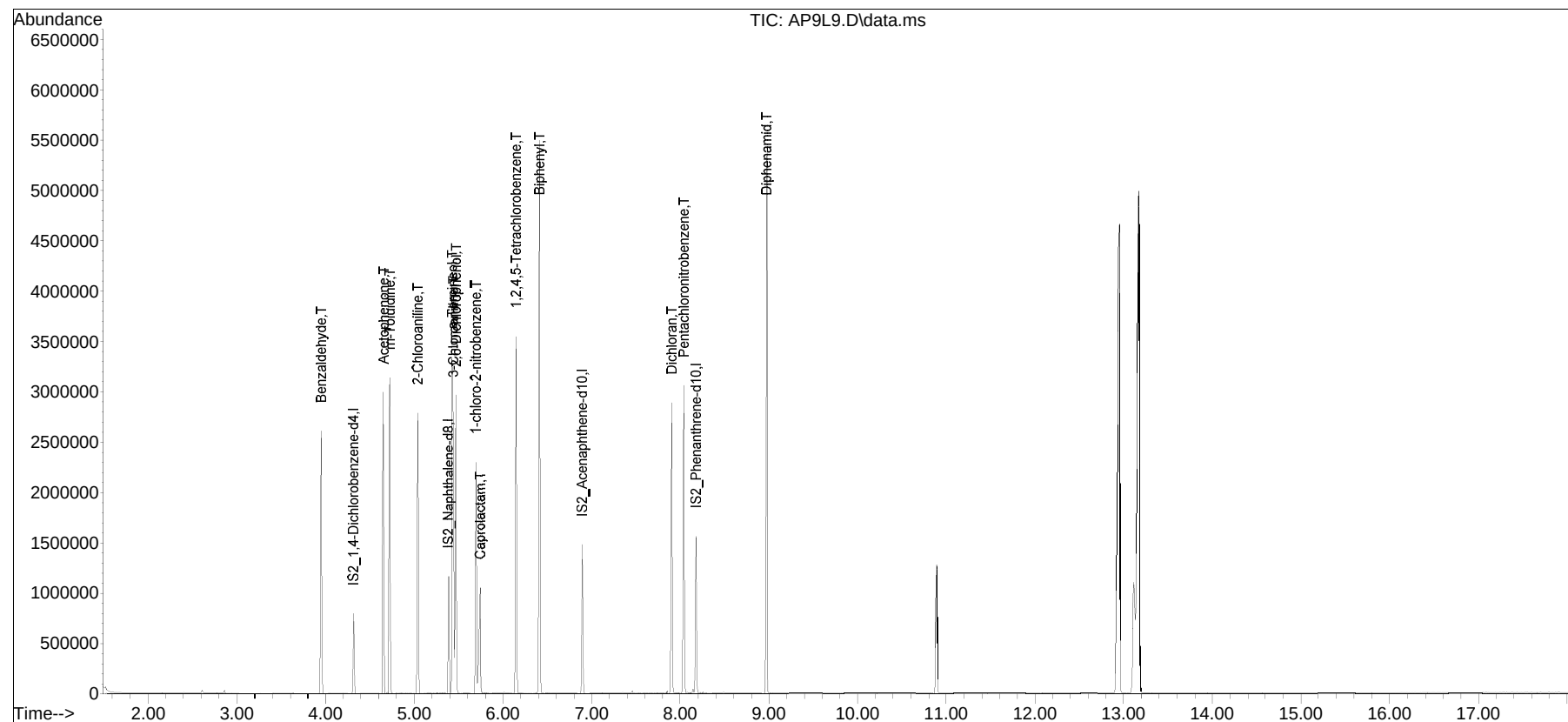
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L9.D  
 Acq On : 6 Oct 2019 10:14 pm  
 Operator : Buffy:ek  
 Sample : IL12,32,,AP9L150 Lot#8364  
 Misc : wg1293206,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 07 10:59:31 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : AP9L9.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 10:14 pm Instrument : Buffy  
Sample : IL12,32,,AP9L150 Lot#8364 Quant Date : 10/7/2019 9:52 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L8.D  
 Acq On : 6 Oct 2019 10:37 pm  
 Operator : Buffy:ek  
 Sample : IL13,32,,AP9L100 Lot#8363  
 Misc : wg1293206,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 07 10:58:46 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 120831   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 105.12% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 483202   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 104.32% |          |
| 83) IS2_Acenaphthene-d10      | 6.899 | 164  | 269155   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 108.17% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 539911   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 106.98% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 359992   | 104.243 | ug/ml  | 92     |
| 29) Acetophenone              | 4.654 | 105  | 579367   | 105.492 | ug/ml  | 94     |
| 30) m-Toluidine               | 4.719 | 106  | 611153   | 106.714 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 568597   | 107.145 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.430 | 59   | 306963   | 109.187 | ug/ml  | 89     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 157570   | 106.665 | ug/ml  | 90     |
| 58) 2,6-Dichlorophenol        | 5.471 | 162  | 367433   | 108.023 | ug/ml# | 90     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 172021   | 110.581 | ug/ml  | 87     |
| 60) Caprolactam               | 5.729 | 55   | 181655   | 108.818 | ug/ml# | 79     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 386701   | 107.047 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.411 | 154  | 1046902  | 106.579 | ug/ml  | 99     |
| 84) Dichloran                 | 7.903 | 206  | 130338   | 116.693 | ug/ml# | 70     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 115124   | 108.445 | ug/ml# | 82     |
| 99) Diphenamid                | 8.973 | 167  | 786333   | 108.442 | ug/ml# | 68     |

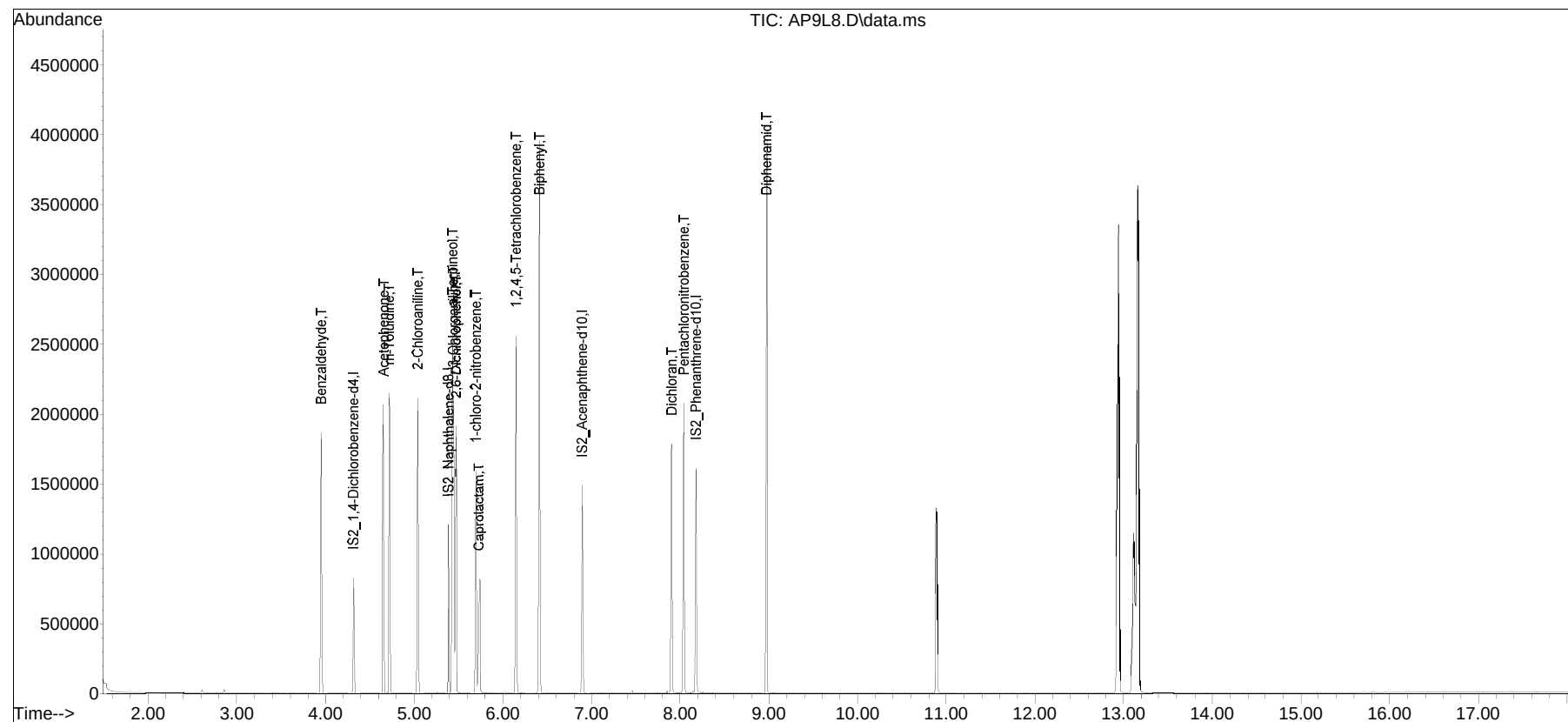
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L8.D  
 Acq On : 6 Oct 2019 10:37 pm  
 Operator : Buffy:ek  
 Sample : IL13,32,,AP9L100 Lot#8363  
 Misc : wg1293206,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 07 10:58:46 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•





# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : AP9L8.D Operator : Buffy:ek  
Date Inj'd : 10/6/2019 10:37 pm Instrument : Buffy  
Sample : IL13,32,,AP9L100 Lot#8363 Quant Date : 10/7/2019 9:52 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L7.D  
 Acq On : 6 Oct 2019 11:00 pm  
 Operator : Buffy:ek  
 Sample : IL14,32,,AP9L50 Lot#8362  
 Misc : wg1293206,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 07 09:47:37 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:17 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 114948   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 100.00% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 463214   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 100.00% |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 248824   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 100.00% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 504702   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 100.00% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 164263   | 50.000 | ug/ml  | 93     |
| 29) Acetophenone              | 4.654 | 105  | 261232   | 50.000 | ug/ml  | 94     |
| 30) m-Toluidine               | 4.719 | 106  | 272409   | 50.000 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 252420   | 50.000 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.424 | 59   | 134753   | 50.000 | ug/ml  | 90     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 70807    | 50.000 | ug/ml  | 92     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 163037   | 50.000 | ug/ml# | 89     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 74563    | 50.000 | ug/ml  | 87     |
| 60) Caprolactam               | 5.723 | 55   | 80015    | 50.000 | ug/ml# | 77     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 173151   | 50.000 | ug/ml  | 97     |
| 62) Biphenyl                  | 6.411 | 154  | 470824   | 50.000 | ug/ml  | 98     |
| 84) Dichloran                 | 7.897 | 206  | 51628    | 50.000 | ug/ml# | 77     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 49070    | 50.000 | ug/ml# | 81     |
| 99) Diphenamid                | 8.967 | 167  | 338916   | 50.000 | ug/ml# | 68     |

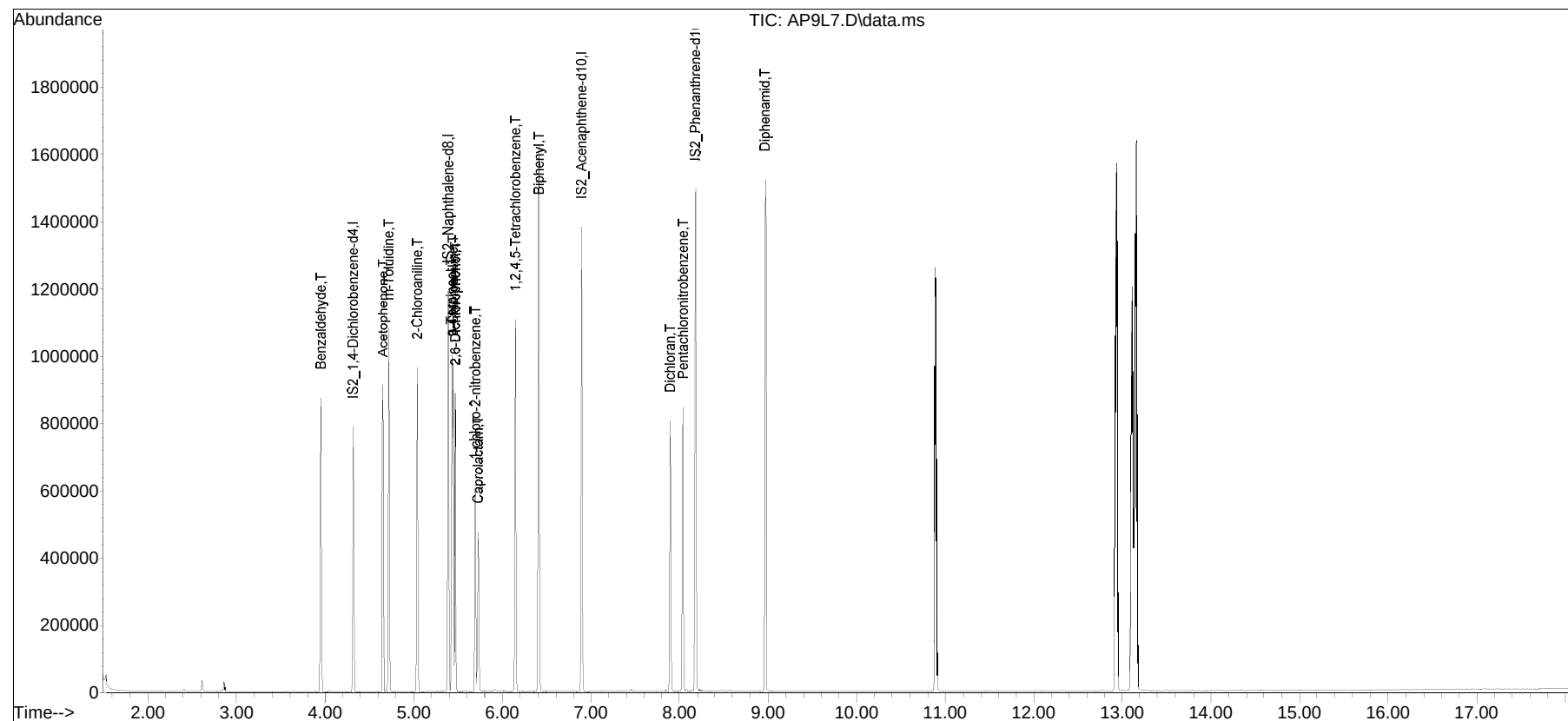
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L7.D  
 Acq On : 6 Oct 2019 11:00 pm  
 Operator : Buffy:ek  
 Sample : IL14,32,,AP9L50 Lot#8362  
 Misc : wg1293206,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 07 09:47:37 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:17 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L7.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 11:00 pm        | Instrument | : Buffy             |
| Sample     | : IL14,32,,AP9L50 Lot#8362  | Quant Date | : 10/7/2019 9:47 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L6.D  
 Acq On : 6 Oct 2019 11:23 pm  
 Operator : Buffy:ek  
 Sample : IL15,32,,AP9L20 Lot#8361  
 Misc : wg1293206,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 07 10:57:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 112955   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 98.27% |          |
| 55) IS2_Naphthalene-d8        | 5.389 | 136  | 437176   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 94.38% |          |
| 83) IS2_Acenaphthene-d10      | 6.899 | 164  | 235100   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 94.48% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 465641   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 92.26% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 66914    | 20.727 | ug/ml  | 94     |
| 29) Acetophenone              | 4.654 | 105  | 108266   | 21.088 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.719 | 106  | 111679   | 20.860 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 104121   | 20.988 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.424 | 59   | 54953    | 21.605 | ug/ml  | 91     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 29042    | 21.729 | ug/ml  | 93     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 65419    | 21.258 | ug/ml# | 90     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 30133    | 21.410 | ug/ml  | 86     |
| 60) Caprolactam               | 5.718 | 55   | 31173    | 20.640 | ug/ml# | 78     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 69645    | 21.309 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.411 | 154  | 193558   | 21.779 | ug/ml  | 97     |
| 84) Dichloran                 | 7.897 | 206  | 18980    | 19.455 | ug/ml# | 77     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 17966    | 19.375 | ug/ml# | 82     |
| 99) Diphenamid                | 8.967 | 167  | 133027   | 21.272 | ug/ml# | 67     |

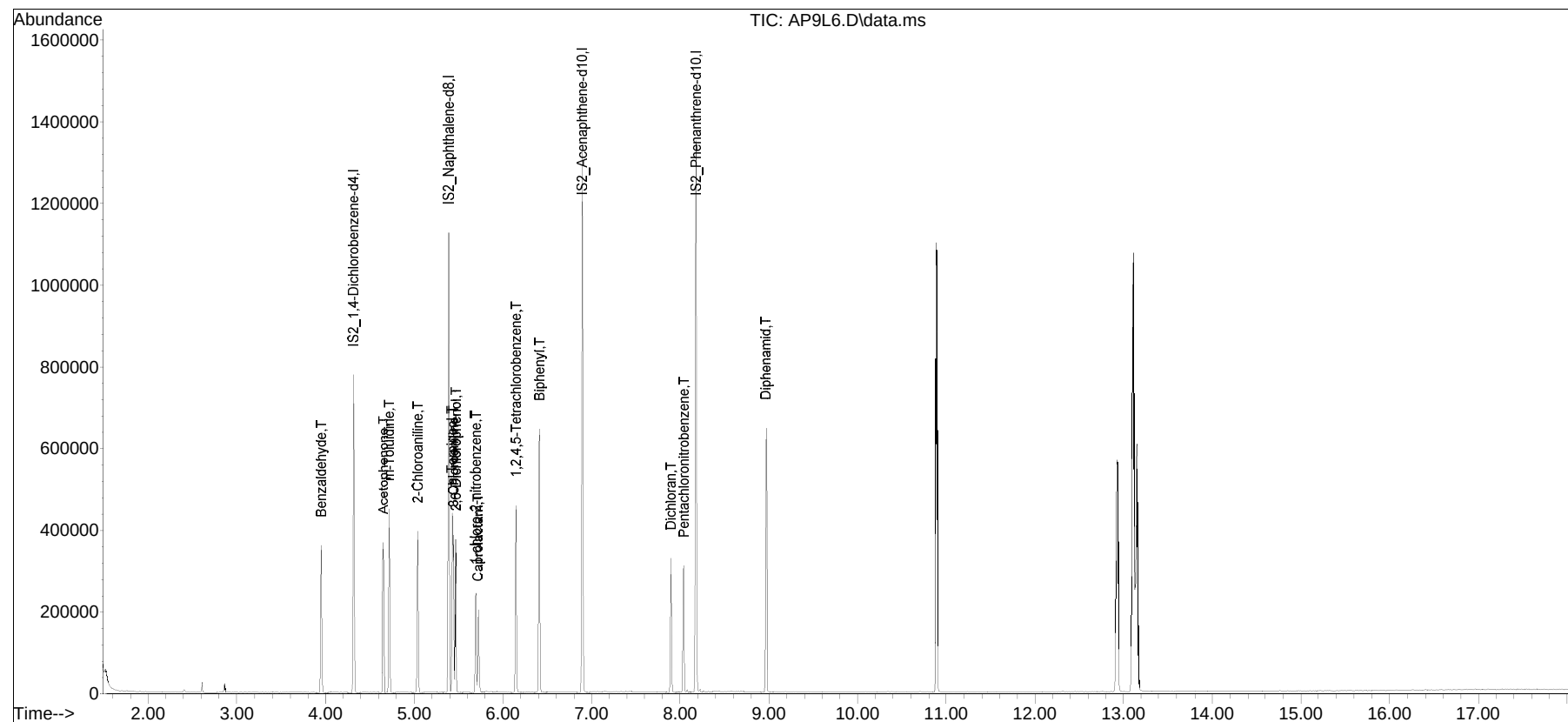
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L6.D  
 Acq On : 6 Oct 2019 11:23 pm  
 Operator : Buffy:ek  
 Sample : IL15,32,,AP9L20 Lot#8361  
 Misc : wg1293206,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 07 10:57:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L6.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 11:23 pm        | Instrument | : Buffy             |
| Sample     | : IL15,32,,AP9L20 Lot#8361  | Quant Date | : 10/7/2019 9:52 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L5.D  
 Acq On : 6 Oct 2019 11:46 pm  
 Operator : Buffy:ek  
 Sample : IL16,32,,AP9L10 Lot#8360  
 Misc : wg1293206,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 10:56:29 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 104325   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 90.76% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 416150   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 89.84% |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 220449   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 88.60% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 431186   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 85.43% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 33886    | 11.365 | ug/ml  | 96     |
| 29) Acetophenone              | 4.654 | 105  | 53898    | 11.367 | ug/ml  | 93     |
| 30) m-Toluidine               | 4.719 | 106  | 55193    | 11.162 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 53335    | 11.640 | ug/ml  | 97     |
| 56) a-Terpineol               | 5.424 | 59   | 26705    | 11.030 | ug/ml  | 91     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 13897    | 10.923 | ug/ml  | 85     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 32860    | 11.217 | ug/ml# | 90     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 15063    | 11.243 | ug/ml  | 88     |
| 60) Caprolactam               | 5.717 | 55   | 14993    | 10.428 | ug/ml# | 77     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 35392    | 11.376 | ug/ml  | 96     |
| 62) Biphenyl                  | 6.411 | 154  | 96636    | 11.423 | ug/ml  | 98     |
| 84) Dichloran                 | 7.897 | 206  | 8694     | 9.504  | ug/ml# | 77     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 8586     | 9.875  | ug/ml# | 83     |
| 99) Diphenamid                | 8.967 | 167  | 64053    | 11.061 | ug/ml# | 69     |

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

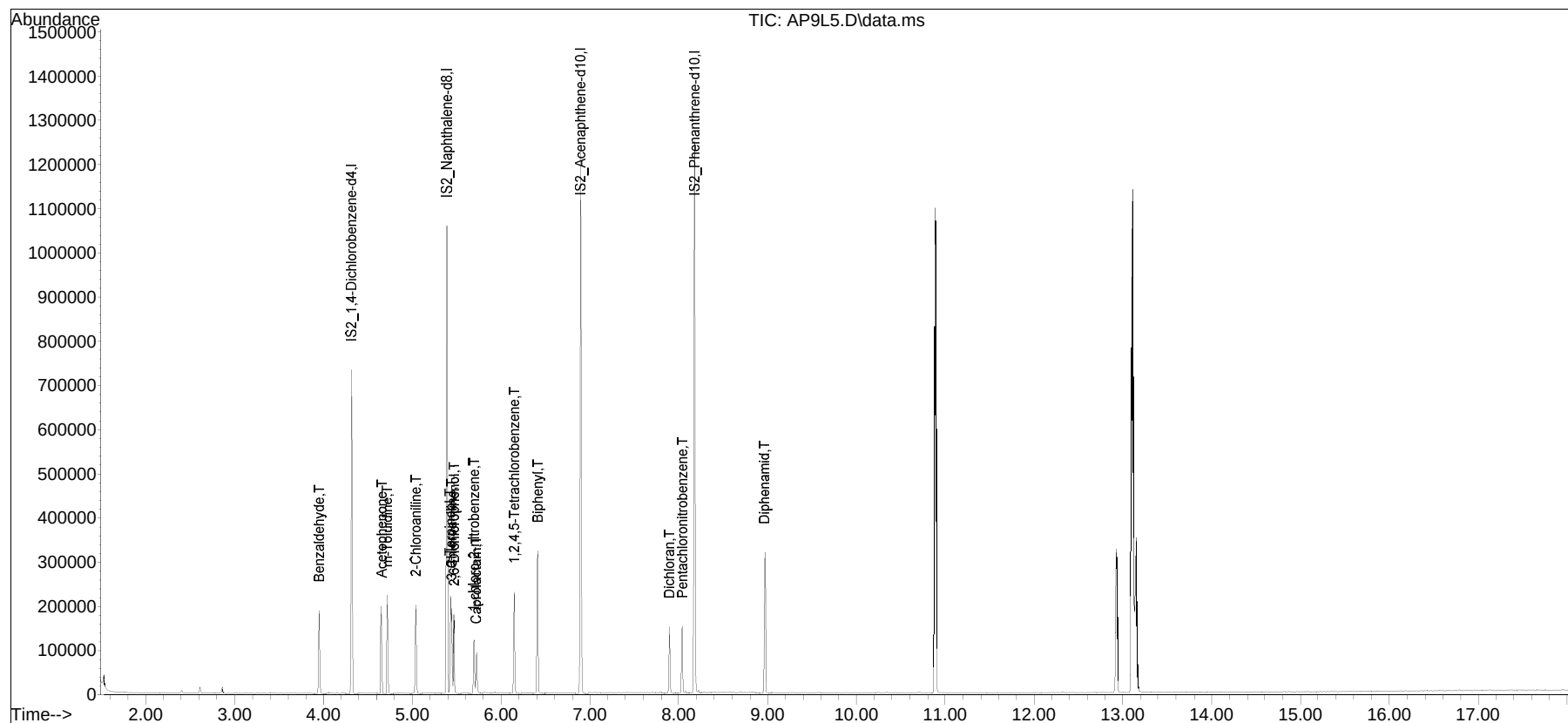


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L5.D  
 Acq On : 6 Oct 2019 11:46 pm  
 Operator : Buffy:ek  
 Sample : IL16,32,,AP9L10 Lot#8360  
 Misc : wg1293206,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 07 10:56:29 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L5.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/6/2019 11:46 pm        | Instrument | : Buffy             |
| Sample     | : IL16,32,,AP9L10 Lot#8360  | Quant Date | : 10/7/2019 9:51 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L4.D  
 Acq On : 7 Oct 2019 12:09 am  
 Operator : Buffy:ek  
 Sample : IL17,32,,AP9L5 Lot#8359  
 Misc : wg1293206,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 07 10:55:49 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 105441   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 91.73% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 418553   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 90.36% |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 223325   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 89.75% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 437788   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 86.74% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 15668    | 5.199 | ug/ml  | 94     |
| 29) Acetophenone              | 4.654 | 105  | 25180    | 5.254 | ug/ml  | 93     |
| 30) m-Toluidine               | 4.719 | 106  | 25935    | 5.190 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 24544    | 5.300 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.424 | 59   | 12681    | 5.207 | ug/ml  | 95     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 6968     | 5.445 | ug/ml  | 94     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 15265    | 5.181 | ug/ml  | 92     |
| 59) 1-chloro-2-nitrobenzene   | 5.688 | 111  | 6774     | 5.027 | ug/ml  | 90     |
| 60) Caprolactam               | 5.717 | 55   | 6621     | 4.579 | ug/ml# | 76     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 16679    | 5.330 | ug/ml  | 97     |
| 62) Biphenyl                  | 6.411 | 154  | 46751    | 5.495 | ug/ml  | 97     |
| 84) Dichloran                 | 7.897 | 206  | 3614     | 3.900 | ug/ml  | 83     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 3982     | 4.521 | ug/ml# | 77     |
| 99) Diphenamid                | 8.967 | 167  | 29719    | 5.055 | ug/ml# | 66     |

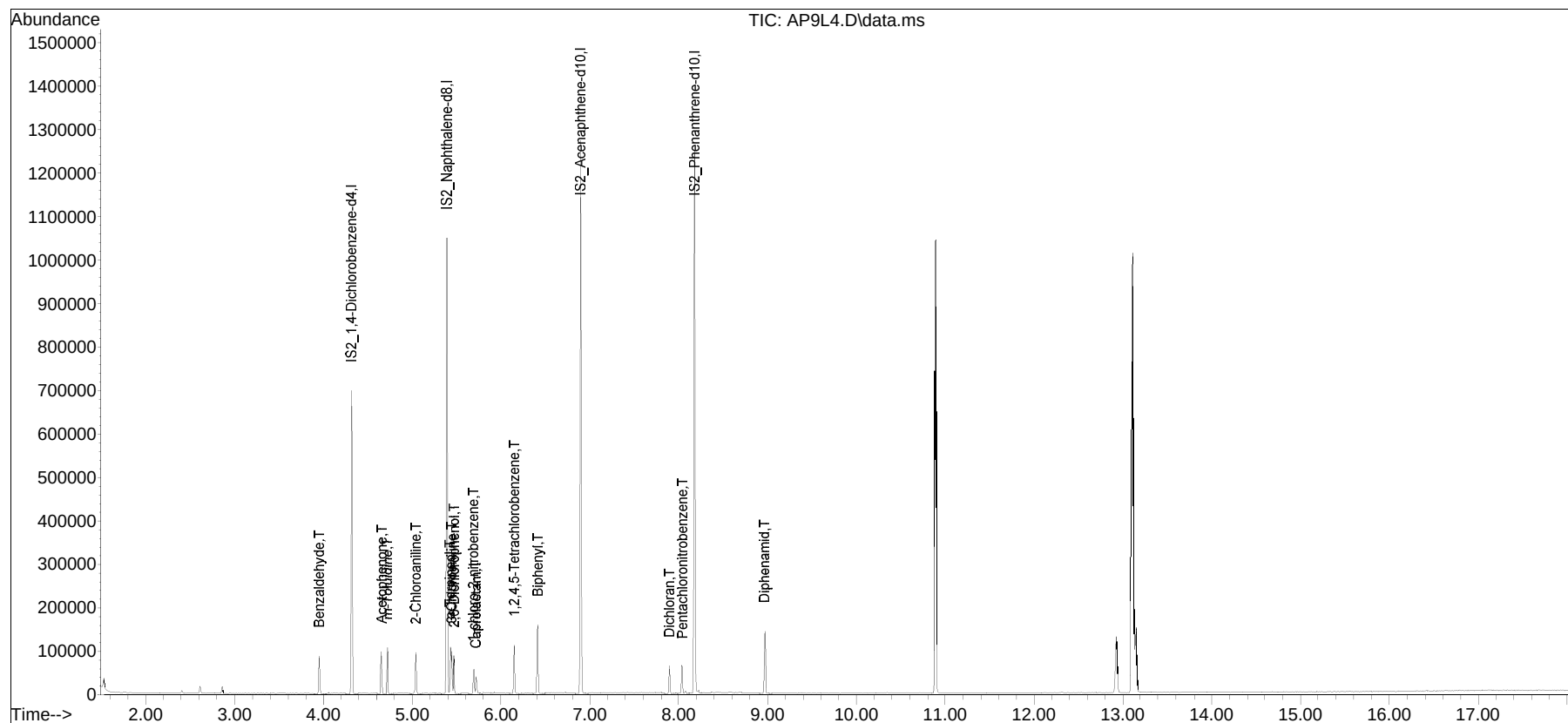
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L4.D  
 Acq On : 7 Oct 2019 12:09 am  
 Operator : Buffy:ek  
 Sample : IL17,32,,AP9L5 Lot#8359  
 Misc : wg1293206,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 07 10:55:49 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L4.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/7/2019 12:09 am        | Instrument | : Buffy             |
| Sample     | : IL17,32,,AP9L5 Lot#8359   | Quant Date | : 10/7/2019 9:51 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L3.D  
 Acq On : 7 Oct 2019 12:32 am  
 Operator : Buffy:ek  
 Sample : IL18,32,,AP9L3 Lot#8358  
 Misc : wg1293206,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 07 10:55:05 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 98999    | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 86.13% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 404132   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 87.25% |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 221875   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 89.17% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 433298   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 85.85% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 9837     | 3.477 | ug/ml  | 91     |
| 29) Acetophenone              | 4.654 | 105  | 14914    | 3.314 | ug/ml  | 96     |
| 30) m-Toluidine               | 4.719 | 106  | 14582    | 3.108 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 13796    | 3.173 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.424 | 59   | 6996     | 2.975 | ug/ml  | 99     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 4062     | 3.288 | ug/ml  | 99     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 8316     | 2.923 | ug/ml# | 90     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 3996     | 3.071 | ug/ml  | 96     |
| 60) Caprolactam               | 5.717 | 55   | 4643     | 3.325 | ug/ml# | 63     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 9784     | 3.238 | ug/ml# | 95     |
| 62) Biphenyl                  | 6.411 | 154  | 27033    | 3.291 | ug/ml  | 98     |
| 84) Dichloran                 | 7.897 | 206  | 2032     | 2.207 | ug/ml  | 87     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 2414     | 2.759 | ug/ml# | 76     |
| 99) Diphenamid                | 8.967 | 167  | 16523    | 2.839 | ug/ml# | 71     |

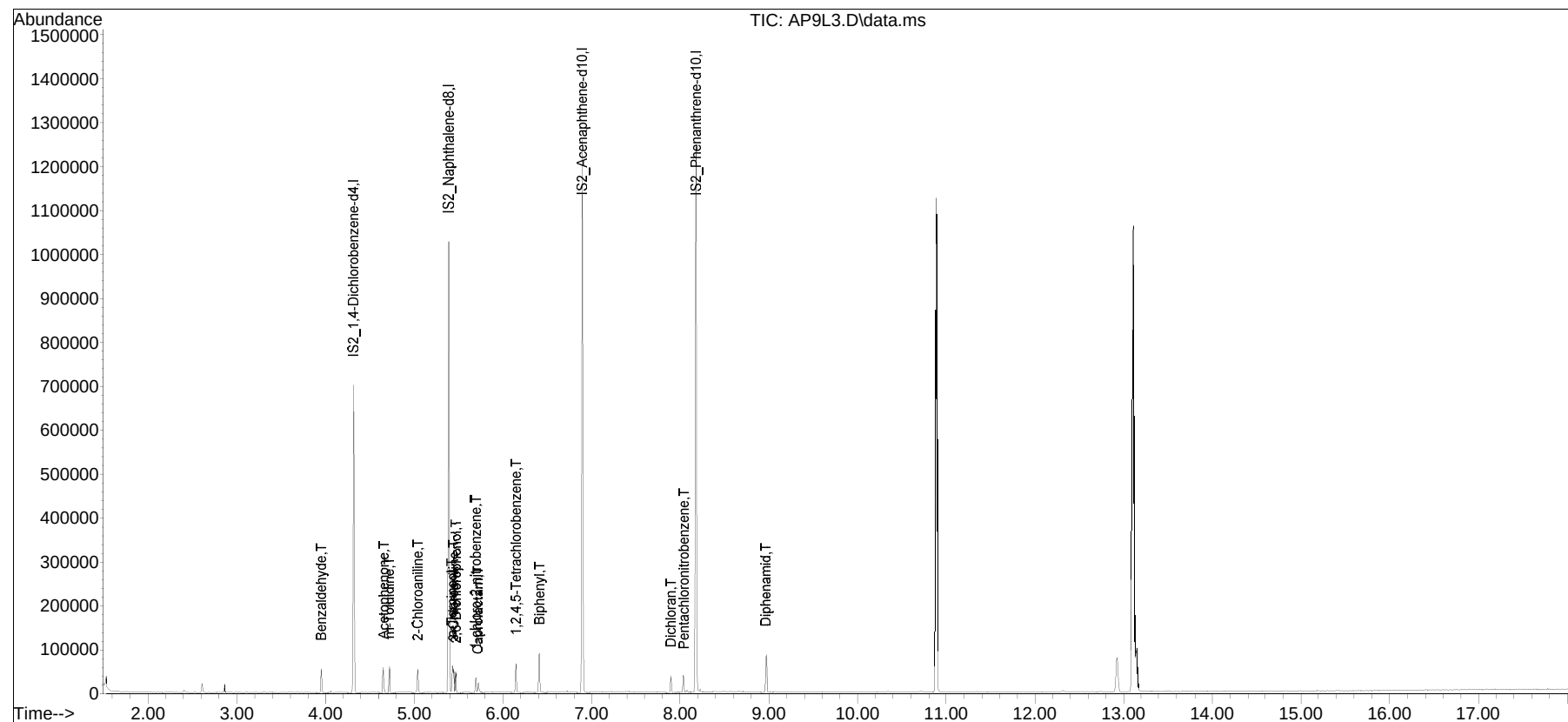
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L3.D  
 Acq On : 7 Oct 2019 12:32 am  
 Operator : Buffy:ek  
 Sample : IL18,32,,AP9L3 Lot#8358  
 Misc : wg1293206,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 07 10:55:05 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L3.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/7/2019 12:32 am        | Instrument | : Buffy             |
| Sample     | : IL18,32,,AP9L3 Lot#8358   | Quant Date | : 10/7/2019 9:51 am |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L2.D  
 Acq On : 7 Oct 2019 12:55 am  
 Operator : Buffy:ek  
 Sample : IL19,32,,AP9L2 Lot#8357  
 Misc : wg1293206,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 07 10:54:23 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 118298   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 102.91% |          |
| 55) IS2_Naphthalene-d8        | 5.389 | 136  | 468321   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 101.10% |          |
| 83) IS2_Acenaphthene-d10      | 6.899 | 164  | 247584   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 99.50%  |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 482484   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 95.60%  |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 7387     | 2.185 | ug/ml  | 93     |
| 29) Acetophenone              | 4.654 | 105  | 11310    | 2.103 | ug/ml# | 93     |
| 30) m-Toluidine               | 4.725 | 106  | 11424    | 2.037 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 10511    | 2.023 | ug/ml  | 94     |
| 56) a-Terpineol               | 5.424 | 59   | 5616     | 2.061 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 3201     | 2.236 | ug/ml  | 99     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 6752     | 2.048 | ug/ml# | 88     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 3130     | 2.076 | ug/ml  | 92     |
| 60) Caprolactam               | 5.718 | 55   | 3198     | 1.977 | ug/ml# | 66     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 7440     | 2.125 | ug/ml  | 97     |
| 62) Biphenyl                  | 6.411 | 154  | 20368    | 2.139 | ug/ml  | 99     |
| 84) Dichloran                 | 7.897 | 206  | 1455     | 1.416 | ug/ml# | 83     |
| 85) Pentachloronitrobenzene   | 8.033 | 237  | 1572     | 1.610 | ug/ml# | 81     |
| 99) Diphenamid                | 8.967 | 167  | 12884    | 1.988 | ug/ml# | 67     |

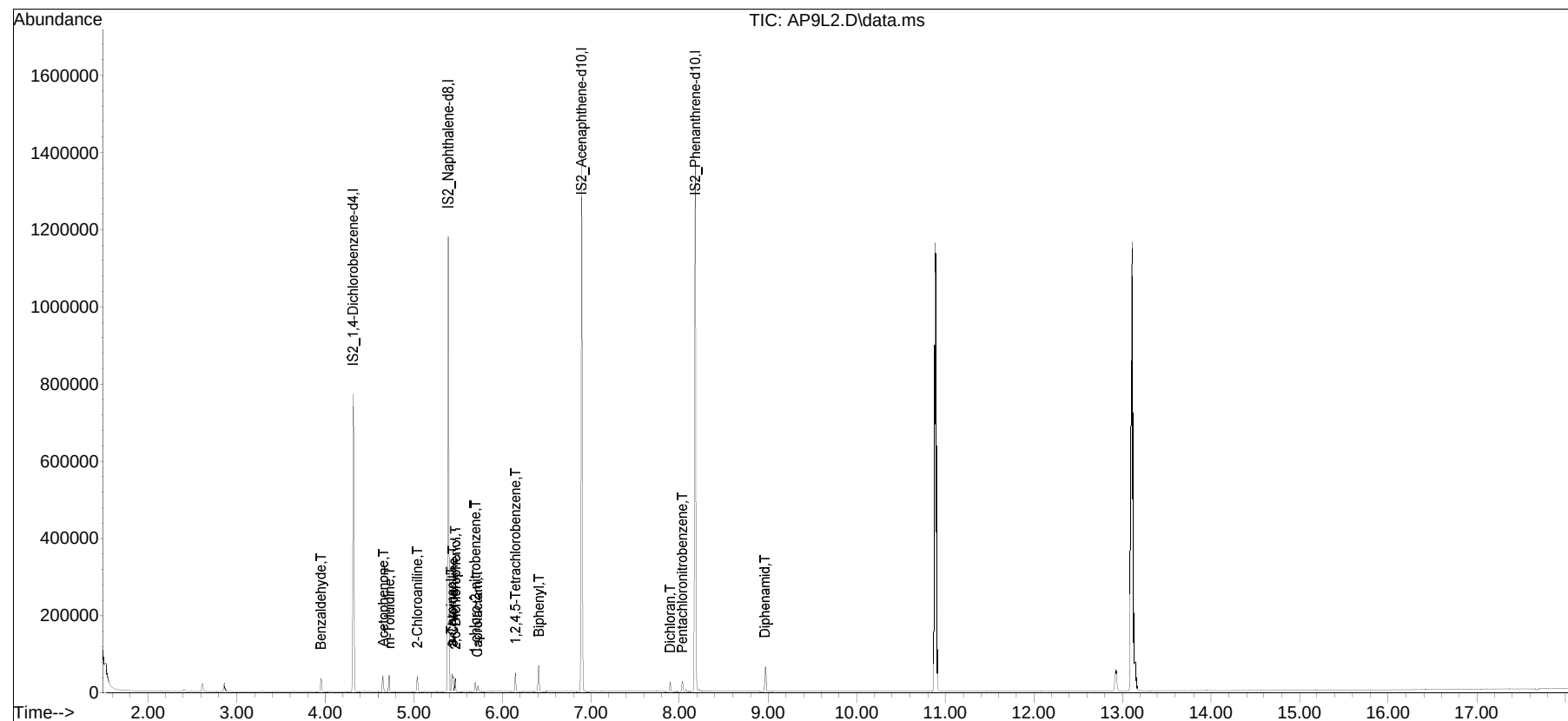
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L2.D  
 Acq On : 7 Oct 2019 12:55 am  
 Operator : Buffy:ek  
 Sample : IL19,32,,AP9L2 Lot#8357  
 Misc : wg1293206,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 07 10:54:23 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L2.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/7/2019 12:55 am        | Instrument | : Buffy             |
| Sample     | : IL19,32,,AP9L2 Lot#8357   | Quant Date | : 10/7/2019 9:51 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L1.D  
 Acq On : 7 Oct 2019 1:18 am  
 Operator : Buffy:ek  
 Sample : IL20,32,,AP9L1 Lot#8356  
 Misc : wg1293206,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 07 10:52:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.313 | 152  | 116718   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 101.54% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 460367   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 99.39%  |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 239055   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 96.07%  |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 459367   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 91.02%  |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 3760     | 1.127 | ug/ml  | 93     |
| 29) Acetophenone              | 4.654 | 105  | 5978     | 1.127 | ug/ml# | 89     |
| 30) m-Toluidine               | 4.719 | 106  | 6080     | 1.099 | ug/ml  | 95     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 5577     | 1.088 | ug/ml  | 93     |
| 56) a-Terpineol               | 5.424 | 59   | 3450     | 1.288 | ug/ml# | 80     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 1710     | 1.215 | ug/ml  | 88     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 3428     | 1.058 | ug/ml# | 91     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 1525     | 1.029 | ug/ml  | 92     |
| 60) Caprolactam               | 5.717 | 55   | 1546     | 0.972 | ug/ml# | 71     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 4071     | 1.183 | ug/ml  | 96     |
| 62) Biphenyl                  | 6.411 | 154  | 10694    | 1.143 | ug/ml  | 98     |
| 84) Dichloran                 | 7.897 | 206  | 606      | 0.611 | ug/ml  | 87     |
| 85) Pentachloronitrobenzene   | 8.032 | 237  | 837      | 0.888 | ug/ml# | 77     |
| 99) Diphenamid                | 8.967 | 167  | 6103     | 0.989 | ug/ml# | 75     |

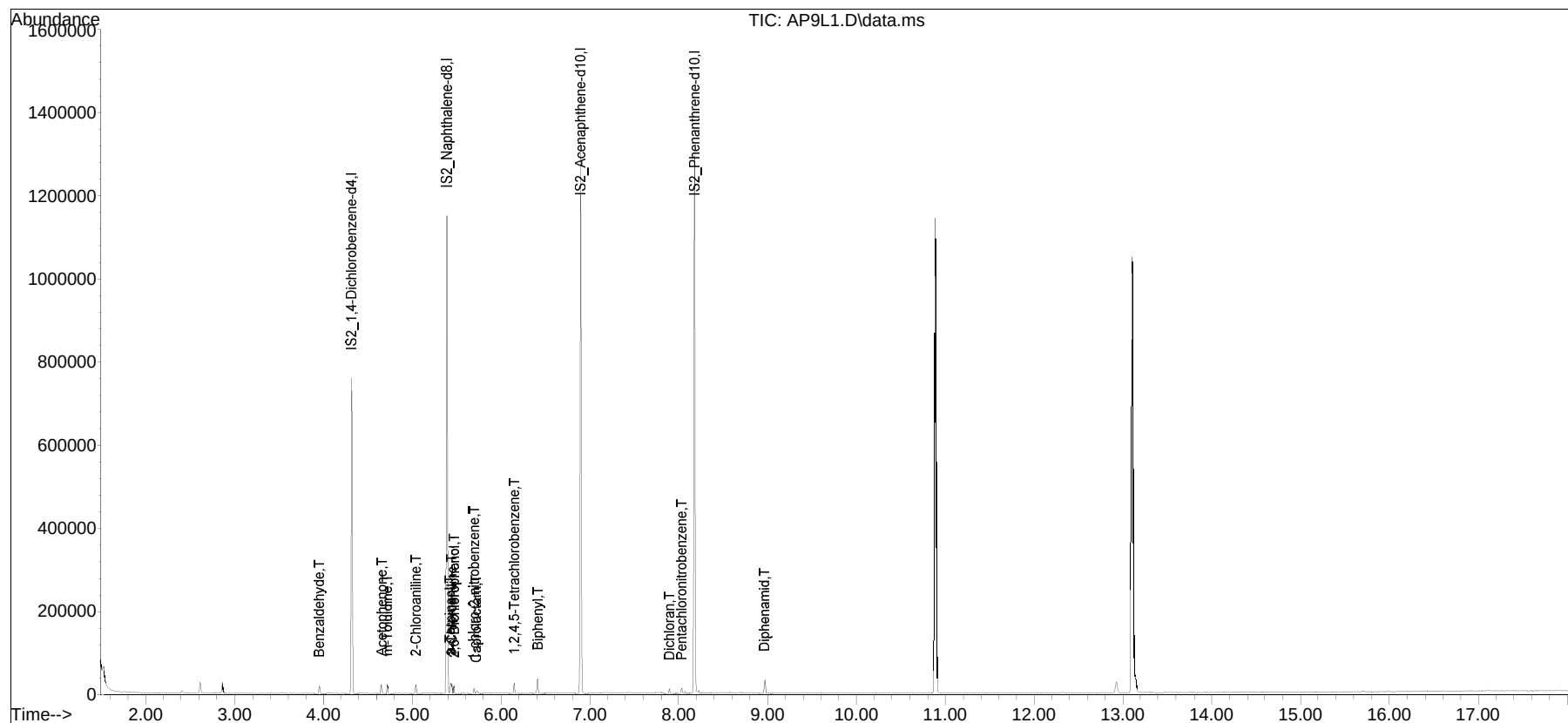
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9L1.D  
 Acq On : 7 Oct 2019 1:18 am  
 Operator : Buffy:ek  
 Sample : IL20,32,,AP9L1 Lot#8356  
 Misc : wg1293206,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 07 10:52:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:47:15 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : AP9L1.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/7/2019 1:18 am         | Instrument | : Buffy             |
| Sample     | : IL20,32,,AP9L1 Lot#8356   | Quant Date | : 10/7/2019 9:51 am |

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNICV.D  
 Acq On : 7 Oct 2019 1:41 am  
 Operator : Buffy:ek  
 Sample : CQICV1,32,,ABN ICV Lot#8416  
 Misc : wg1293206,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:50:40 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                    | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|------|-----------------------------|----------|--------|------|-------|----------|
| 1 I  | IS1_1,4-Dichlorobenzene-d4  | 1.000    | 1.000  | 0.0  | 98    | 0.00     |
| 2 t  | n-Nitrosodimethylamine      | 0.773    | 0.766  | 0.9  | 101   | 0.00     |
| 3 t  | Pyridine                    | 1.313    | 1.391  | -5.9 | 108   | 0.00     |
| 4 S  | 2-Fluorophenol              | 1.298    | 1.254  | 3.4  | 96    | 0.00     |
| 5 T  | Aniline                     | 2.067    | 2.050  | 0.8  | 100   | 0.00     |
| 6 t  | 2-Chlorophenol              | 1.430    | 1.421  | 0.6  | 99    | 0.00     |
| 7 S  | Phenol-d6                   | 1.545    | 1.468  | 5.0  | 95    | 0.00     |
| 8 T  | Phenol                      | 1.784    | 1.756  | 1.6  | 99    | 0.00     |
| 9 T  | Bis(2-chloroethyl)ether     | 1.253    | 1.240  | 1.0  | 103   | 0.00     |
| 10 T | 1,3-Dichlorobenzene         | 1.607    | 1.592  | 0.9  | 100   | 0.00     |
| 11 T | 1,4-Dichlorobenzene         | 1.660    | 1.610  | 3.0  | 99    | 0.00     |
| 12 T | 1,2-Dichlorobenzene         | 1.604    | 1.541  | 3.9  | 99    | 0.00     |
| 13 t | Benzyl alcohol              | 1.026    | 1.011  | 1.5  | 99    | 0.00     |
| 14 T | Bis(2-chloroisopropyl)ether | 1.715    | 1.678  | 2.2  | 99    | 0.00     |
| 15 T | 2-Methylphenol              | 1.258    | 1.261  | -0.2 | 100   | 0.00     |
| 16 T | Hexachloroethane            | 0.630    | 0.616  | 2.2  | 100   | 0.00     |
| 17 T | n-Nitrosodi-n-propylamine   | 0.886    | 0.902  | -1.8 | 101   | 0.00     |
| 18 T | 3-Methylphenol/4-Methylphen | 1.325    | 1.338  | -1.0 | 100   | 0.00     |
| 19 S | Nitrobenzene-d5             | * 50.000 | 37.960 | 24.1 | 77    | 0.00     |
| 20 T | Nitrobenzene                | 1.329    | 1.336  | -0.5 | 100   | 0.00     |
| 21 T | Isophorone                  | 2.469    | 2.516  | -1.9 | 102   | 0.00     |
| 22 T | 2-Nitrophenol               | 0.680    | 0.694  | -2.1 | 95    | 0.00     |
| 23 T | 2,4-Dimethylphenol          | 1.317    | 1.288  | 2.2  | 99    | 0.00     |
| 24 T | Bis(2-chloroethoxy)methane  | 1.662    | 1.675  | -0.8 | 100   | 0.00     |
| 25 T | 2,4-Dichlorophenol          | 1.194    | 1.224  | -2.5 | 99    | 0.00     |
| 26 T | 1,2,4-Trichlorobenzene      | 1.310    | 1.292  | 1.4  | 101   | 0.00     |
| 35 I | IS1_Naphthalene-d8          | 1.000    | 1.000  | 0.0  | 100   | 0.00     |
| 36 T | Naphthalene                 | 1.088    | 1.057  | 2.8  | 100   | 0.00     |
| 37 T | Benzoic Acid                | * 50.000 | 45.032 | 9.9  | 94    | 0.00     |
| 38 T | 4-Chloroaniline             | 0.113    | 0.111  | 1.8  | 102   | 0.00     |
| 39 T | Hexachlorobutadiene         | 0.175    | 0.170  | 2.9  | 103   | 0.00     |
| 40 T | p-Chloro-m-cresol           | 0.286    | 0.296  | -3.5 | 102   | 0.00     |
| 41 T | 2-Methylnaphthalene         | 0.720    | 0.729  | -1.3 | 102   | 0.00     |
| 42 T | 1-Methylnaphthalene         | 0.214    | 0.218  | -1.9 | 106   | 0.00     |
| 43 T | Hexachlorocyclopentadiene   | 0.220    | 0.218  | 0.9  | 97    | 0.00     |
| 44 T | 2,4,6-Trichlorophenol       | 0.212    | 0.212  | 0.0  | 98    | 0.00     |
| 45 T | 2,4,5-Trichlorophenol       | 0.224    | 0.233  | -4.0 | 101   | 0.00     |
| 46 S | 2-Fluorobiphenyl            | 0.978    | 0.778  | 20.4 | 82    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNICV.D  
 Acq On : 7 Oct 2019 1:41 am  
 Operator : Buffy:ek  
 Sample : CQICV1,32,,ABN ICV Lot#8416  
 Misc : wg1293206,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:50:40 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                    | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|------|-----------------------------|----------|--------|------|-------|----------|
| 47 T | 2-Chloronaphthalene         | 0.686    | 0.692  | -0.9 | 102   | 0.00     |
| 48 T | 2-Nitroaniline              | 0.225    | 0.229  | -1.8 | 97    | 0.00     |
| 49 T | 1,4-Dinitrobenzene          | 0.093    | 0.089  | 4.3  | 93    | 0.00     |
| 50 T | 1,3-Dinitrobenzene          | 0.110    | 0.107  | 2.7  | 96    | 0.00     |
| 51 T | Dimethyl phthalate          | 0.807    | 0.819  | -1.5 | 100   | 0.00     |
| 52 T | Acenaphthylene              | 1.118    | 1.128  | -0.9 | 99    | 0.00     |
| 53 T | 2,6-Dinitrotoluene          | 0.169    | 0.179  | -5.9 | 99    | 0.00     |
| 54 T | 1,2-Dinitrobenzene          | 0.067    | 0.072  | -7.5 | 102   | 0.00     |
| 63 I | IS1_Acenaphthene-d10        | 1.000    | 1.000  | 0.0  | 100   | 0.00     |
| 64 T | 3-Nitroaniline              | 0.365    | 0.365  | 0.0  | 97    | 0.00     |
| 65 T | Acenaphthene                | 1.220    | 1.234  | -1.1 | 107   | 0.00     |
| 66 T | 2,4-Dinitrophenol           | * 50.000 | 43.139 | 13.7 | 92    | 0.00     |
| 67 T | Dibenzofuran                | 1.832    | 1.782  | 2.7  | 101   | 0.00     |
| 68 T | 2,4-Dinitrotoluene          | 0.401    | 0.414  | -3.2 | 98    | 0.00     |
| 69 T | 4-Nitrophenol               | 0.243    | 0.241  | 0.8  | 99    | 0.00     |
| 70 T | 2,3,5,6-Tetrachlorophenol   | 0.351    | 0.353  | -0.6 | 100   | 0.00     |
| 71 T | 2,3,4,6-Tetrachlorophenol   | 0.357    | 0.365  | -2.2 | 103   | 0.00     |
| 72 T | Diethyl phthalate           | 1.530    | 1.546  | -1.0 | 103   | 0.00     |
| 73 T | Fluorene                    | 1.471    | 1.469  | 0.1  | 102   | 0.00     |
| 74 T | 4-Chlorophenyl phenyl ether | 0.673    | 0.661  | 1.8  | 101   | 0.00     |
| 75 T | 4-Nitroaniline              | 0.415    | 0.406  | 2.2  | 93    | 0.00     |
| 76 T | 4,6-Dinitro-o-cresol        | * 50.000 | 44.663 | 10.7 | 94    | 0.00     |
| 77 T | NDPA/DPA                    | 1.272    | 1.260  | 0.9  | 102   | 0.00     |
| 78 T | Azobenzene                  | 1.363    | 1.408  | -3.3 | 105   | 0.00     |
| 79 S | 2,4,6-Tribromophenol        | 0.234    | 0.251  | -7.3 | 104   | 0.00     |
| 80 T | 4-Bromophenyl phenyl ether  | 0.409    | 0.417  | -2.0 | 102   | 0.00     |
| 81 T | Hexachlorobenzene           | 0.491    | 0.480  | 2.2  | 101   | 0.00     |
| 82 T | Pentachlorophenol           | 0.292    | 0.312  | -6.8 | 100   | 0.00     |
| 88 I | IS1_Phenanthrene-d10        | 1.000    | 1.000  | 0.0  | 103   | 0.00     |
| 89 T | Phenanthrene                | 1.169    | 1.124  | 3.8  | 104   | 0.00     |
| 90 T | Anthracene                  | 1.171    | 1.156  | 1.3  | 104   | 0.00     |
| 91 T | Carbazole                   | 1.117    | 1.083  | 3.0  | 102   | 0.00     |
| 92 T | Di-n-butylphthalate         | 1.358    | 1.421  | -4.6 | 104   | 0.00     |
| 93 T | Fluoranthene                | 1.294    | 1.261  | 2.6  | 102   | 0.00     |
| 94 T | Benzidine                   | 0.895    | 0.870  | 2.8  | 99    | 0.00     |
| 95 T | Pyrene                      | 1.368    | 1.307  | 4.5  | 101   | 0.00     |
| 96 S | 4-Terphenyl-d14             | 1.114    | 0.864  | 22.4 | 81    | 0.00     |



# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNICV.D  
 Acq On : 7 Oct 2019 1:41 am  
 Operator : Buffy:ek  
 Sample : CQICV1,32,,ABN ICV Lot#8416  
 Misc : wg1293206,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:50:40 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| 97 T  | Butyl benzyl phthalate     | 0.622 | 0.640 | -2.9 | 101   | 0.00     |
| 104 I | IS1_Chrysene-d12           | 1.000 | 1.000 | 0.0  | 104   | 0.00     |
| 105 T | Benzo(a)anthracene         | 1.319 | 1.270 | 3.7  | 102   | 0.00     |
| 106 T | 3,3'-Dichlorobenzidine     | 0.518 | 0.517 | 0.2  | 101   | 0.00     |
| 107 T | Chrysene                   | 1.313 | 1.243 | 5.3  | 102   | 0.00     |
| 108 T | Bis(2-ethylhexyl)phthalate | 0.949 | 1.038 | -9.4 | 104   | 0.00     |
| 109 T | Di-n-octylphthalate        | 1.676 | 1.764 | -5.3 | 102   | 0.00     |
| 110 T | Benzo(b)fluoranthene       | 1.381 | 1.347 | 2.5  | 102   | 0.00     |
| 111 T | Benzo(k)fluoranthene       | 1.370 | 1.367 | 0.2  | 105   | 0.00     |
| 112 T | Benzo(a)pyrene             | 1.333 | 1.245 | 6.6  | 95    | 0.00     |
| 113 I | IS1_Perylene-d12           | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 114 T | Indeno(1,2,3-cd)pyrene     | 1.107 | 1.102 | 0.5  | 100   | 0.00     |
| 115 T | Dibenzo(a,h)anthracene     | 1.110 | 1.127 | -1.5 | 102   | 0.00     |
| 116 T | Benzo(ghi)perylene         | 1.159 | 1.162 | -0.3 | 101   | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNICV.D  
 Acq On : 7 Oct 2019 1:41 am  
 Operator : Buffy:ek  
 Sample : CQICV1,32,,ABN ICV Lot#8416  
 Misc : wg1293206,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:50:40 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.313          | 152  | 127056              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 129403      |                |      | Recovery = 98.19%   |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.388          | 136  | 528360              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 526646      |                |      | Recovery = 100.33%  |        |        |          |
| 63) IS1_Acenaphthene-d10      | 6.898          | 164  | 301304              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 300481      |                |      | Recovery = 100.27%  |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.179          | 188  | 599240              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 581431      |                |      | Recovery = 103.06%  |        |        |          |
| 104) IS1_Chrysene-d12         | 10.900         | 240  | 598478              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 574226      |                |      | Recovery = 104.22%  |        |        |          |
| 113) IS1_Perylene-d12         | 13.109         | 264  | 702232              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 689990      |                |      | Recovery = 101.77%  |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 4) 2-Fluorophenol             | 3.250          | 112  | 199092              | 48.300 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 96.60%   |        |        |          |
| 7) Phenol-d6                  | 4.019          | 99   | 233140              | 47.496 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 94.99%   |        |        |          |
| 19) Nitrobenzene-d5           | 4.777          | 82   | 197857              | 37.960 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 151.84%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.329          | 172  | 513869              | 39.780 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 159.12%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 7.580          | 330  | 94353               | 53.598 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 107.20%  |        |        |          |
| 96) 4-Terphenyl-d14           | 9.642          | 244  | 647469              | 38.794 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 155.18%# |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 2.180          | 74   | 121717              | 49.599 | ug/ml# | 99       |
| 3) Pyridine                   | 2.204          | 79   | 220842              | 52.944 | ug/ml# | 79       |
| 5) Aniline                    | 4.043          | 93   | 325548              | 49.593 | ug/ml  | 98       |
| 6) 2-Chlorophenol             | 4.143          | 128  | 225636              | 49.681 | ug/ml  | 98       |
| 8) Phenol                     | 4.031          | 94   | 278911              | 49.216 | ug/ml  | 97       |
| 9) Bis(2-chloroethyl)ether    | 4.102          | 93   | 196931              | 49.474 | ug/ml  | 90       |
| 10) 1,3-Dichlorobenzene       | 4.266          | 146  | 252823              | 49.536 | ug/ml  | 94       |
| 11) 1,4-Dichlorobenzene       | 4.331          | 146  | 255651              | 48.489 | ug/ml  | 95       |
| 12) 1,2-Dichlorobenzene       | 4.454          | 146  | 244784              | 48.036 | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.431          | 79   | 160557              | 49.283 | ug/ml  | 97       |
| 14) Bis(2-chloroisopropyl)... | 4.554          | 45   | 266549              | 48.942 | ug/ml# | 78       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNICV.D  
 Acq On : 7 Oct 2019 1:41 am  
 Operator : Buffy:ek  
 Sample : CQICV1,32,,ABN ICV Lot#8416  
 Misc : wg1293206,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:50:40 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.536 | 108  | 200338   | 50.139 | ug/ml  | 100      |
| 16) | Hexachloroethane          | 4.742 | 117  | 97805    | 48.884 | ug/ml# | 63       |
| 17) | n-Nitrosodi-n-propylamine | 4.660 | 70   | 143271   | 50.918 | ug/ml  | 97       |
| 18) | 3-Methylphenol/4-Methy... | 4.666 | 108  | 212434   | 50.462 | ug/ml  | 97       |
| 20) | Nitrobenzene              | 4.795 | 77   | 212147   | 50.269 | ug/ml  | 96       |
| 21) | Isophorone                | 5.001 | 82   | 399575   | 50.959 | ug/ml  | 98       |
| 22) | 2-Nitrophenol             | 5.065 | 139  | 110249   | 51.012 | ug/ml  | 91       |
| 23) | 2,4-Dimethylphenol        | 5.118 | 107  | 204590   | 48.891 | ug/ml  | 95       |
| 24) | Bis(2-chloroethoxy)met... | 5.195 | 93   | 266052   | 50.390 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.271 | 162  | 194400   | 51.252 | ug/ml# | 94       |
| 26) | 1,2,4-Trichlorobenzene    | 5.347 | 180  | 205144   | 49.282 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.406 | 128  | 698213   | 48.574 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.200 | 105  | 146568   | 45.032 | ug/ml  | 94       |
| 38) | 4-Chloroaniline           | 5.459 | 65   | 73344    | 49.142 | ug/ml  | 81       |
| 39) | Hexachlorobutadiene       | 5.529 | 225  | 112217   | 48.601 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.882 | 107  | 195522   | 51.689 | ug/ml  | 92       |
| 41) | 2-Methylnaphthalene       | 6.005 | 142  | 481434   | 50.600 | ug/ml  | 94       |
| 42) | 1-Methylnaphthalene       | 6.088 | 115  | 144009   | 50.922 | ug/ml# | 64       |
| 43) | Hexachlorocyclopentadiene | 6.152 | 237  | 144226   | 49.739 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 6.252 | 196  | 140083   | 50.025 | ug/ml  | 99       |
| 45) | 2,4,5-Trichlorophenol     | 6.276 | 196  | 153922   | 52.069 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.423 | 162  | 457329   | 50.494 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.511 | 138  | 151093   | 50.751 | ug/ml  | 89       |
| 49) | 1,4-Dinitrobenzene        | 6.628 | 168  | 58984    | 48.207 | ug/ml  | 81       |
| 50) | 1,3-Dinitrobenzene        | 6.693 | 168  | 70750    | 48.890 | ug/ml  | 81       |
| 51) | Dimethyl phthalate        | 6.681 | 163  | 541078   | 50.785 | ug/ml# | 99       |
| 52) | Acenaphthylene            | 6.775 | 152  | 745257   | 50.456 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.728 | 165  | 118327   | 53.069 | ug/ml# | 77       |
| 54) | 1,2-Dinitrobenzene        | 6.769 | 168  | 47325    | 53.757 | ug/ml  | 87       |
| 64) | 3-Nitroaniline            | 6.863 | 138  | 137467   | 49.977 | ug/ml  | 85       |
| 65) | Acenaphthene              | 6.928 | 154  | 464845   | 50.564 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 6.951 | 184  | 56219    | 43.139 | ug/ml  | 88       |
| 67) | Dibenzofuran              | 7.081 | 168  | 671162   | 48.644 | ug/ml  | 90       |
| 68) | 2,4-Dinitrotoluene        | 7.069 | 165  | 155866   | 51.631 | ug/ml# | 79       |
| 69) | 4-Nitrophenol             | 7.022 | 65   | 90674    | 49.624 | ug/ml  | 89       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.151 | 232  | 133051   | 50.356 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.186 | 232  | 137306   | 51.083 | ug/ml  | 98       |
| 72) | Diethyl phthalate         | 7.298 | 149  | 582236   | 50.514 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.374 | 166  | 553453   | 49.933 | ug/ml  | 95       |
| 74) | 4-Chlorophenyl phenyl ... | 7.380 | 204  | 248893   | 49.121 | ug/ml  | 90       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ABNICV.D  
 Acq On : 7 Oct 2019 1:41 am  
 Operator : Buffy:ek  
 Sample : CQICV1,32,,ABN ICV Lot#8416  
 Misc : wg1293206,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:50:40 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ABNL7.D  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.392  | 138  | 152923   | 48.924 | ug/ml  | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.421  | 198  | 83021    | 44.663 | ug/ml  | 86       |
| 77)  | NDPA/DPA                  | 7.486  | 169  | 474436   | 49.528 | ug/ml  | 98       |
| 78)  | Azobenzene                | 7.515  | 77   | 530161   | 51.632 | ug/ml# | 91       |
| 80)  | 4-Bromophenyl phenyl e... | 7.803  | 248  | 156960   | 50.953 | ug/ml# | 89       |
| 81)  | Hexachlorobenzene         | 7.856  | 284  | 180903   | 48.894 | ug/ml# | 88       |
| 82)  | Pentachlorophenol         | 8.021  | 266  | 117589   | 53.437 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.197  | 178  | 842214   | 48.074 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.244  | 178  | 866046   | 49.347 | ug/ml  | 97       |
| 91)  | Carbazole                 | 8.385  | 167  | 811408   | 48.511 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 8.714  | 149  | 1064463  | 52.336 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.243  | 202  | 944744   | 48.749 | ug/ml# | 91       |
| 94)  | Benzidine                 | 9.384  | 184  | 651880   | 48.633 | ug/ml# | 93       |
| 95)  | Pyrene                    | 9.460  | 202  | 978665   | 47.744 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.212 | 149  | 479613   | 51.438 | ug/ml# | 80       |
| 105) | Benzo(a)anthracene        | 10.882 | 228  | 949925   | 48.124 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 10.876 | 252  | 387092   | 49.938 | ug/ml# | 96       |
| 107) | Chrysene                  | 10.929 | 228  | 929546   | 47.330 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.029 | 149  | 776372   | 54.654 | ug/ml# | 96       |
| 109) | Di-n-octylphthalate       | 12.045 | 149  | 1319331  | 52.609 | ug/ml  | 95       |
| 110) | Benzo(b)fluoranthene      | 12.504 | 252  | 1008028  | 48.780 | ug/ml  | 96       |
| 111) | Benzo(k)fluoranthene      | 12.545 | 252  | 1022612  | 49.890 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 13.015 | 252  | 931341   | 46.702 | ug/ml  | 95       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.830 | 276  | 967135   | 49.779 | ug/mL  | 95       |
| 115) | Dibenzo(a,h)anthracene    | 14.889 | 278  | 989492   | 50.781 | ug/ml  | 95       |
| 116) | Benzo(ghi)perylene        | 15.236 | 276  | 1020282  | 50.134 | ug/ml# | 80       |

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

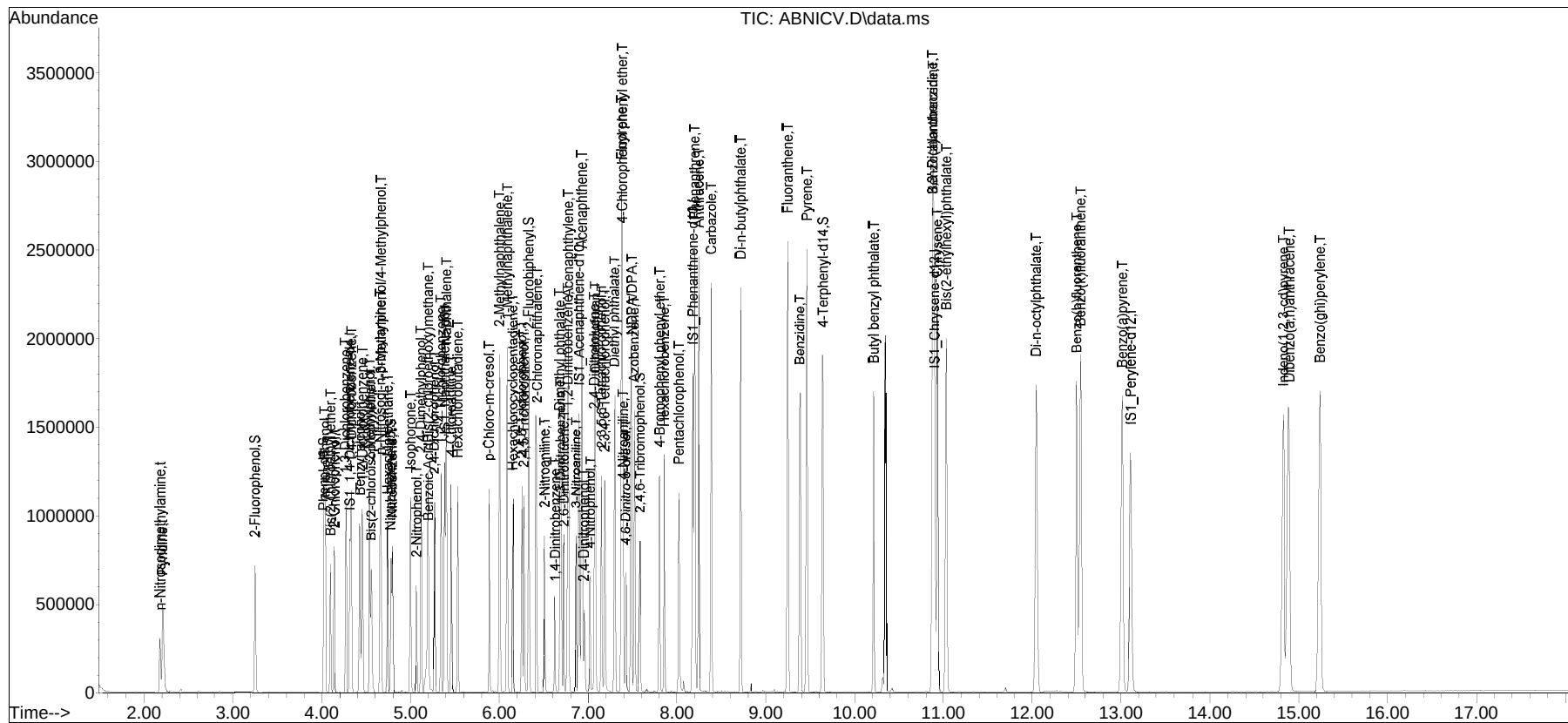
# Quantitation Report

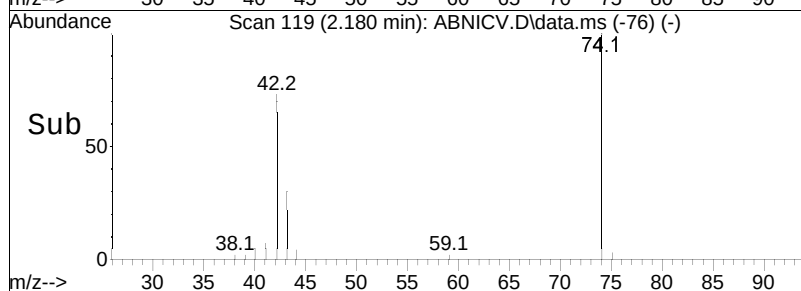
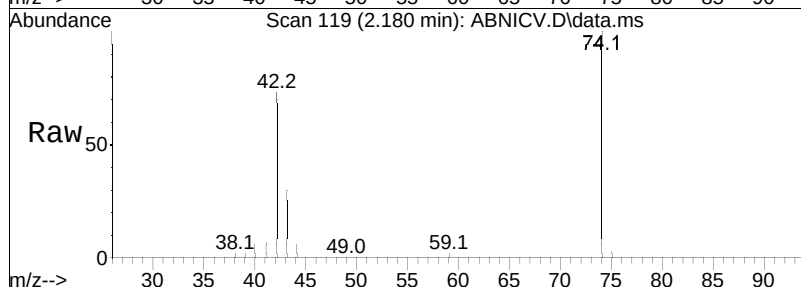
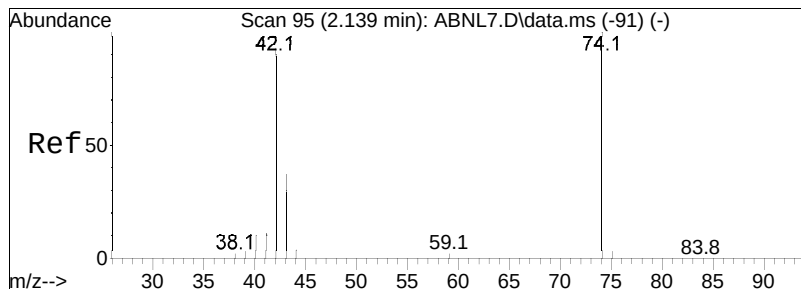
(QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
Data File : ABNICV.D  
Acq On : 7 Oct 2019 1:41 am  
Operator : Buffy:ek  
Sample : CQICV1,32,,ABN ICV Lot#8416  
Misc : wg1293206,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 07 10:50:48 2019  
Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 10:50:40 2019  
Response via : Initial Calibration

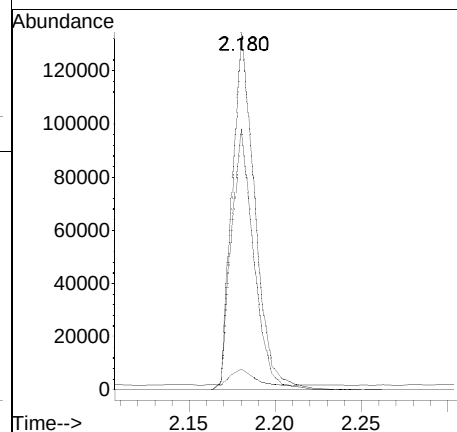
Sub List : ABNical - ABN ical sublista\ABNL7.D•

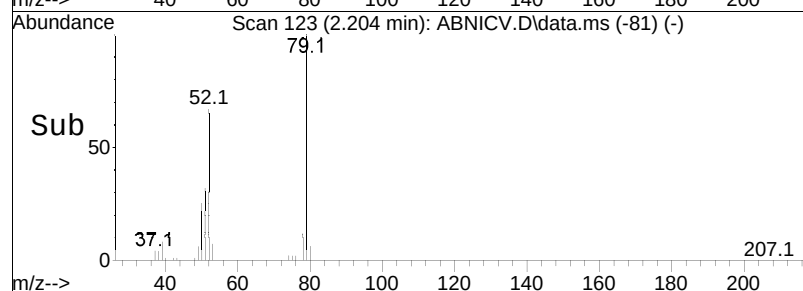
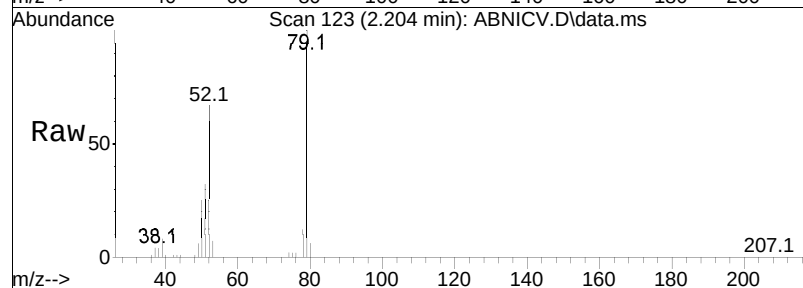
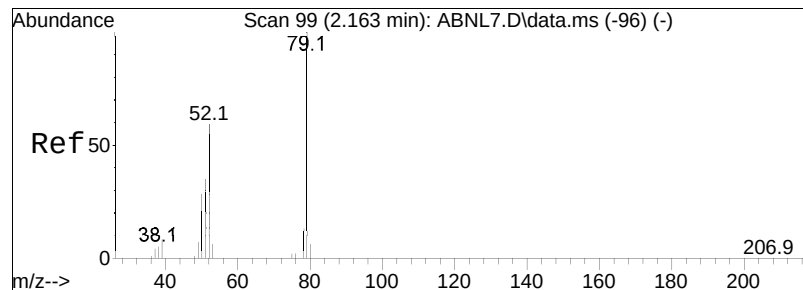




#2  
 n-Nitrosodimethylamine  
 Concen: 49.60 ug/ml  
 RT: 2.180 min Scan# 119  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

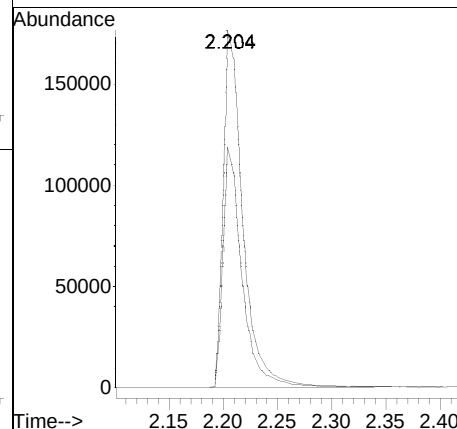
Tgt Ion: 74 Resp: 121717  
 Ion Ratio Lower Upper  
 74 100  
 42 72.7 57.8 86.6  
 44 5.0 3.2 4.8#

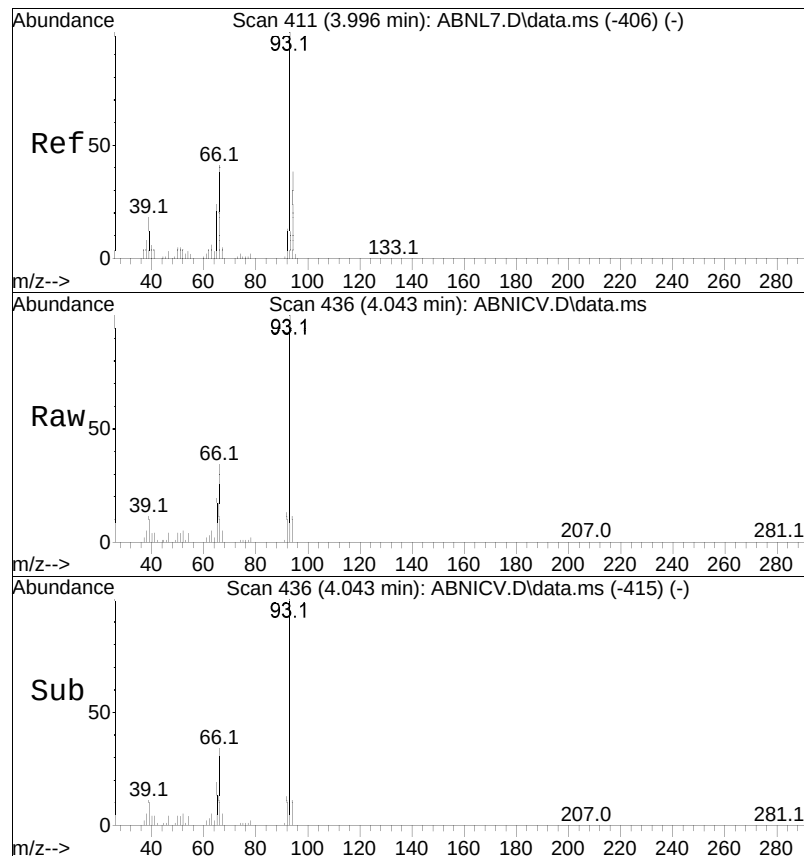




#3  
 Pyridine  
 Concen: 52.94 ug/ml  
 RT: 2.204 min Scan# 123  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

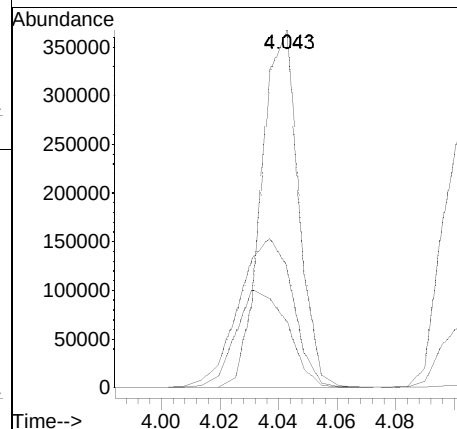
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 65.3  | 40.4  | 60.6  |



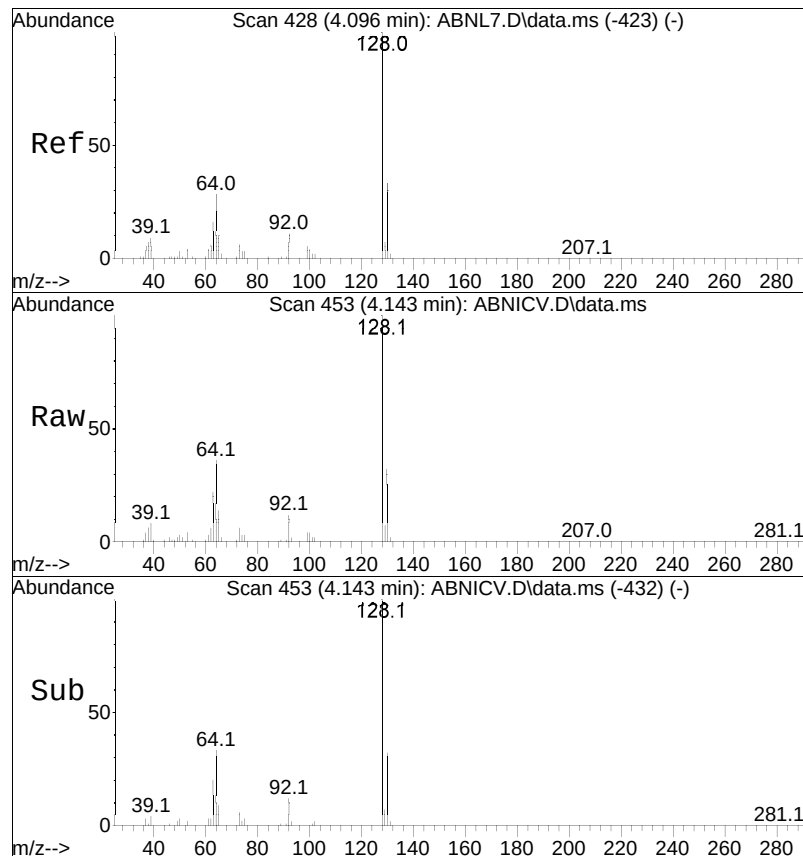


#5  
 Aniline  
 Concen: 49.59 ug/ml  
 RT: 4.043 min Scan# 436  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 66      | 60.5  | 47.2  | 70.8  |
| 65      | 37.9  | 29.7  | 44.5  |

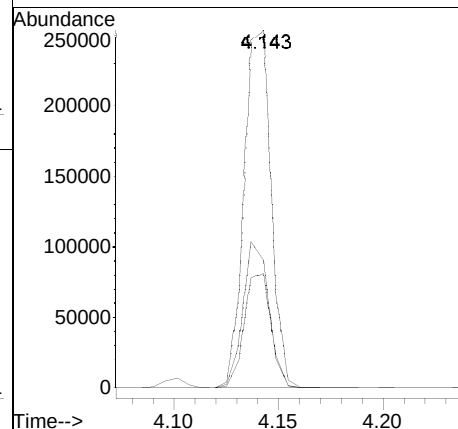


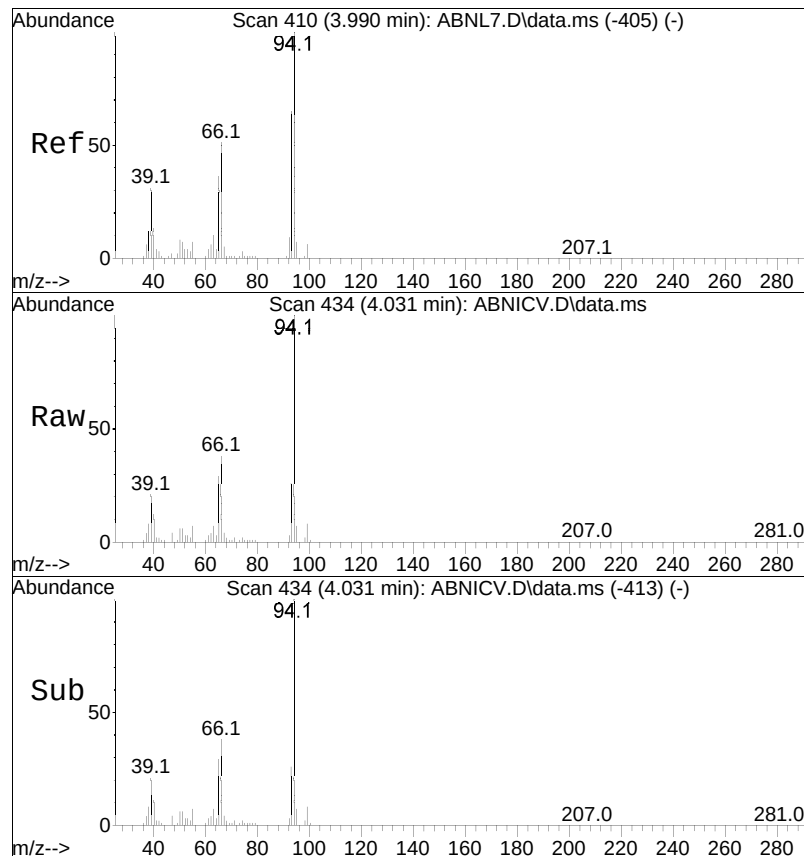




#6  
 2-Chlorophenol  
 Concen: 49.68 ug/ml  
 RT: 4.143 min Scan# 453  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

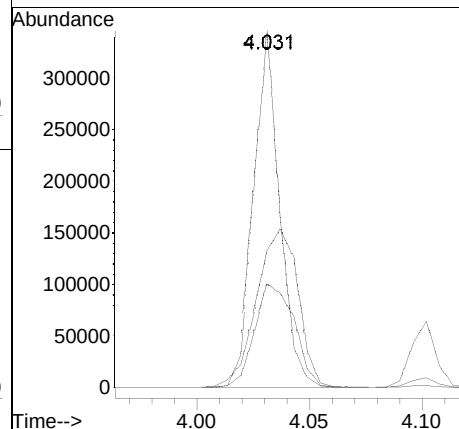
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 225636 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 64        | 39.0  | 32.7  | 49.1   |
| 130       | 32.0  | 26.4  | 39.6   |

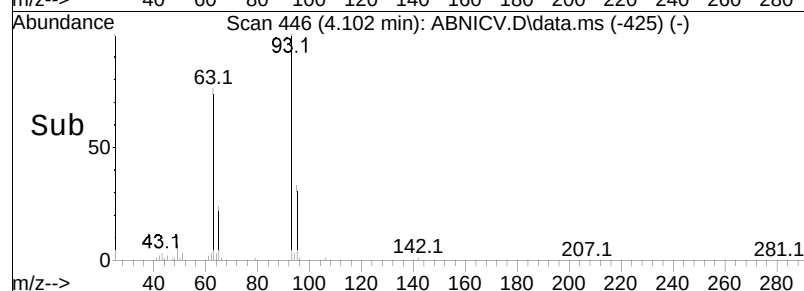
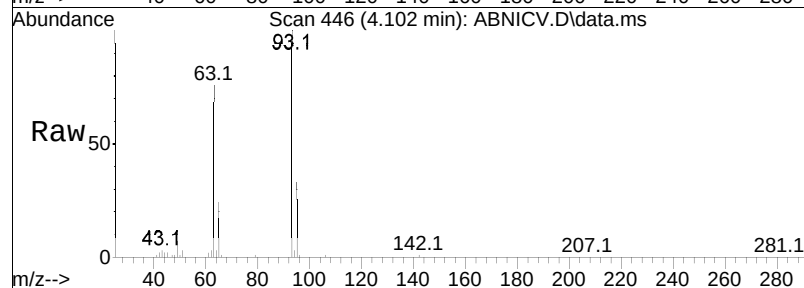
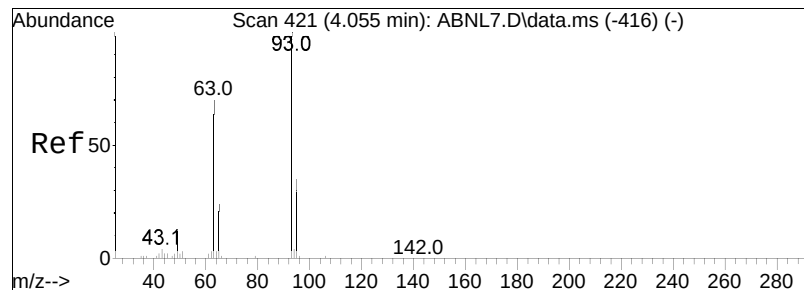




#8  
 Phenol  
 Concen: 49.22 ug/ml  
 RT: 4.031 min Scan# 434  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

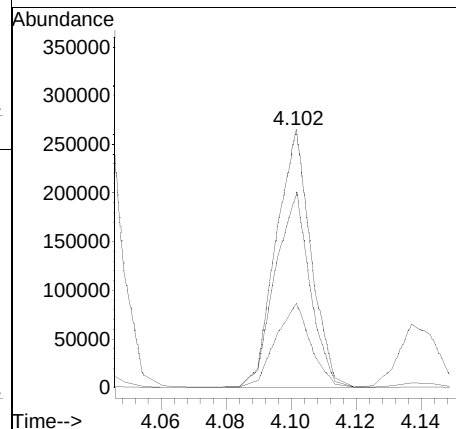
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 94    | Resp: | 278911 |
| Ion      | Ratio | Lower | Upper  |
| 94       | 100   |       |        |
| 65       | 44.3  | 34.2  | 51.4   |
| 66       | 70.6  | 54.4  | 81.6   |

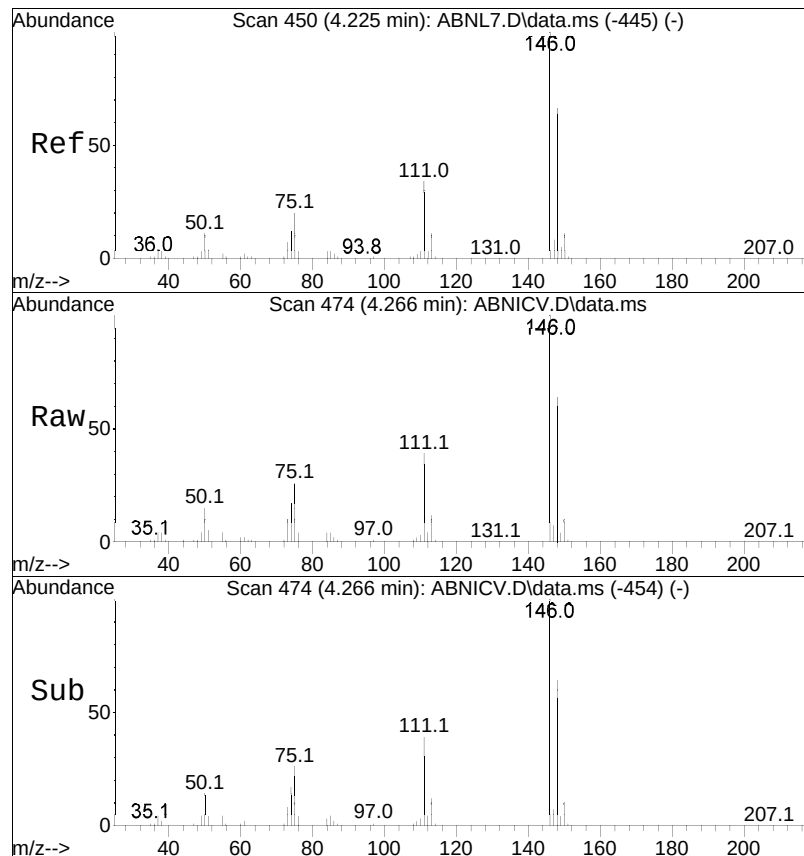




#9  
 Bis(2-chloroethyl)ether  
 Concen: 49.47 ug/ml  
 RT: 4.102 min Scan# 446  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

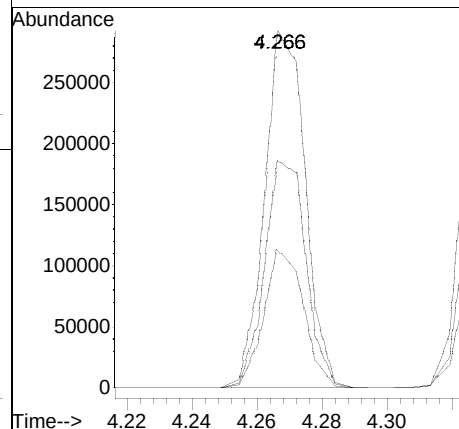
| Tgt Ion:  | 93    | Resp: | 196931 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 76.1  | 51.7  | 77.5   |
| 95        | 32.9  | 26.1  | 39.1   |

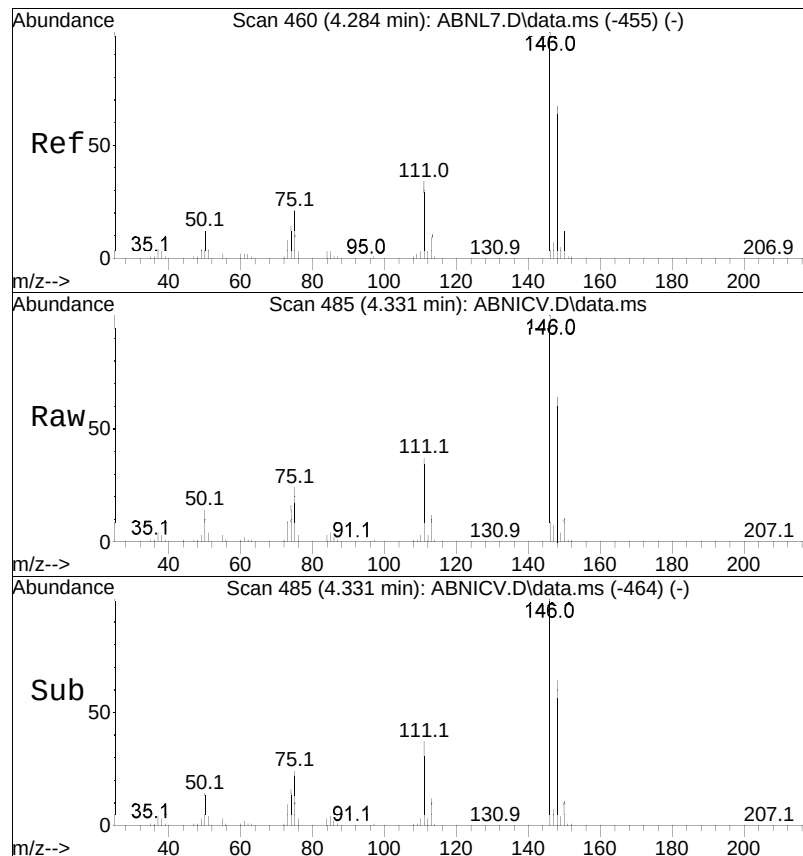




#10  
 1,3-Dichlorobenzene  
 Concen: 49.54 ug/ml  
 RT: 4.266 min Scan# 474  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

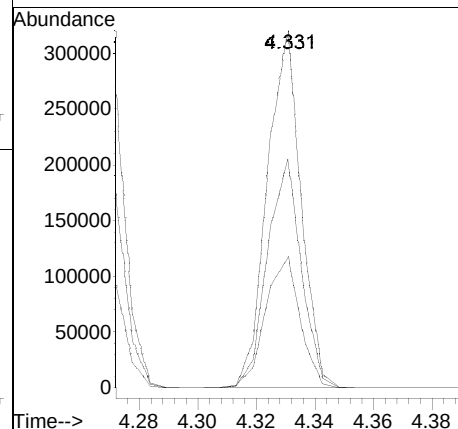
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:146 | Resp: | 252823 |
| Ion | Ratio   | Lower | Upper  |
| 146 | 100     |       |        |
| 111 | 38.0    | 36.0  | 54.0   |
| 148 | 64.7    | 49.8  | 74.6   |

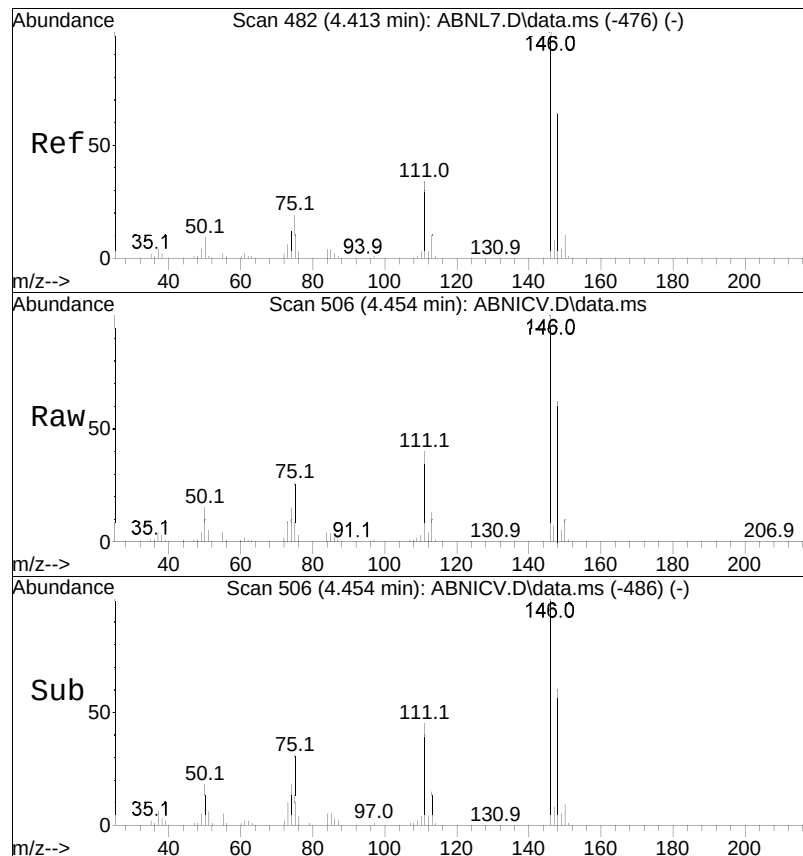




#11  
 1,4-Dichlorobenzene  
 Concen: 48.49 ug/ml  
 RT: 4.331 min Scan# 485  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

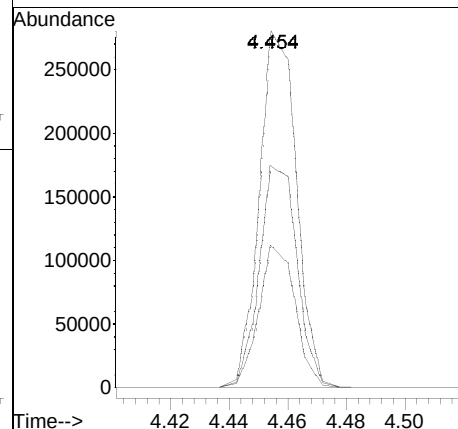
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:146 | Resp: | 255651 |
| Ion | Ratio   | Lower | Upper  |
| 146 | 100     |       |        |
| 148 | 64.2    | 50.7  | 76.1   |
| 111 | 37.8    | 35.8  | 53.6   |

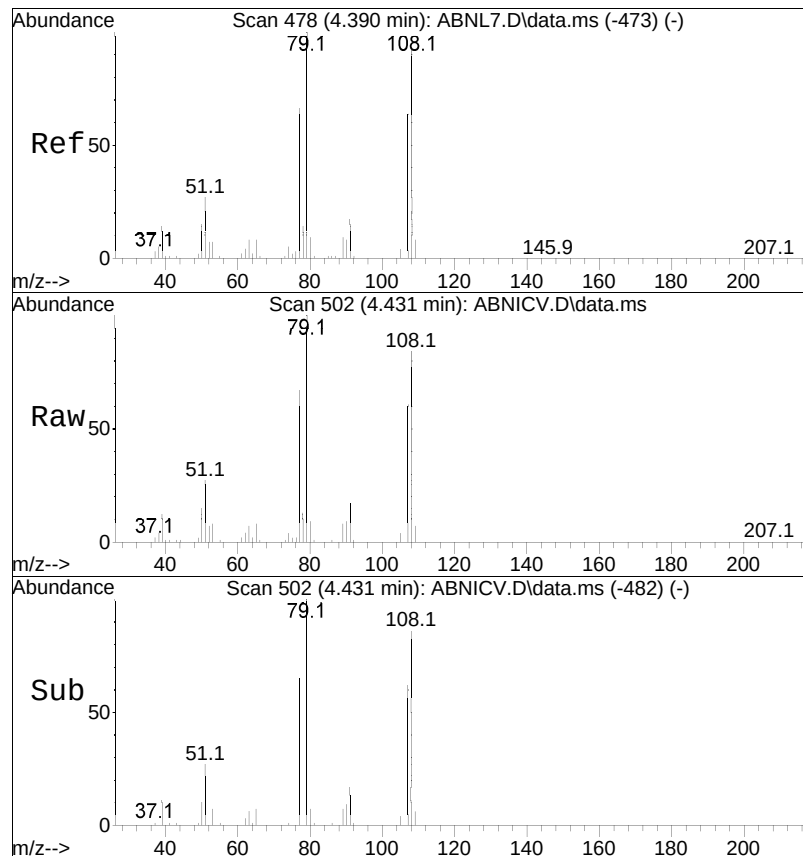




#12  
 1,2-Dichlorobenzene  
 Concen: 48.04 ug/ml  
 RT: 4.454 min Scan# 506  
 Delta R.T. -0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

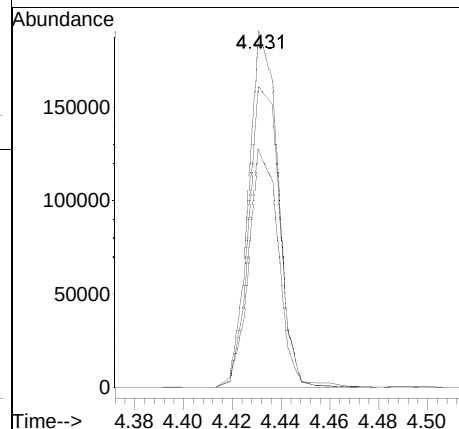
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:146 | Resp: | 244784 |
| Ion | Ratio   | Lower | Upper  |
| 146 | 100     |       |        |
| 111 | 39.4    | 37.6  | 56.4   |
| 148 | 63.5    | 51.2  | 76.8   |

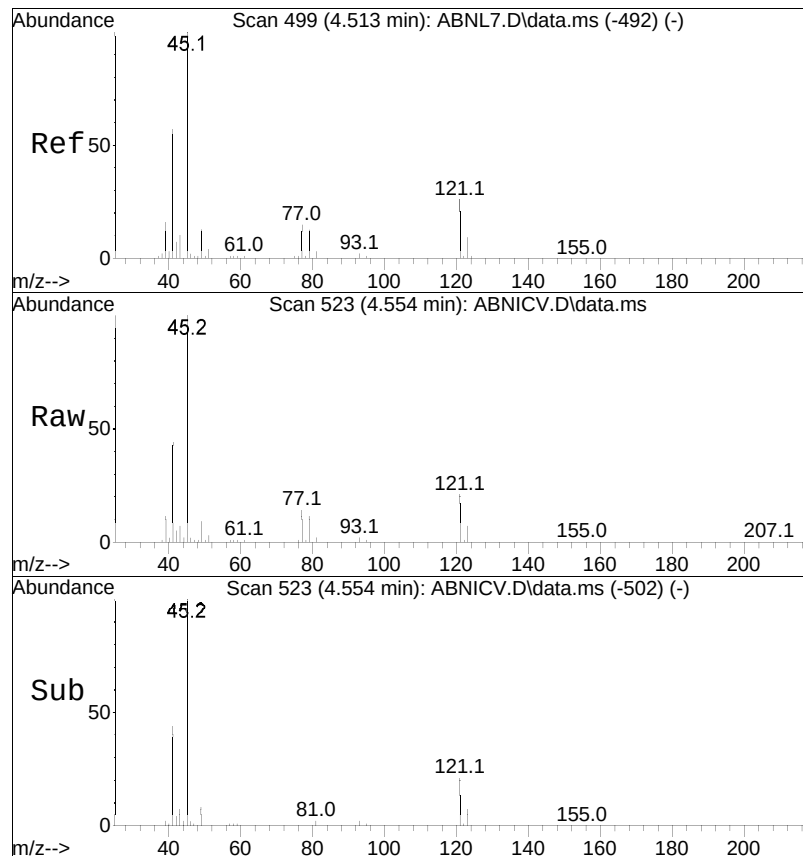




#13  
 Benzyl alcohol  
 Concen: 49.28 ug/ml  
 RT: 4.431 min Scan# 502  
 Delta R.T. -0.005 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

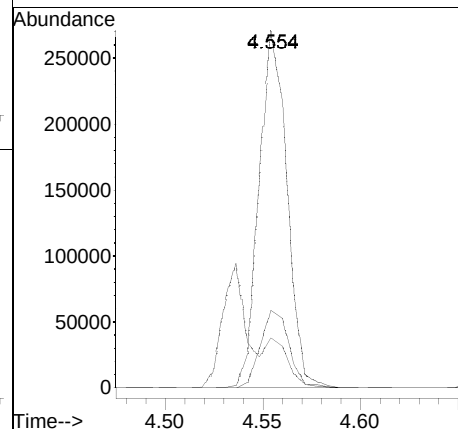
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 160557 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 77        | 67.0  | 53.8  | 80.8   |
| 108       | 88.4  | 67.3  | 100.9  |



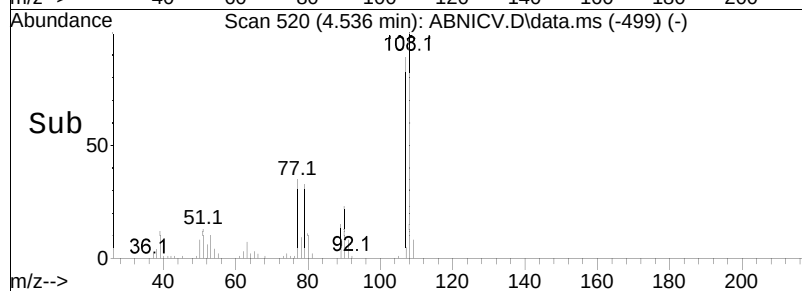
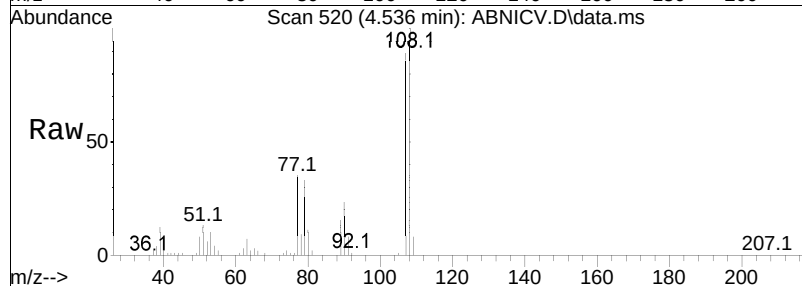
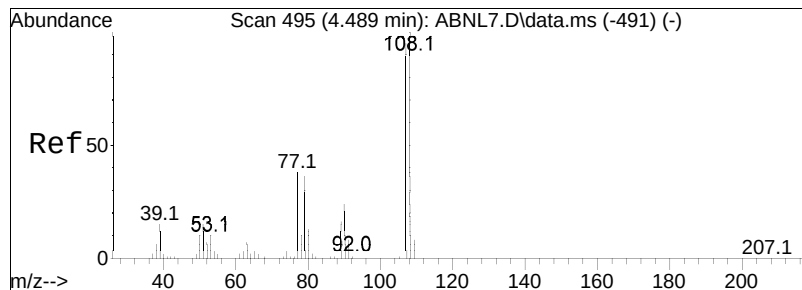


#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 48.94 ug/ml  
 RT: 4.554 min Scan# 523  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 266549 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 121       | 22.2  | 21.0  | 31.6   |
| 77        | 30.3  | 40.4  | 60.6#  |

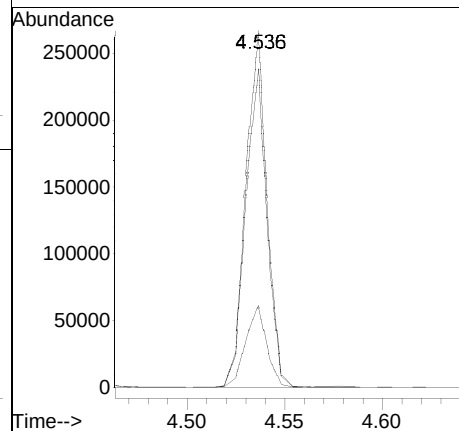


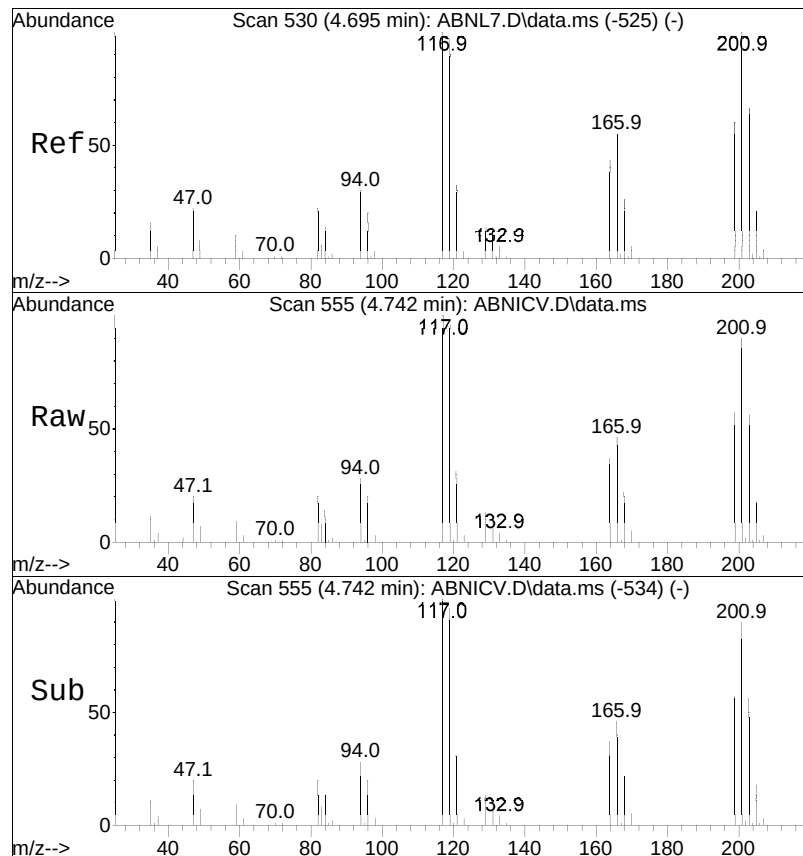




#15  
 2-Methylphenol  
 Concen: 50.14 ug/ml  
 RT: 4.536 min Scan# 520  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

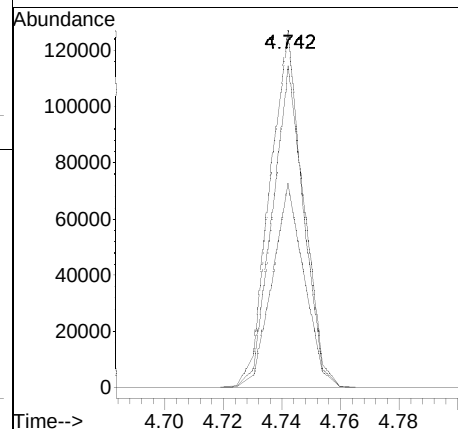
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 89.8  | 71.6  | 107.4 |
| 90      | 23.2  | 18.8  | 28.2  |

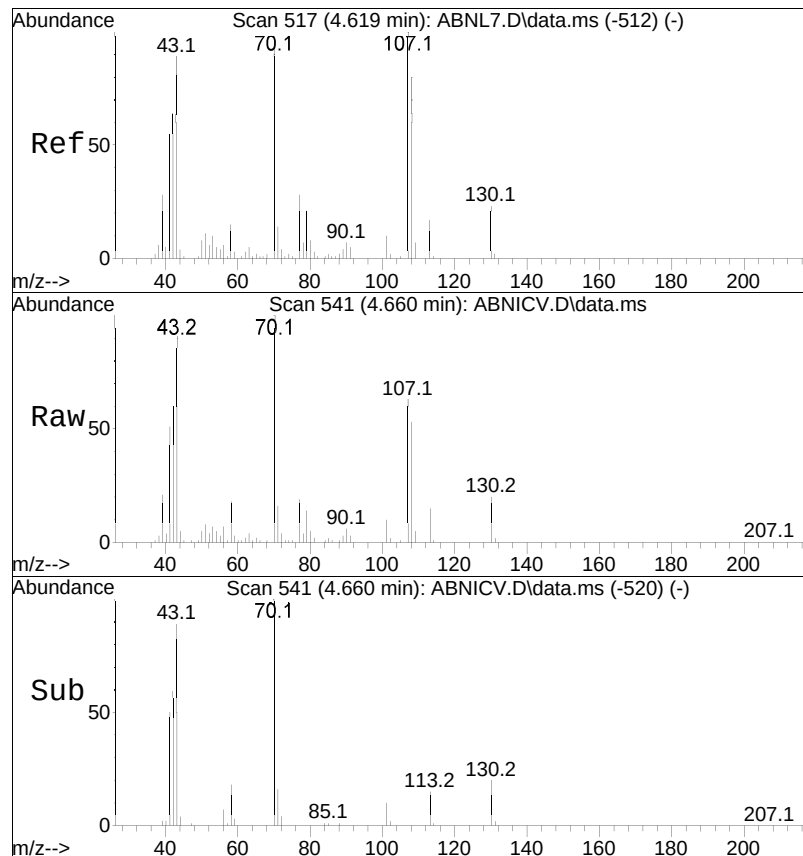




#16  
 Hexachloroethane  
 Concen: 48.88 ug/ml  
 RT: 4.742 min Scan# 555  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

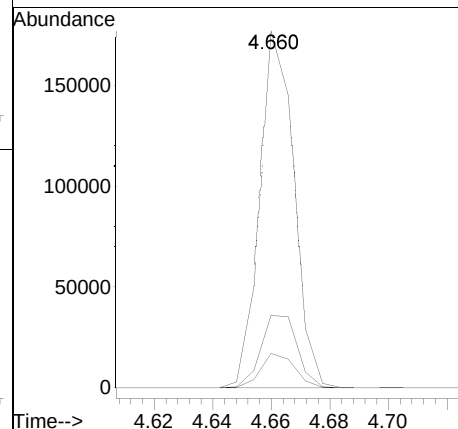
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 97805 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 89.4  | 47.2  | 70.8# |
| 199       | 56.0  | 29.8  | 44.6# |

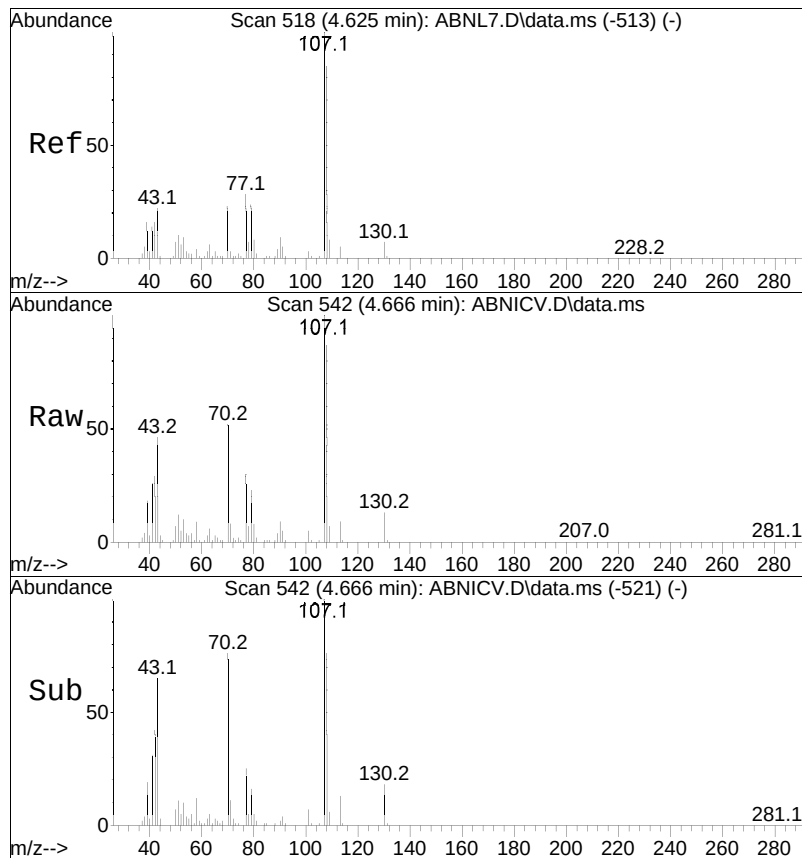




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 50.92 ug/ml  
 RT: 4.660 min Scan# 541  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

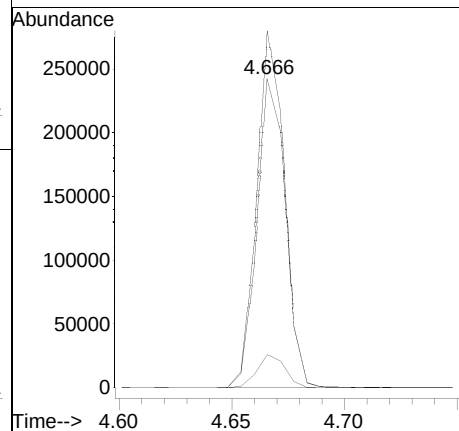
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 143271 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 130       | 21.7  | 18.7  | 28.1   |
| 101       | 9.6   | 8.4   | 12.6   |

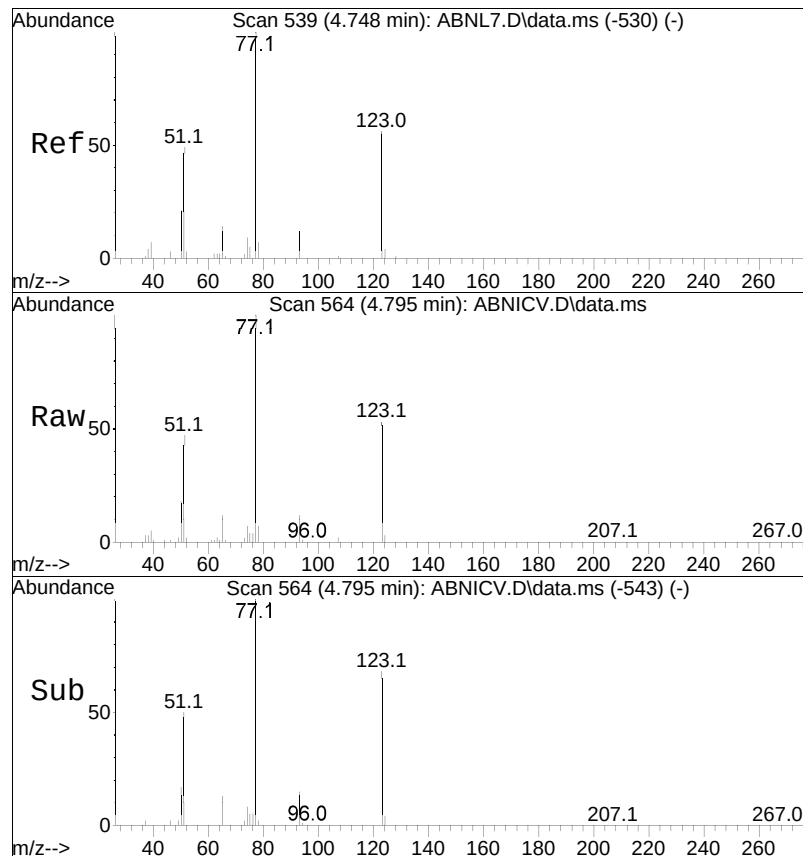




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 50.46 ug/ml  
 RT: 4.666 min Scan# 542  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

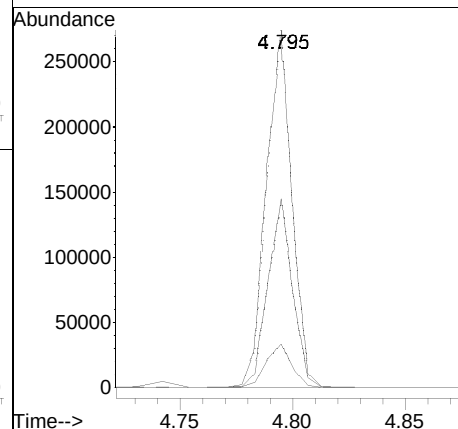
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 212434 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 112.6 | 87.0  | 130.6  |
| 90        | 10.4  | 8.4   | 12.6   |

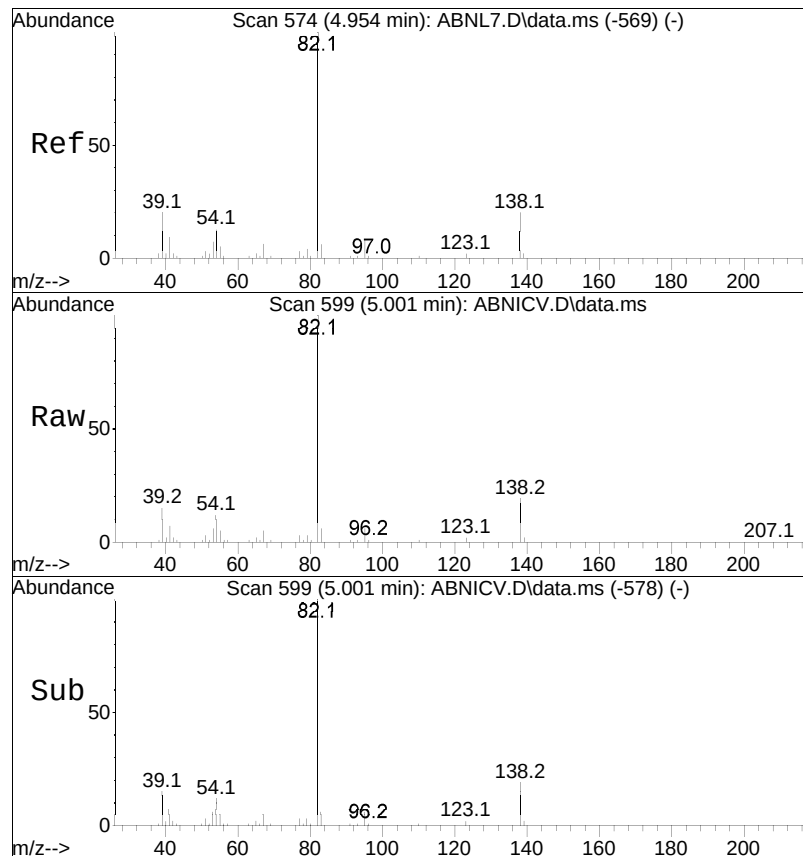




#20  
 Nitrobenzene  
 Concen: 50.27 ug/ml  
 RT: 4.795 min Scan# 564  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

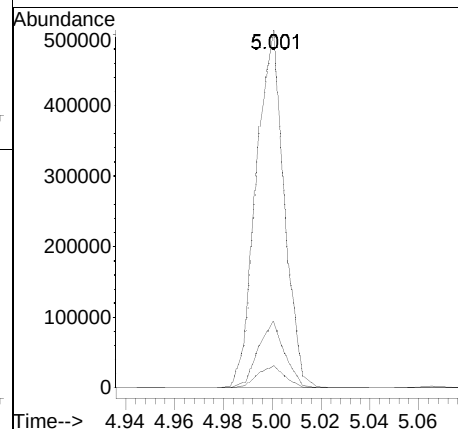
|             |              |
|-------------|--------------|
| Tgt Ion: 77 | Resp: 212147 |
| Ion Ratio   | Lower Upper  |
| 77 100      |              |
| 123 51.0    | 38.3 57.5    |
| 65 12.4     | 10.3 15.5    |

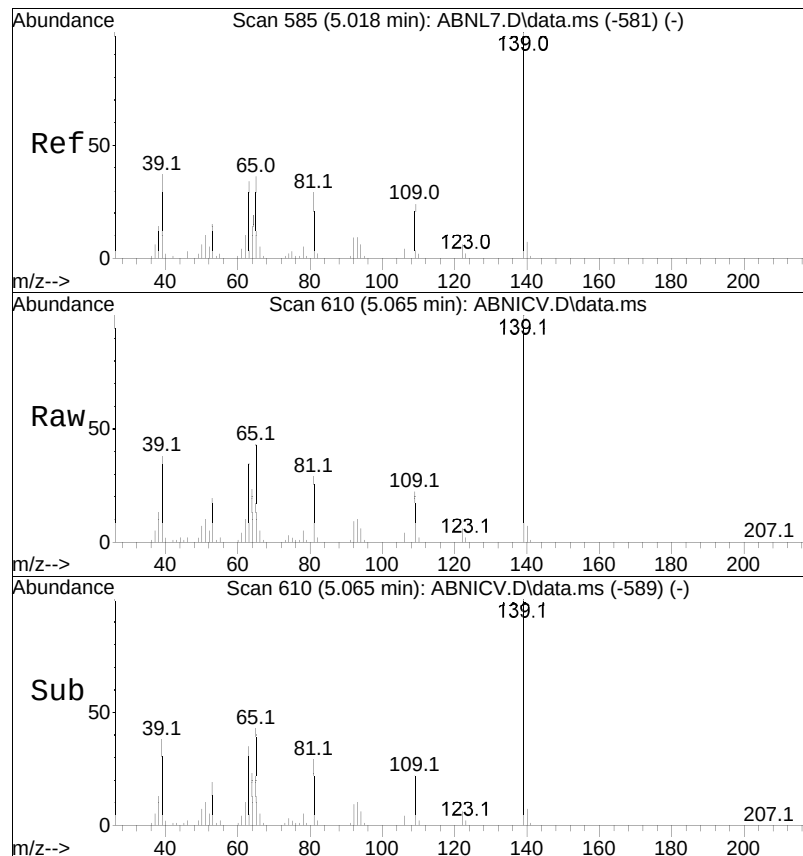




#21  
 Isophorone  
 Concen: 50.96 ug/ml  
 RT: 5.001 min Scan# 599  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

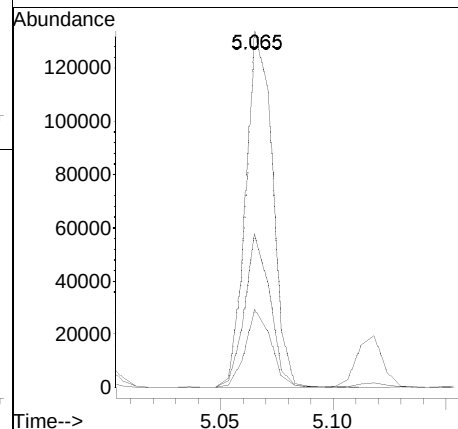
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 399575 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 138       | 17.8  | 13.3  | 19.9   |
| 95        | 6.1   | 5.1   | 7.7    |

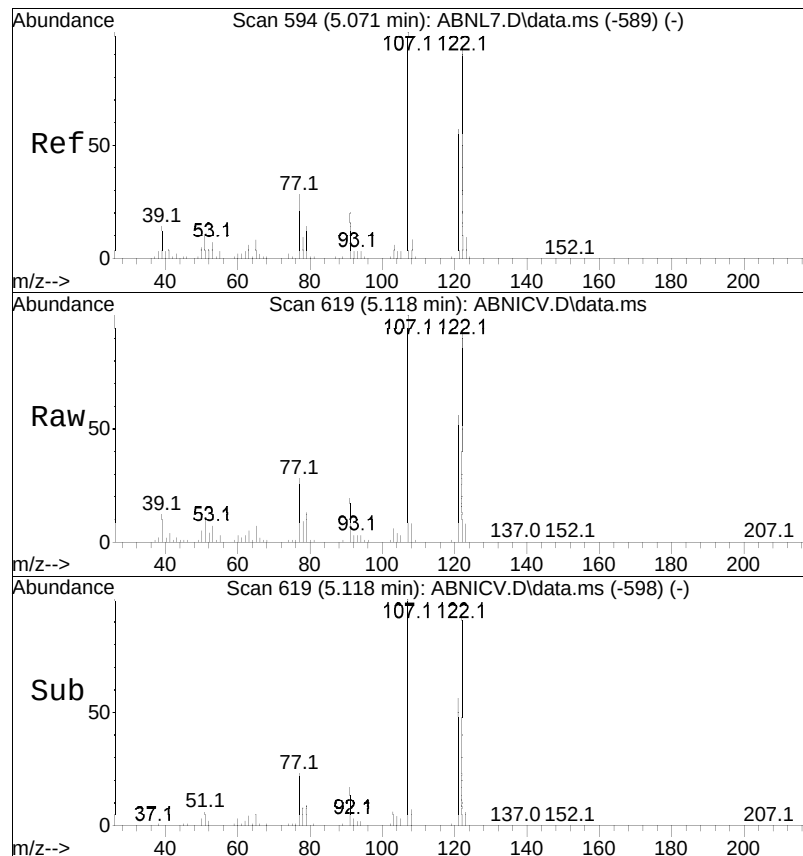




#22  
 2-Nitrophenol  
 Concen: 51.01 ug/ml  
 RT: 5.065 min Scan# 610  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

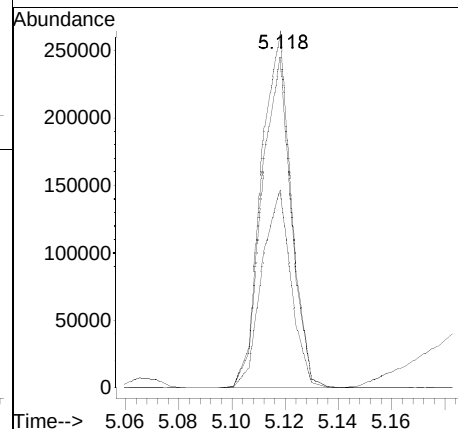
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 139   | Resp: | 110249 |
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 21.3  | 20.1  | 30.1   |
| 65        | 41.1  | 37.8  | 56.8   |



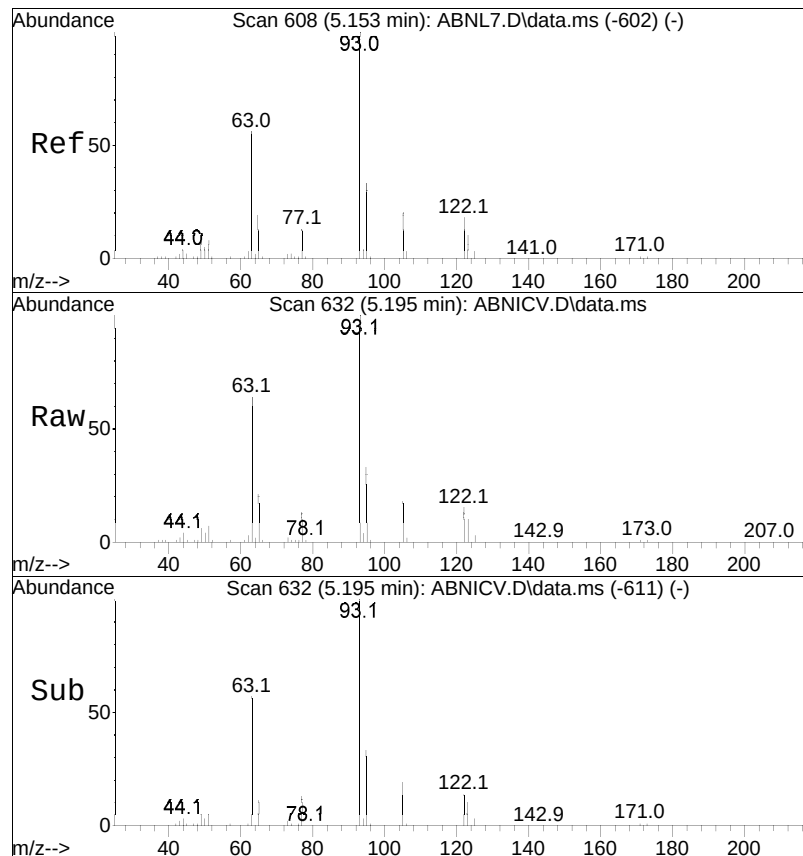


#23  
 2,4-Dimethylphenol  
 Concen: 48.89 ug/ml  
 RT: 5.118 min Scan# 619  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 204590 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 54.5  | 40.2  | 60.4   |
| 122       | 91.4  | 70.2  | 105.4  |

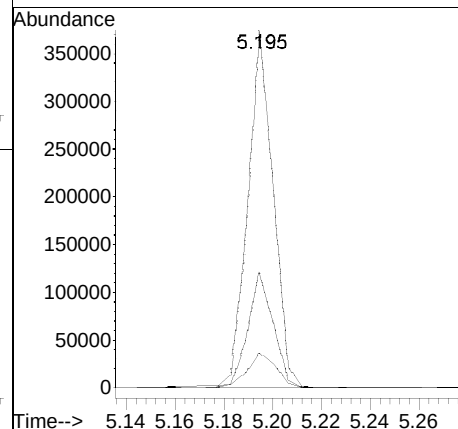


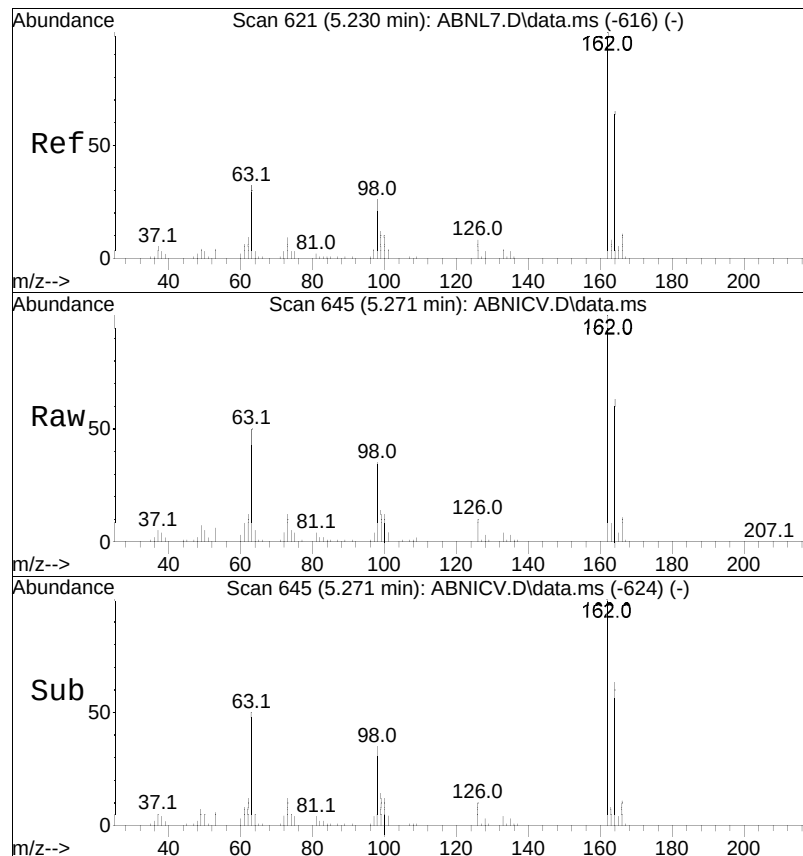




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 50.39 ug/ml  
 RT: 5.195 min Scan# 632  
 Delta R.T. 0.001 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

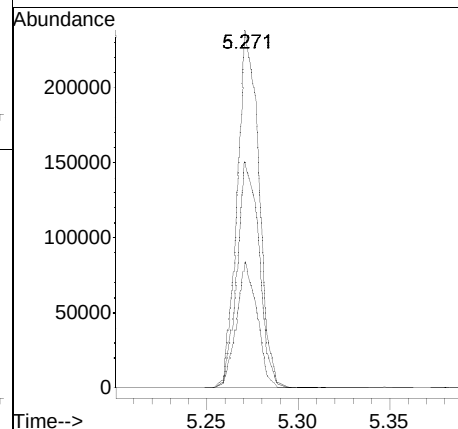
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 266052 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 32.5  | 26.3  | 39.5   |
| 123       | 12.6  | 11.4  | 17.0   |

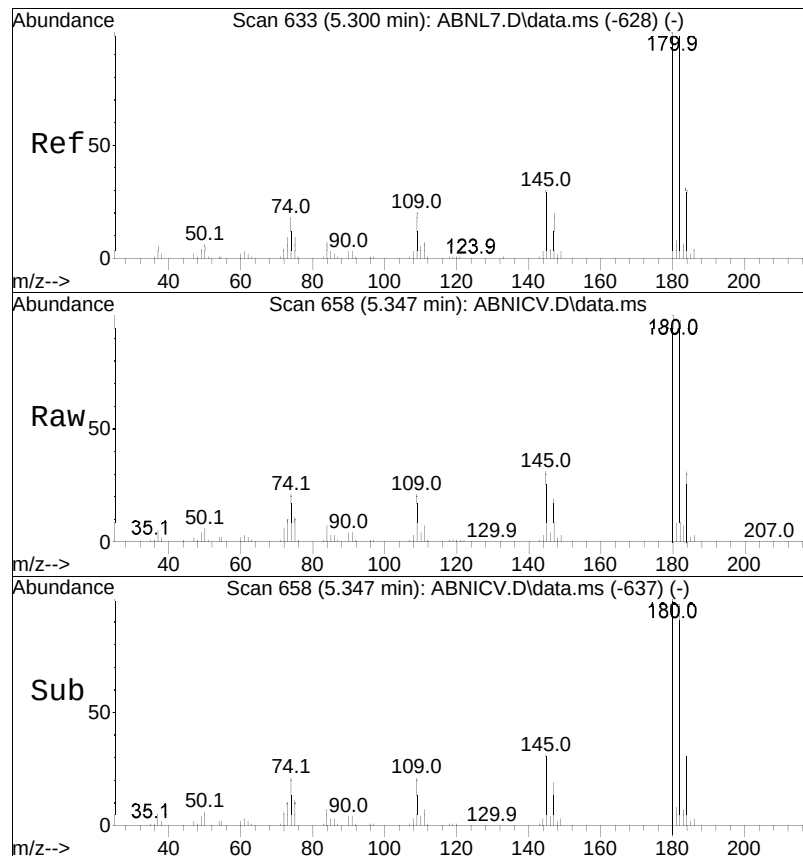




#25  
 2,4-Dichlorophenol  
 Concen: 51.25 ug/ml  
 RT: 5.271 min Scan# 645  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

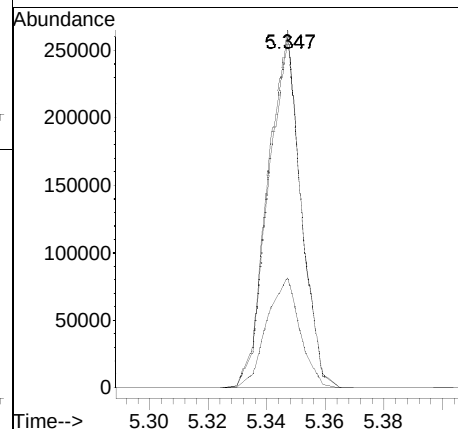
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 194400 |       |       |
| 164     | 64.2  |        | 51.2  | 76.8  |
| 98      | 33.7  |        | 34.6  | 52.0# |

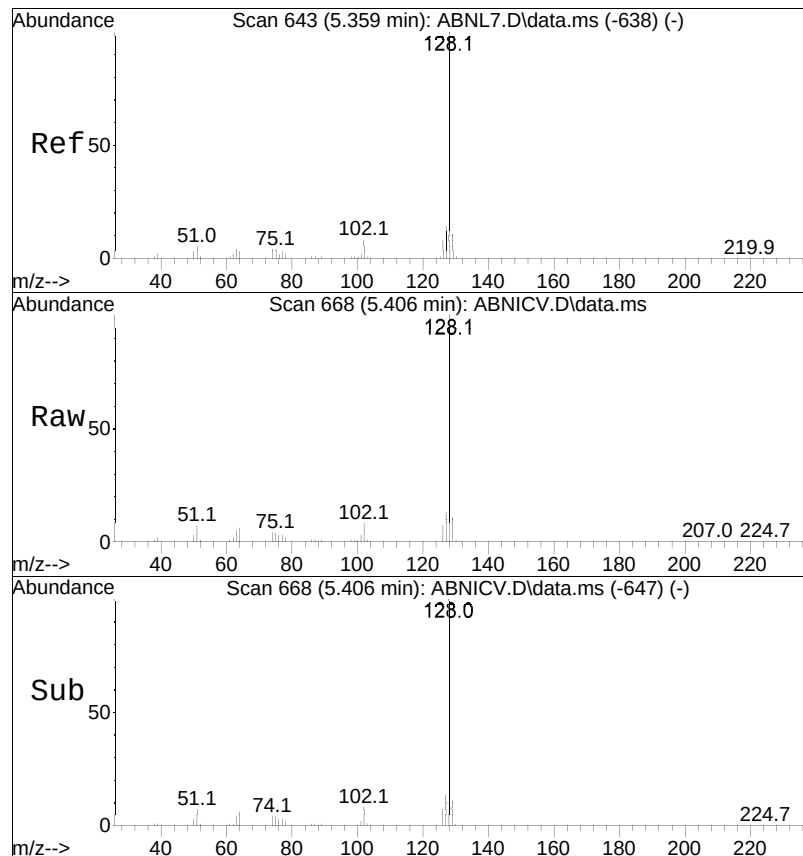




#26  
 1,2,4-Trichlorobenzene  
 Concen: 49.28 ug/ml  
 RT: 5.347 min Scan# 658  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

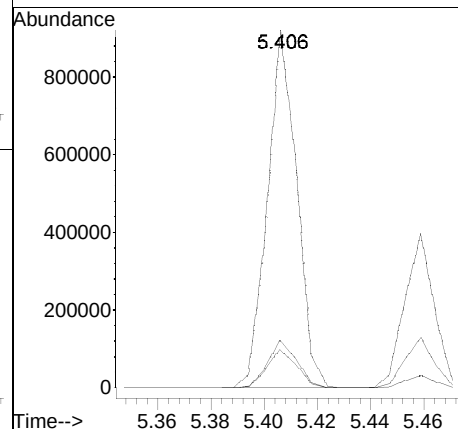
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.8  | 76.6  | 115.0 |
| 145     | 31.1  | 26.3  | 39.5  |

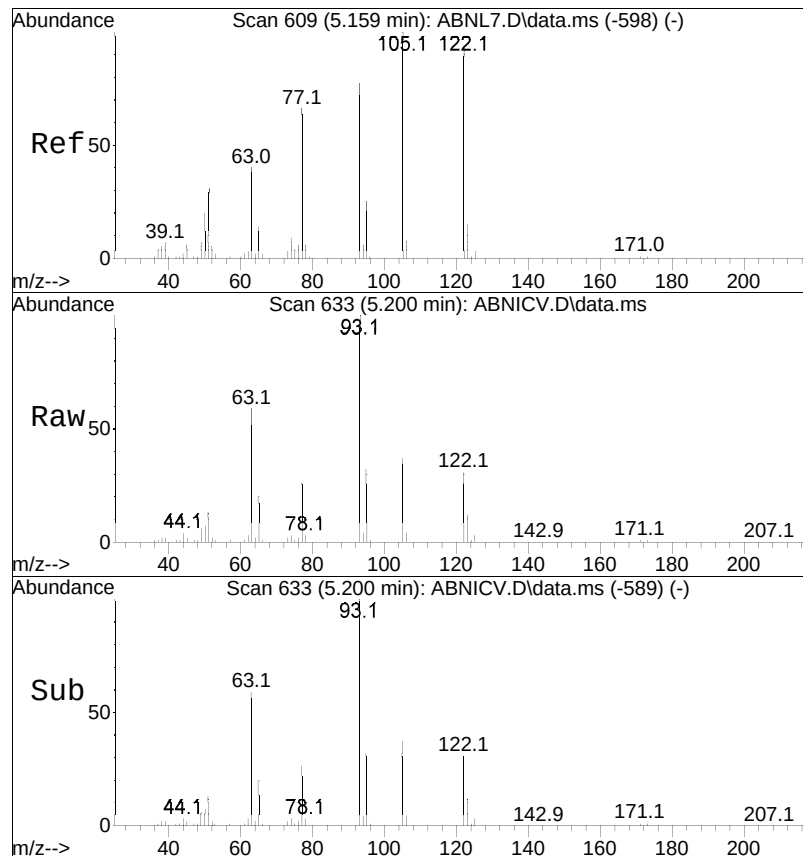




#36  
 Naphthalene  
 Concen: 48.57 ug/ml  
 RT: 5.406 min Scan# 668  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

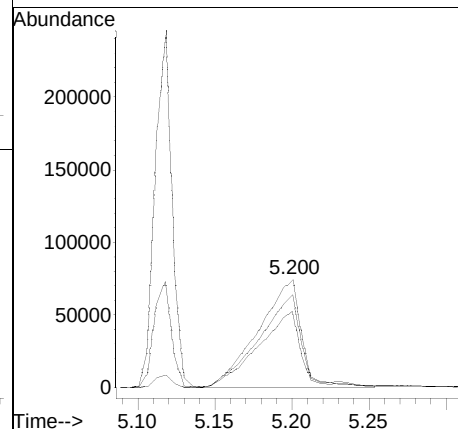
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 128 | 100  |       | 698213 |       |       |
| 129 | 11.0 | 9.0   | 13.6   |       |       |
| 127 | 13.3 | 11.3  | 16.9   |       |       |

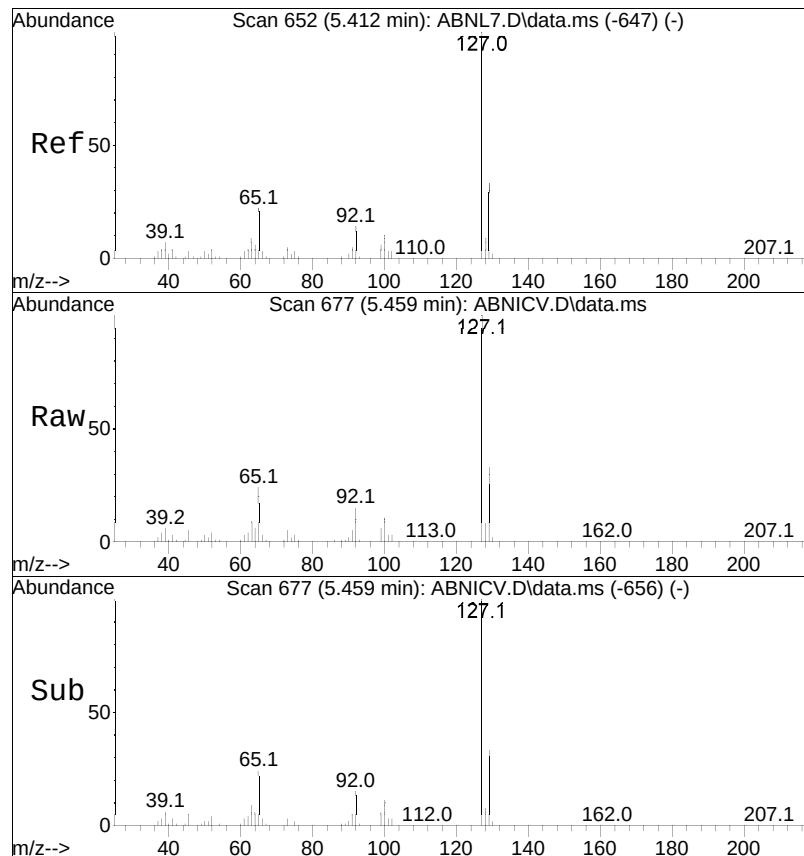




#37  
 Benzoic Acid  
 Concen: 45.03 ug/ml  
 RT: 5.200 min Scan# 633  
 Delta R.T. 0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

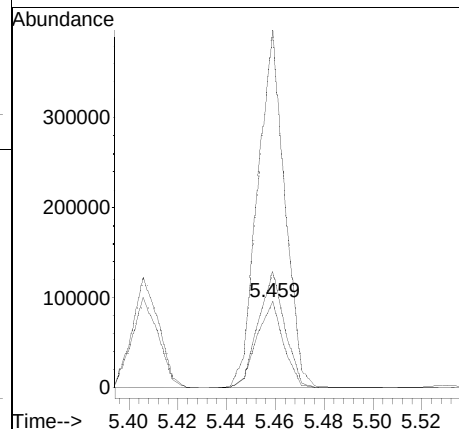
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 146568 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 122       | 84.8  | 61.5  | 92.3   |
| 77        | 70.0  | 57.4  | 86.2   |

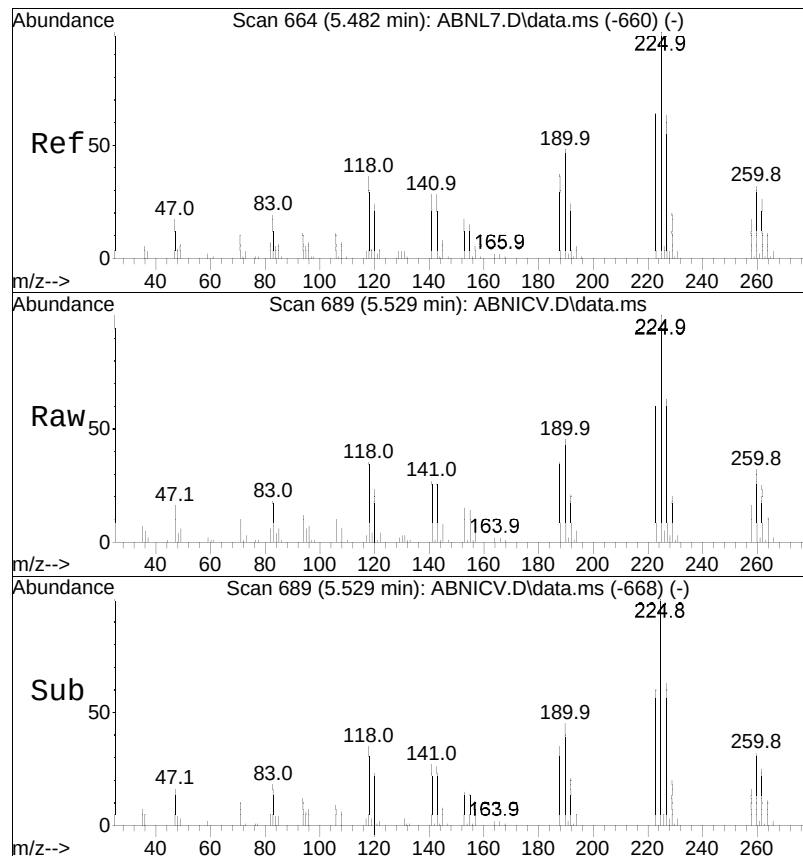




#38  
 4-Chloroaniline  
 Concen: 49.14 ug/ml  
 RT: 5.459 min Scan# 677  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

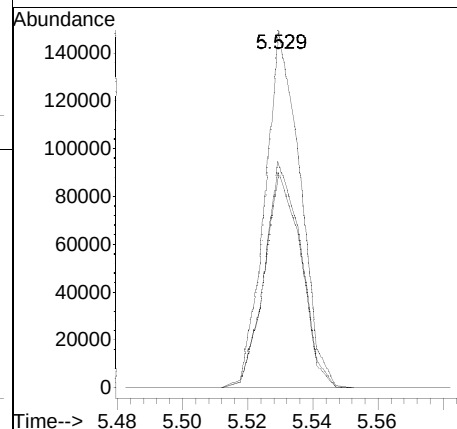
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 65    | Resp: | 73344 |
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 127       | 417.0 | 295.3 | 442.9 |
| 129       | 133.4 | 96.3  | 144.5 |

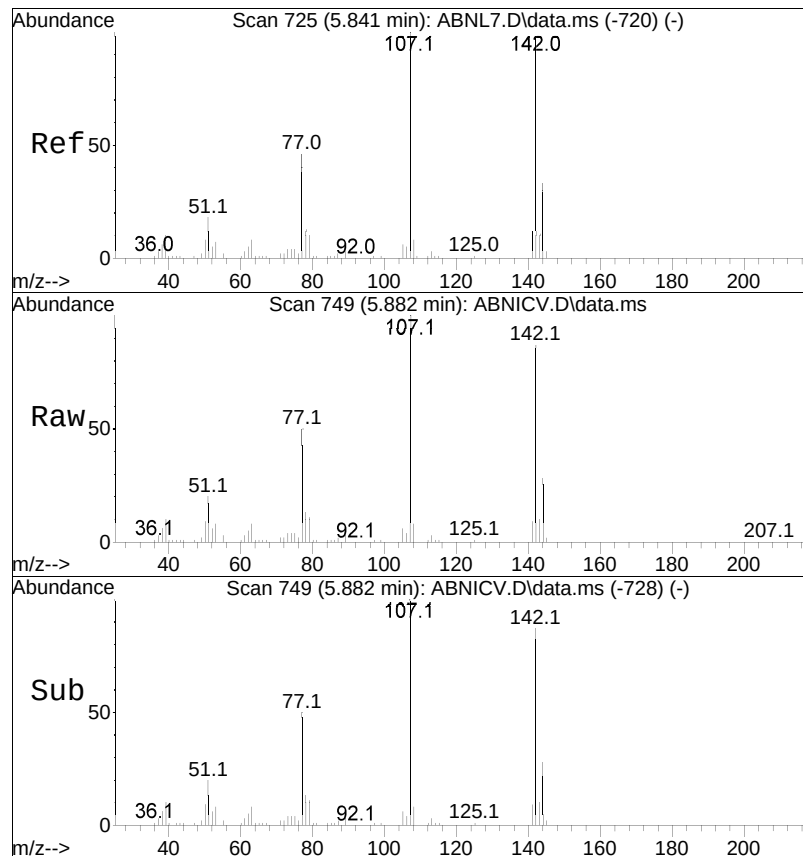




#39  
 Hexachlorobutadiene  
 Concen: 48.60 ug/ml  
 RT: 5.529 min Scan# 689  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

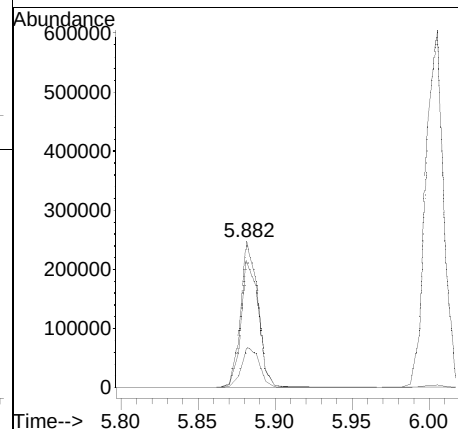
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 112217 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 62.5  | 50.2  | 75.2   |
| 227       | 65.1  | 51.3  | 76.9   |



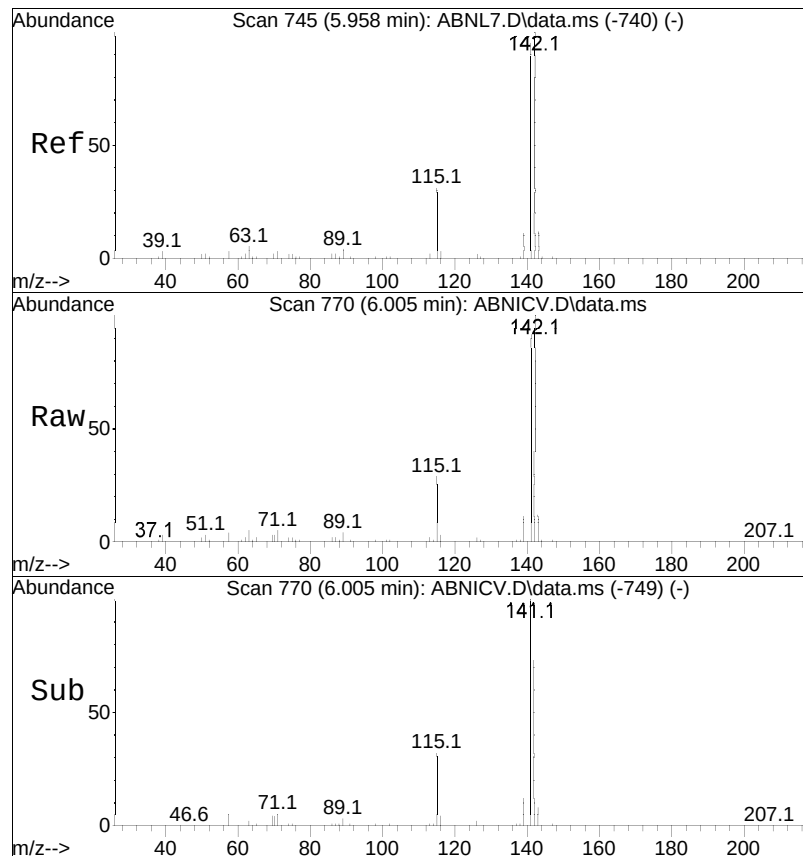


#40  
 p-Chloro-m-cresol  
 Concen: 51.69 ug/ml  
 RT: 5.882 min Scan# 749  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 195522 |       |       |
| 144     | 28.3  |        | 20.7  | 31.1  |
| 142     | 87.8  |        | 63.7  | 95.5  |

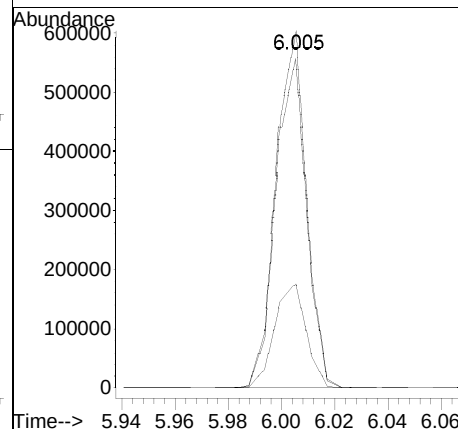


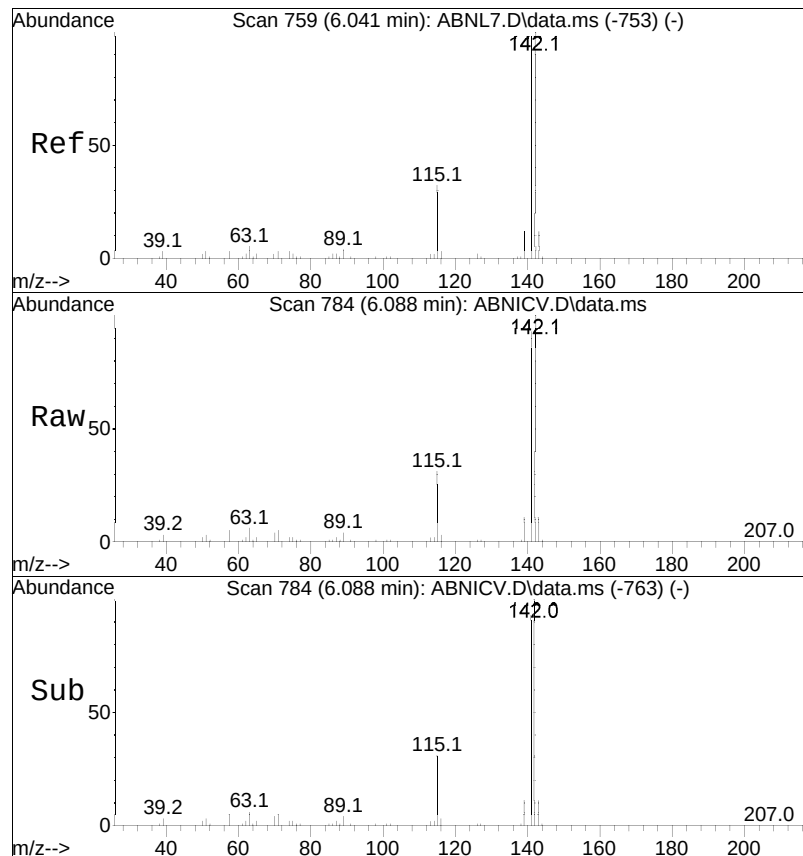




#41  
 2-Methylnaphthalene  
 Concen: 50.60 ug/ml  
 RT: 6.005 min Scan# 770  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

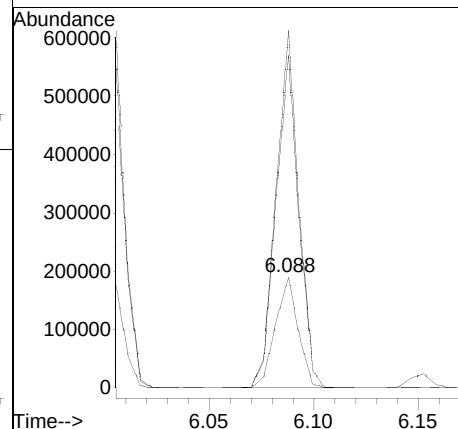
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 481434 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 92.7  | 71.0  | 106.6  |
| 115       | 30.3  | 29.8  | 44.6   |

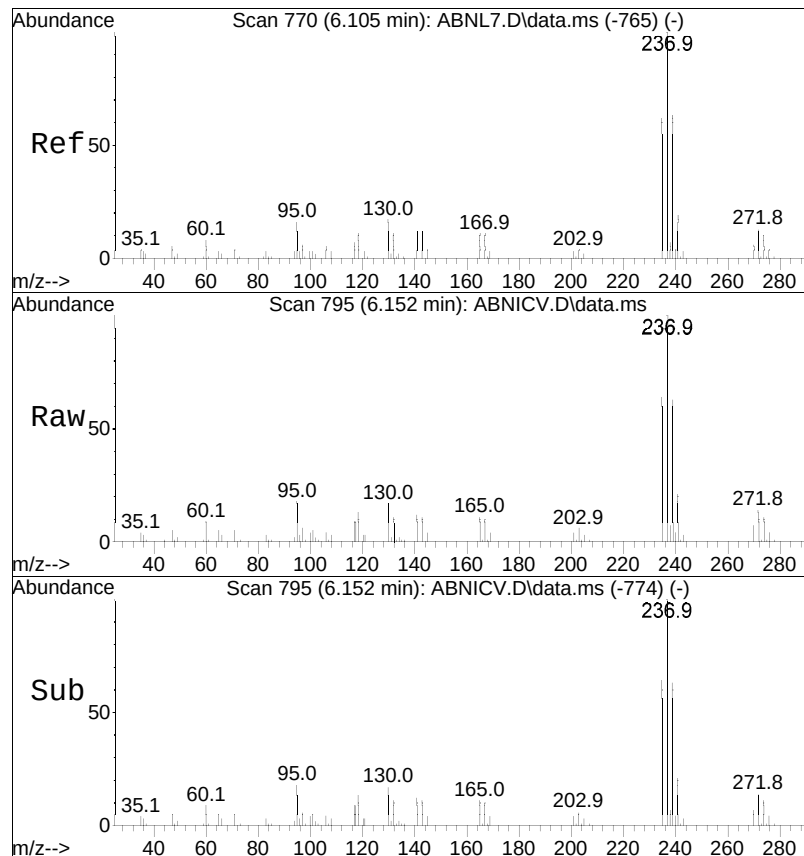




#42  
 1-Methylnaphthalene  
 Concen: 50.92 ug/ml  
 RT: 6.088 min Scan# 784  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

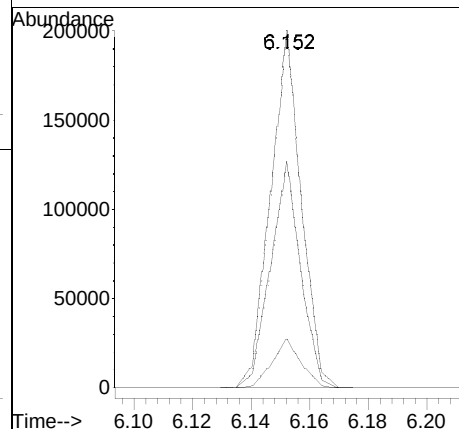
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 115     | 100   |       |        |
| 141     | 299.1 | 188.9 | 283.3# |
| 142     | 318.9 | 205.5 | 308.3# |

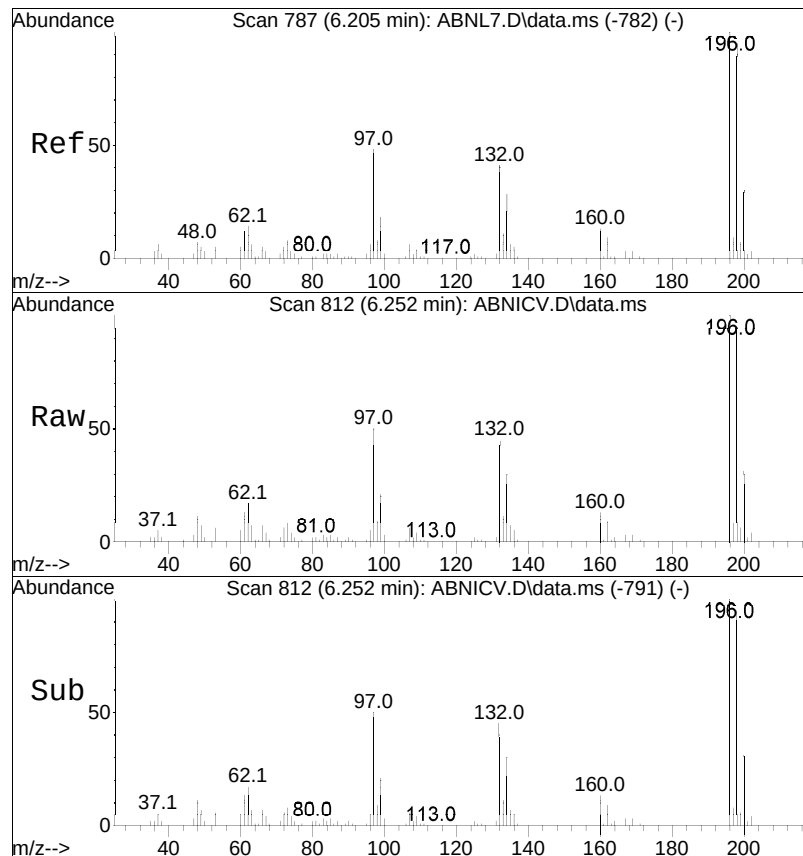




#43  
 Hexachlorocyclopentadiene  
 Concen: 49.74 ug/ml  
 RT: 6.152 min Scan# 795  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

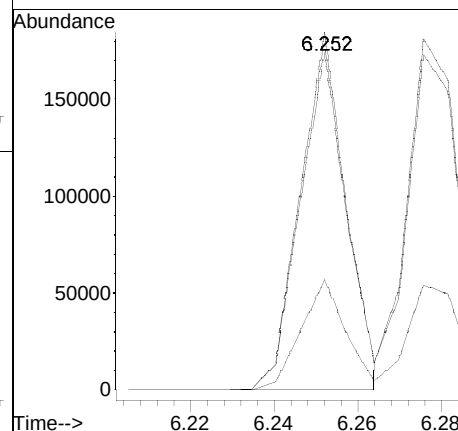
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 237     | 100   | 144226 |       |       |
| 235     | 62.2  |        | 50.2  | 75.2  |
| 272     | 13.2  |        | 11.4  | 17.2  |

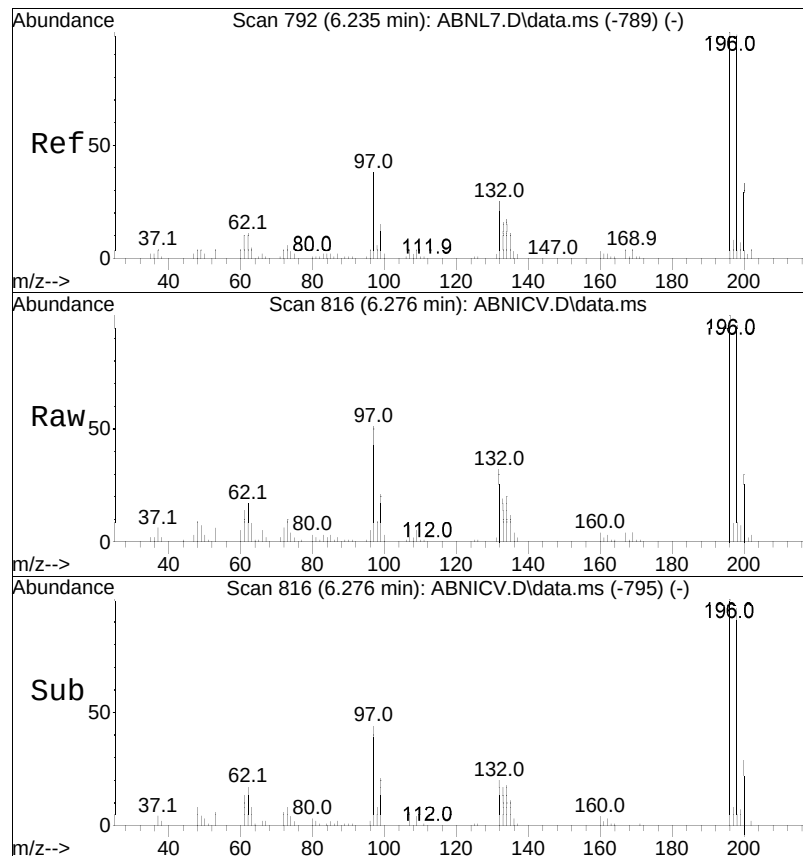




#44  
 2,4,6-Trichlorophenol  
 Concen: 50.03 ug/ml  
 RT: 6.252 min Scan# 812  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

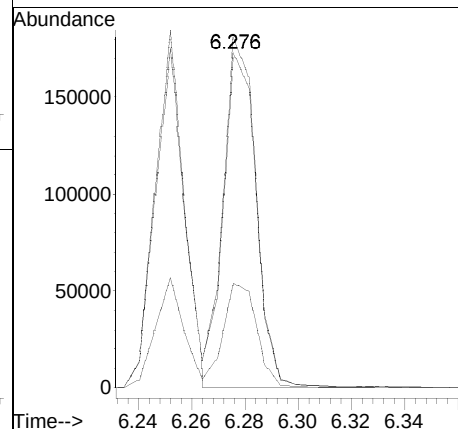
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 140083 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 96.0  | 76.0  | 114.0  |
| 200       | 30.6  | 24.9  | 37.3   |

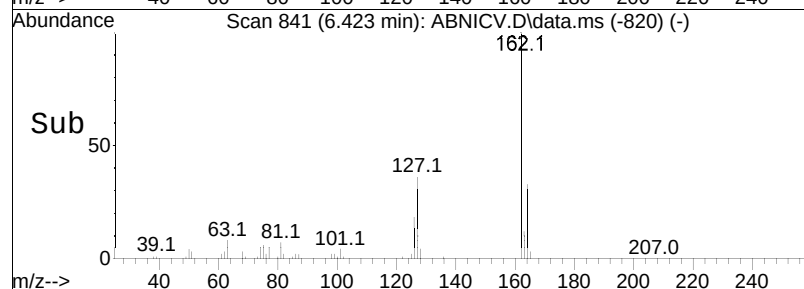
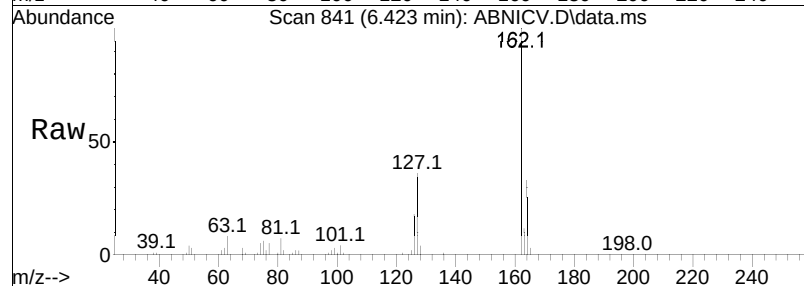
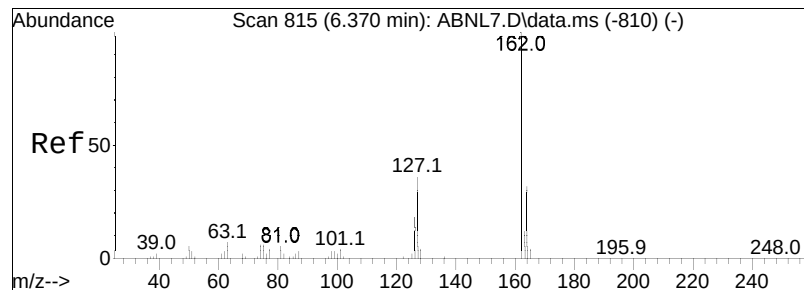




#45  
 2,4,5-Trichlorophenol  
 Concen: 52.07 ug/ml  
 RT: 6.276 min Scan# 816  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

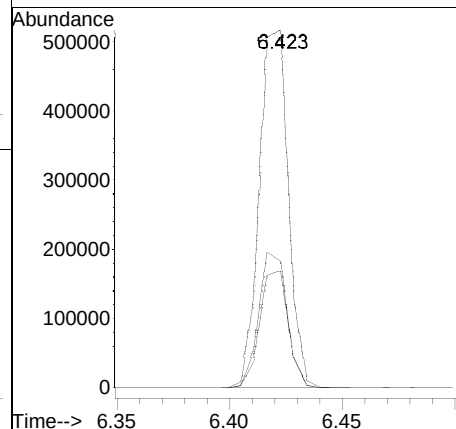
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 200     | 31.1  | 23.8  | 35.6  |
| 198     | 96.5  | 74.3  | 111.5 |

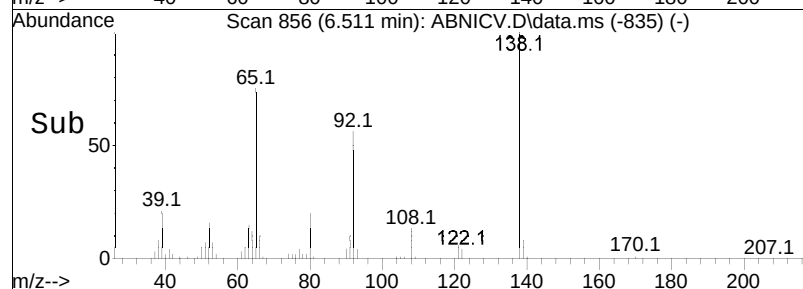
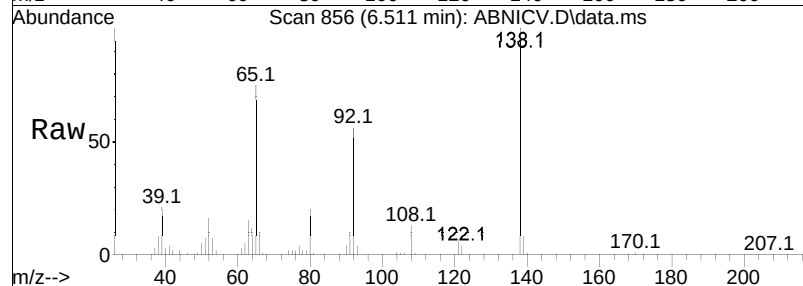
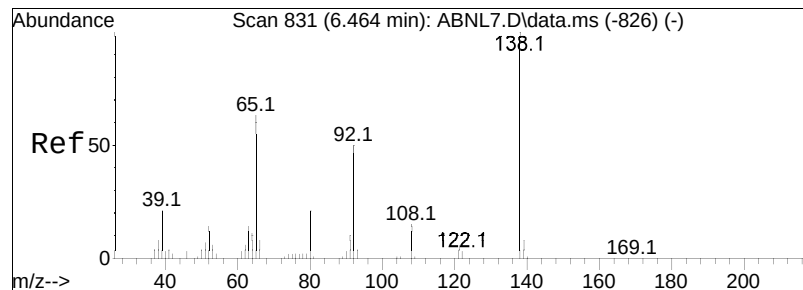




#47  
 2-Chloronaphthalene  
 Concen: 50.49 ug/ml  
 RT: 6.423 min Scan# 841  
 Delta R.T. 0.001 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

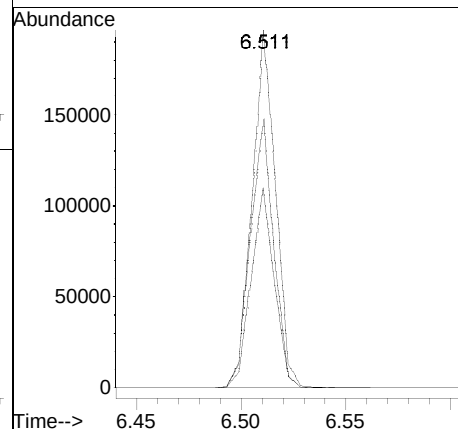
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 457329 |       |       |
| 127     | 37.0  |        | 33.9  | 50.9  |
| 164     | 32.4  |        | 26.3  | 39.5  |

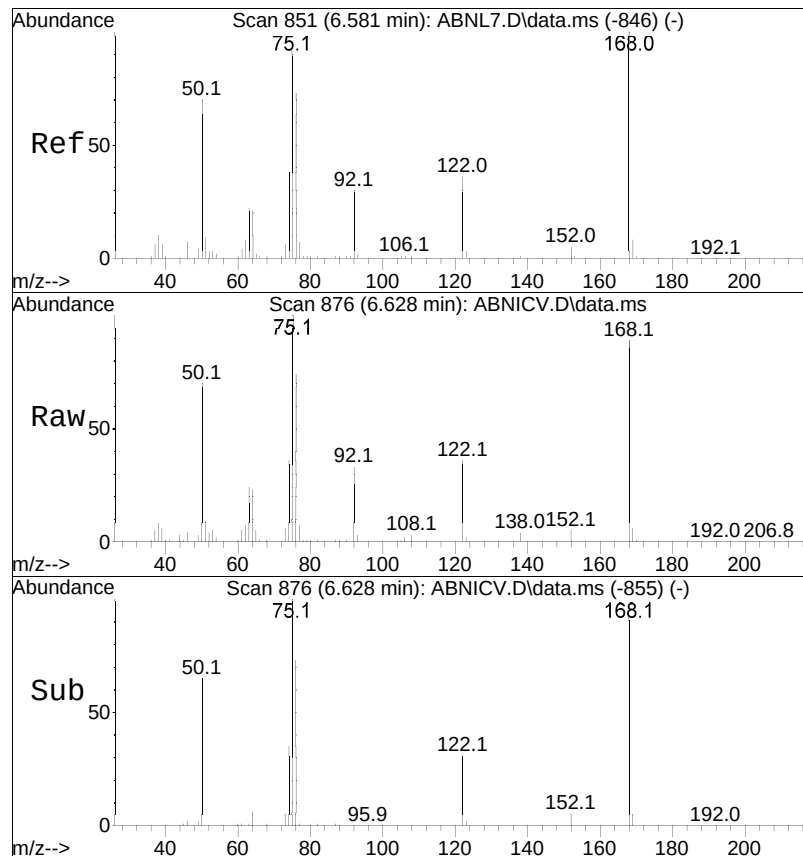




#48  
 2-Nitroaniline  
 Concen: 50.75 ug/ml  
 RT: 6.511 min Scan# 856  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

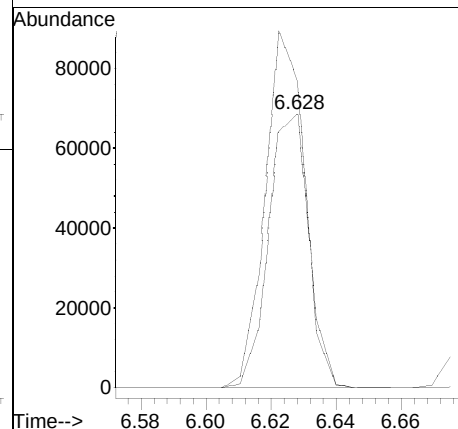
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 55.5  | 52.5  | 78.7  |
| 65      | 75.1  | 67.7  | 101.5 |



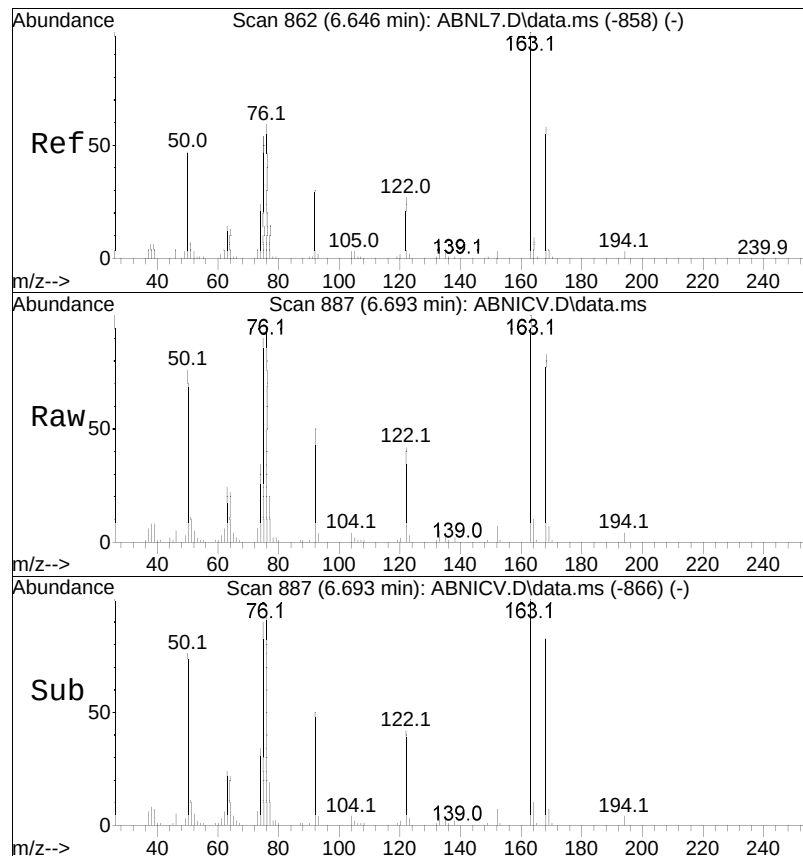


#49  
 1,4-Dinitrobenzene  
 Concen: 48.21 ug/ml  
 RT: 6.628 min Scan# 876  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 75      | 127.0 | 120.6 | 181.0 |

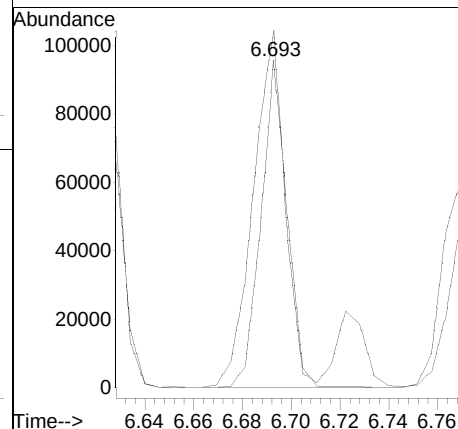


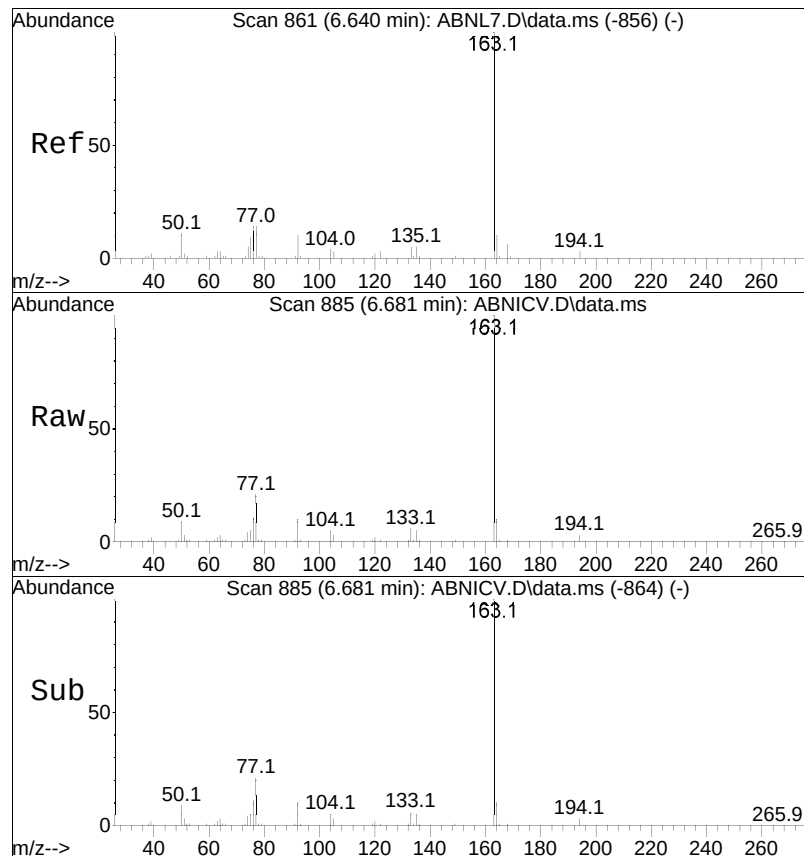




#50  
 1,3-Dinitrobenzene  
 Concen: 48.89 ug/ml  
 RT: 6.693 min Scan# 887  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

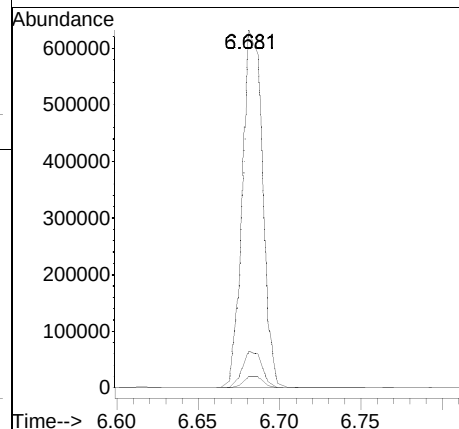
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 75      | 133.5 | 126.3 | 189.5 |

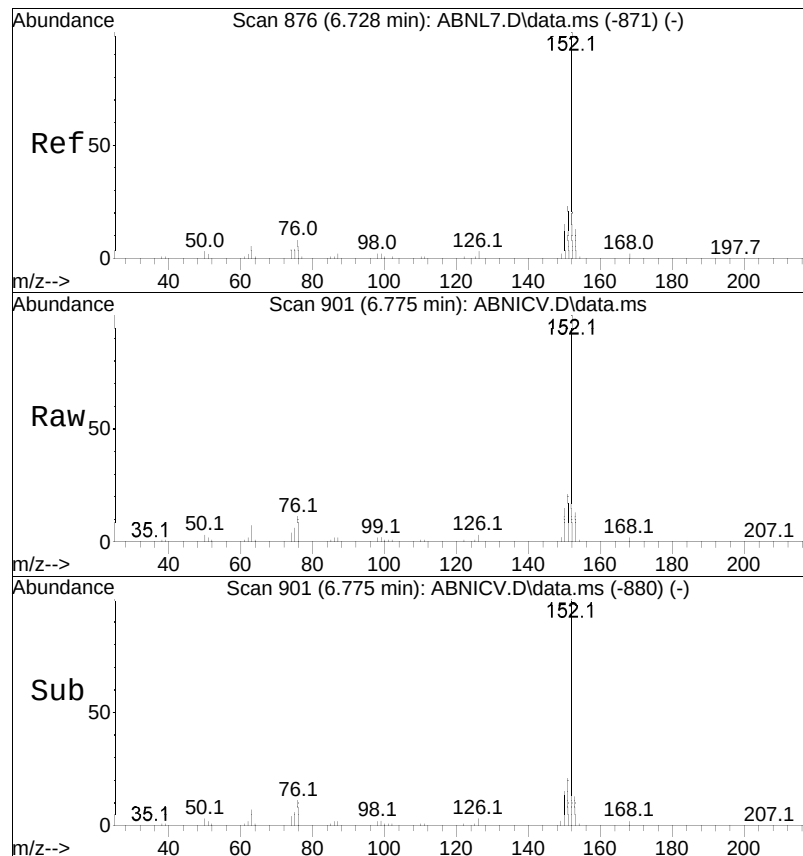




#51  
 Dimethyl phthalate  
 Concen: 50.78 ug/ml  
 RT: 6.681 min Scan# 885  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

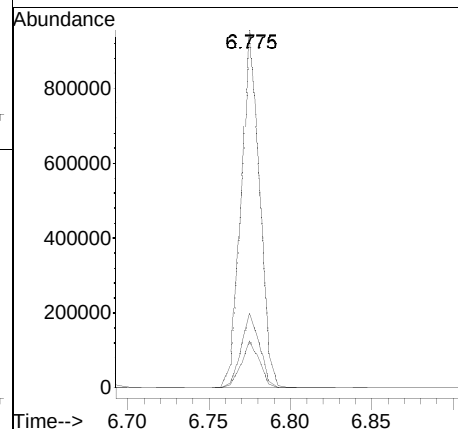
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 541078 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.2   | 3.5   | 5.3#   |
| 164       | 10.2  | 8.3   | 12.5   |

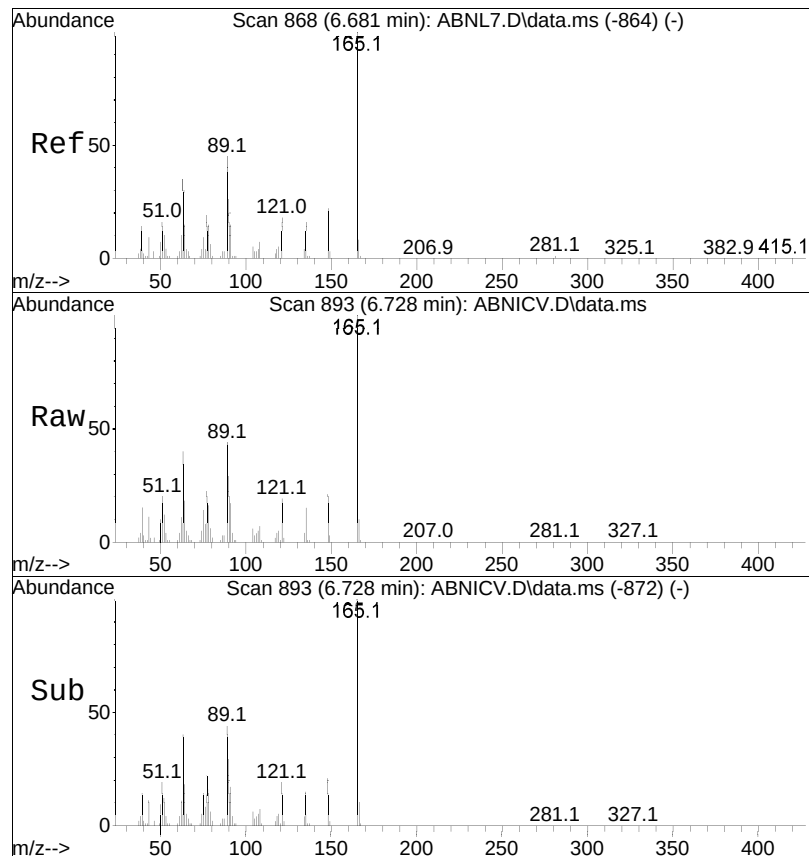




#52  
 Acenaphthylene  
 Concen: 50.46 ug/ml  
 RT: 6.775 min Scan# 901  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

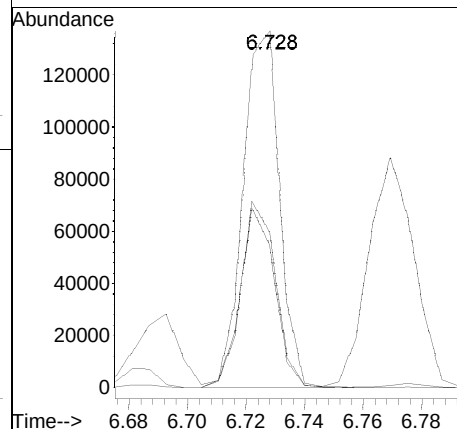
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 745257 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 21.1  | 17.7  | 26.5   |
| 153       | 13.1  | 10.6  | 15.8   |

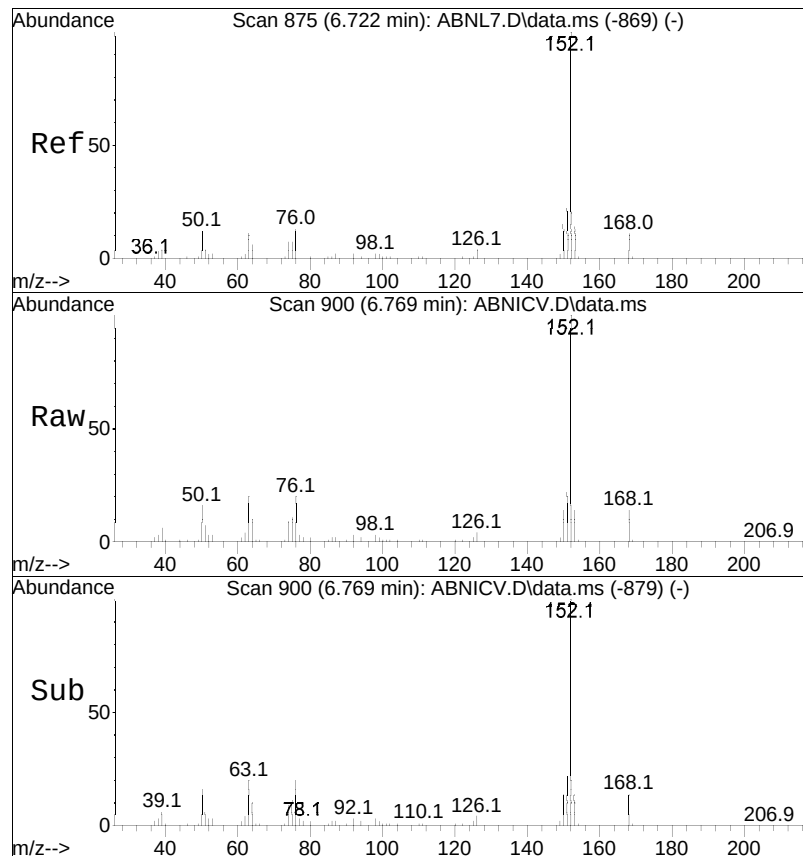




#53  
 2,6-Dinitrotoluene  
 Concen: 53.07 ug/ml  
 RT: 6.728 min Scan# 893  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

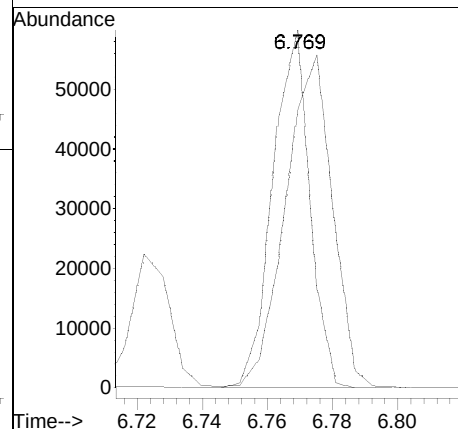
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:165 | Resp: | 118327 |
| Ion | Ratio   | Lower | Upper  |
| 165 | 100     |       |        |
| 89  | 49.8    | 56.8  | 85.2#  |
| 63  | 47.6    | 50.6  | 76.0#  |

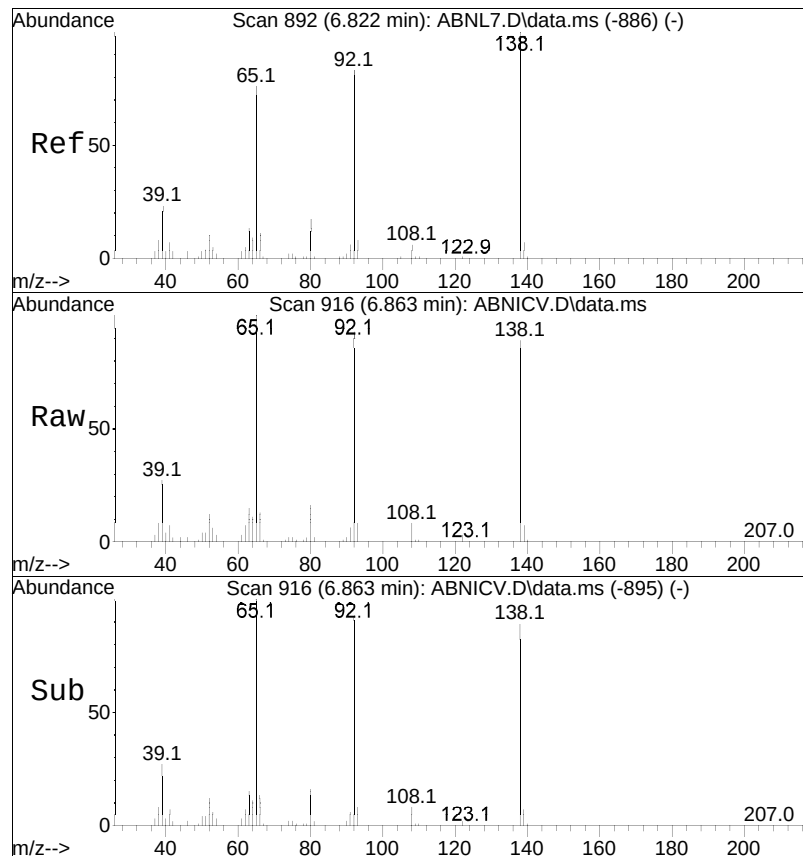




#54  
 1,2-Dinitrobenzene  
 Concen: 53.76 ug/ml  
 RT: 6.769 min Scan# 900  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

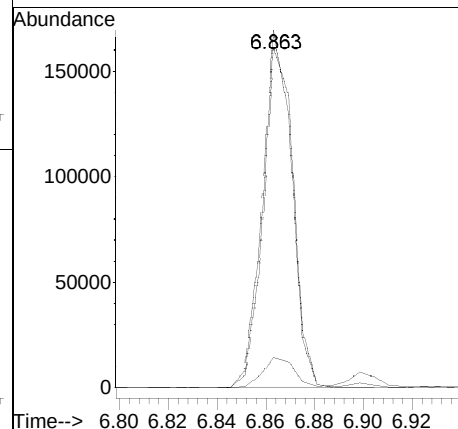
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 168 | 100   |       |       |       |
| 75  | 117.7 | 106.6 | 160.0 |       |

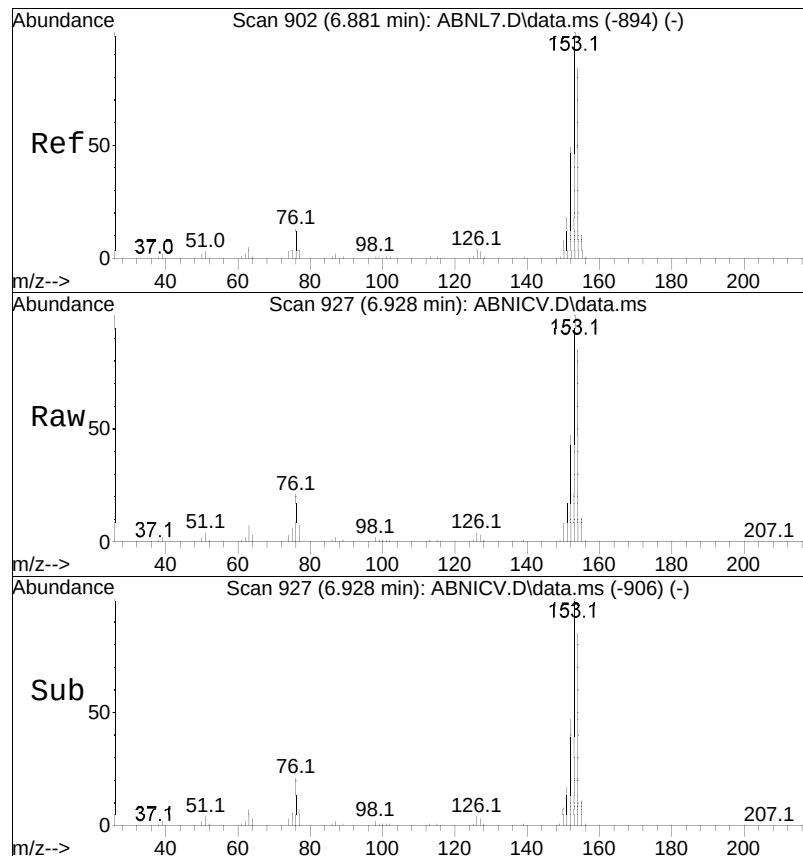




#64  
 3-Nitroaniline  
 Concen: 49.98 ug/ml  
 RT: 6.863 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

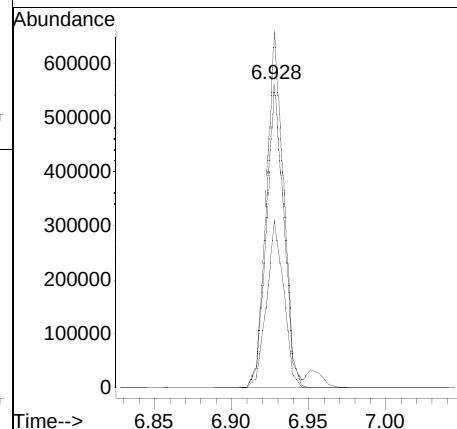
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 137467 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 101.4 | 95.4  | 143.2  |
| 108       | 9.2   | 8.1   | 12.1   |

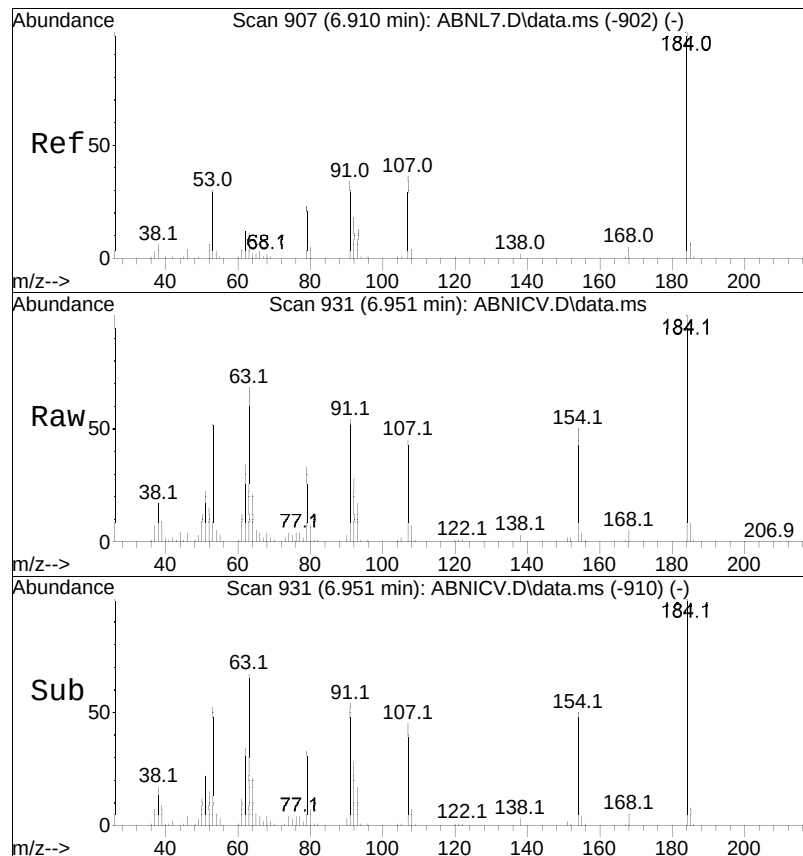




#65  
 Acenaphthene  
 Concen: 50.56 ug/ml  
 RT: 6.928 min Scan# 927  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

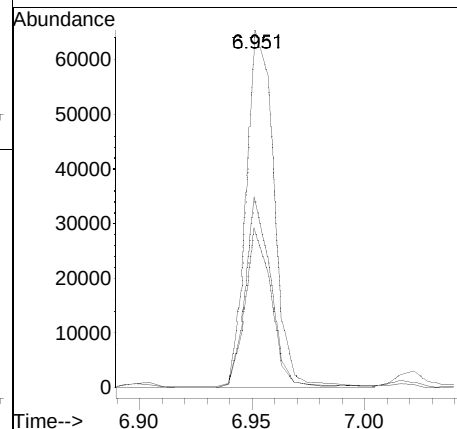
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 464845 |       |       |
| 153     | 109.6 |        | 89.2  | 133.8 |
| 152     | 51.9  |        | 44.2  | 66.2  |



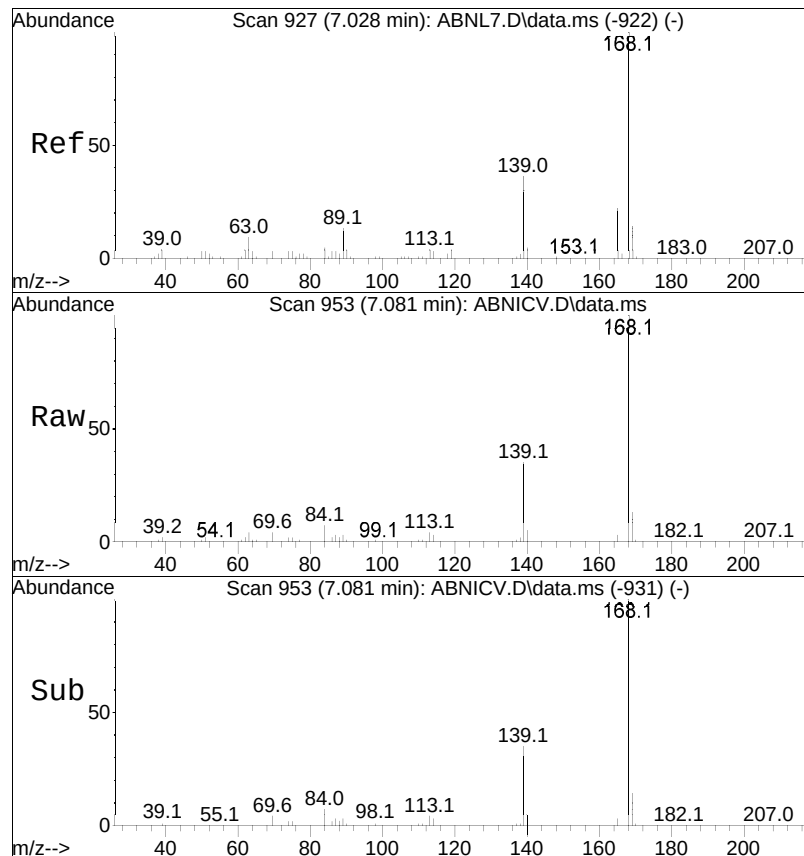


#66  
 2,4-Dinitrophenol  
 Concen: 43.14 ug/ml  
 RT: 6.951 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 107     | 42.2  | 40.6  | 61.0  |
| 91      | 49.7  | 47.3  | 70.9  |

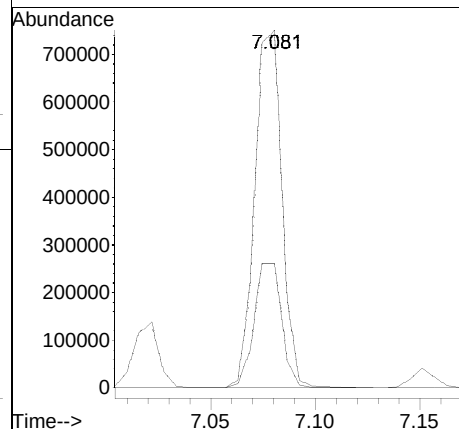


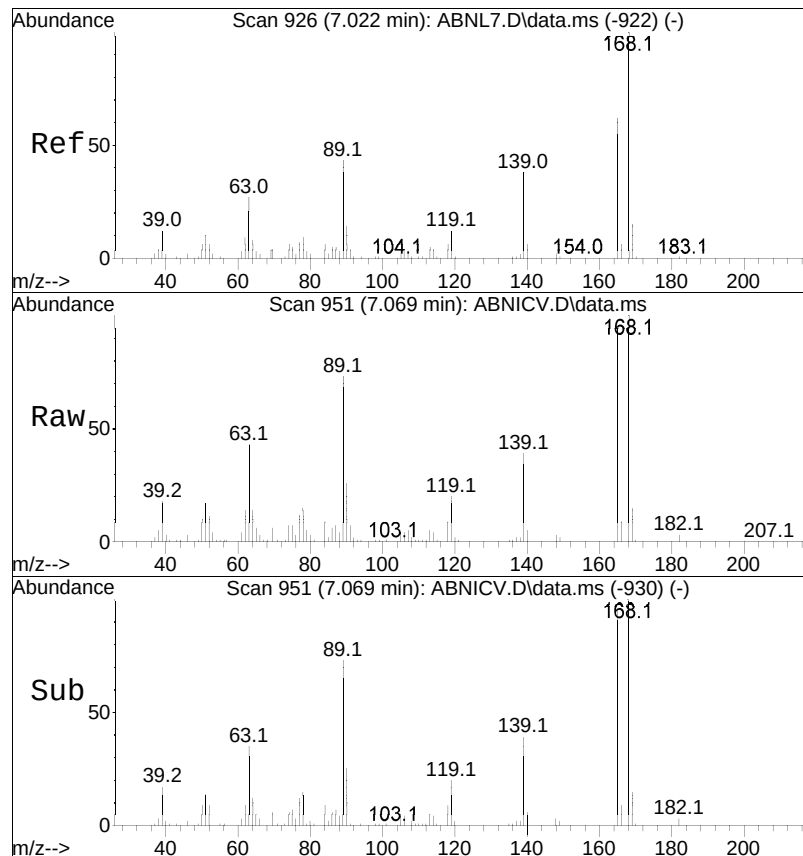




#67  
 Dibenzofuran  
 Concen: 48.64 ug/ml  
 RT: 7.081 min Scan# 953  
 Delta R.T. 0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

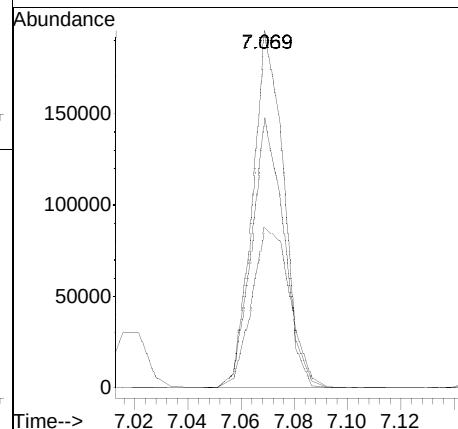
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 168 | 100  |       |       |       |
| 139 | 35.5 | 33.3  | 49.9  |       |

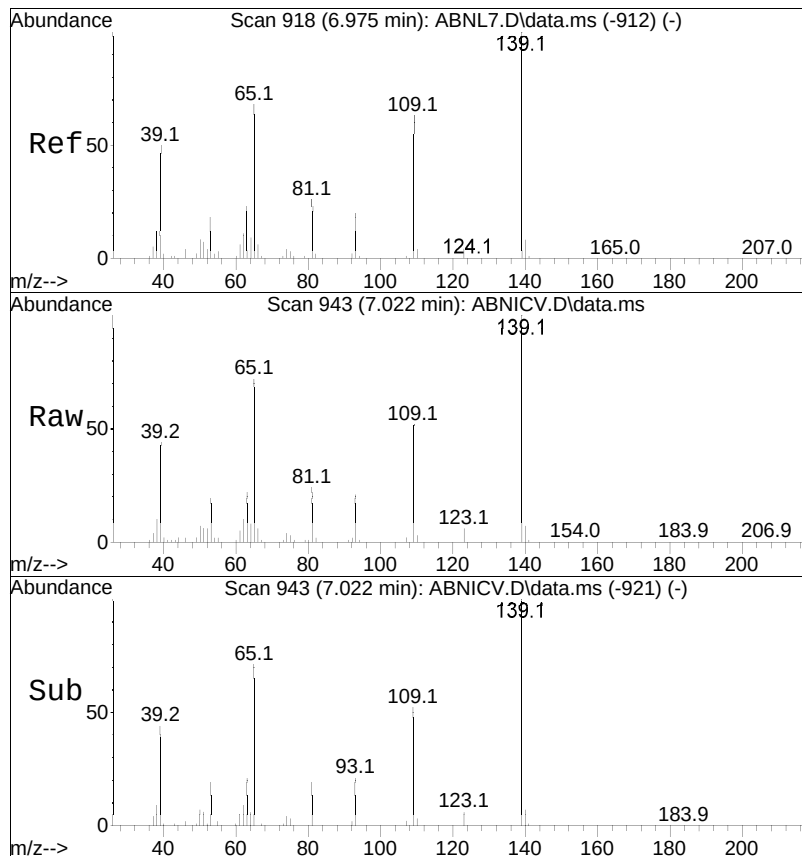




#68  
 2,4-Dinitrotoluene  
 Concen: 51.63 ug/ml  
 RT: 7.069 min Scan# 951  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

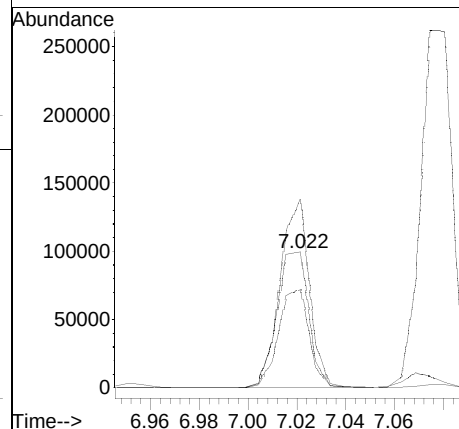
| Tgt Ion | Ratio | Resp   | Lower  | Upper |
|---------|-------|--------|--------|-------|
| 165     | 100   | 155866 |        |       |
| 89      | 79.4  | 82.6   | 124.0# |       |
| 63      | 55.8  | 56.9   | 85.3#  |       |

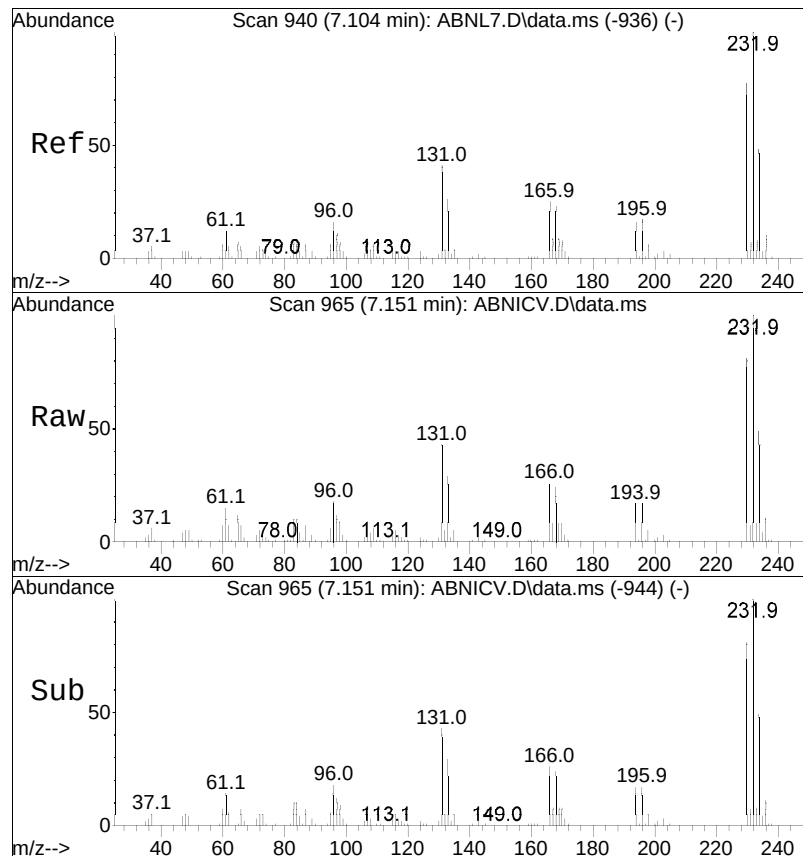




#69  
 4-Nitrophenol  
 Concen: 49.62 ug/ml  
 RT: 7.022 min Scan# 943  
 Delta R.T. 0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

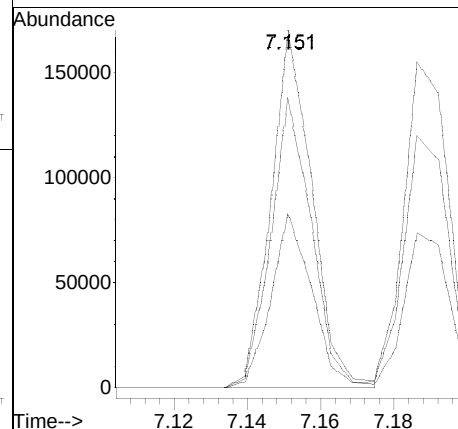
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 65 | Resp: | 90674 |
| Ion | Ratio   | Lower | Upper |
| 65  | 100     |       |       |
| 109 | 70.6    | 60.7  | 91.1  |
| 139 | 128.0   | 90.3  | 135.5 |

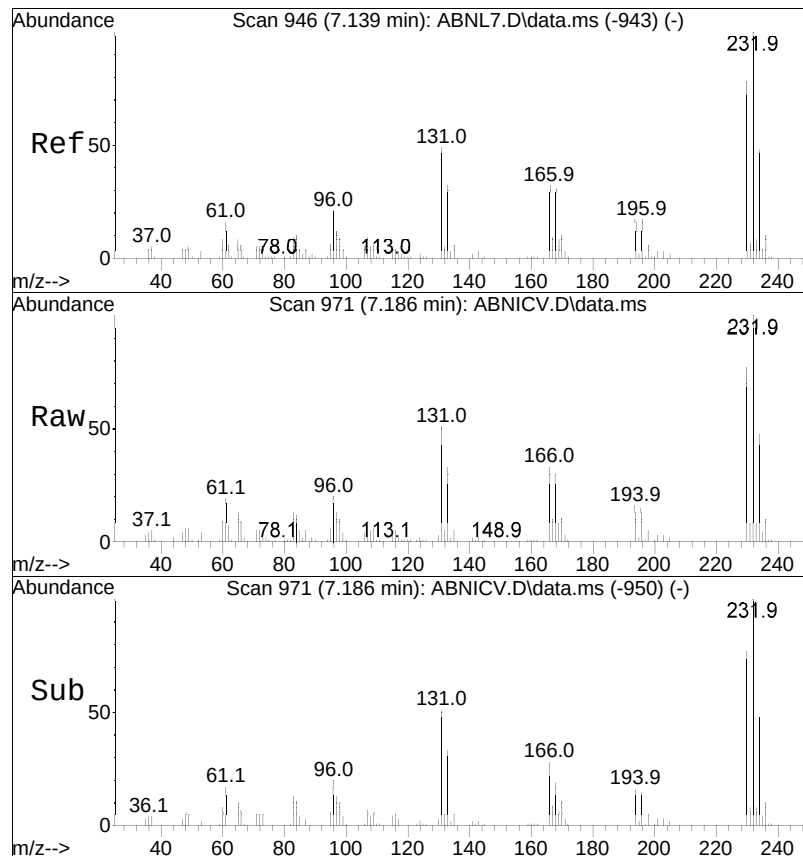




#70  
 2,3,5,6-Tetrachlorophenol  
 Concen: 50.36 ug/ml  
 RT: 7.151 min Scan# 965  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

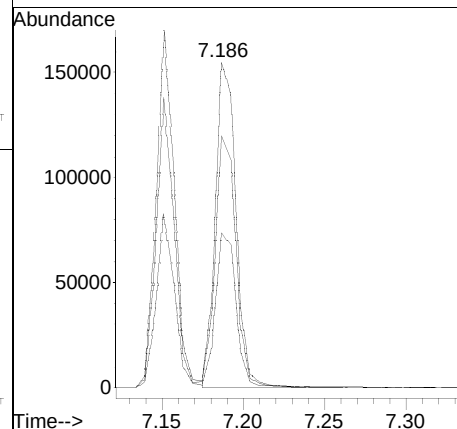
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 133051 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 79.5  | 64.1  | 96.1   |
| 234       | 48.7  | 38.2  | 57.2   |

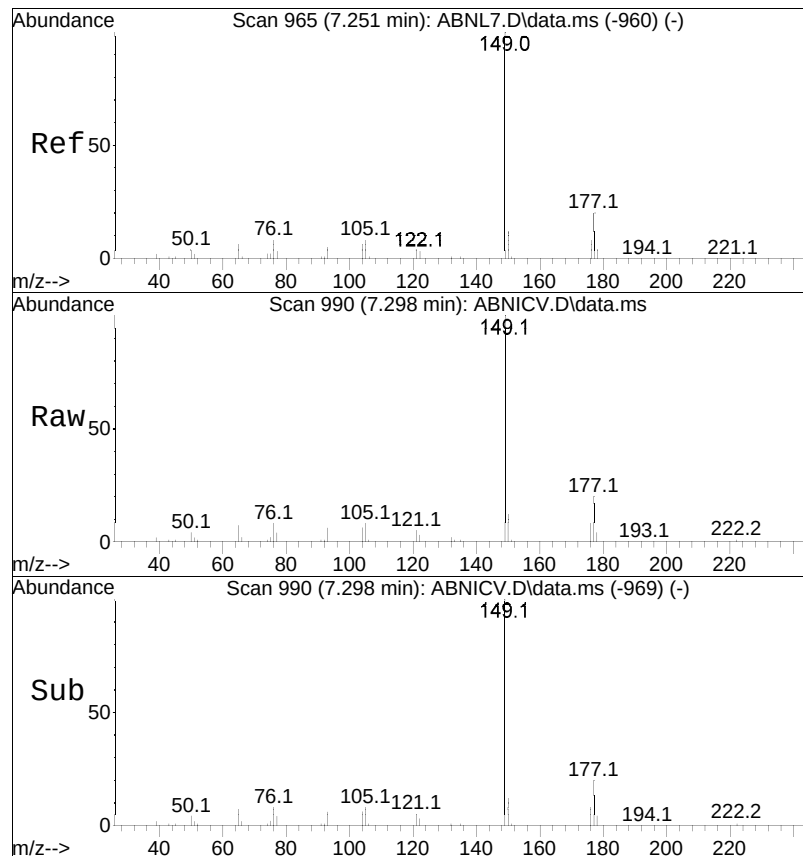




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 51.08 ug/ml  
 RT: 7.186 min Scan# 971  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

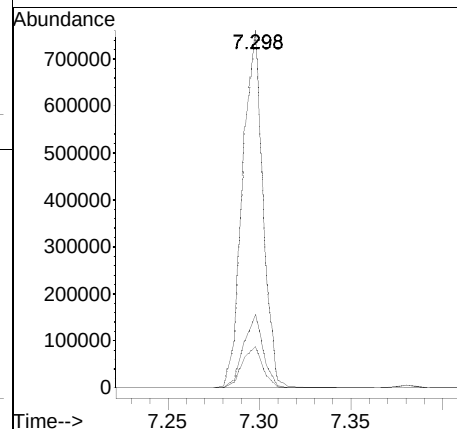
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 232     | 100   | 137306 |       |       |
| 230     | 78.2  |        | 61.6  | 92.4  |
| 234     | 47.5  |        | 39.0  | 58.6  |

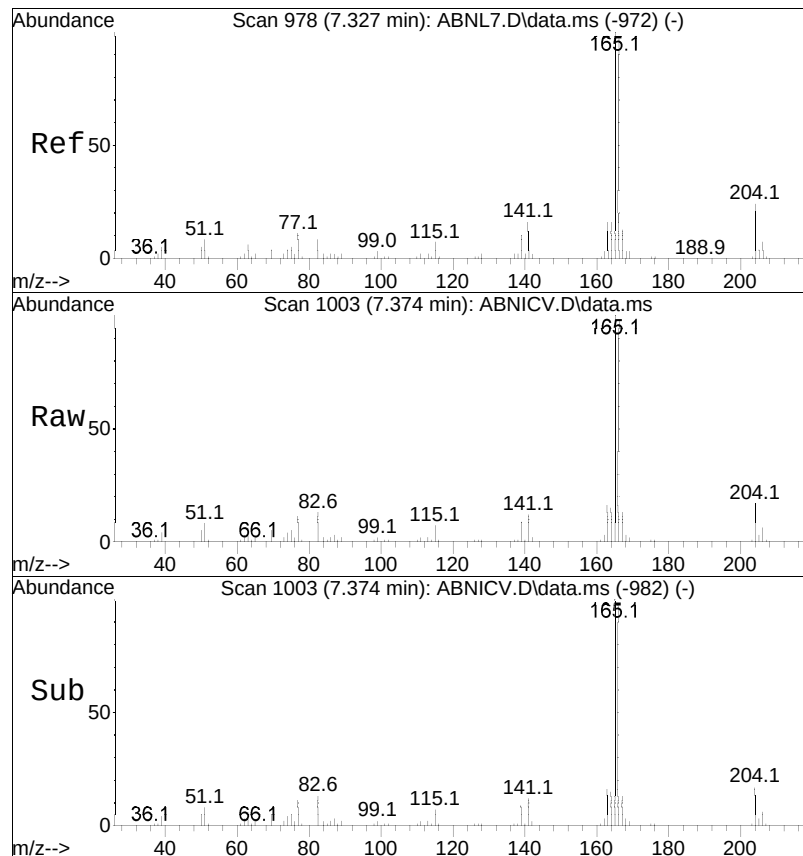




#72  
 Diethyl phthalate  
 Concen: 50.51 ug/ml  
 RT: 7.298 min Scan# 990  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

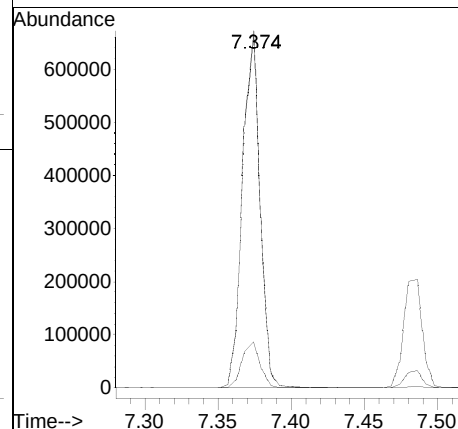
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 149 | 100  |       |       |       |
| 177 | 20.0 | 14.7  | 22.1  |       |
| 150 | 11.8 | 9.4   | 14.0  |       |

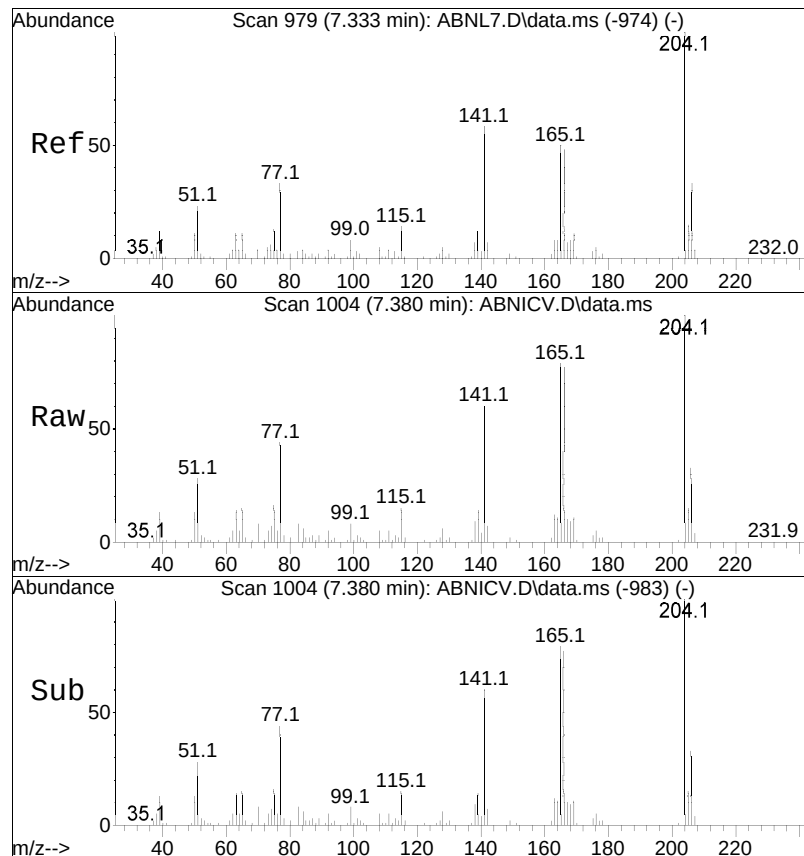




#73  
 Fluorene  
 Concen: 49.93 ug/ml  
 RT: 7.374 min Scan# 1003  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

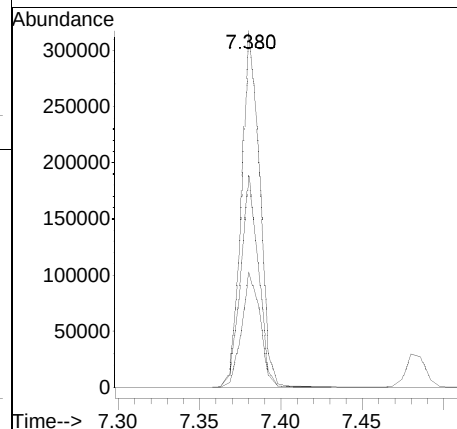
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:166 | Resp: | 553453 |
| Ion | Ratio   | Lower | Upper  |
| 166 | 100     |       |        |
| 165 | 101.5   | 76.7  | 115.1  |
| 167 | 13.6    | 11.0  | 16.4   |



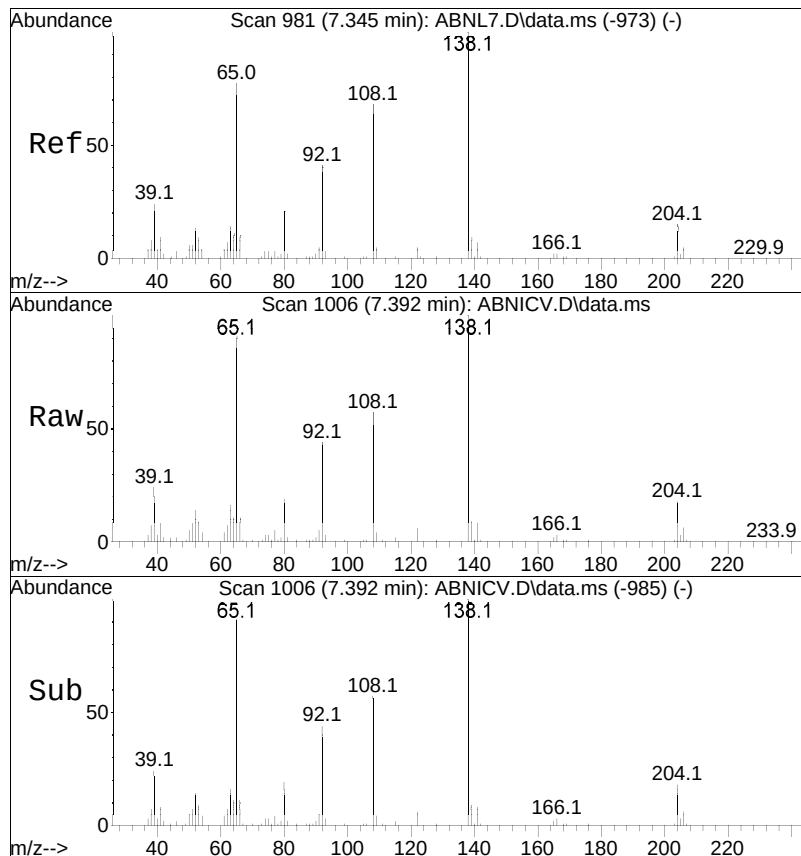


#74  
 4-Chlorophenyl phenyl ether  
 Concen: 49.12 ug/ml  
 RT: 7.380 min Scan# 1004  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 32.9  | 25.8  | 38.6  |
| 141     | 58.3  | 56.2  | 84.4  |

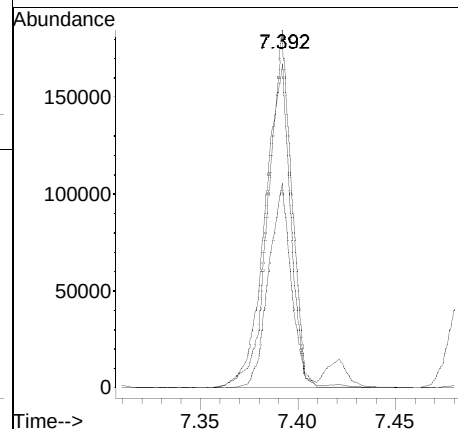


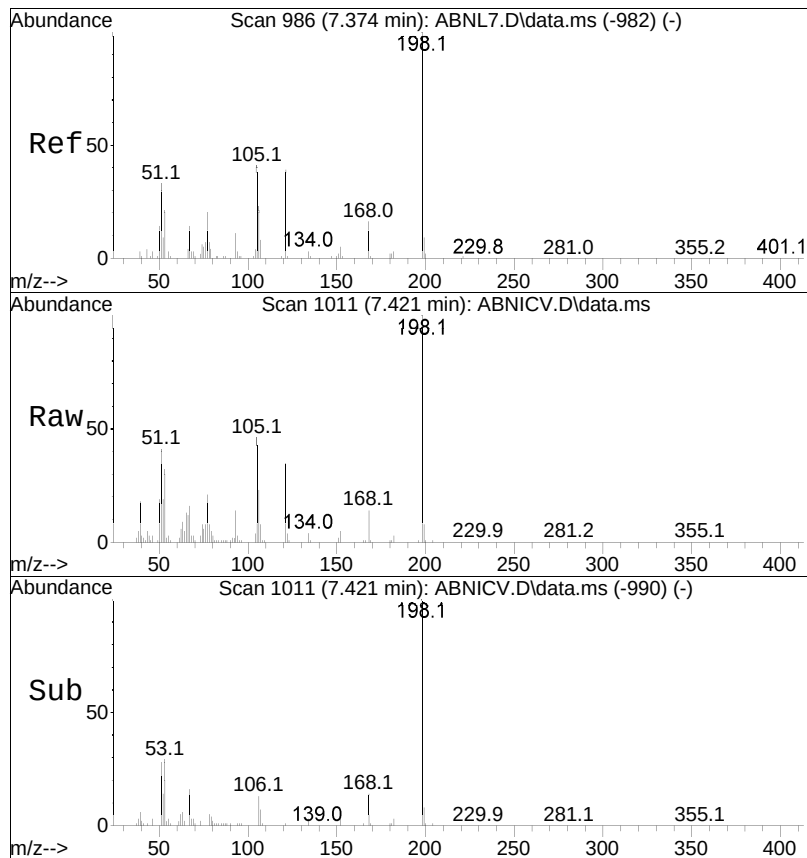




#75  
 4-Nitroaniline  
 Concen: 48.92 ug/ml  
 RT: 7.392 min Scan# 1006  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

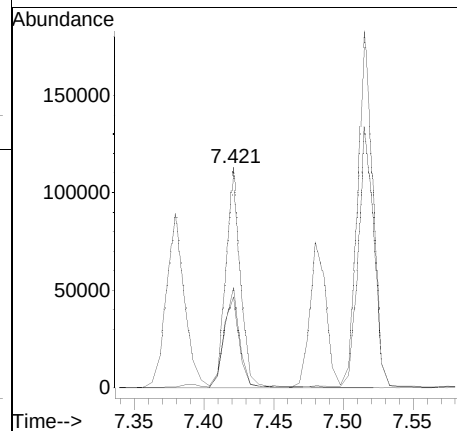
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 152923 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 56.6  | 54.2  | 81.4   |
| 65        | 99.0  | 88.2  | 132.4  |

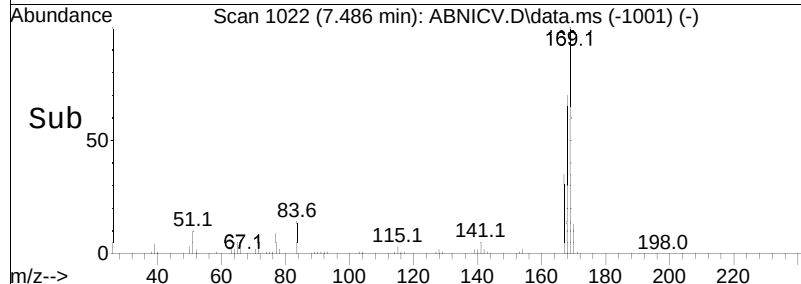
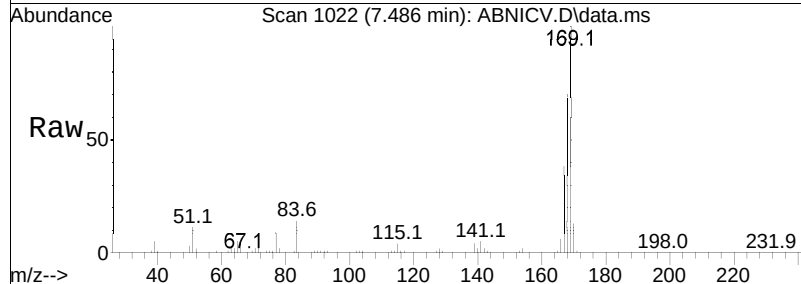
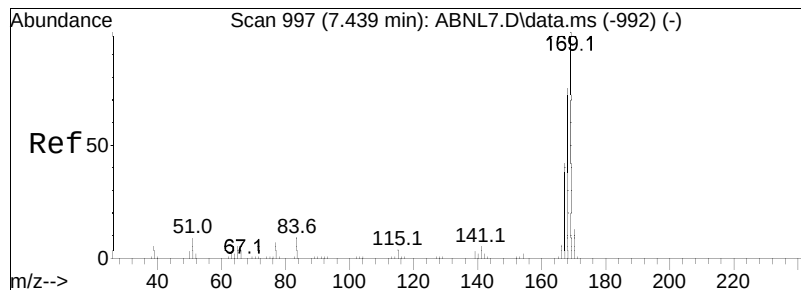




#76  
 4,6-Dinitro-o-cresol  
 Concen: 44.66 ug/ml  
 RT: 7.421 min Scan# 1011  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 83021 |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 43.0  | 41.0  | 61.4  |
| 105       | 49.6  | 49.0  | 73.4  |





#77

NDPA/DPA

Concen: 49.53 ug/ml

RT: 7.486 min Scan# 1022

Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 7 Oct 2019 1:41 am

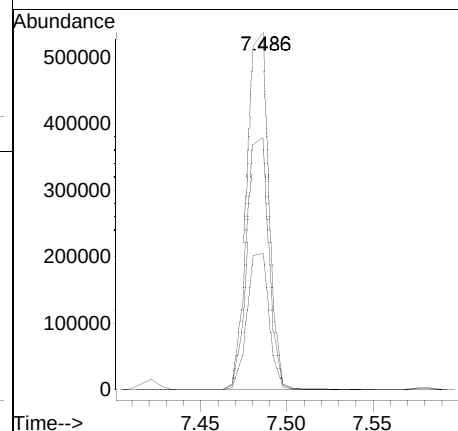
Tgt Ion:169 Resp: 474436

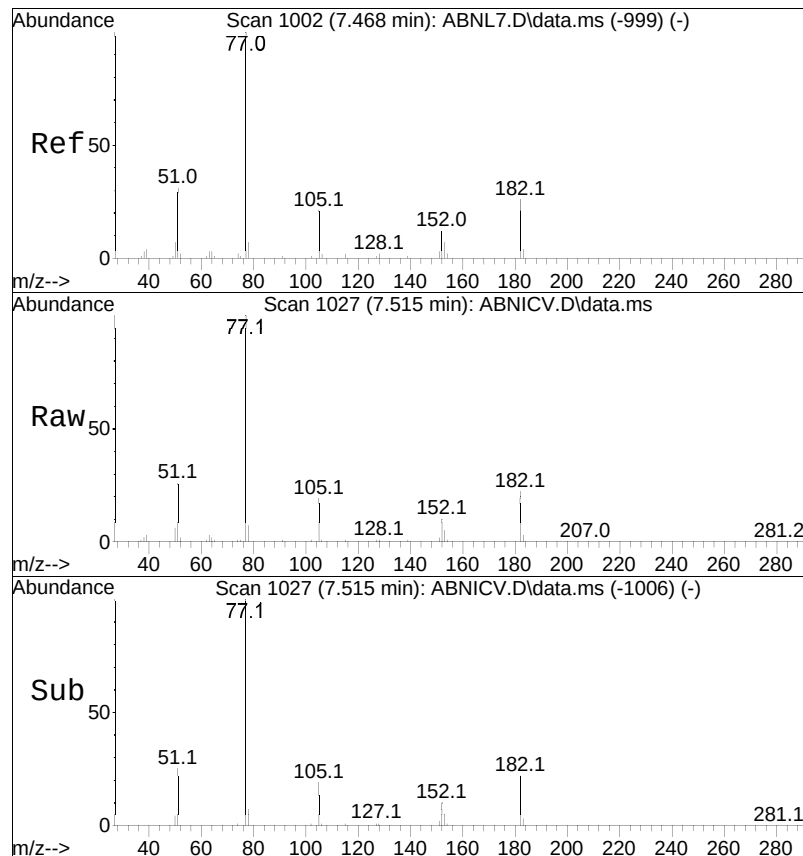
Ion Ratio Lower Upper

169 100

168 70.9 58.2 87.4

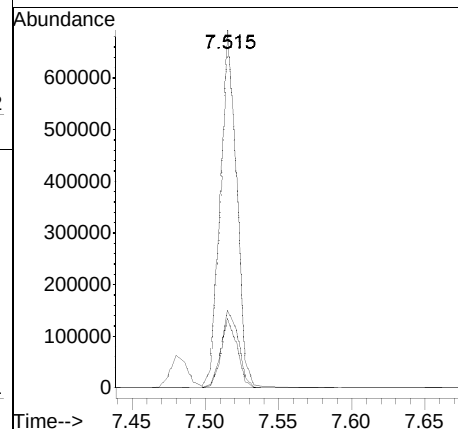
167 38.9 31.7 47.5

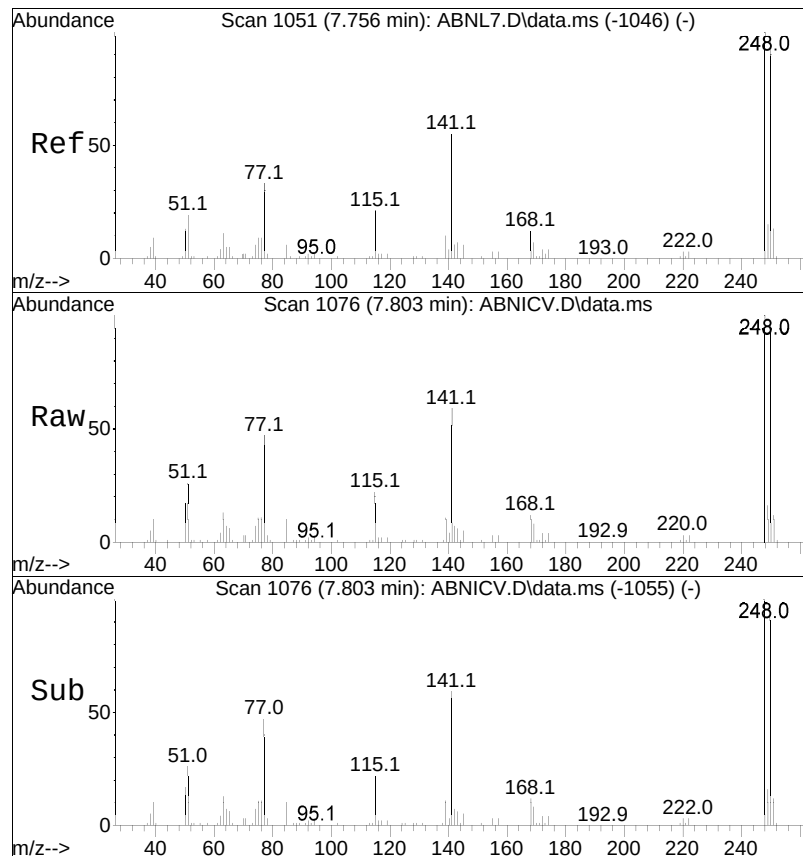




#78  
 Azobenzene  
 Concen: 51.63 ug/ml  
 RT: 7.515 min Scan# 1027  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

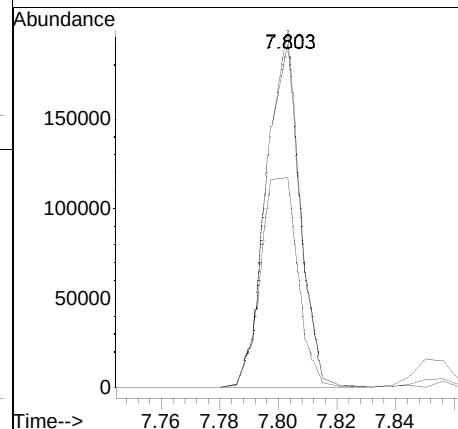
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 22.7  | 14.9  | 22.3# |
| 105     | 19.6  | 12.8  | 19.2# |

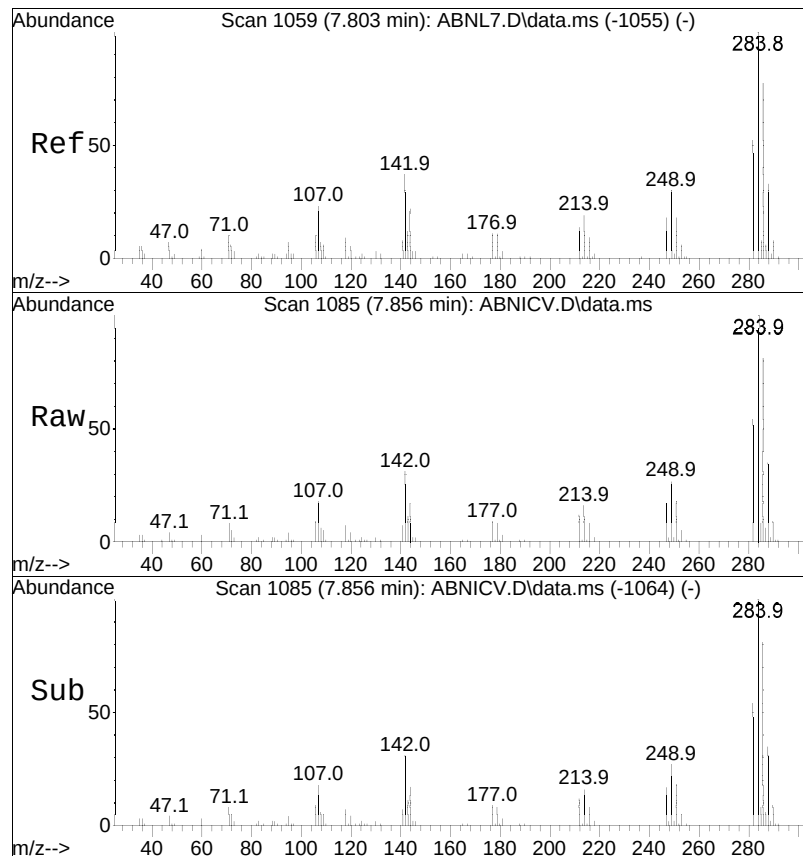




#80  
 4-Bromophenyl phenyl ether  
 Concen: 50.95 ug/ml  
 RT: 7.803 min Scan# 1076  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

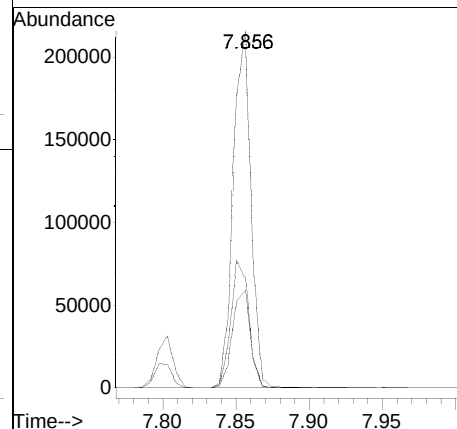
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 156960 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 66.1  | 68.2  | 102.4# |
| 250       | 97.3  | 76.5  | 114.7  |

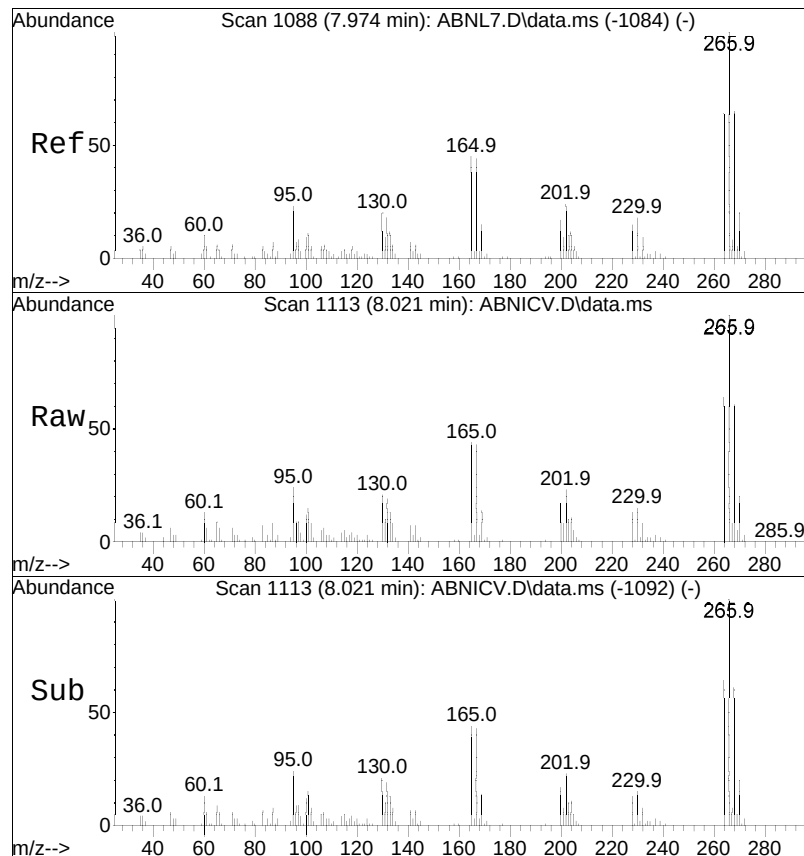




#81  
 Hexachlorobenzene  
 Concen: 48.89 ug/ml  
 RT: 7.856 min Scan# 1085  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

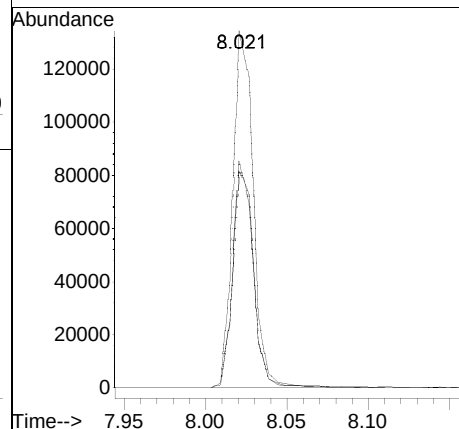
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 284   | Resp: | 180903 |
| Ion Ratio | Lower | Upper |        |
| 284       | 100   |       |        |
| 142       | 36.6  | 38.1  | 57.1#  |
| 249       | 28.4  | 20.7  | 31.1   |

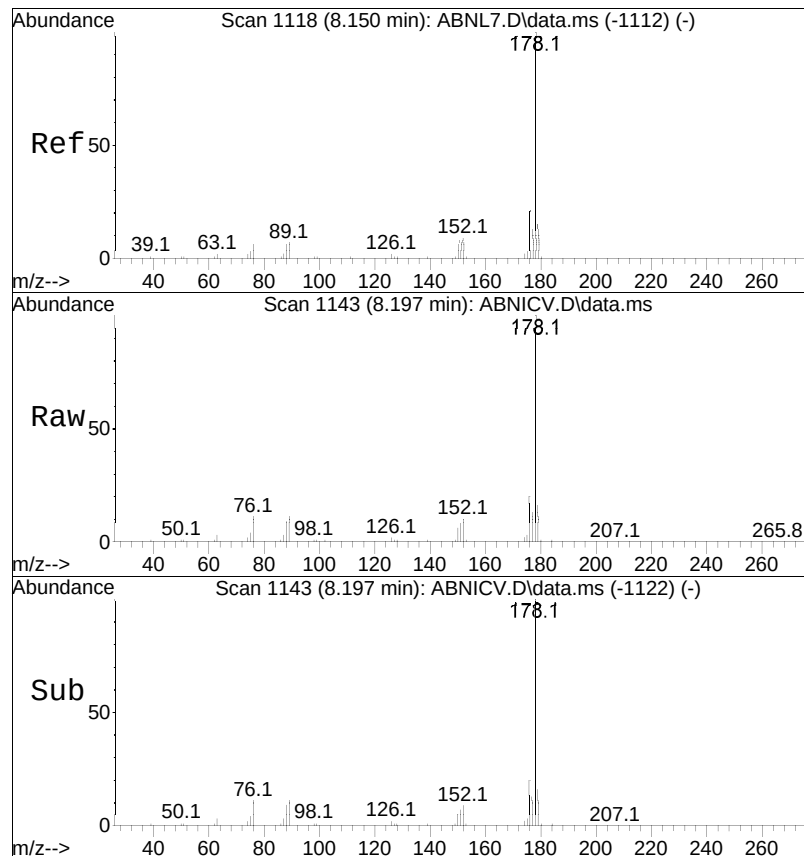




#82  
 Pentachlorophenol  
 Concen: 53.44 ug/ml  
 RT: 8.021 min Scan# 1113  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

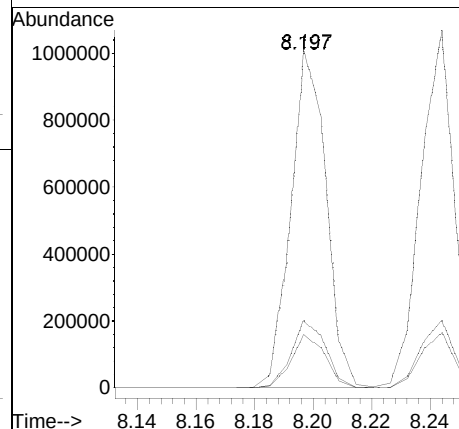
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 117589 |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 62.6  | 49.4  | 74.2   |
| 268       | 62.3  | 51.1  | 76.7   |



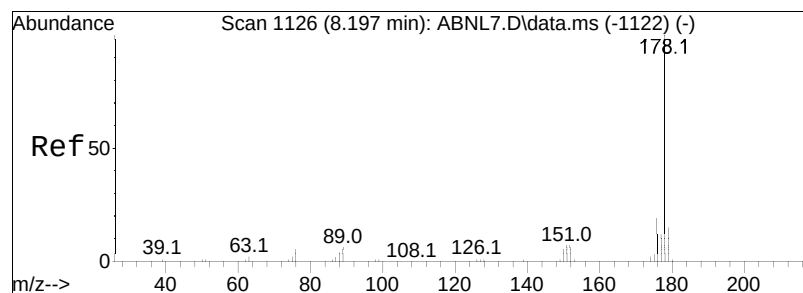


#89  
 Phenanthrene  
 Concen: 48.07 ug/ml  
 RT: 8.197 min Scan# 1143  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 842214 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.3  | 12.9  | 19.3   |
| 176       | 19.5  | 16.7  | 25.1   |

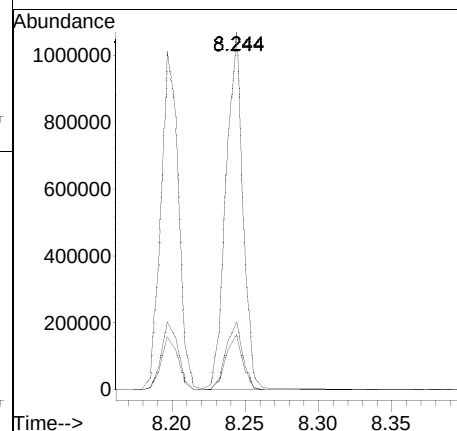
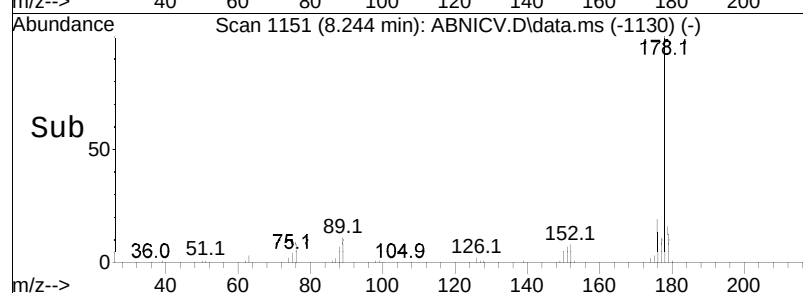
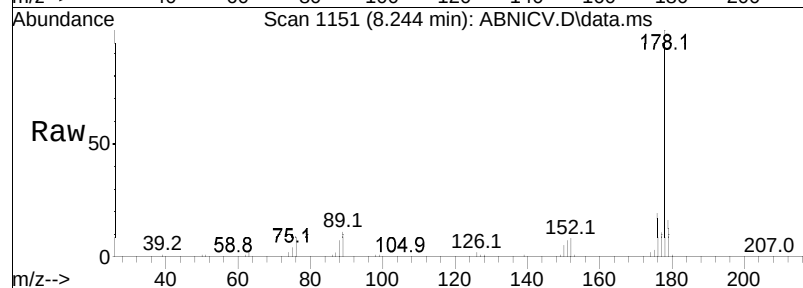


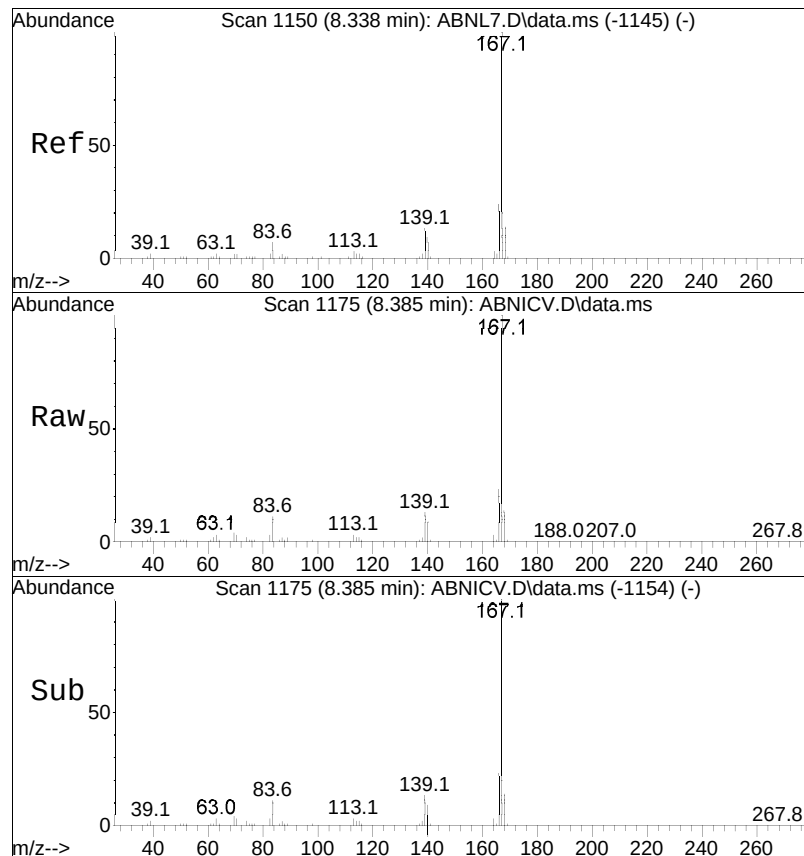




#90  
 Anthracene  
 Concen: 49.35 ug/ml  
 RT: 8.244 min Scan# 1151  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

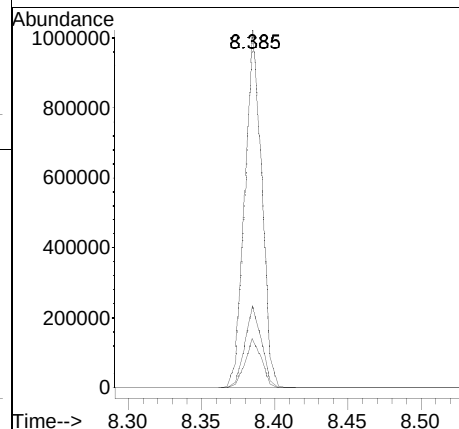
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.7  | 19.1  |
| 176     | 18.9  | 16.6  | 24.8  |

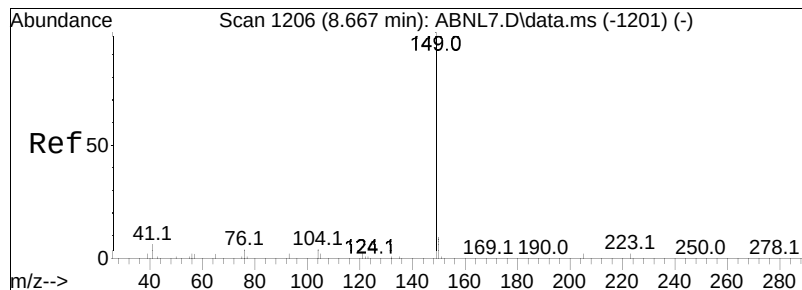




#91  
 Carbazole  
 Concen: 48.51 ug/ml  
 RT: 8.385 min Scan# 1175  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

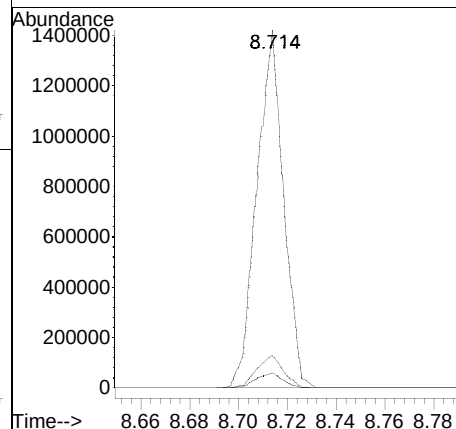
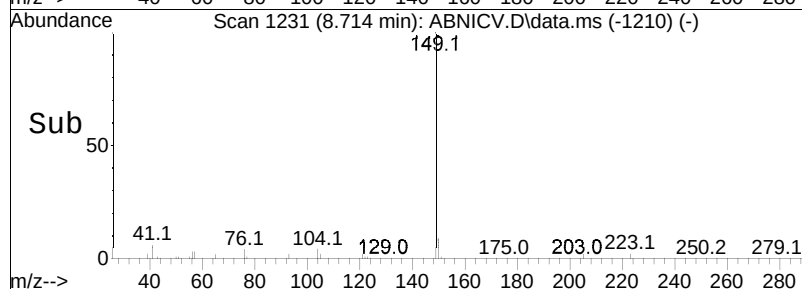
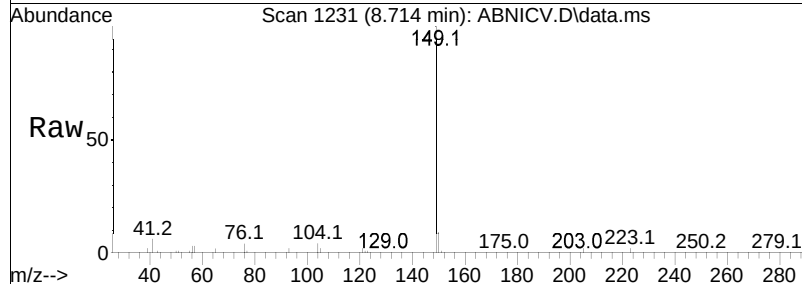
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 811408 |       |       |
| 168     | 13.6  |        | 11.3  | 16.9  |
| 166     | 22.8  |        | 18.9  | 28.3  |

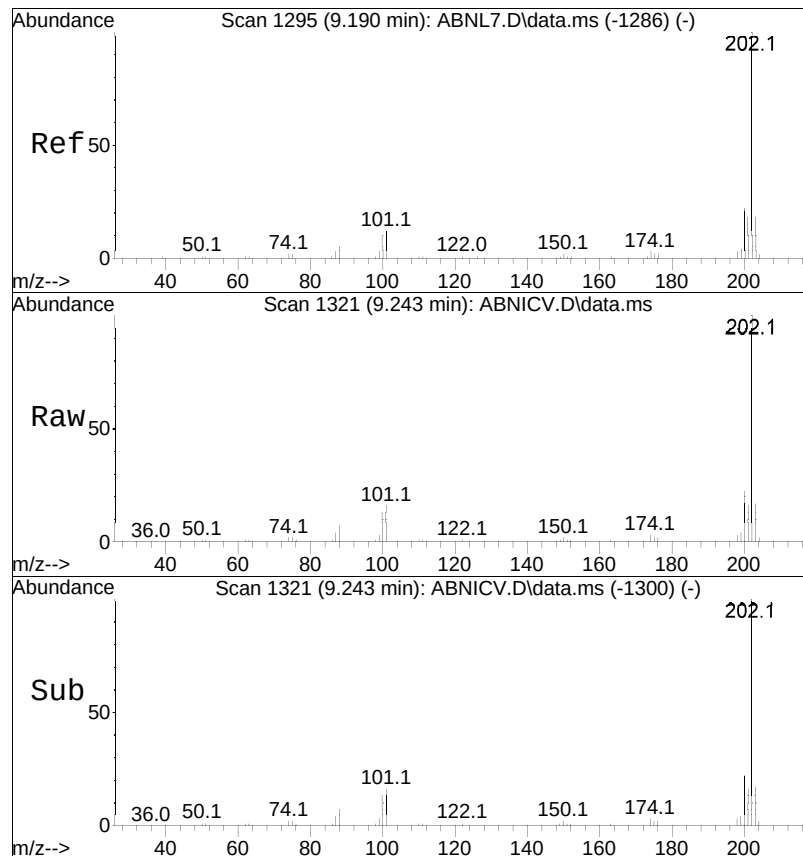




#92  
 Di-n-butylphthalate  
 Concen: 52.34 ug/ml  
 RT: 8.714 min Scan# 1231  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

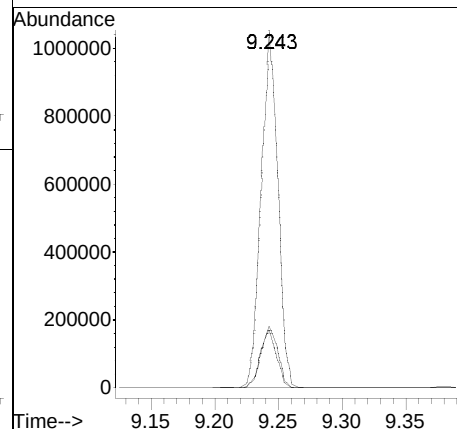
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 1064463 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 150       | 9.1   | 7.8   | 11.6    |
| 104       | 4.3   | 4.8   | 7.2#    |

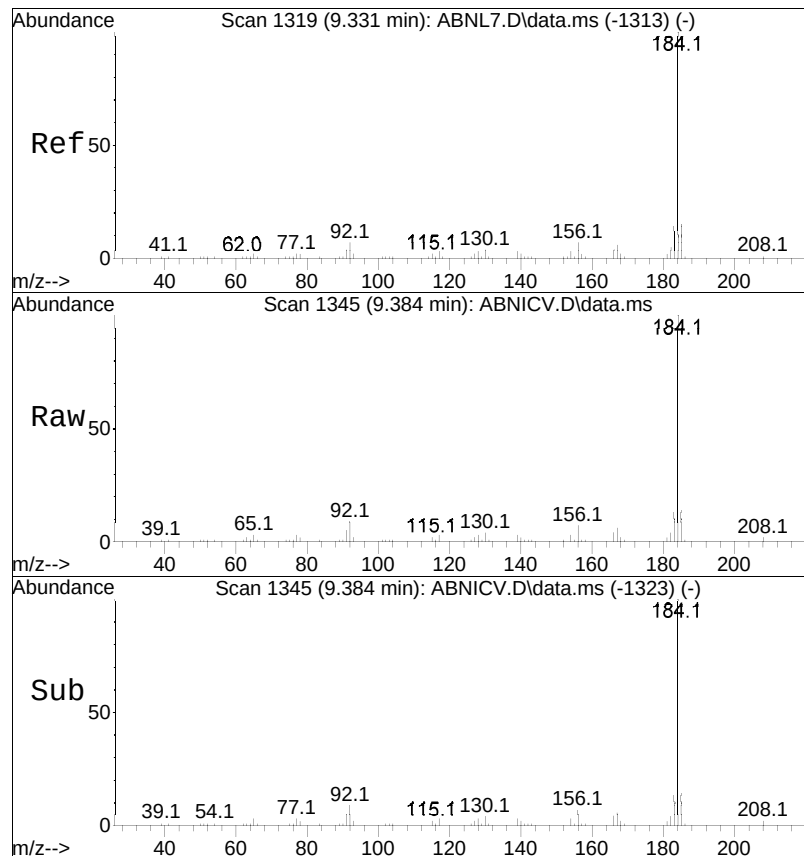




#93  
 Fluoranthene  
 Concen: 48.75 ug/ml  
 RT: 9.243 min Scan# 1321  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

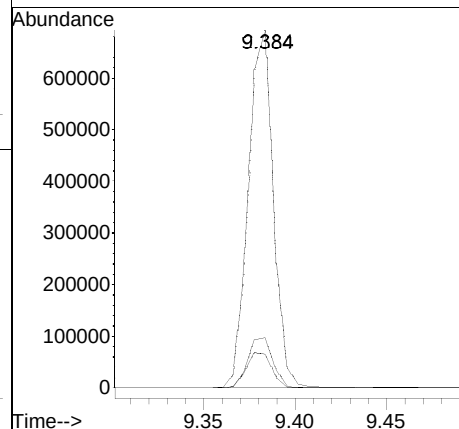
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 16.2  | 18.6  | 28.0# |
| 203     | 17.5  | 14.2  | 21.2  |

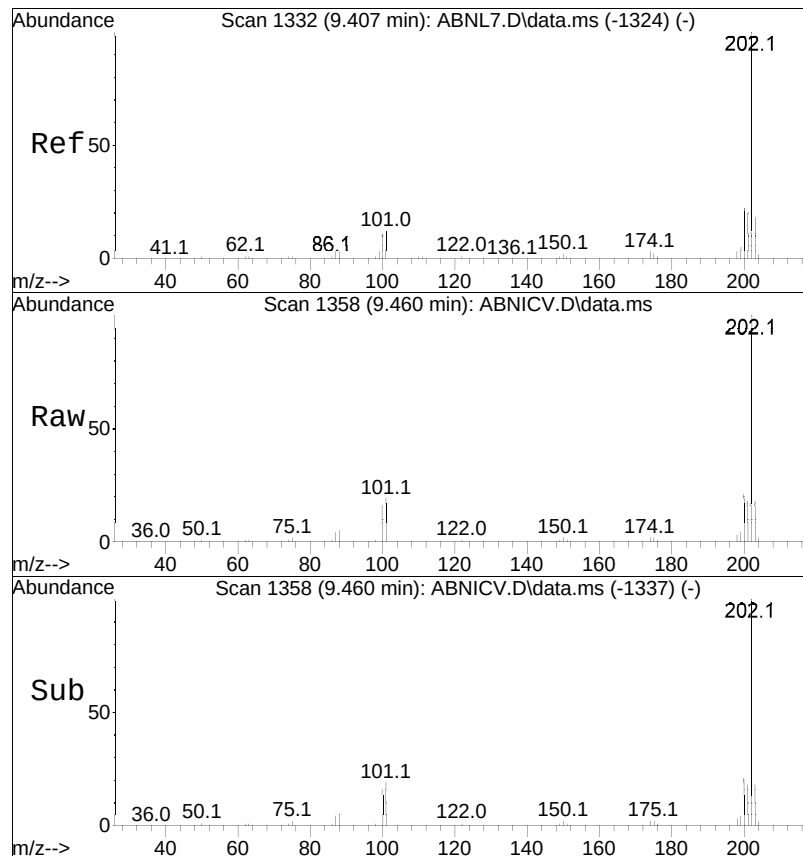




#94  
 Benzidine  
 Concen: 48.63 ug/ml  
 RT: 9.384 min Scan# 1345  
 Delta R.T. 0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

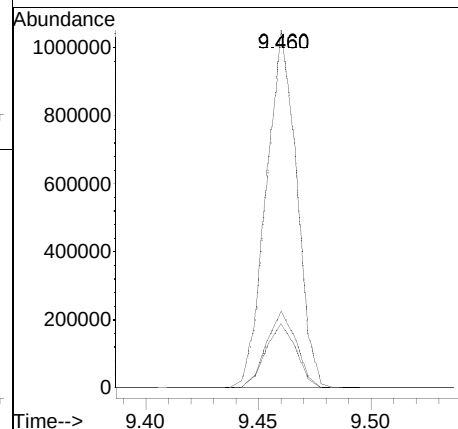
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 92      | 10.3  | 11.7  | 17.5# |
| 185     | 14.4  | 12.8  | 19.2  |

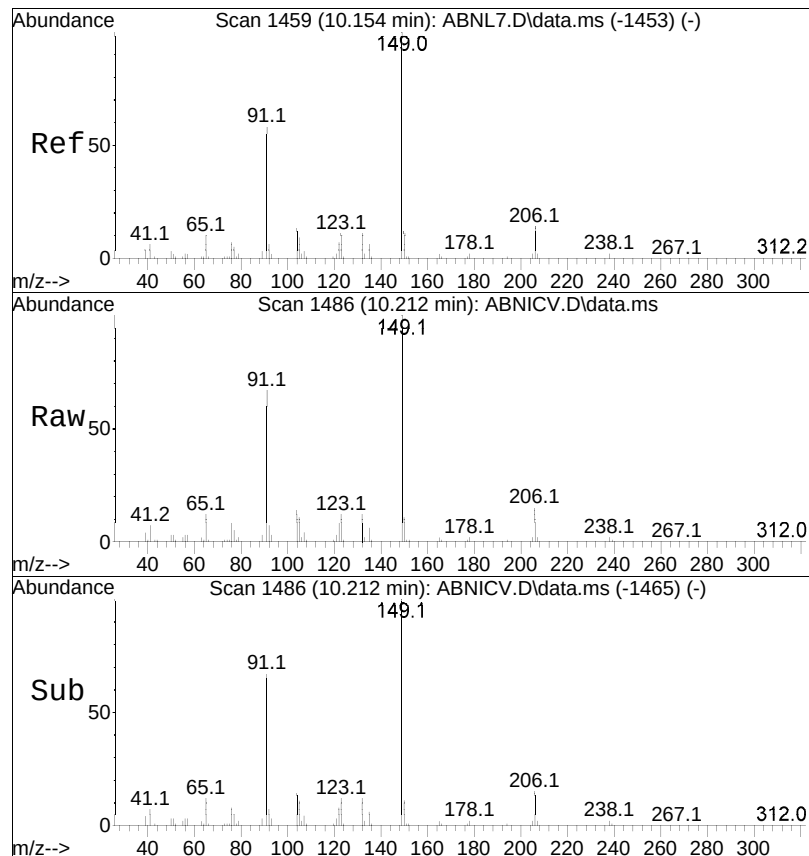




#95  
 Pyrene  
 Concen: 47.74 ug/ml  
 RT: 9.460 min Scan# 1358  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

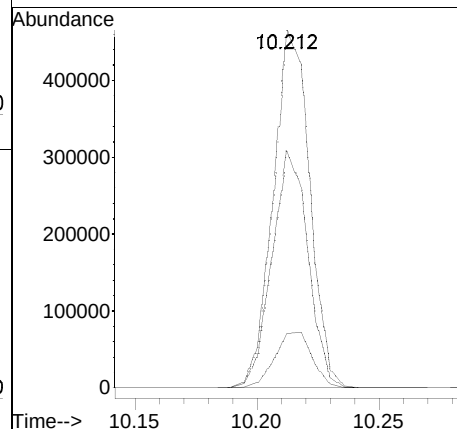
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 978665 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.4  | 17.8  | 26.8   |
| 203       | 18.3  | 14.7  | 22.1   |

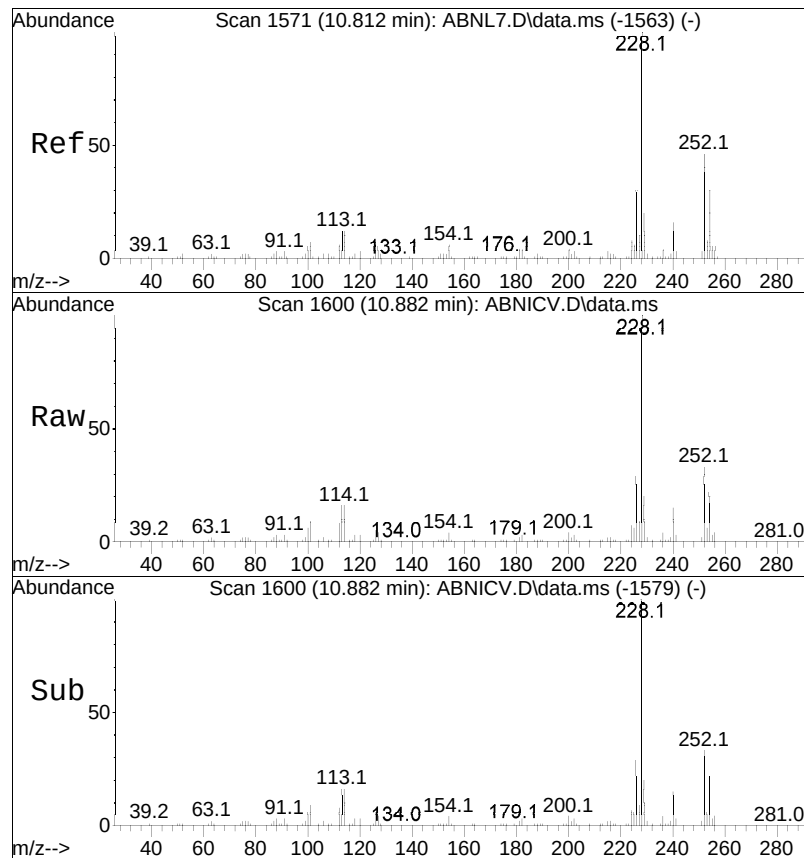




#97  
 Butyl benzyl phthalate  
 Concen: 51.44 ug/ml  
 RT: 10.212 min Scan# 1486  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

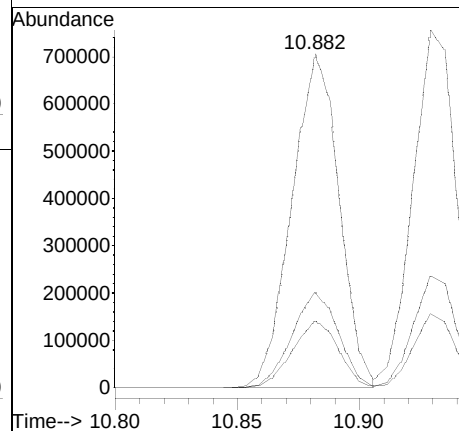
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 479613 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 65.3  | 69.0  | 103.6# |
| 206       | 15.9  | 11.8  | 17.8   |



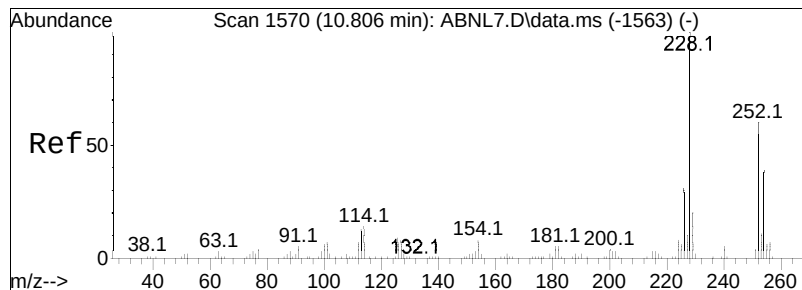


#105  
 Benzo(a)anthracene  
 Concen: 48.12 ug/ml  
 RT: 10.882 min Scan# 1600  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 23.7  | 35.5  |
| 229     | 19.7  | 16.2  | 24.4  |

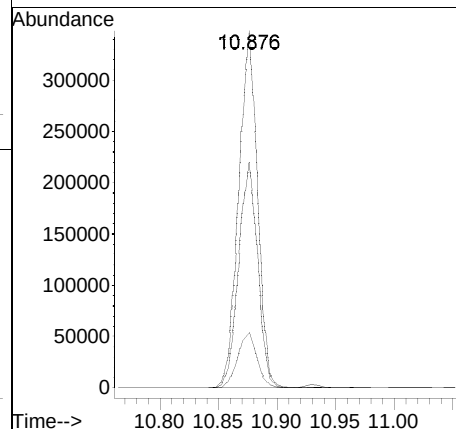
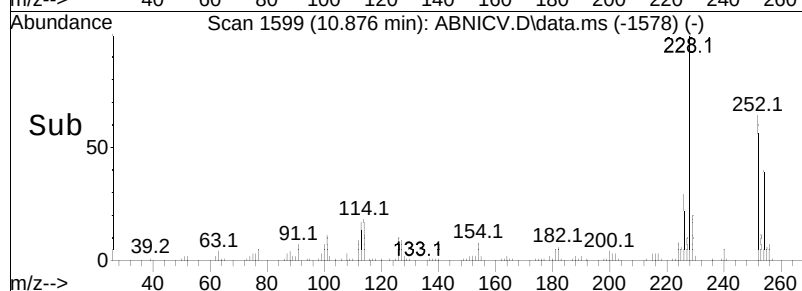
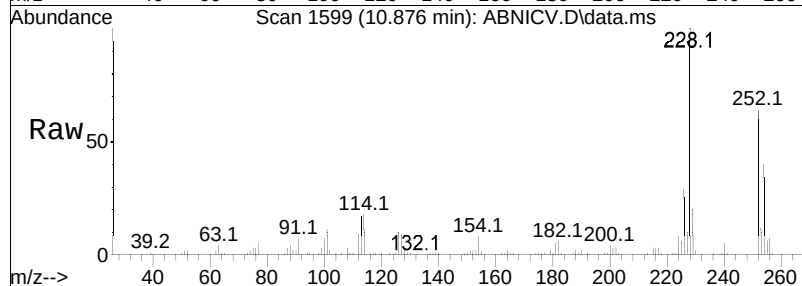


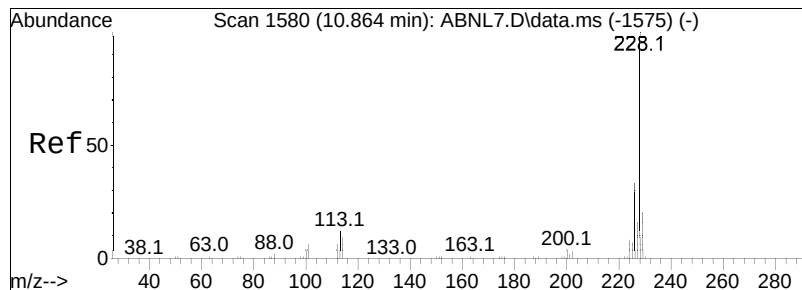




#106  
 3,3'-Dichlorobenzidine  
 Concen: 49.94 ug/ml  
 RT: 10.876 min Scan# 1599  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 126     | 16.1  | 17.8  | 26.6# |
| 254     | 63.8  | 51.8  | 77.6  |





#107

Chrysene

Concen: 47.33 ug/ml

RT: 10.929 min Scan# 1608

Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 7 Oct 2019 1:41 am

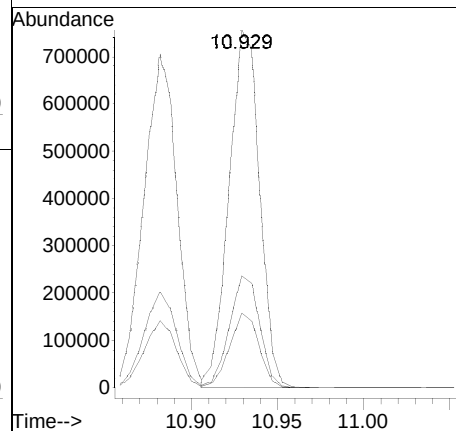
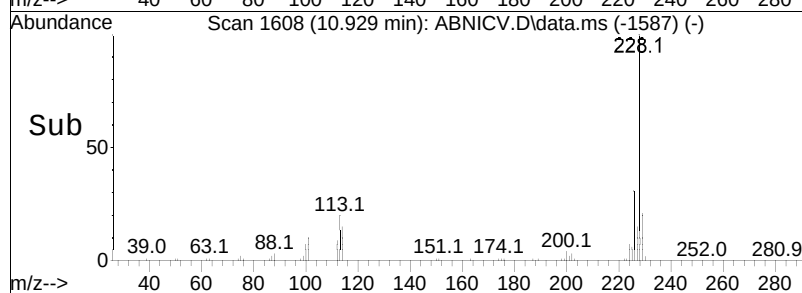
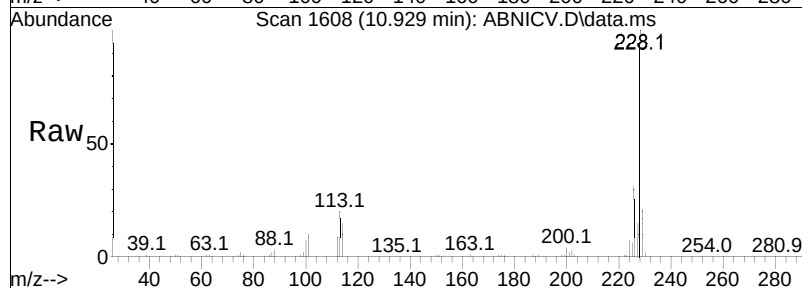
Tgt Ion: 228 Resp: 929546

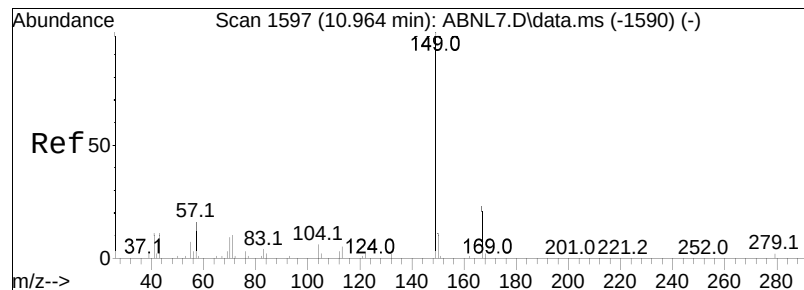
Ion Ratio Lower Upper

228 100

226 31.0 25.9 38.9

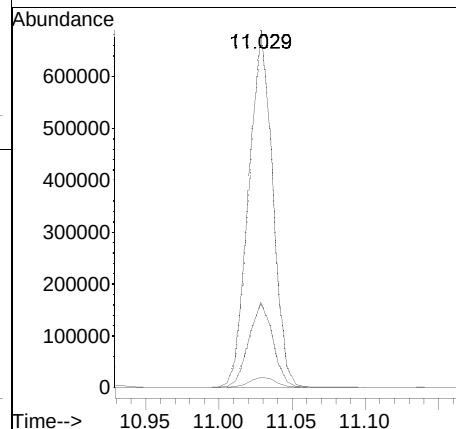
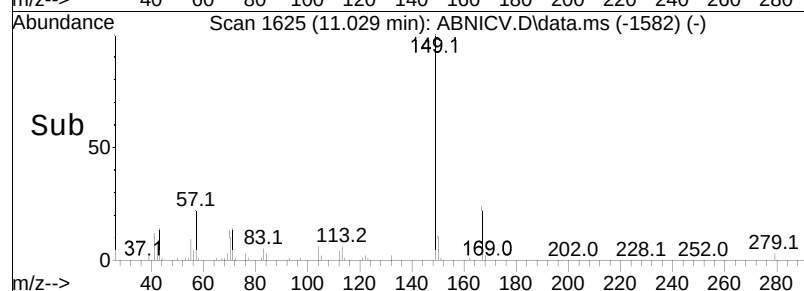
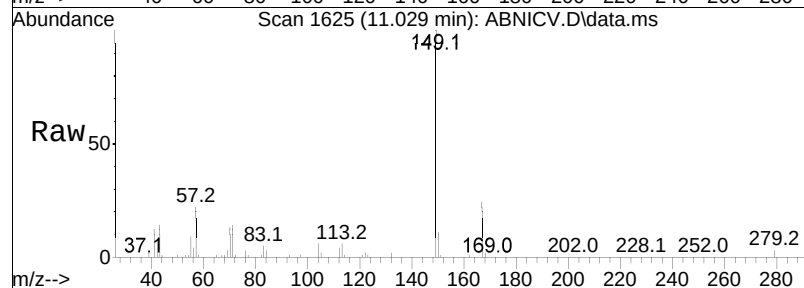
229 20.1 16.2 24.4

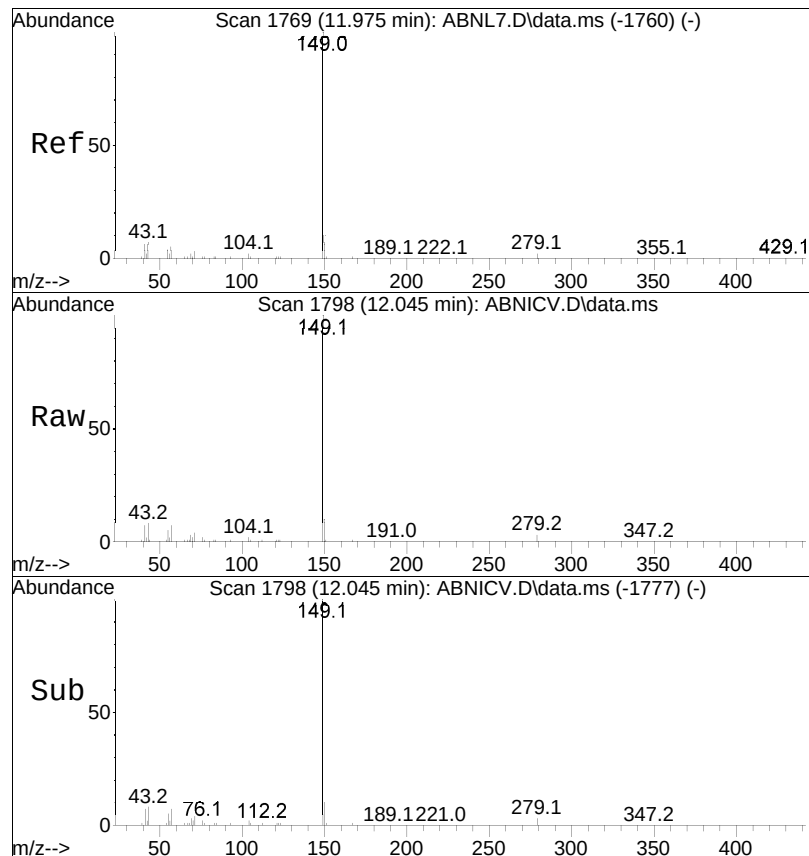




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 54.65 ug/ml  
 RT: 11.029 min Scan# 1625  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

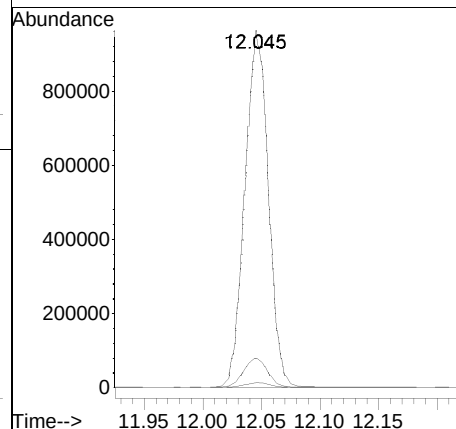
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 24.1  | 21.0  | 31.4  |
| 279     | 3.0   | 3.6   | 5.4#  |

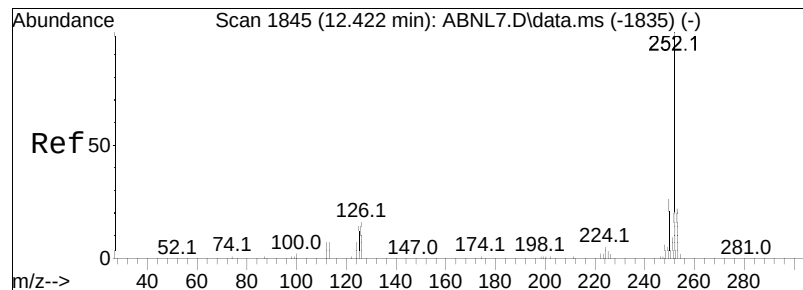




#109  
 Di-n-octylphthalate  
 Concen: 52.61 ug/ml  
 RT: 12.045 min Scan# 1798  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

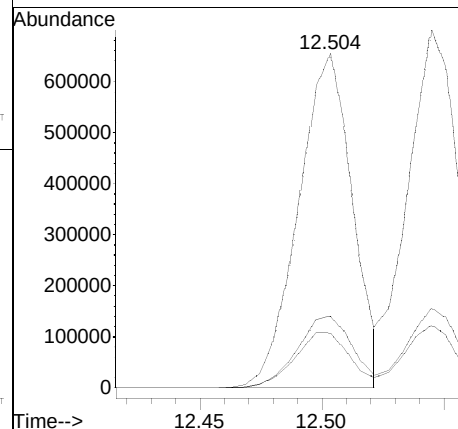
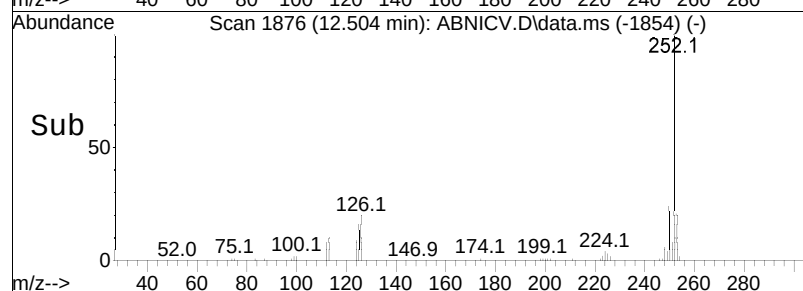
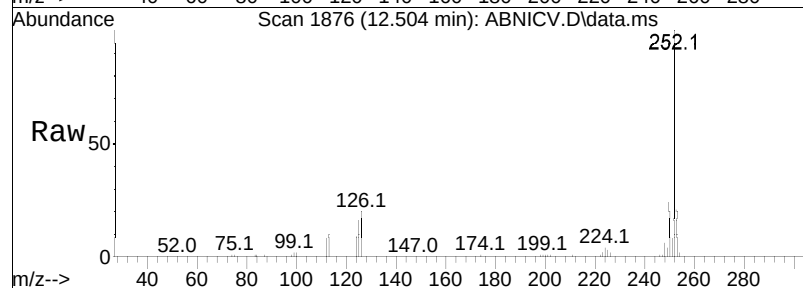
| Tgt Ion: | 149   | Resp: | 1319331 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 149      | 100   |       |         |
| 43       | 8.5   | 8.4   | 12.6    |
| 167      | 1.3   | 1.0   | 1.6     |

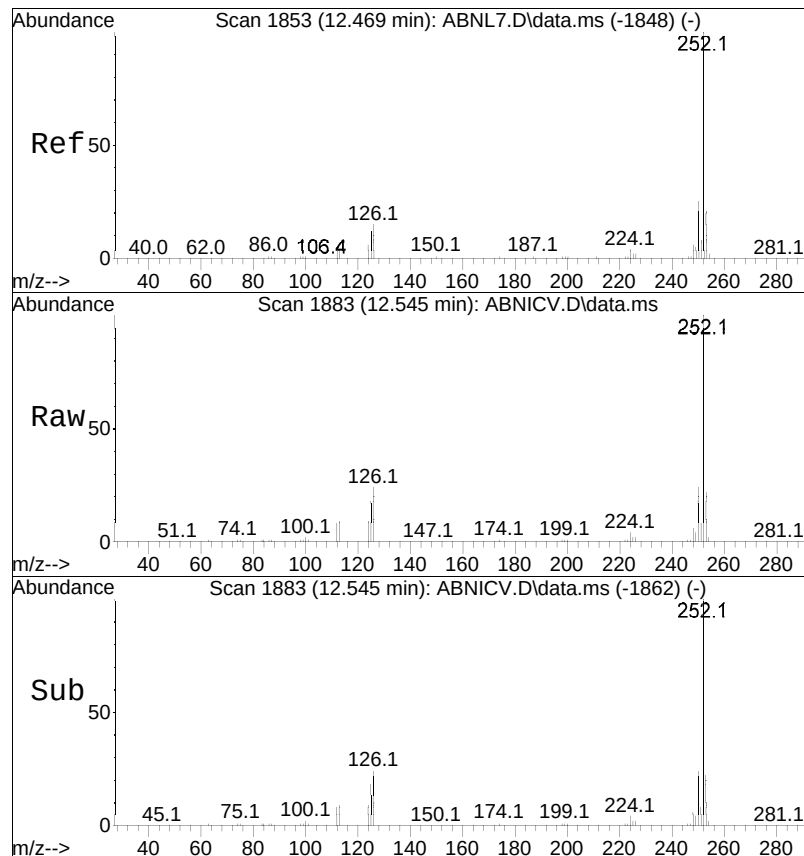




#110  
 Benzo(b)fluoranthene  
 Concen: 48.78 ug/ml  
 RT: 12.504 min Scan# 1876  
 Delta R.T. 0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

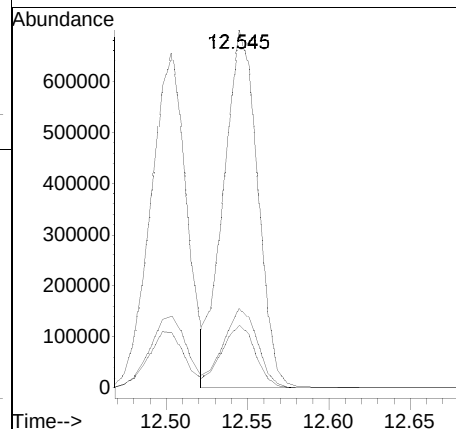
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1008028 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 125       | 17.3  | 16.9  | 25.3    |
| 253       | 22.1  | 17.7  | 26.5    |

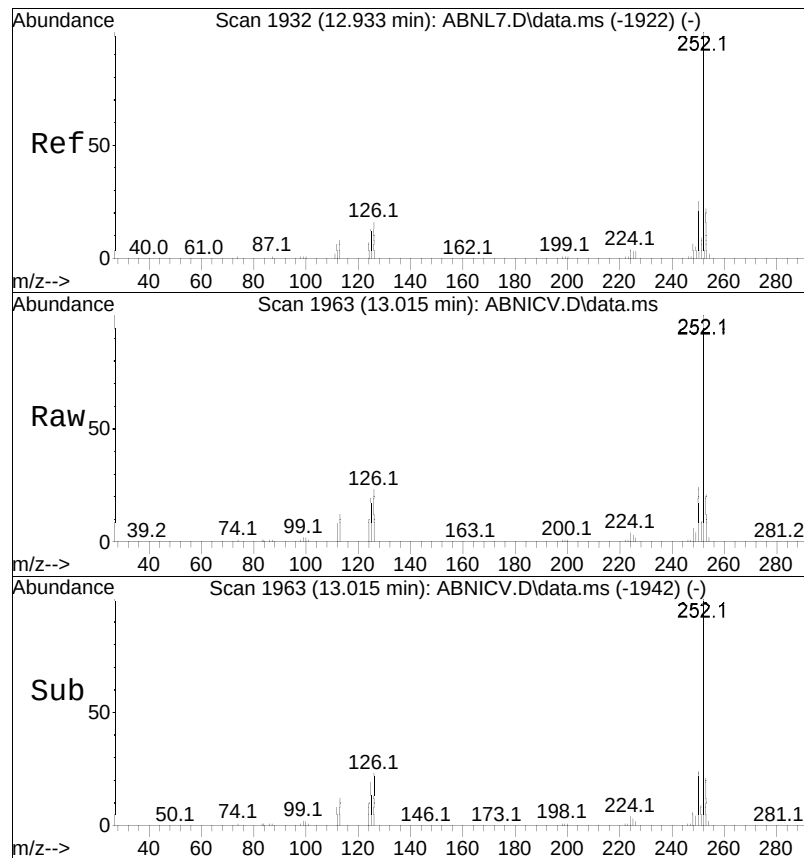




#111  
 Benzo(k)fluoranthene  
 Concen: 49.89 ug/ml  
 RT: 12.545 min Scan# 1883  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

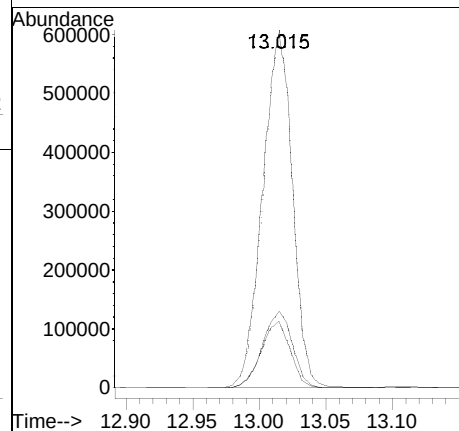
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 17.2  | 16.6  | 25.0  |
| 253     | 22.2  | 17.7  | 26.5  |

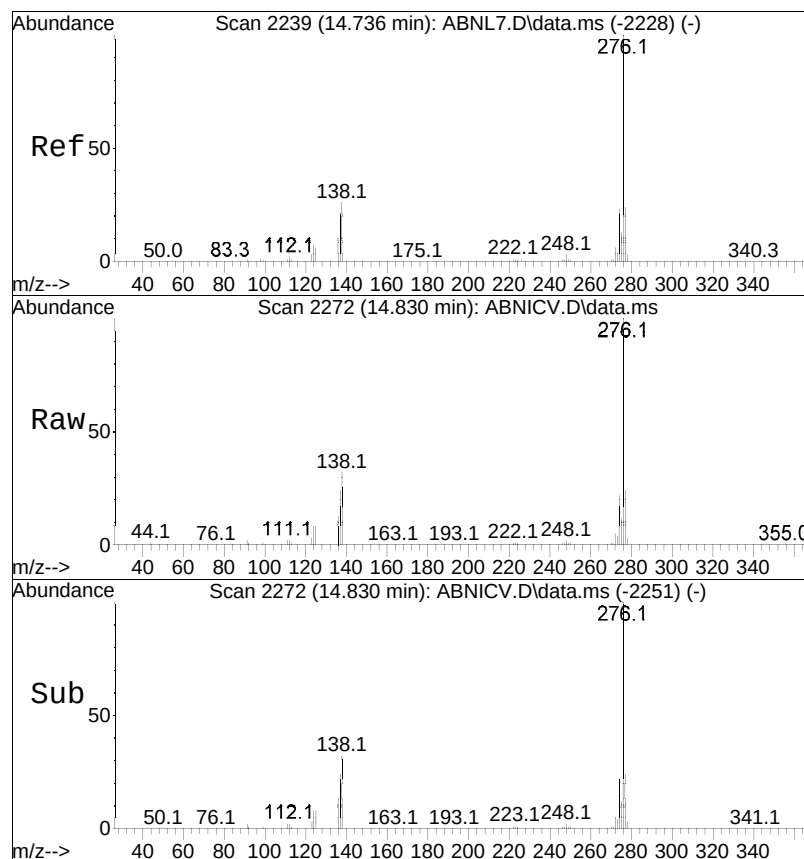




#112  
Benzo(a)pyrene  
Concen: 46.70 ug/ml  
RT: 13.015 min Scan# 1963  
Delta R.T. -0.000 min  
Lab File: ABNICV.D  
Acq: 7 Oct 2019 1:41 am

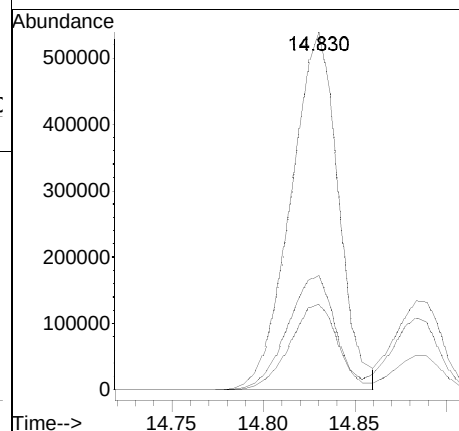
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 18.5  | 18.3  | 27.5  |
| 253     | 21.7  | 17.6  | 26.4  |



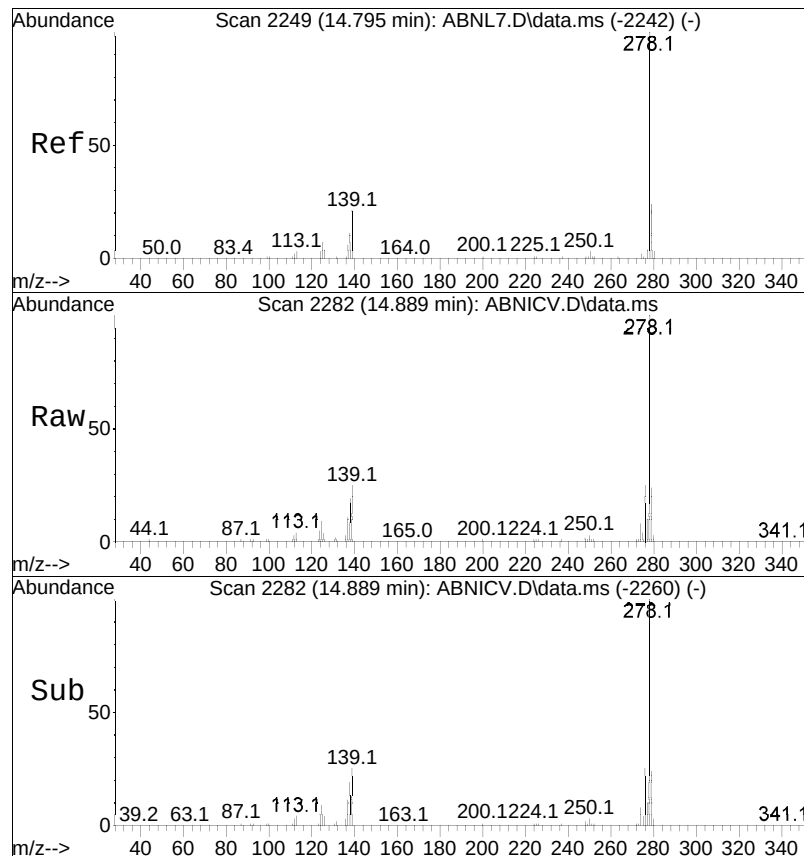


#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 49.78 ug/mL  
 RT: 14.830 min Scan# 2272  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 967135 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 32.5  | 29.6  | 44.4   |
| 277       | 24.5  | 19.1  | 28.7   |

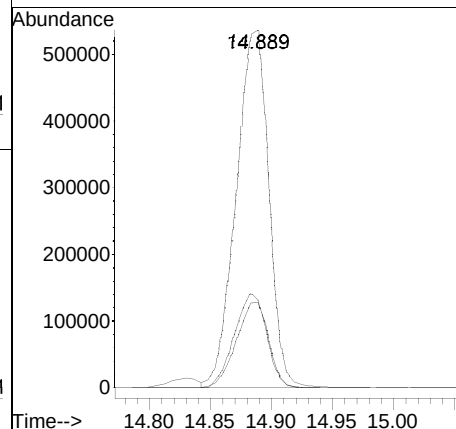


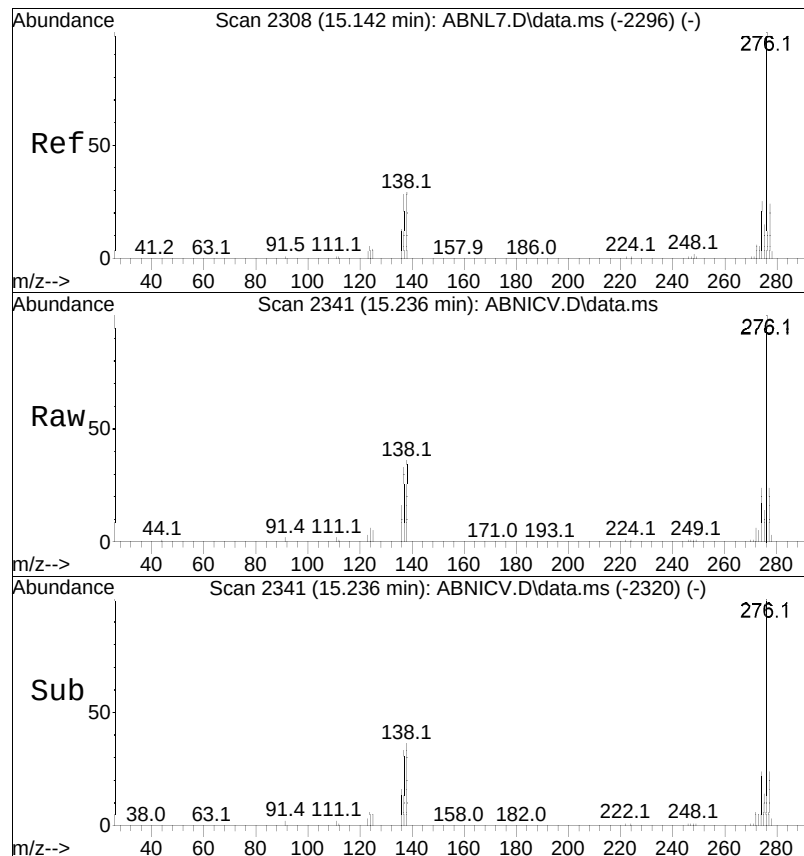




#115  
 Dibenzo(a,h)anthracene  
 Concen: 50.78 ug/ml  
 RT: 14.889 min Scan# 2282  
 Delta R.T. 0.006 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

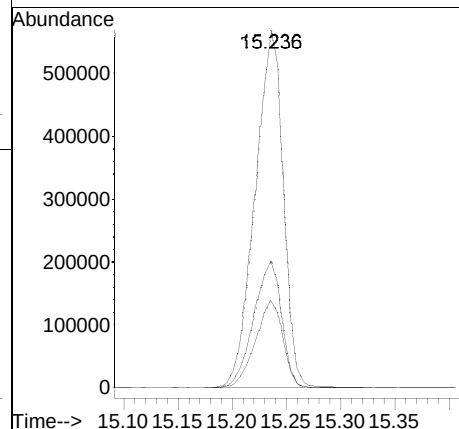
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 989492 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 26.2  | 24.7  | 37.1   |
| 279       | 24.1  | 19.6  | 29.4   |





#116  
 Benzo(ghi)perylene  
 Concen: 50.13 ug/ml  
 RT: 15.236 min Scan# 2341  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.D  
 Acq: 7 Oct 2019 1:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 35.4  | 43.5  | 65.3# |
| 277     | 24.2  | 22.6  | 33.8  |



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ABNICV.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 1:41 am Instrument : Buffy  
Sample : CQICV1,32,,ABN ICV Lot#841Quant Date : 10/7/2019 10:50 am

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9ICV.D  
 Acq On : 7 Oct 2019 2:05 am  
 Operator : Buffy:ek  
 Sample : CQICV2,32,,AP9 ICV Lot#8077  
 Misc : wg1293206,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 07 11:00:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:00:23 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| ----- |                            |       |       |      |       |          |
| 27 I  | IS2_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0  | 115   | 0.00     |
| 28 T  | Benzaldehyde               | 1.217 | 1.096 | 9.9  | 110   | 0.00     |
| 29 T  | Acetophenone               | 1.935 | 1.782 | 7.9  | 113   | 0.00     |
| 30 T  | m-Toluidine                | 1.988 | 1.842 | 7.3  | 112   | 0.00     |
| 31 T  | 2-Chloroaniline            | 1.857 | 1.708 | 8.0  | 112   | 0.00     |
|       |                            |       |       |      |       |          |
| 55 I  | IS2_Naphthalene-d8         | 1.000 | 1.000 | 0.0  | 113   | 0.00     |
| 56 T  | a-Terpineol                | 0.249 | 0.233 | 6.4  | 113   | 0.00     |
| 57 T  | 3-Chloroaniline            | 0.132 | 0.121 | 8.3  | 112   | 0.00     |
| 58 T  | 2,6-Dichlorophenol         | 0.294 | 0.278 | 5.4  | 112   | 0.00     |
| 59 T  | 1-chloro-2-nitrobenzene    | 0.136 | 0.127 | 6.6  | 111   | 0.00     |
| 60 T  | Caprolactam                | 0.143 | 0.136 | 4.9  | 111   | 0.00     |
| 61 T  | 1,2,4,5-Tetrachlorobenzene | 0.321 | 0.296 | 7.8  | 112   | 0.00     |
| 62 T  | Biphenyl                   | 0.873 | 0.802 | 8.1  | 111   | 0.00     |
|       |                            |       |       |      |       |          |
| 83 I  | IS2_Acenaphthene-d10       | 1.000 | 1.000 | 0.0  | 114   | 0.00     |
| 84 T  | Dichloran                  | 0.169 | 0.162 | 4.1  | 111   | 0.00     |
| 85 T  | Pentachloronitrobenzene    | 0.157 | 0.148 | 5.7  | 107   | 0.00     |
|       |                            |       |       |      |       |          |
| 98 I  | IS2_Phenanthrene-d10       | 1.000 | 1.000 | 0.0  | 110   | 0.00     |
| 99 T  | Diphenamid                 | 0.553 | 0.529 | 4.3  | 108   | 0.00     |
| ----- |                            |       |       |      |       |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9ICV.D  
 Acq On : 7 Oct 2019 2:05 am  
 Operator : Buffy:ek  
 Sample : CQICV2,32,,AP9 ICV Lot#8077  
 Misc : wg1293206,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 07 11:00:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:00:23 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\AP9L7.D  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.319 | 152  | 132214   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 114948      |       |      | Recovery | =      | 115.02% |          |
| 55) IS2_Naphthalene-d8        | 5.388 | 136  | 522880   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 463214      |       |      | Recovery | =      | 112.88% |          |
| 83) IS2_Acenaphthene-d10      | 6.898 | 164  | 284018   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 248824      |       |      | Recovery | =      | 114.14% |          |
| 98) IS2_Phenanthrene-d10      | 8.179 | 188  | 555698   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 504702      |       |      | Recovery | =      | 110.10% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.949 | 105  | 181075   | 45.029 | ug/ml  | 92     |
| 29) Acetophenone              | 4.654 | 105  | 294518   | 46.042 | ug/ml# | 94     |
| 30) m-Toluidine               | 4.719 | 106  | 304378   | 46.319 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.036 | 127  | 282264   | 45.981 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.429 | 59   | 152550   | 46.836 | ug/ml  | 90     |
| 57) 3-Chloroaniline           | 5.441 | 65   | 78977    | 45.679 | ug/ml  | 92     |
| 58) 2,6-Dichlorophenol        | 5.465 | 162  | 181812   | 47.267 | ug/ml# | 91     |
| 59) 1-chloro-2-nitrobenzene   | 5.694 | 111  | 82875    | 46.781 | ug/ml  | 89     |
| 60) Caprolactam               | 5.723 | 55   | 89118    | 47.525 | ug/ml# | 75     |
| 61) 1,2,4,5-Tetrachloroben... | 6.152 | 216  | 193406   | 46.077 | ug/ml  | 98     |
| 62) Biphenyl                  | 6.411 | 154  | 524267   | 45.931 | ug/ml  | 98     |
| 84) Dichloran                 | 7.897 | 206  | 57467    | 47.786 | ug/ml# | 74     |
| 85) Pentachloronitrobenzene   | 8.038 | 237  | 52573    | 47.195 | ug/ml# | 82     |
| 99) Diphenamid                | 8.972 | 167  | 367162   | 47.775 | ug/ml# | 68     |

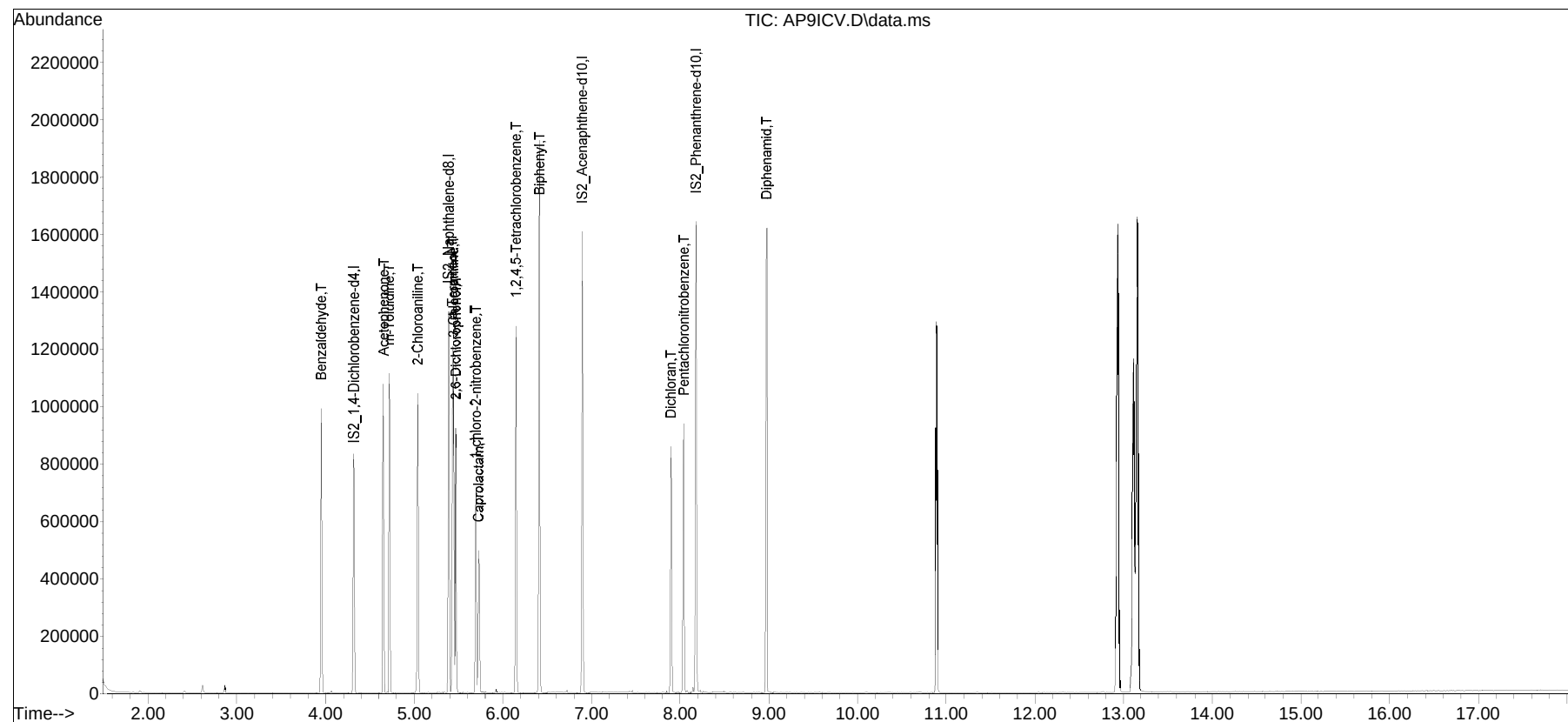
(#) = qualifier out of range (m) = manual integration (+) = signals summed

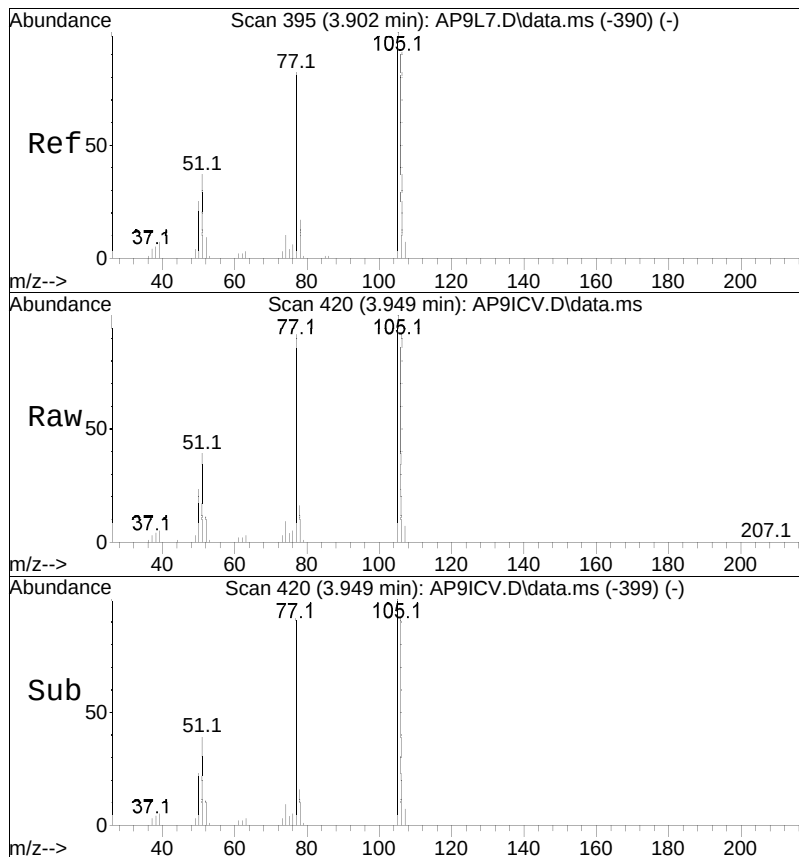
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : AP9ICV.D  
 Acq On : 7 Oct 2019 2:05 am  
 Operator : Buffy:ek  
 Sample : CQICV2,32,,AP9 ICV Lot#8077  
 Misc : wg1293206,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 07 11:00:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:00:23 2019  
 Response via : Initial Calibration

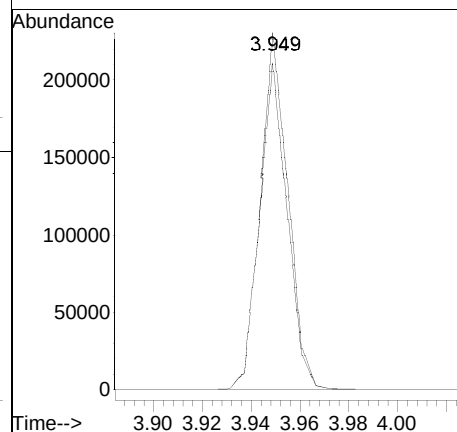
Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•

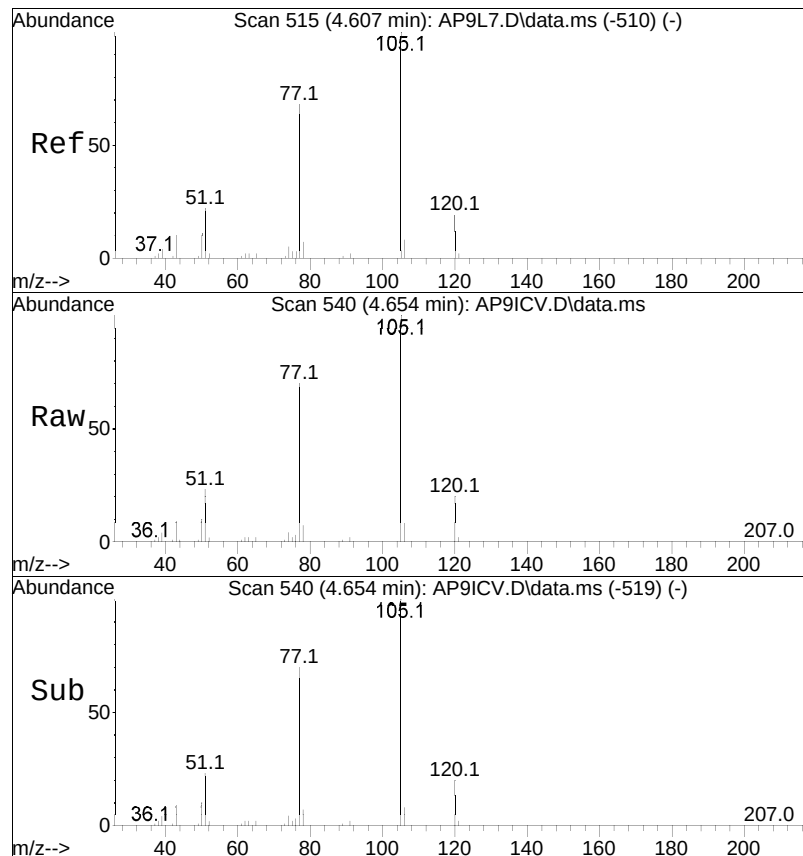




#28  
 Benzaldehyde  
 Concen: 45.03 ug/ml  
 RT: 3.949 min Scan# 420  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

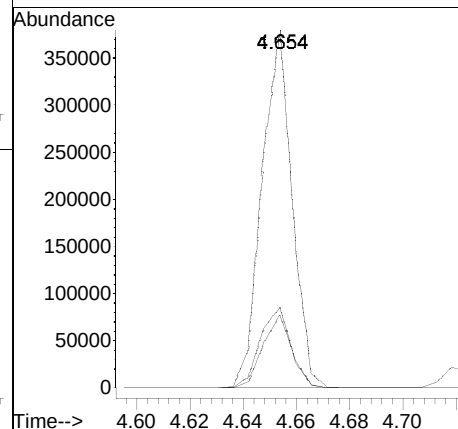
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 181075 |       |       |
| 77      | 91.2  | 79.4   | 119.0 |       |



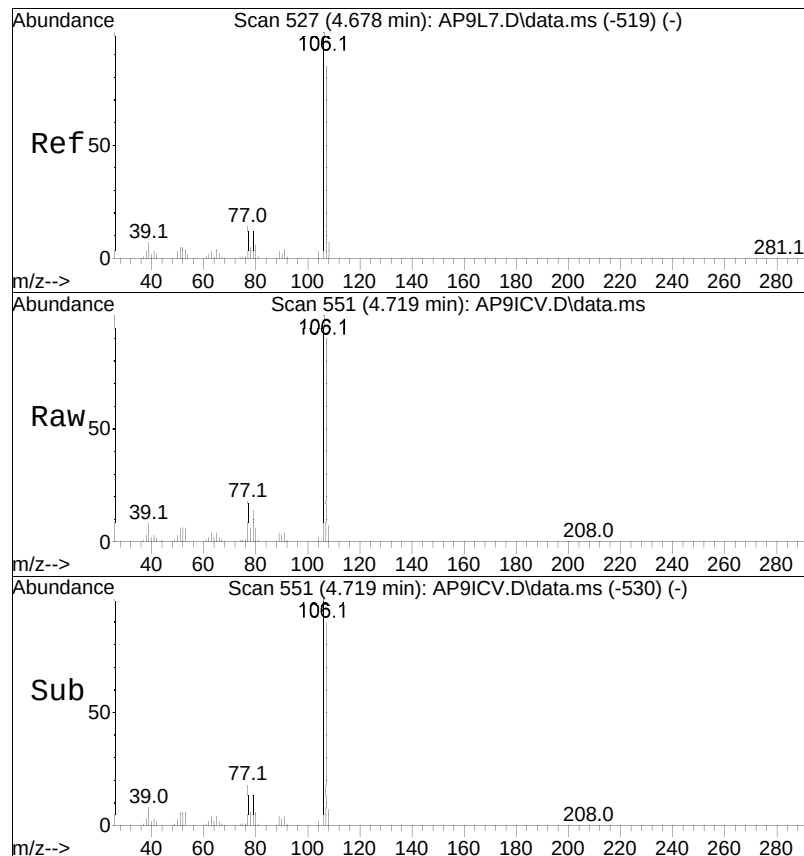


#29  
 Acetophenone  
 Concen: 46.04 ug/ml  
 RT: 4.654 min Scan# 540  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 294518 |       |       |
| 120     | 19.8  | 19.9   | 29.9# |       |
| 51      | 23.0  | 17.8   | 26.6  |       |

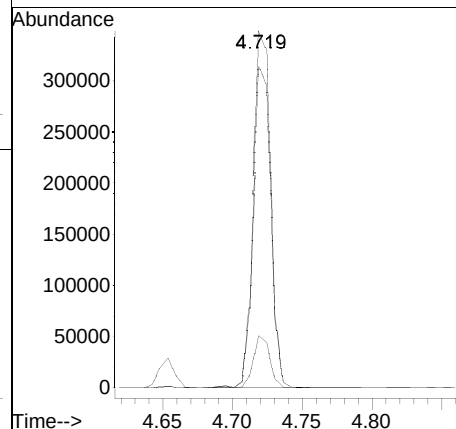


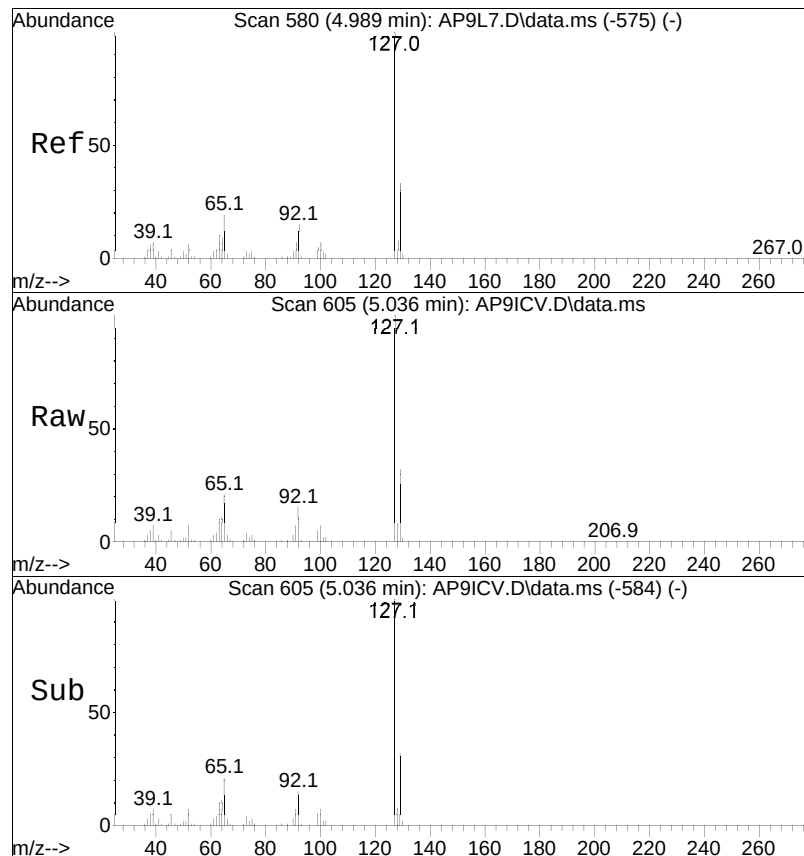




#30  
 m-Toluidine  
 Concen: 46.32 ug/ml  
 RT: 4.719 min Scan# 551  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

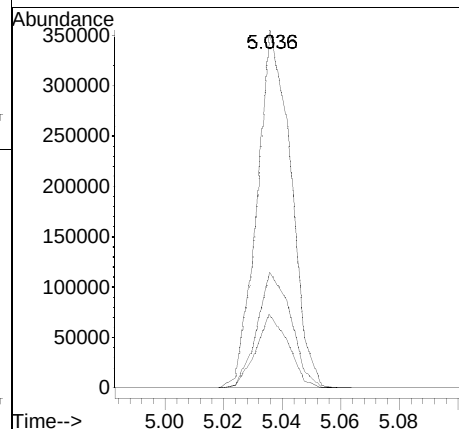
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 107     | 89.9  | 72.6  | 109.0 |
| 79      | 13.8  | 11.2  | 16.8  |

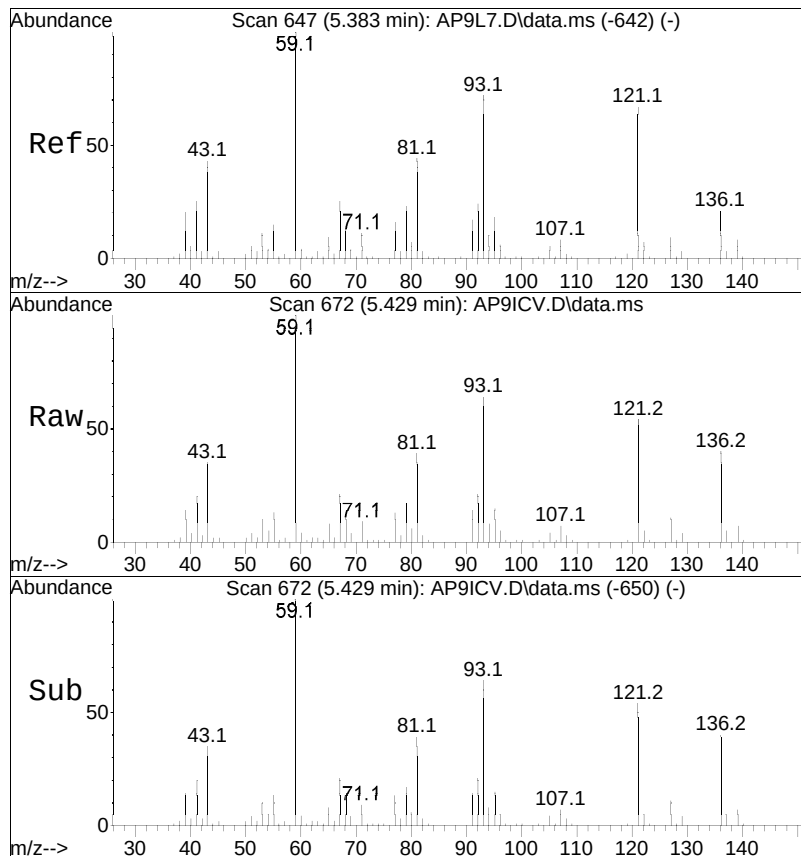




#31  
 2-Chloroaniline  
 Concen: 45.98 ug/ml  
 RT: 5.036 min Scan# 605  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

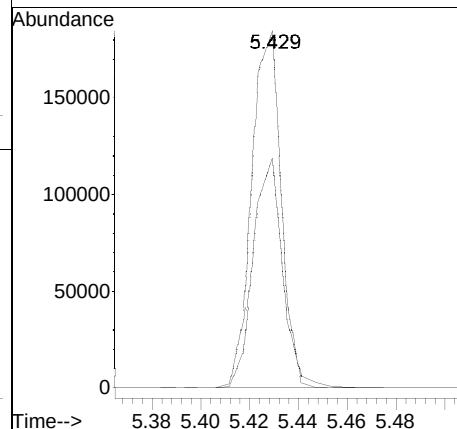
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 127   | Resp: | 282264 |
| Ion Ratio | Lower | Upper |        |
| 127       | 100   |       |        |
| 129       | 32.5  | 26.0  | 39.0   |
| 65        | 19.9  | 17.7  | 26.5   |

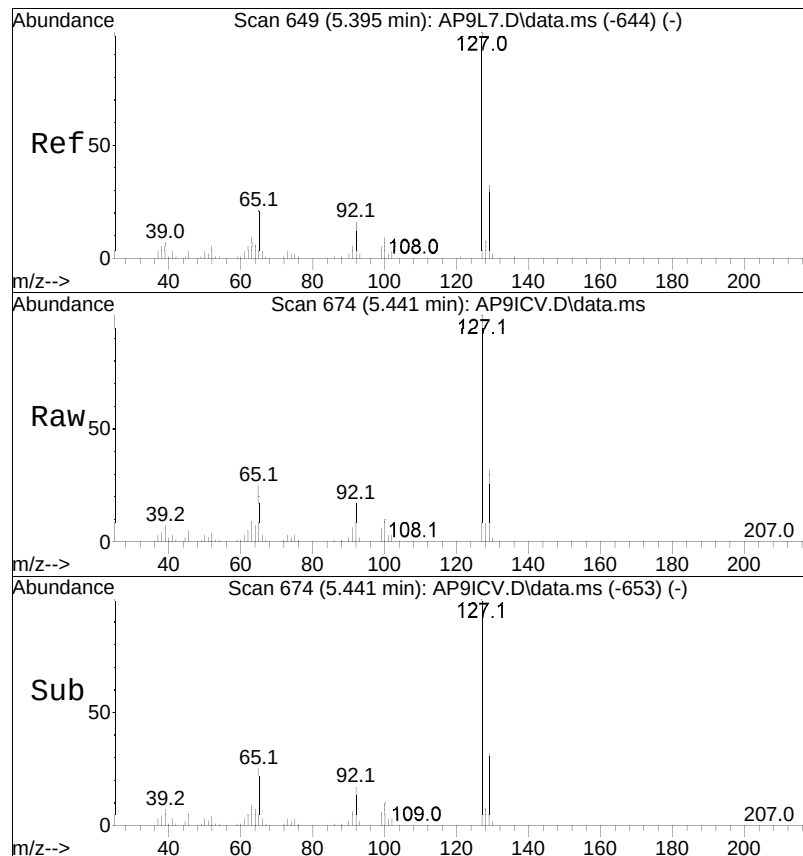




#56  
a-Terpineol  
Concen: 46.84 ug/ml  
RT: 5.429 min Scan# 672  
Delta R.T. 0.005 min  
Lab File: AP9ICV.D  
Acq: 7 Oct 2019 2:05 am

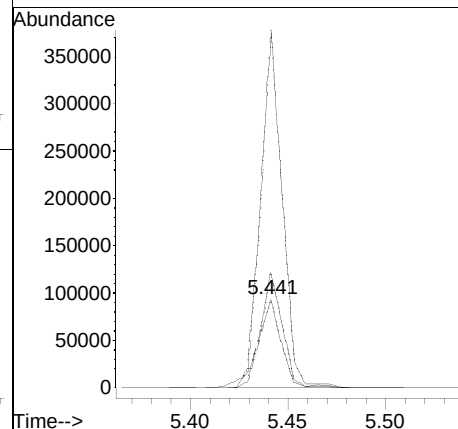
| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 59  | 100  |      |       |       |
| 93  | 65.1 | 59.1 | 88.7  |       |

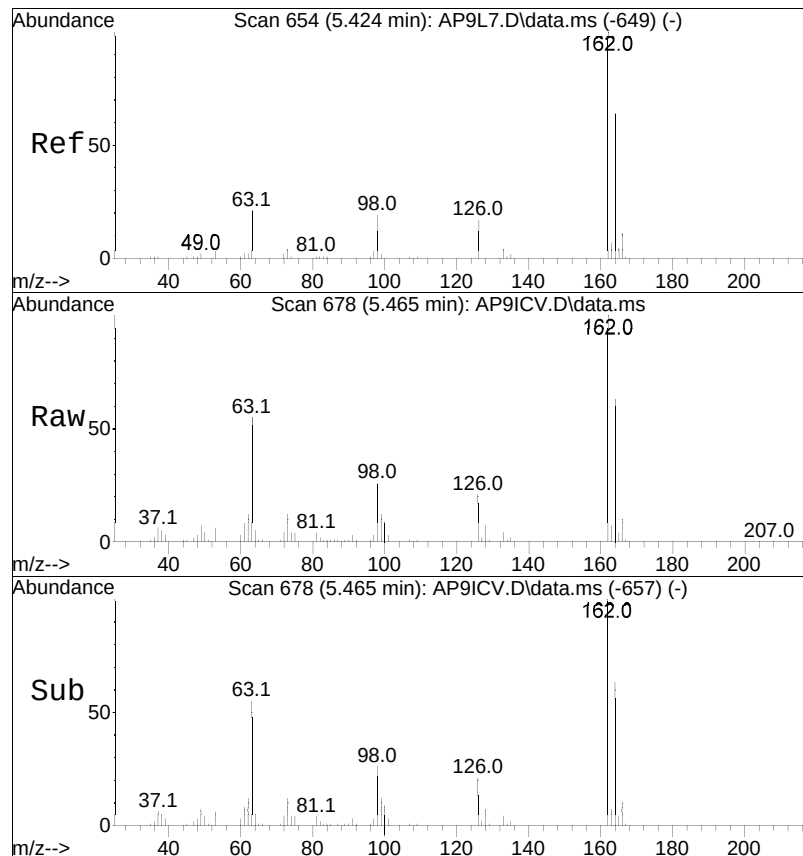




#57  
 3-Chloroaniline  
 Concen: 45.68 ug/ml  
 RT: 5.441 min Scan# 674  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

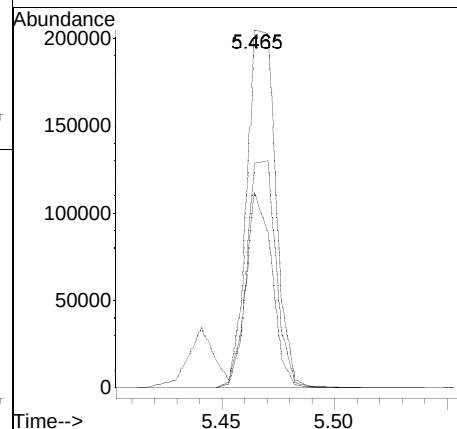
| Tgt Ion:  | 65    | Resp: | 78977 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 127       | 360.7 | 273.4 | 410.2 |
| 129       | 116.9 | 88.0  | 132.0 |

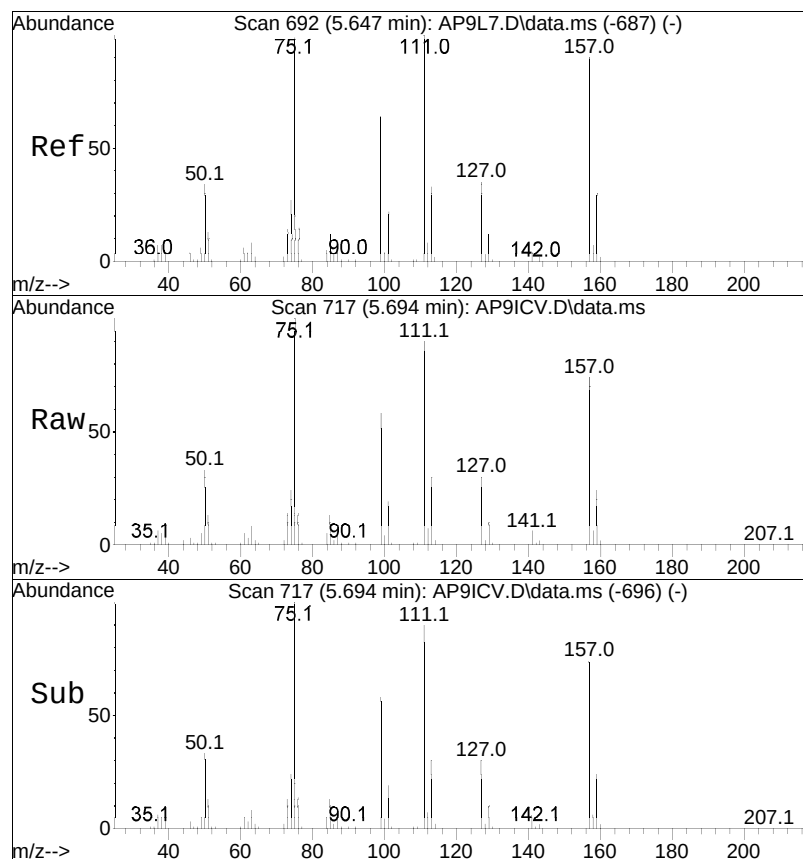




#58  
 2,6-Dichlorophenol  
 Concen: 47.27 ug/ml  
 RT: 5.465 min Scan# 678  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

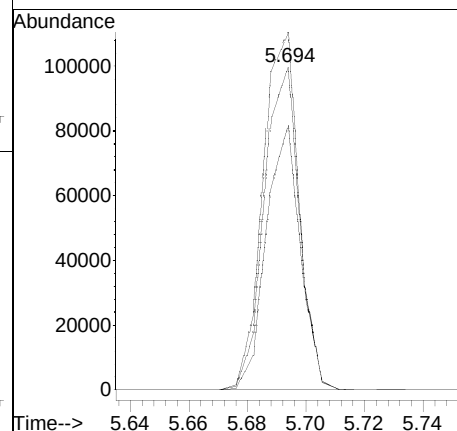
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 181812 |       |       |
| 164     | 63.6  | 50.6   | 75.8  |       |
| 63      | 49.1  | 50.5   | 75.7  |       |

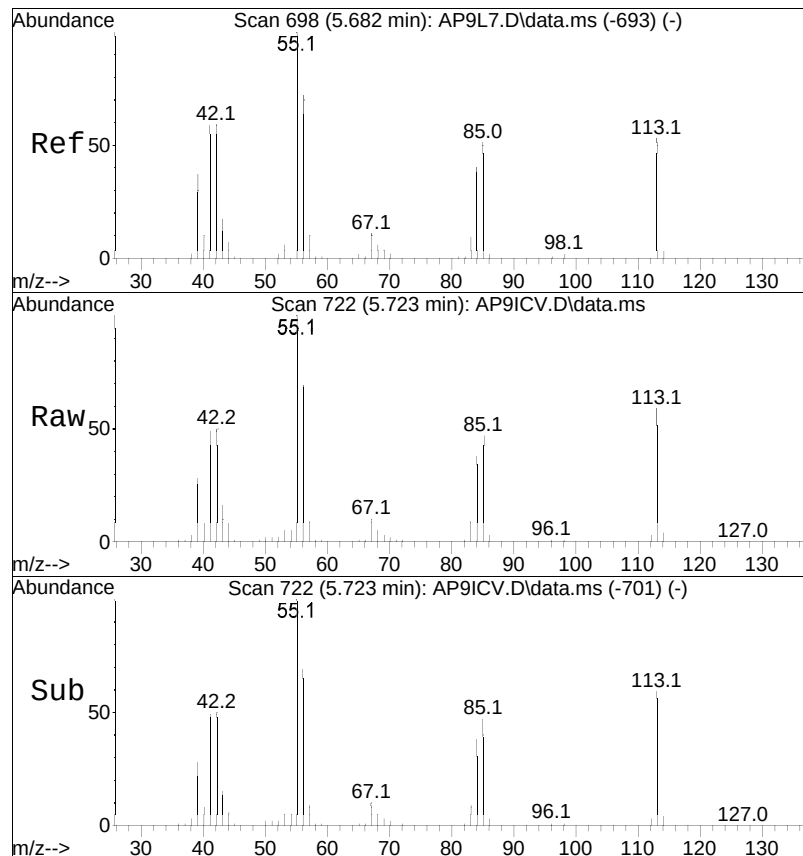




#59  
 1-chloro-2-nitrobenzene  
 Concen: 46.78 ug/ml  
 RT: 5.694 min Scan# 717  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

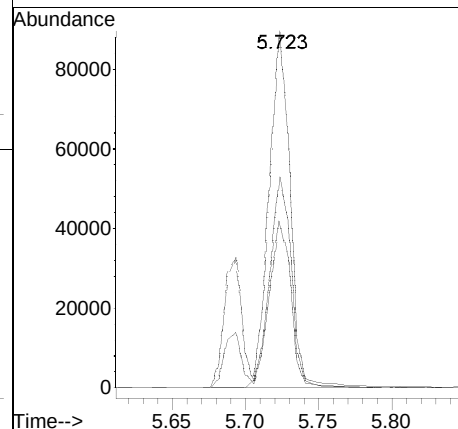
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 111   | Resp: | 82875 |
| Ion Ratio | Lower | Upper |       |
| 111       | 100   |       |       |
| 157       | 79.3  | 55.1  | 82.7  |
| 75        | 112.9 | 100.1 | 150.1 |

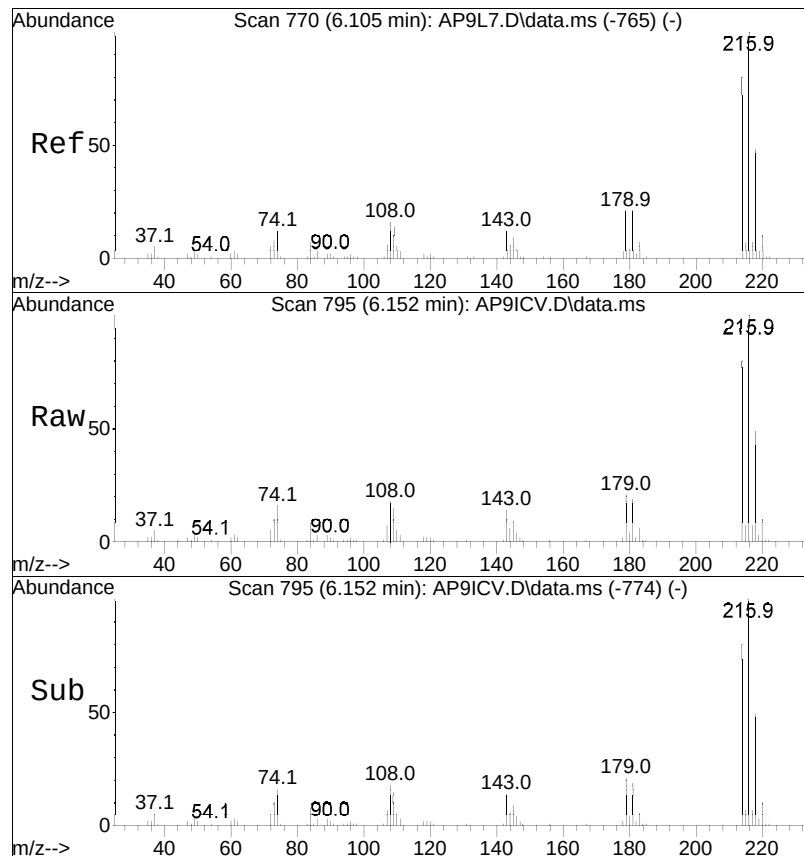




#60  
 Caprolactam  
 Concen: 47.52 ug/ml  
 RT: 5.723 min Scan# 722  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

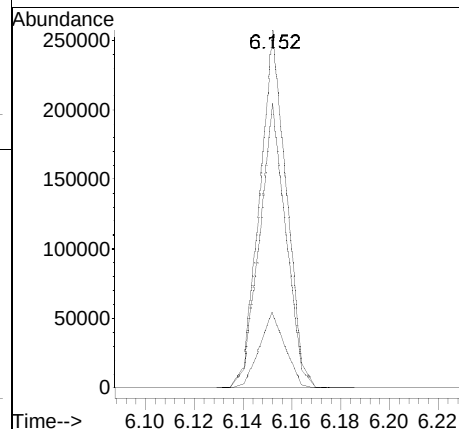
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 55 | Resp: | 89118  |
| Ion | Ratio   | Lower | Upper  |
| 55  | 100     |       |        |
| 85  | 47.9    | 47.4  | 71.2   |
| 113 | 59.1    | 71.0  | 106.4# |



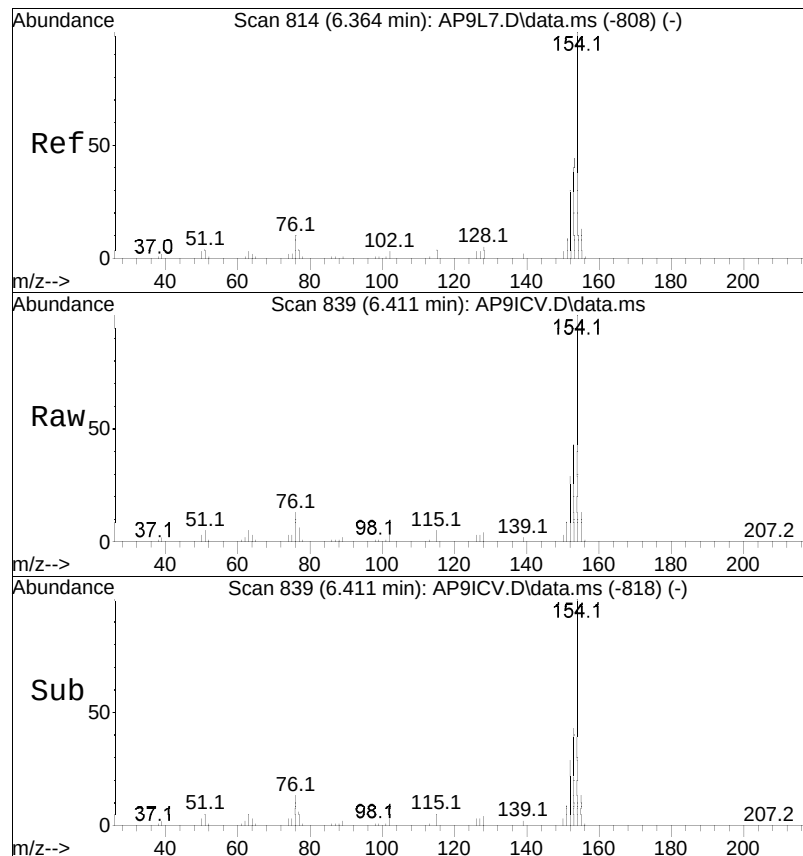


#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 46.08 ug/ml  
 RT: 6.152 min Scan# 795  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 193406 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 78.8  | 64.2  | 96.2   |
| 179       | 20.7  | 17.8  | 26.8   |

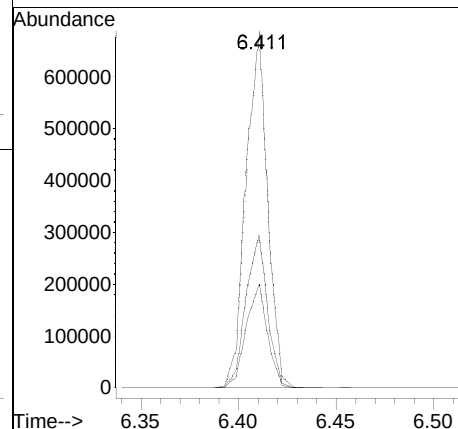


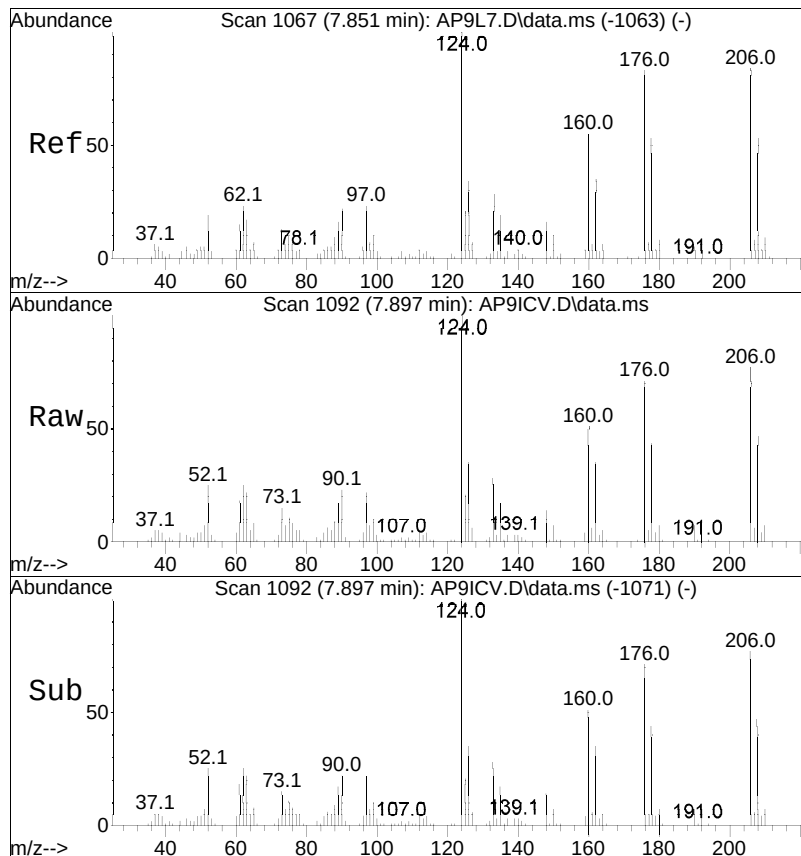




#62  
 Biphenyl  
 Concen: 45.93 ug/ml  
 RT: 6.411 min Scan# 839  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

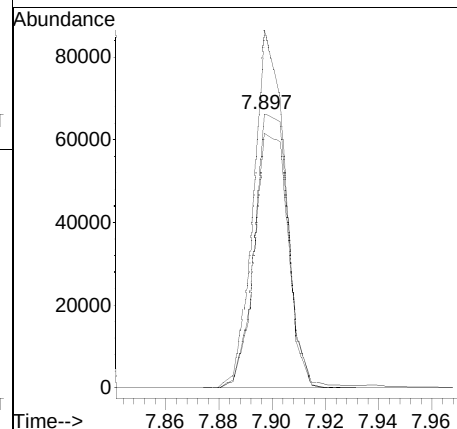
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 524267 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 42.9  | 35.1  | 52.7   |
| 152       | 29.0  | 24.0  | 36.0   |

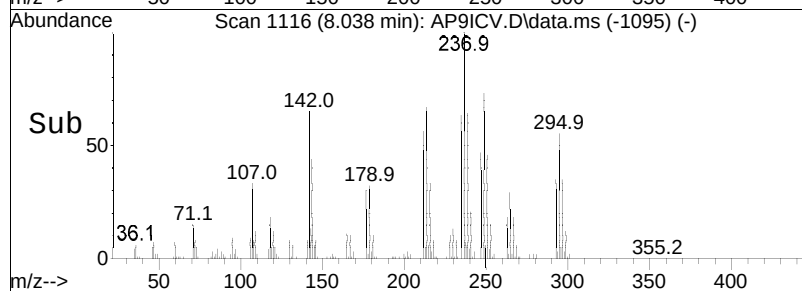
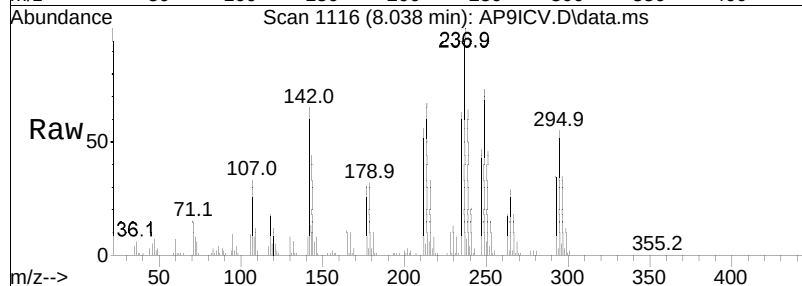
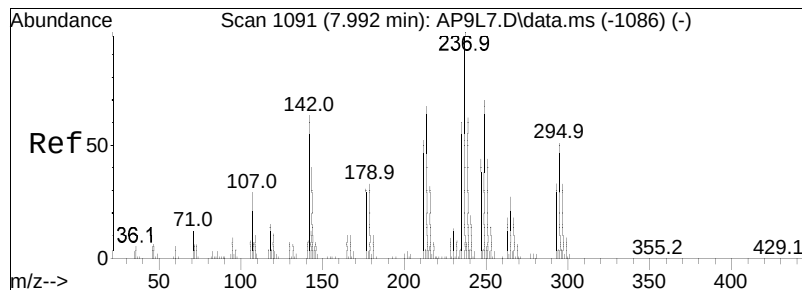




#84  
 Dichloran  
 Concen: 47.79 ug/ml  
 RT: 7.897 min Scan# 1092  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

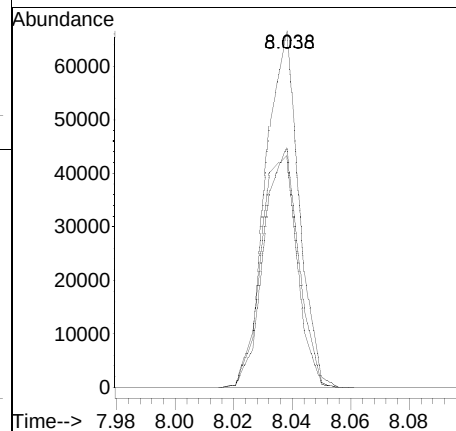
| Tgt | Ion   | Ratio | Lower  | Upper |
|-----|-------|-------|--------|-------|
| 206 | 100   |       |        |       |
| 176 | 98.0  | 93.0  | 139.6  |       |
| 124 | 121.8 | 133.2 | 199.8# |       |

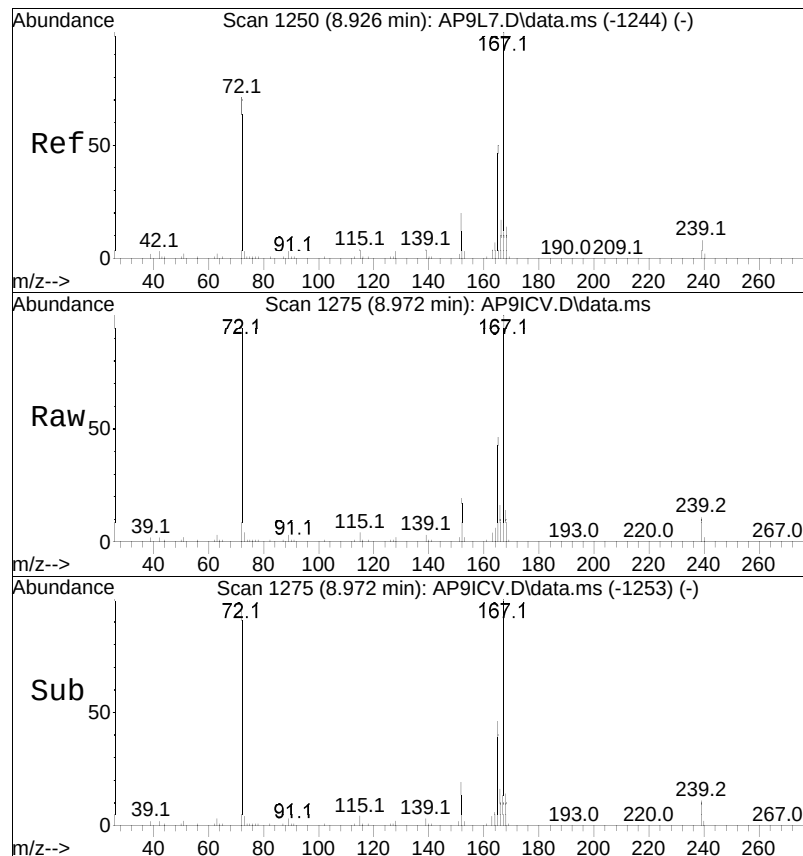




#85  
 Pentachloronitrobenzene  
 Concen: 47.19 ug/ml  
 RT: 8.038 min Scan# 1116  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

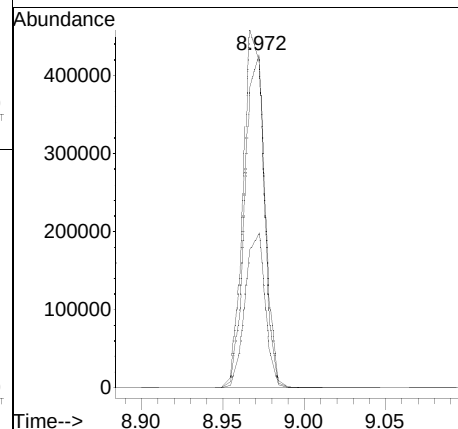
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 237     | 100   |       |        |
| 142     | 70.6  | 79.9  | 119.9# |
| 214     | 70.1  | 56.7  | 85.1   |





#99  
 Diphenamid  
 Concen: 47.78 ug/ml  
 RT: 8.972 min Scan# 1275  
 Delta R.T. 0.005 min  
 Lab File: AP9ICV.D  
 Acq: 7 Oct 2019 2:05 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 367162 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 72        | 108.7 | 127.1 | 190.7# |
| 165       | 46.2  | 44.1  | 66.1   |



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : AP9ICV.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 2:05 am Instrument : Buffy  
Sample : CQICV2,32,,AP9 ICV Lot#807 Quant Date : 10/7/2019 11:00 am

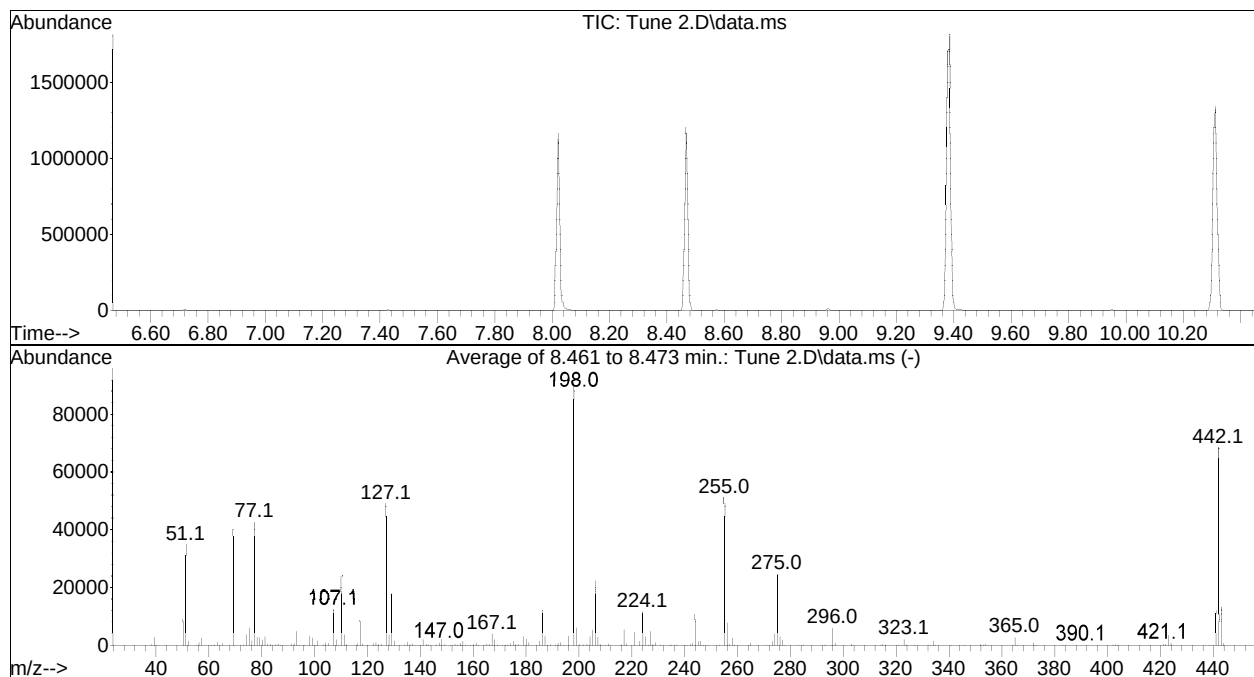
There are no manual integrations or false positives in this file.

## DFTPP

Data Path : I:\8270\Buffy\191006ical\  
 Data File : Tune 2.D  
 Acq On : 7 Oct 2019 7:39 am  
 Operator : Buffy:ek  
 Sample : Tune 2  
 Misc : wg1293206,,  
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Oct 07 12:50:35 2019

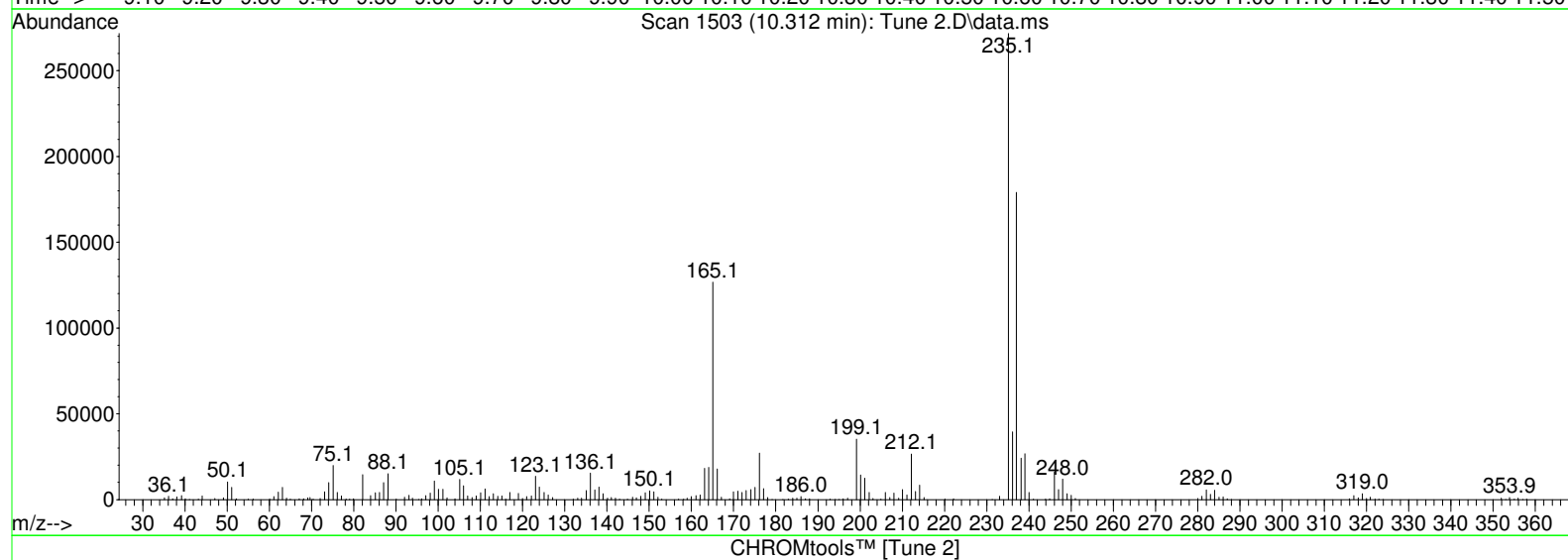
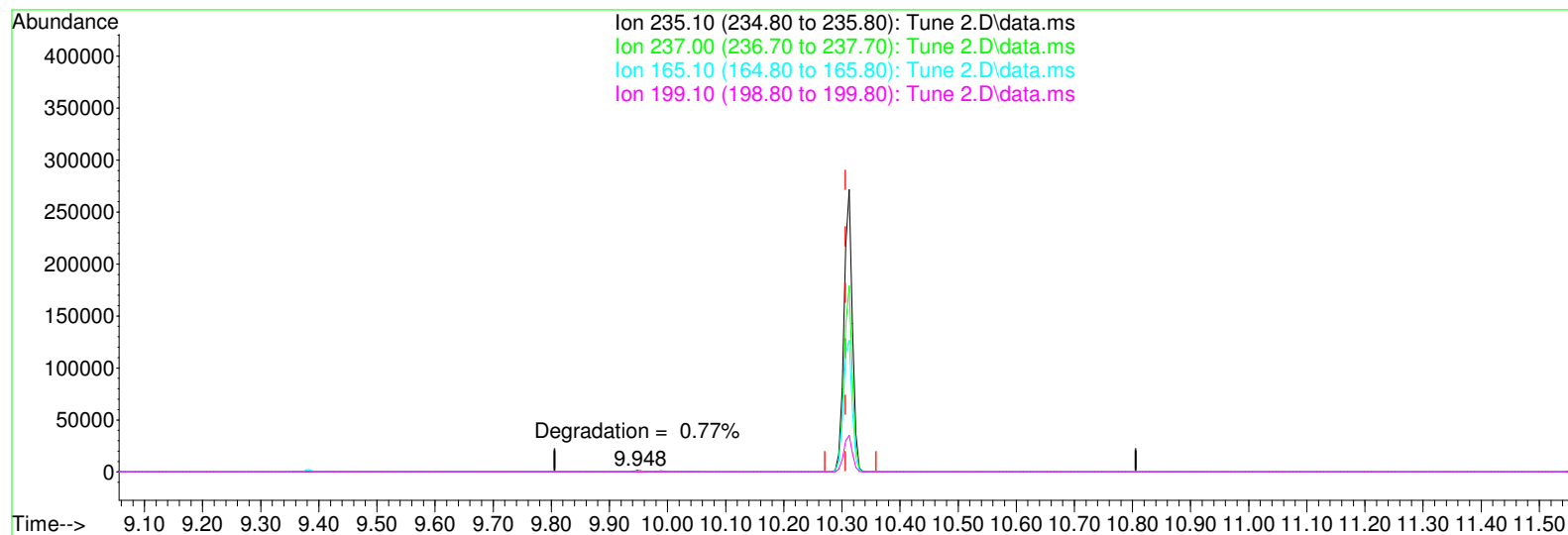


Spectrum Information: Average of 8.461 to 8.473 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 38.1      | 34783   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 70          | 69           | 0.00         | 2            | 0.6       | 227     | PASS             |
| 127         | 198          | 10           | 80           | 53.7      | 49043   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 91243   | PASS             |
| 199         | 198          | 5            | 9            | 6.6       | 5978    | PASS             |
| 275         | 198          | 10           | 60           | 27.0      | 24599   | PASS             |
| 365         | 198          | 1            | 100          | 3.1       | 2787    | PASS             |
| 441         | 442          | 0.01         | 24           | 17.3      | 11811   | PASS             |
| 442         | 198          | 50           | 100          | 75.0      | 68421   | PASS             |
| 443         | 442          | 15           | 24           | 19.1      | 13096   | PASS             |

Data Path : I:\8270\Buffy\191006ical\  
Data File : Tune 2.D  
Acq On : 7 Oct 2019 7:39 am  
Operator : Buffy:  
Sample : Tune 2  
Misc :  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 07 09:11:09 2019  
Quant Method : I:\8270\Buffy\191006ical\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:08:27 2019  
Response via : Initial Calibration



(6) ddt (T)

10.312min (+ 0.006) 44.62

response 271985

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |

|        |       |       |
|--------|-------|-------|
| 237.00 | 62.60 | 65.41 |
|--------|-------|-------|

|        |       |       |
|--------|-------|-------|
| 165.10 | 46.90 | 48.72 |
|--------|-------|-------|

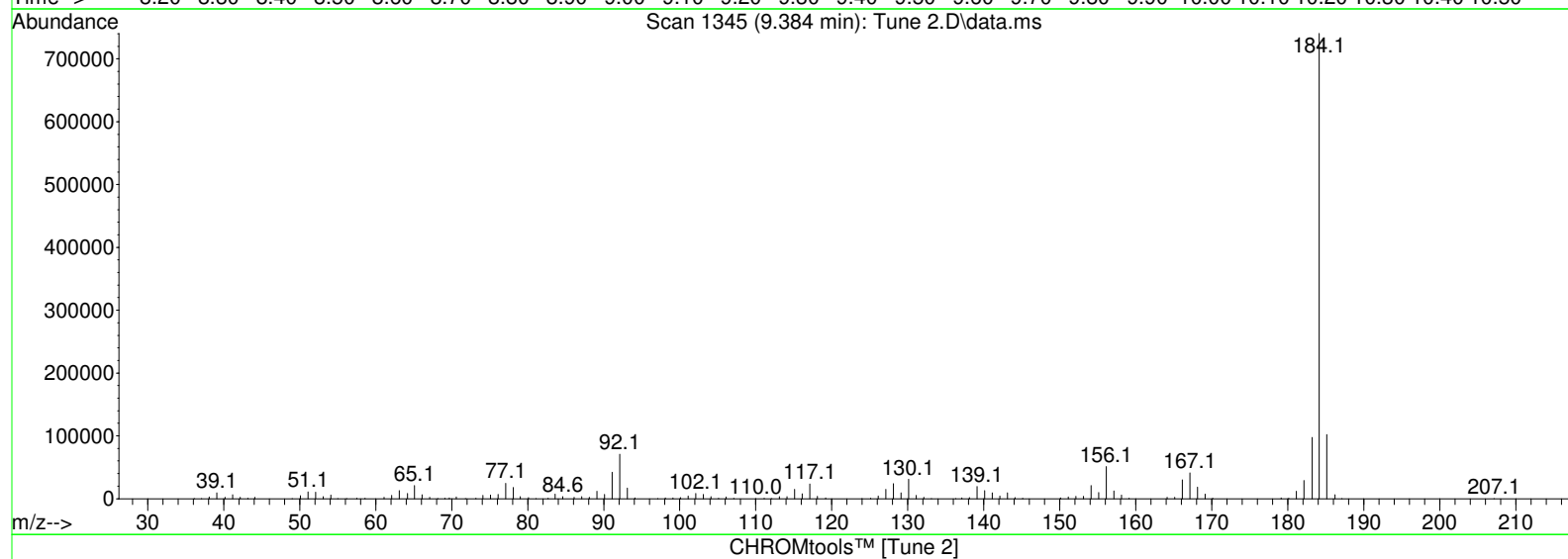
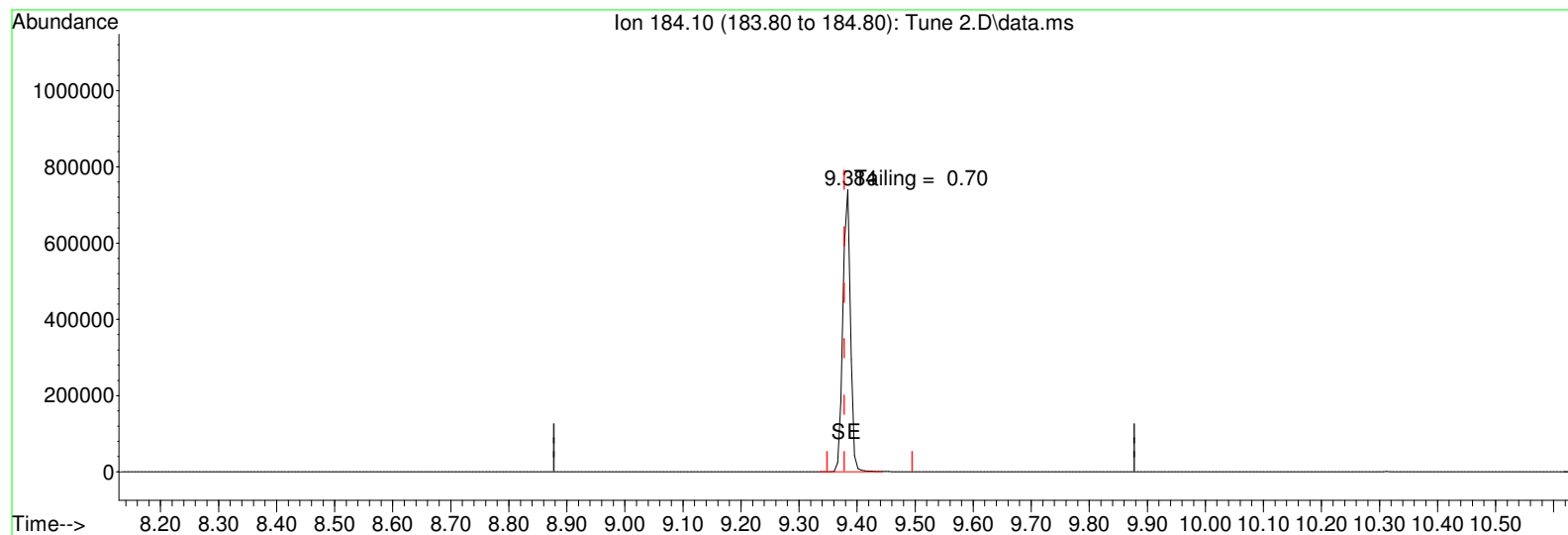
Duplicate Retention Times

(4) DDE 246.00

(5) DDD 235.00

Data Path : I:\8270\Buffy\191006ical\  
Data File : Tune 2.D  
Acq On : 7 Oct 2019 7:39 am  
Operator : Buffy:  
Sample : Tune 2  
Misc :  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 07 09:11:09 2019  
Quant Method : I:\8270\Buffy\191006ical\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:08:27 2019  
Response via : Initial Calibration



(3) benzidine (T)

9.384min (+ 0.006) 66.29

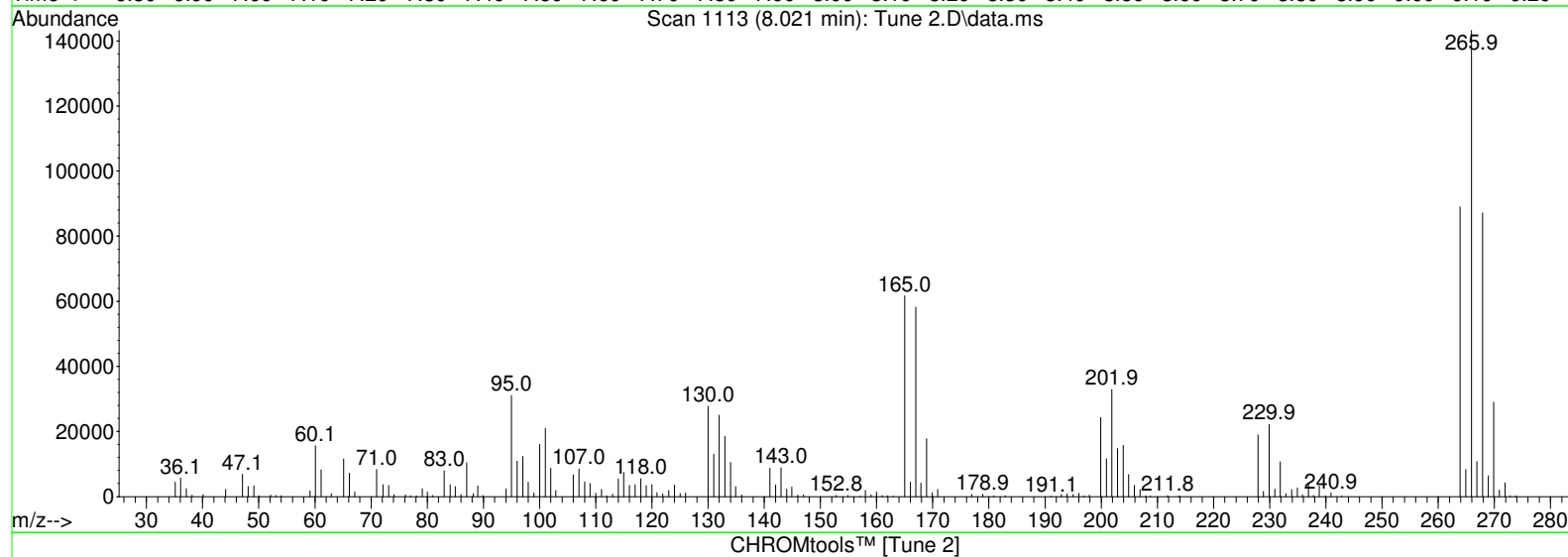
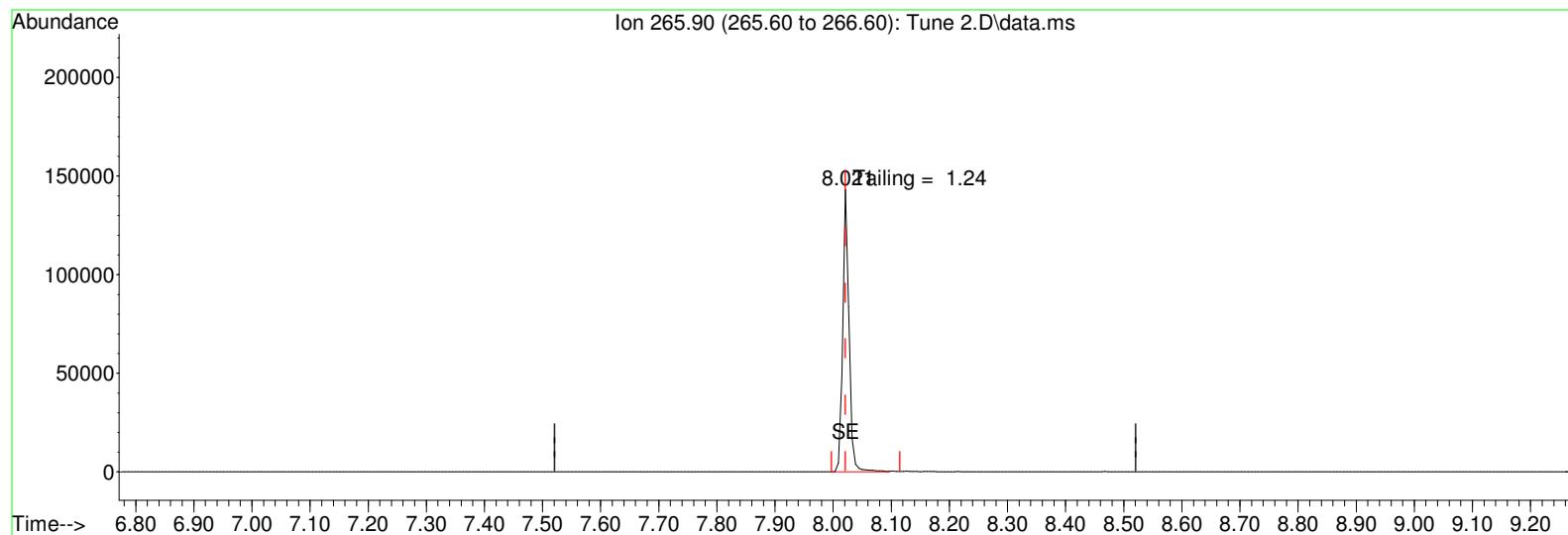
response 674797

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |



Data Path : I:\8270\Buffy\191006ical\  
Data File : Tune 2.D  
Acq On : 7 Oct 2019 7:39 am  
Operator : Buffy:  
Sample : Tune 2  
Misc :  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Oct 07 09:11:09 2019  
Quant Method : I:\8270\Buffy\191006ical\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Oct 07 09:08:27 2019  
Response via : Initial Calibration



(1) pentachlorophenol (T)

8.021min (-0.000) 52.17

response 109568

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |

|      |      |      |
|------|------|------|
| 0.00 | 0.00 | 0.00 |
|------|------|------|

|      |      |      |
|------|------|------|
| 0.00 | 0.00 | 0.00 |
|------|------|------|

|      |      |      |
|------|------|------|
| 0.00 | 0.00 | 0.00 |
|------|------|------|

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL10.D  
 Acq On : 7 Oct 2019 8:02 am  
 Operator : Buffy:ek  
 Sample : IL21,32,,ADPL200 Lot#8344  
 Misc : wg1293206,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 07 11:03:46 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 103859   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 66.49% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 228790   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 66.84% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 476375   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 70.09% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc    | Units | Qvalue |
|-----------------------------|--------|------|----------|---------|-------|--------|
| 33) 1,4-Dioxane             | 1.963  | 88   | 255541   | 199.485 | ug/ml | 93     |
| 34) n-Decane                | 4.202  | 57   | 632410   | 193.304 | ug/ml | 94     |
| 87) Atrazine                | 7.962  | 200  | 415354   | 200.150 | ug/ml | 95     |
| 101) n-Octadecane           | 8.127  | 57   | 962191   | 182.632 | ug/ml | 89     |
| 102) Parathion              | 8.861  | 109  | 343840   | 222.715 | ug/ml | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.183 | 212  | 2006460  | 209.423 | ug/ml | 99     |
| -----                       |        |      |          |         |       |        |

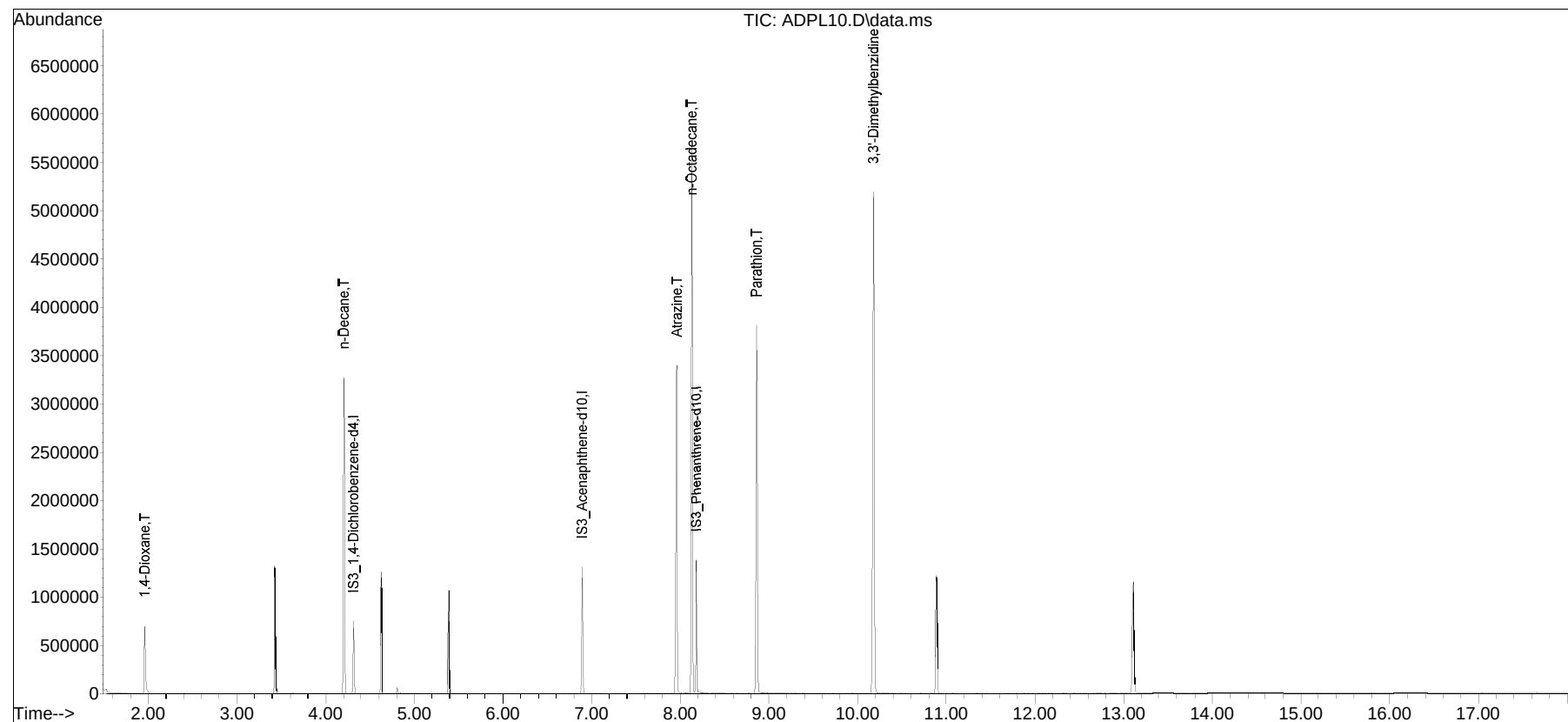
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL10.D  
 Acq On : 7 Oct 2019 8:02 am  
 Operator : Buffy:ek  
 Sample : IL21,32,,ADPL200 Lot#8344  
 Misc : wg1293206,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 07 11:03:46 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ADPL10.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 8:02 am Instrument : Buffy  
Sample : IL21,32,,ADPL200 Lot#8344 Quant Date : 10/7/2019 11:02 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL9.D  
 Acq On : 7 Oct 2019 8:25 am  
 Operator : Buffy:ek  
 Sample : IL22,32,,ADPL150 Lot#8353  
 Misc : wg1293206,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 07 11:04:43 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 132926   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 85.10% |          |
| 86) IS3_Acenaphthene-d10      | 6.898 | 164  | 288873   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 84.39% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 584832   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 86.05% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc    | Units | Qvalue |
|-----------------------------|--------|------|----------|---------|-------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 248375   | 151.493 | ug/ml | 94     |
| 34) n-Decane                | 4.207  | 57   | 633495   | 151.293 | ug/ml | 94     |
| 87) Atrazine                | 7.962  | 200  | 414238   | 158.095 | ug/ml | 93     |
| 101) n-Octadecane           | 8.126  | 57   | 991839   | 153.347 | ug/ml | 88     |
| 102) Parathion              | 8.861  | 109  | 330431   | 174.338 | ug/ml | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.183 | 212  | 1830821  | 155.653 | ug/ml | 99     |
| -----                       |        |      |          |         |       |        |

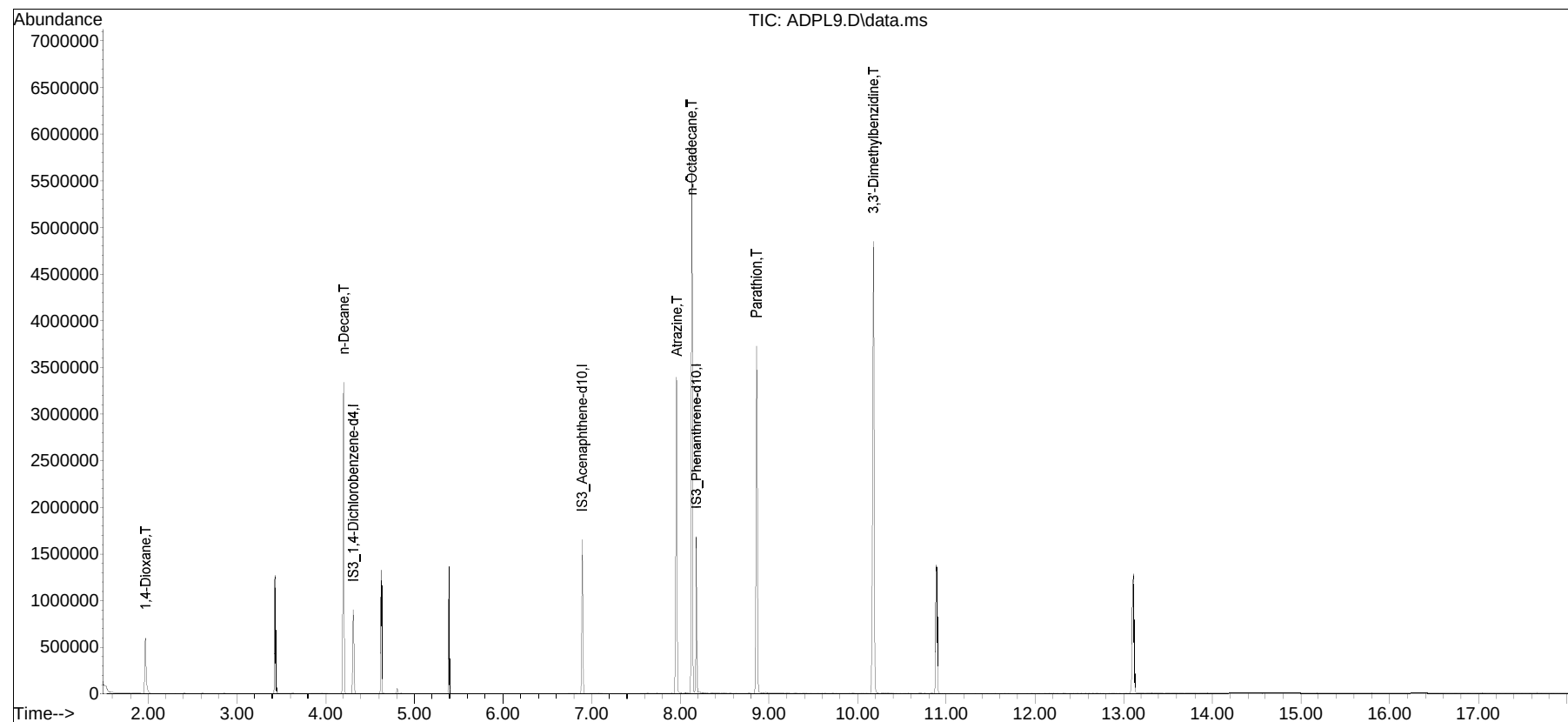
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL9.D  
 Acq On : 7 Oct 2019 8:25 am  
 Operator : Buffy:ek  
 Sample : IL22,32,,ADPL150 Lot#8353  
 Misc : wg1293206,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 07 11:04:43 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ADPL9.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 8:25 am Instrument : Buffy  
Sample : IL22,32,,ADPL150 Lot#8353 Quant Date : 10/7/2019 11:02 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL8.D  
 Acq On : 7 Oct 2019 8:48 am  
 Operator : Buffy:ek  
 Sample : IL23,32,,ADPL100 Lot#8352  
 Misc : wg1293206,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 07 11:05:20 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 127789   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 81.81% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 278321   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 81.31% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 555605   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 81.75% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc    | Units | Qvalue |
|-----------------------------|--------|------|----------|---------|-------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 172080   | 109.177 | ug/ml | 94     |
| 34) n-Decane                | 4.202  | 57   | 418525   | 103.971 | ug/ml | 94     |
| 87) Atrazine                | 7.956  | 200  | 262345   | 103.920 | ug/ml | 93     |
| 101) n-Octadecane           | 8.127  | 57   | 608650   | 99.053  | ug/ml | 88     |
| 102) Parathion              | 8.861  | 109  | 196166   | 108.943 | ug/ml | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.177 | 212  | 1162550  | 104.037 | ug/ml | 99     |
| -----                       |        |      |          |         |       |        |

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

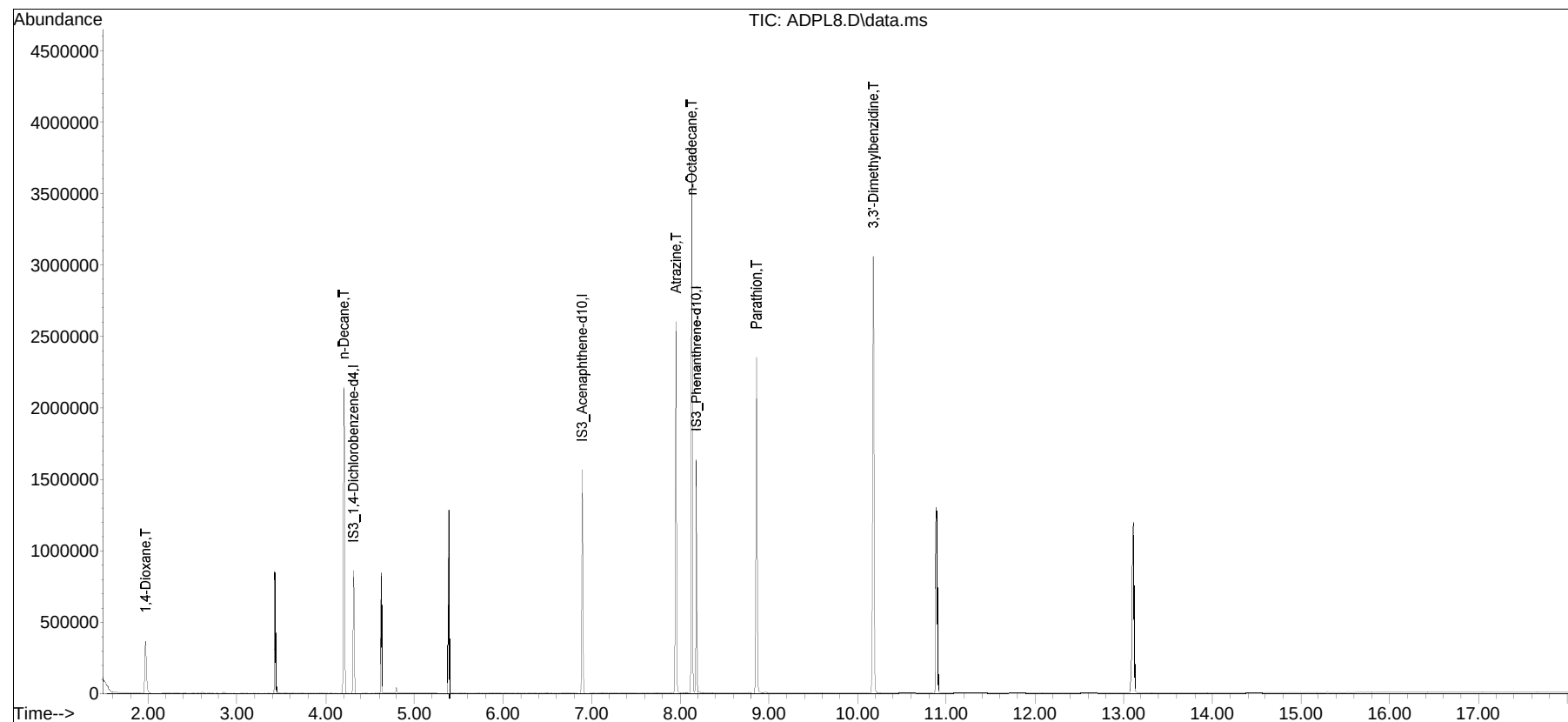


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL8.D  
 Acq On : 7 Oct 2019 8:48 am  
 Operator : Buffy:ek  
 Sample : IL23,32,,ADPL100 Lot#8352  
 Misc : wg1293206,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 07 11:05:20 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ADPL8.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 8:48 am Instrument : Buffy  
Sample : IL23,32,,ADPL100 Lot#8352 Quant Date : 10/7/2019 11:02 am

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL7.D  
 Acq On : 7 Oct 2019 9:11 am  
 Operator : Buffy:ek  
 Sample : IL24,32,,ADPL50 Lot#8351  
 Misc : wg1293206,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 07 09:46:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:46:34 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 156205   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 100.00% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 342303   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 100.00% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 679676   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 100.00% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-----------------------------|--------|------|----------|--------|-------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 96332    | 50.000 | ug/ml | 93     |
| 34) n-Decane                | 4.202  | 57   | 246025   | 50.000 | ug/ml | 95     |
| 87) Atrazine                | 7.956  | 200  | 155241   | 50.000 | ug/ml | 93     |
| 101) n-Octadecane           | 8.127  | 57   | 375843   | 50.000 | ug/ml | 88     |
| 102) Parathion              | 8.861  | 109  | 110136   | 50.000 | ug/ml | 98     |
| 103) 3,3'-Dimethylbenzidine | 10.177 | 212  | 683484   | 50.000 | ug/ml | 98     |
| -----                       |        |      |          |        |       |        |

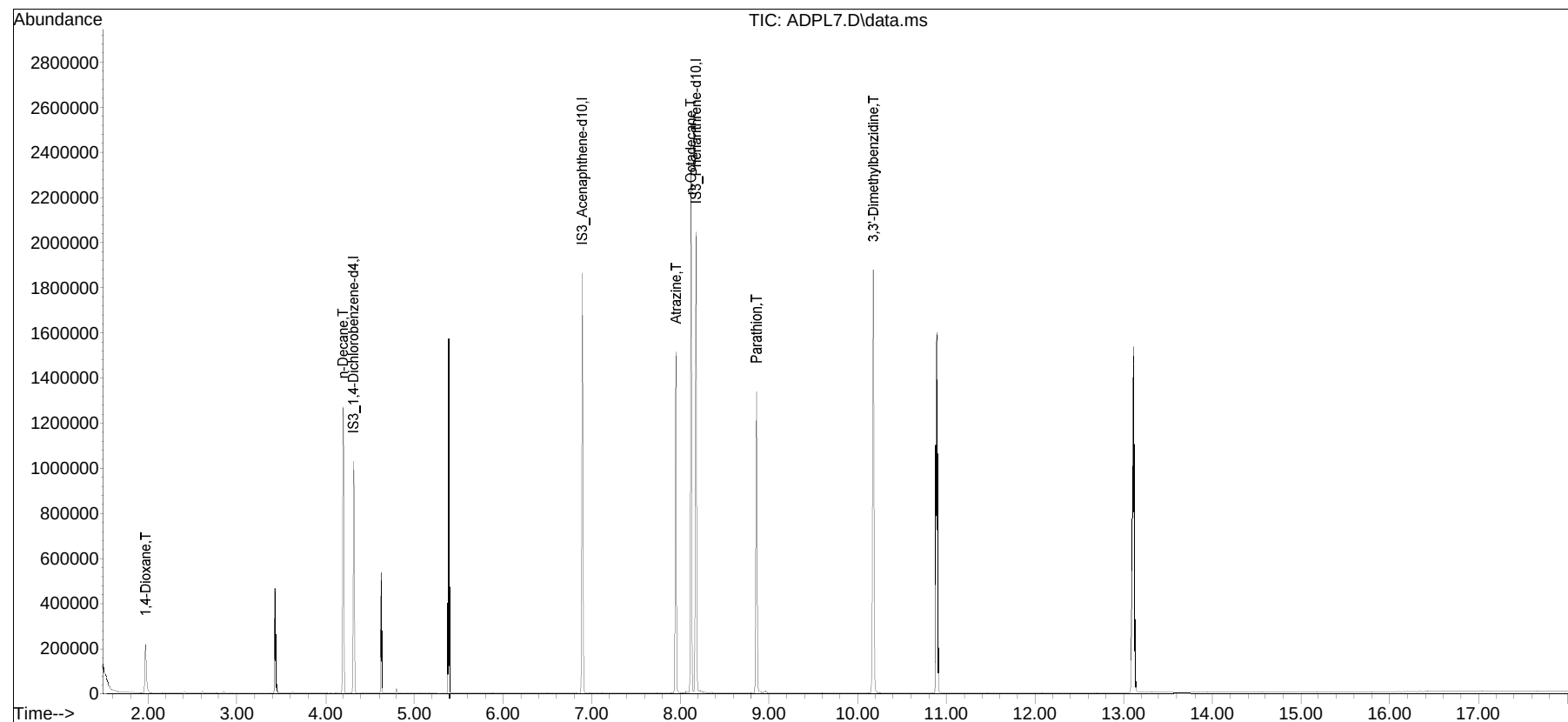
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL7.D  
 Acq On : 7 Oct 2019 9:11 am  
 Operator : Buffy:ek  
 Sample : IL24,32,,ADPL50 Lot#8351  
 Misc : wg1293206,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 07 09:46:59 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 09:46:34 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m   |
| Data File  | : ADPL7.D                   | Operator   | : Buffy:ek          |
| Date Inj'd | : 10/7/2019 9:11 am         | Instrument | : Buffy             |
| Sample     | : IL24,32,,ADPL50 Lot#8351  | Quant Date | : 10/7/2019 9:46 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL6.D  
 Acq On : 7 Oct 2019 9:35 am  
 Operator : Buffy:ek  
 Sample : IL25,32,,ADPL20 Lot#8350  
 Misc : wg1293206,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 07 11:06:36 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 127311   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 81.50% |          |
| 86) IS3_Acenaphthene-d10      | 6.898 | 164  | 268117   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 78.33% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 534407   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 78.63% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-----------------------------|--------|------|----------|--------|-------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 33111    | 21.086 | ug/ml | 92     |
| 34) n-Decane                | 4.201  | 57   | 82309    | 20.524 | ug/ml | 95     |
| 87) Atrazine                | 7.950  | 200  | 48740    | 20.042 | ug/ml | 94     |
| 101) n-Octadecane           | 8.126  | 57   | 117456   | 19.873 | ug/ml | 89     |
| 102) Parathion              | 8.855  | 109  | 30203    | 17.439 | ug/ml | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.171 | 212  | 202843   | 18.873 | ug/ml | 99     |
| -----                       |        |      |          |        |       |        |

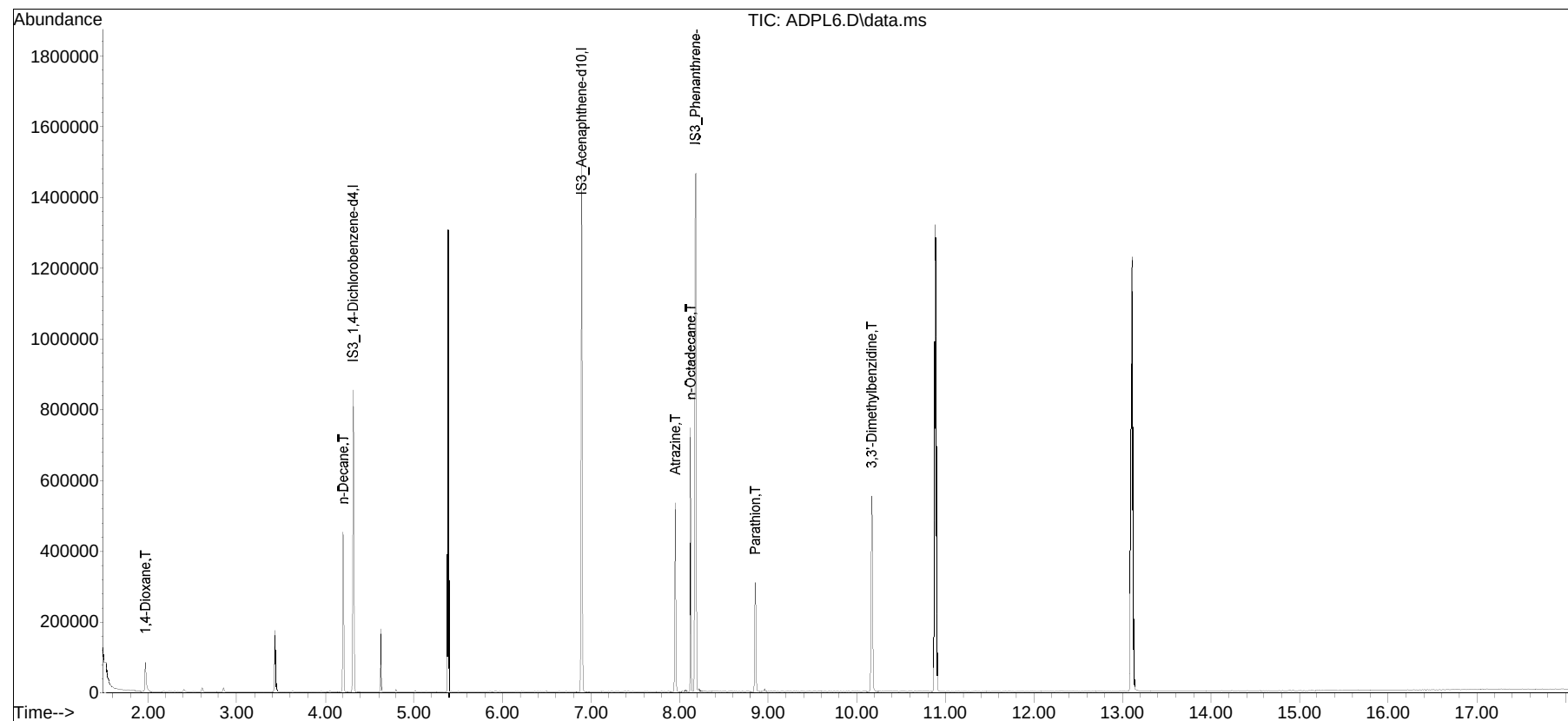
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL6.D  
 Acq On : 7 Oct 2019 9:35 am  
 Operator : Buffy:ek  
 Sample : IL25,32,,ADPL20 Lot#8350  
 Misc : wg1293206,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 07 11:06:36 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ADPL6.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/7/2019 9:35 am         | Instrument | : Buffy              |
| Sample     | : IL25,32,,ADPL20 Lot#8350  | Quant Date | : 10/7/2019 11:02 am |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL5.D  
 Acq On : 7 Oct 2019 9:58 am  
 Operator : Buffy:ek  
 Sample : IL26,32,,ADPL10 Lot#8349  
 Misc : wg1293206,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 07 11:07:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 137819   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 88.23% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 285582   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 83.43% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 564208   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 83.01% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-----------------------------|--------|------|----------|--------|-------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 17818    | 10.482 | ug/ml | 90     |
| 34) n-Decane                | 4.202  | 57   | 46360    | 10.679 | ug/ml | 94     |
| 87) Atrazine                | 7.950  | 200  | 26880    | 10.377 | ug/ml | 91     |
| 101) n-Octadecane           | 8.127  | 57   | 64464    | 10.331 | ug/ml | 90     |
| 102) Parathion              | 8.855  | 109  | 15151    | 8.286  | ug/ml | 96     |
| 103) 3,3'-Dimethylbenzidine | 10.177 | 212  | 106609   | 9.395  | ug/ml | 98     |
| -----                       |        |      |          |        |       |        |

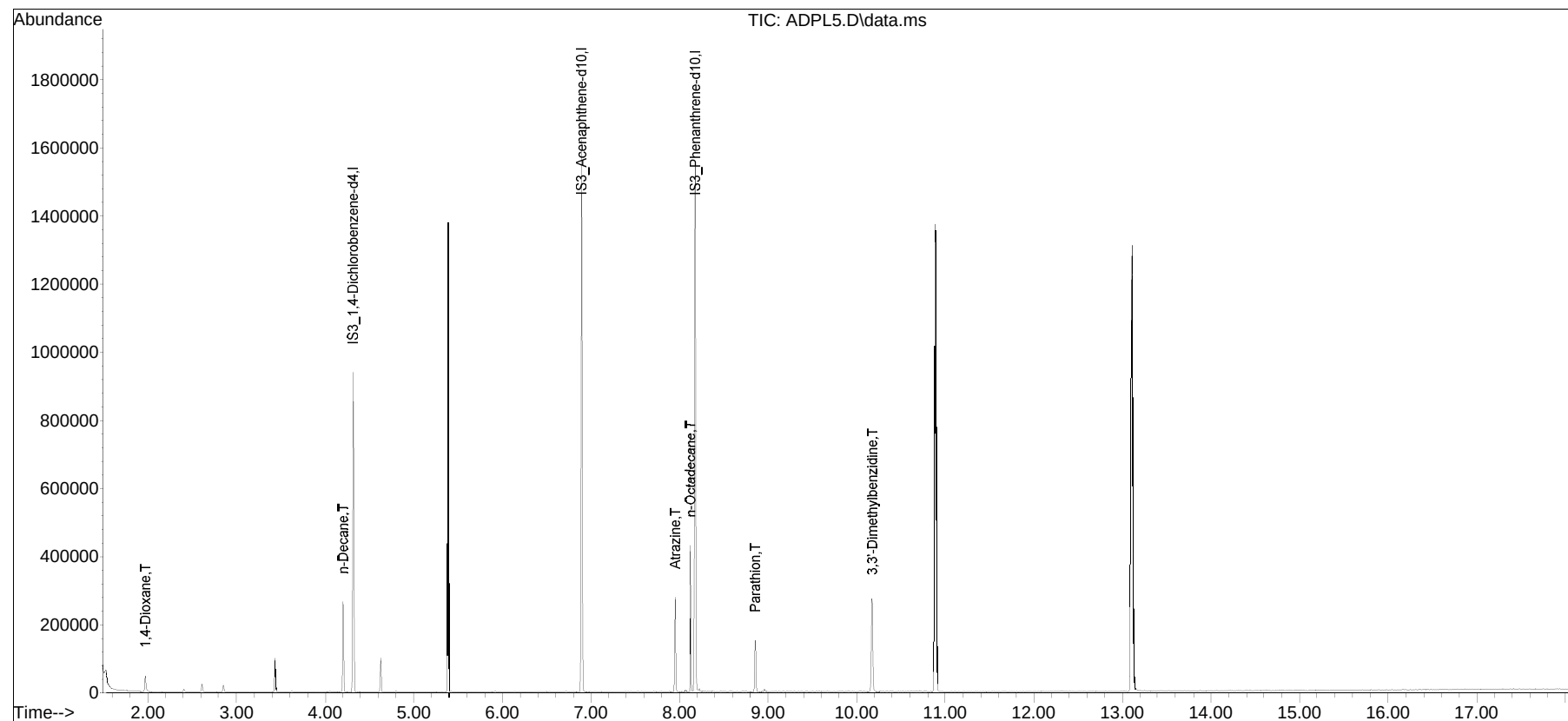
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL5.D  
 Acq On : 7 Oct 2019 9:58 am  
 Operator : Buffy:ek  
 Sample : IL26,32,,ADPL10 Lot#8349  
 Misc : wg1293206,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 07 11:07:33 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ADPL5.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/7/2019 9:58 am         | Instrument | : Buffy              |
| Sample     | : IL26,32,,ADPL10 Lot#8349  | Quant Date | : 10/7/2019 11:02 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL4.D  
 Acq On : 7 Oct 2019 10:21 am  
 Operator : Buffy:ek  
 Sample : IL27,32,,ADPL5 Lot#8348  
 Misc : wg1293206,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 07 11:08:19 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 105082   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 67.27% |          |
| 86) IS3_Acenaphthene-d10      | 6.898 | 164  | 222574   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 65.02% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 438682   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 64.54% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units | Qvalue |
|-----------------------------|--------|------|----------|-------|-------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 7097     | 5.476 | ug/ml | 92     |
| 34) n-Decane                | 4.202  | 57   | 17976    | 5.431 | ug/ml | 95     |
| 87) Atrazine                | 7.950  | 200  | 9868     | 4.888 | ug/ml | 92     |
| 101) n-Octadecane           | 8.126  | 57   | 23392    | 4.822 | ug/ml | 88     |
| 102) Parathion              | 8.855  | 109  | 5192     | 3.652 | ug/ml | 93     |
| 103) 3,3'-Dimethylbenzidine | 10.177 | 212  | 35628    | 4.038 | ug/ml | 98     |
| -----                       |        |      |          |       |       |        |

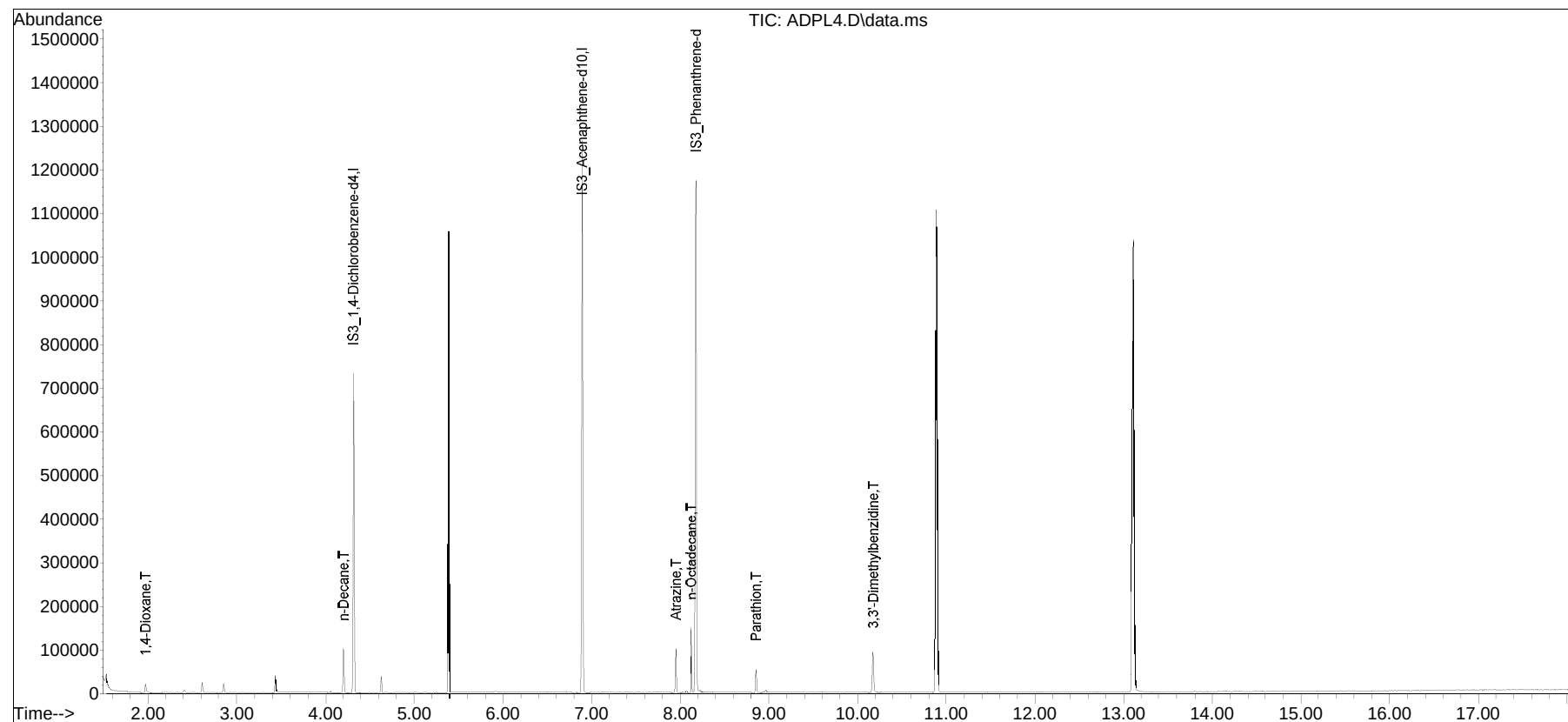
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL4.D  
 Acq On : 7 Oct 2019 10:21 am  
 Operator : Buffy:ek  
 Sample : IL27,32,,ADPL5 Lot#8348  
 Misc : wg1293206,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 07 11:08:19 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 10:59:46 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ADPL4.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/7/2019 10:21 am        | Instrument | : Buffy              |
| Sample     | : IL27,32,,ADPL5 Lot#8348   | Quant Date | : 10/7/2019 11:02 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL3.D  
 Acq On : 7 Oct 2019 10:44 am  
 Operator : Buffy:ek  
 Sample : IL28,32,,ADPL3 Lot#8347  
 Misc : wg1293206,,  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 07 11:10:15 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:08:37 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 107470   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 68.80% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 229840   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 67.15% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 439144   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 64.61% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 4479     | 3.242 | ug/ml# | 90     |
| 34) n-Decane                | 4.202  | 57   | 10622    | 3.053 | ug/ml  | 96     |
| 87) Atrazine                | 7.950  | 200  | 5226     | 2.468 | ug/ml  | 92     |
| 101) n-Octadecane           | 8.127  | 57   | 13681    | 2.851 | ug/ml# | 86     |
| 102) Parathion              | 8.855  | 109  | 2778     | 2.010 | ug/ml  | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.171 | 212  | 18270    | 2.124 | ug/ml  | 98     |
| -----                       |        |      |          |       |        |        |

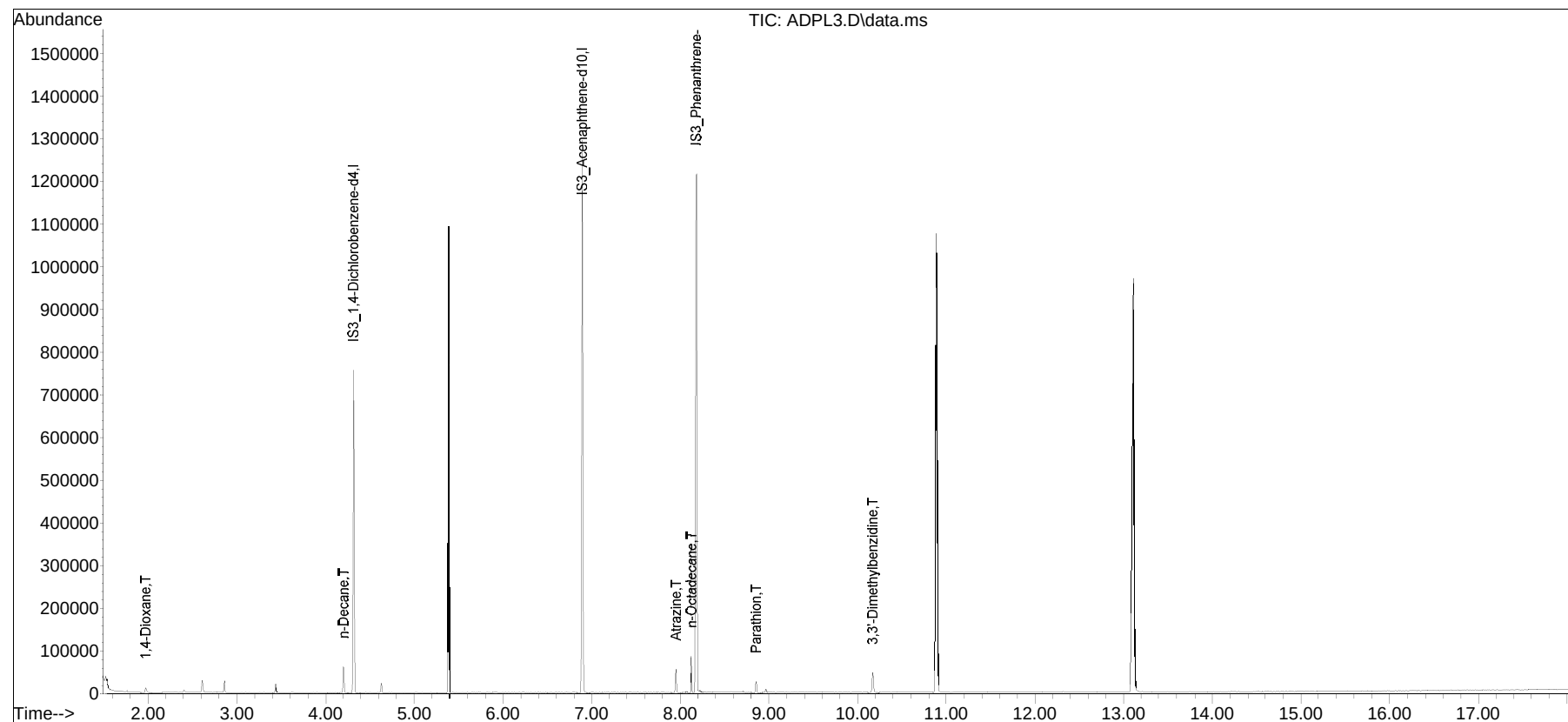
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL3.D  
 Acq On : 7 Oct 2019 10:44 am  
 Operator : Buffy:ek  
 Sample : IL28,32,,ADPL3 Lot#8347  
 Misc : wg1293206,,  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 07 11:10:15 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:08:37 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•





# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ADPL3.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/7/2019 10:44 am        | Instrument | : Buffy              |
| Sample     | : IL28,32,,ADPL3 Lot#8347   | Quant Date | : 10/7/2019 11:09 am |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL2.D  
 Acq On : 7 Oct 2019 11:07 am  
 Operator : Buffy:ek  
 Sample : IL29,32,,ADPL2 Lot#8346  
 Misc : wg1293206,,  
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 07 12:50:17 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:10:35 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 104589   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 66.96% |          |
| 86) IS3_Acenaphthene-d10      | 6.898 | 164  | 223746   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 65.36% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 434521   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 63.93% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.969  | 88   | 2689     | 1.980 | ug/ml# | 77     |
| 34) n-Decane                | 4.202  | 57   | 8053     | 2.373 | ug/ml  | 94     |
| 87) Atrazine                | 7.950  | 200  | 3960     | 1.964 | ug/ml  | 92     |
| 101) n-Octadecane           | 8.126  | 57   | 9845     | 2.086 | ug/ml  | 92     |
| 102) Parathion              | 8.855  | 109  | 2141     | 1.566 | ug/ml  | 93     |
| 103) 3,3'-Dimethylbenzidine | 10.177 | 212  | 12752    | 1.499 | ug/ml  | 97     |
| -----                       |        |      |          |       |        |        |

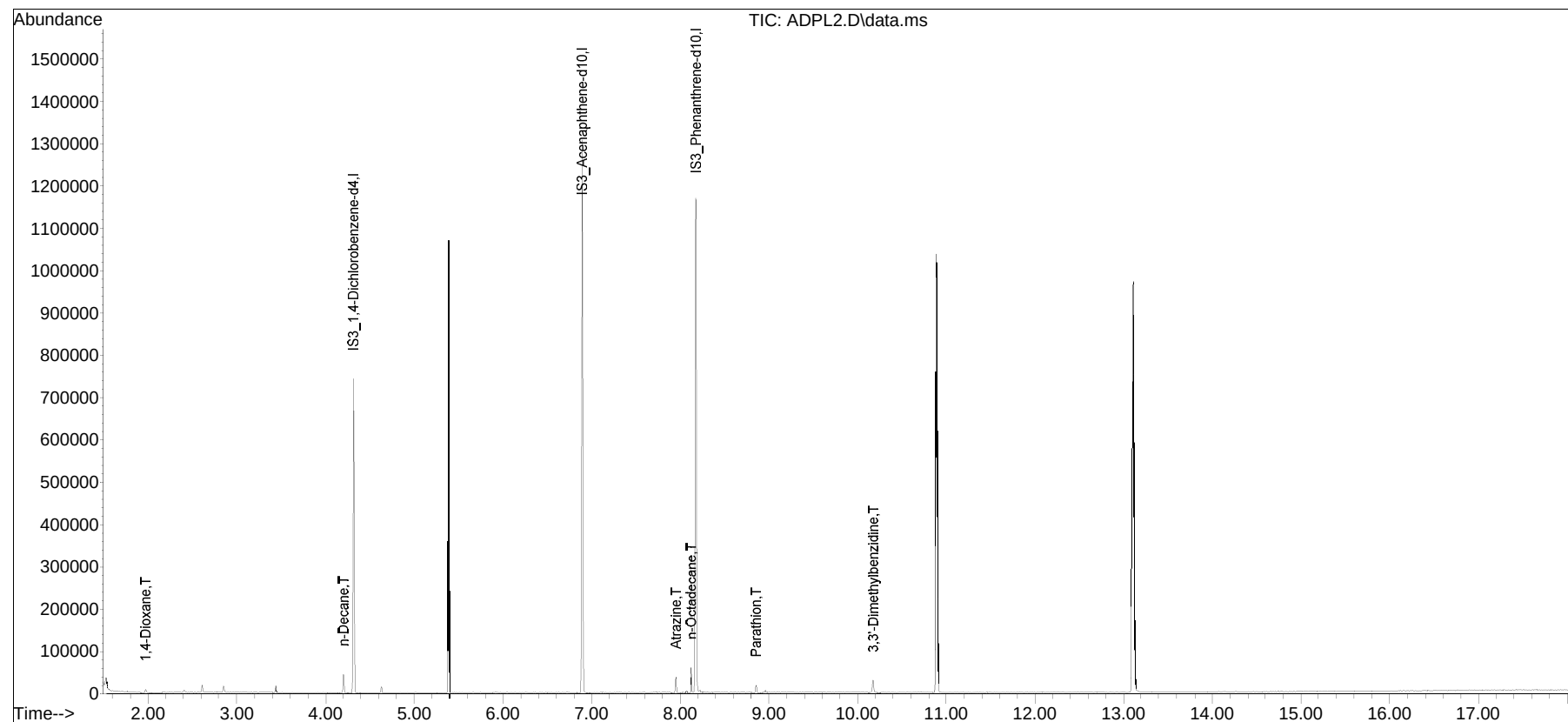
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL2.D  
 Acq On : 7 Oct 2019 11:07 am  
 Operator : Buffy:ek  
 Sample : IL29,32,,ADPL2 Lot#8346  
 Misc : wg1293206,,  
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 07 12:50:17 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:10:35 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

|            |                             |            |                      |
|------------|-----------------------------|------------|----------------------|
| Data Path  | : I:\8270\Buffy\191006ical\ | QMethod    | : FS191006buffy.m    |
| Data File  | : ADPL2.D                   | Operator   | : Buffy:ek           |
| Date Inj'd | : 10/7/2019 11:07 am        | Instrument | : Buffy              |
| Sample     | : IL29,32,,ADPL2 Lot#8346   | Quant Date | : 10/7/2019 12:47 pm |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL1.D  
 Acq On : 7 Oct 2019 11:31 am  
 Operator : Buffy:ek  
 Sample : IL30,32,,ADPL0.5 Lot#8345  
 Misc : wg1293206,,  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 07 12:49:20 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:10:35 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 128029   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 81.96% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 269009   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 78.59% |          |
| 100) IS3_Phenanthrene-d10     | 8.179 | 188  | 527758   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 77.65% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.975  | 88   | 850      | 0.511 | ug/ml# | 31     |
| 34) n-Decane                | 4.202  | 57   | 2178     | 0.524 | ug/ml  | 85     |
| 87) Atrazine                | 7.950  | 200  | 1043     | 0.430 | ug/ml# | 32     |
| 101) n-Octadecane           | 8.127  | 57   | 2724     | 0.475 | ug/ml  | 93     |
| 102) Parathion              | 8.855  | 109  | 577      | 0.347 | ug/ml# | 72     |
| 103) 3,3'-Dimethylbenzidine | 10.171 | 212  | 3135     | 0.303 | ug/ml  | 95     |
| -----                       |        |      |          |       |        |        |

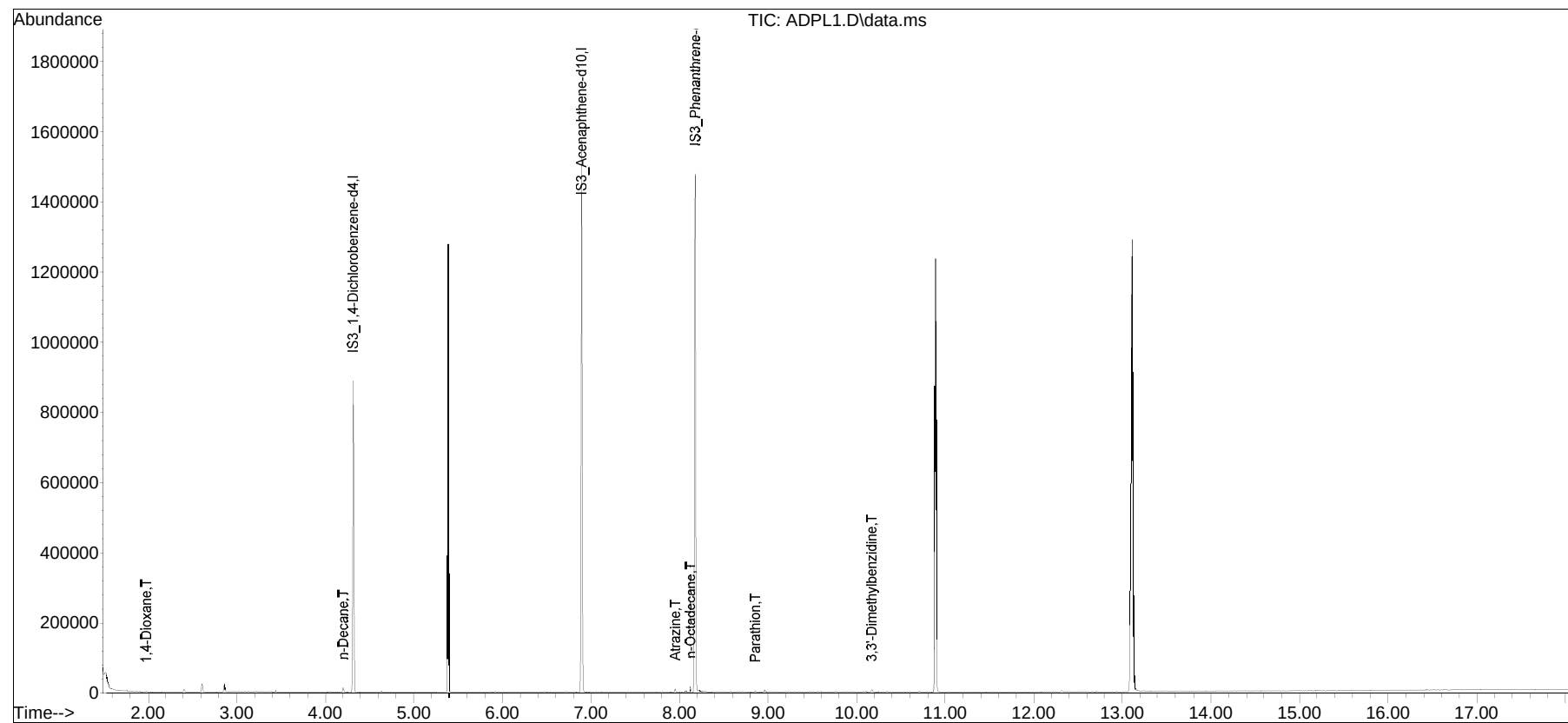
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPL1.D  
 Acq On : 7 Oct 2019 11:31 am  
 Operator : Buffy:ek  
 Sample : IL30,32,,ADPL0.5 Lot#8345  
 Misc : wg1293206,,  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 07 12:49:20 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 11:10:35 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•



# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ADPL1.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 11:31 am Instrument : Buffy  
Sample : IL30,32,,ADPL0.5 Lot#8345 Quant Date : 10/7/2019 12:47 pm

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPICV.D  
 Acq On : 7 Oct 2019 11:54 am  
 Operator : Buffy:ek  
 Sample : CQICV3,32,,ADPICV Lot# 8351  
 Misc : wg1293206,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 07 12:51:11 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 12:51:00 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| 32 I  | IS3_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0  | 70    | 0.00     |
| 33 T  | 1,4-Dioxane                | 0.520 | 0.463 | 11.0 | 66    | 0.00     |
| 34 T  | n-Decane                   | 1.328 | 1.191 | 10.3 | 67    | 0.00     |
| 86 I  | IS3_Acenaphthene-d10       | 1.000 | 1.000 | 0.0  | 69    | 0.00     |
| 87 T  | Atrazine                   | 0.360 | 0.356 | 1.1  | 67    | 0.00     |
| 100 I | IS3_Phenanthrene-d10       | 1.000 | 1.000 | 0.0  | 70    | 0.00     |
| 101 T | n-Octadecane               | 0.434 | 0.418 | 3.7  | 66    | 0.00     |
| 102 T | Parathion                  | 0.126 | 0.111 | 11.9 | 60    | 0.00     |
| 103 T | 3,3'-Dimethylbenzidine     | 0.783 | 0.773 | 1.3  | 67    | 0.00     |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPICV.D  
 Acq On : 7 Oct 2019 11:54 am  
 Operator : Buffy:ek  
 Sample : CQICV3,32,,ADPICV Lot# 8351  
 Misc : wg1293206,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 07 12:51:11 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 12:51:00 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191006ical\ADPL7.D  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.313 | 152  | 109984   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 156205      |       |      | Recovery | =      | 70.41% |          |
| 86) IS3_Acenaphthene-d10      | 6.899 | 164  | 235376   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 342303      |       |      | Recovery | =      | 68.76% |          |
| 100) IS3_Phenanthrene-d10     | 8.180 | 188  | 472855   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 679676      |       |      | Recovery | =      | 69.57% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units | Qvalue |
|-----------------------------|--------|------|----------|--------|-------|--------|
| 33) 1,4-Dioxane             | 1.963  | 88   | 63684    | 44.532 | ug/ml | 92     |
| 34) n-Decane                | 4.202  | 57   | 163733   | 44.825 | ug/ml | 95     |
| 87) Atrazine                | 7.950  | 200  | 104646   | 49.441 | ug/ml | 93     |
| 101) n-Octadecane           | 8.127  | 57   | 246953   | 48.119 | ug/ml | 88     |
| 102) Parathion              | 8.861  | 109  | 65708    | 44.164 | ug/ml | 98     |
| 103) 3,3'-Dimethylbenzidine | 10.177 | 212  | 456783   | 49.328 | ug/ml | 98     |

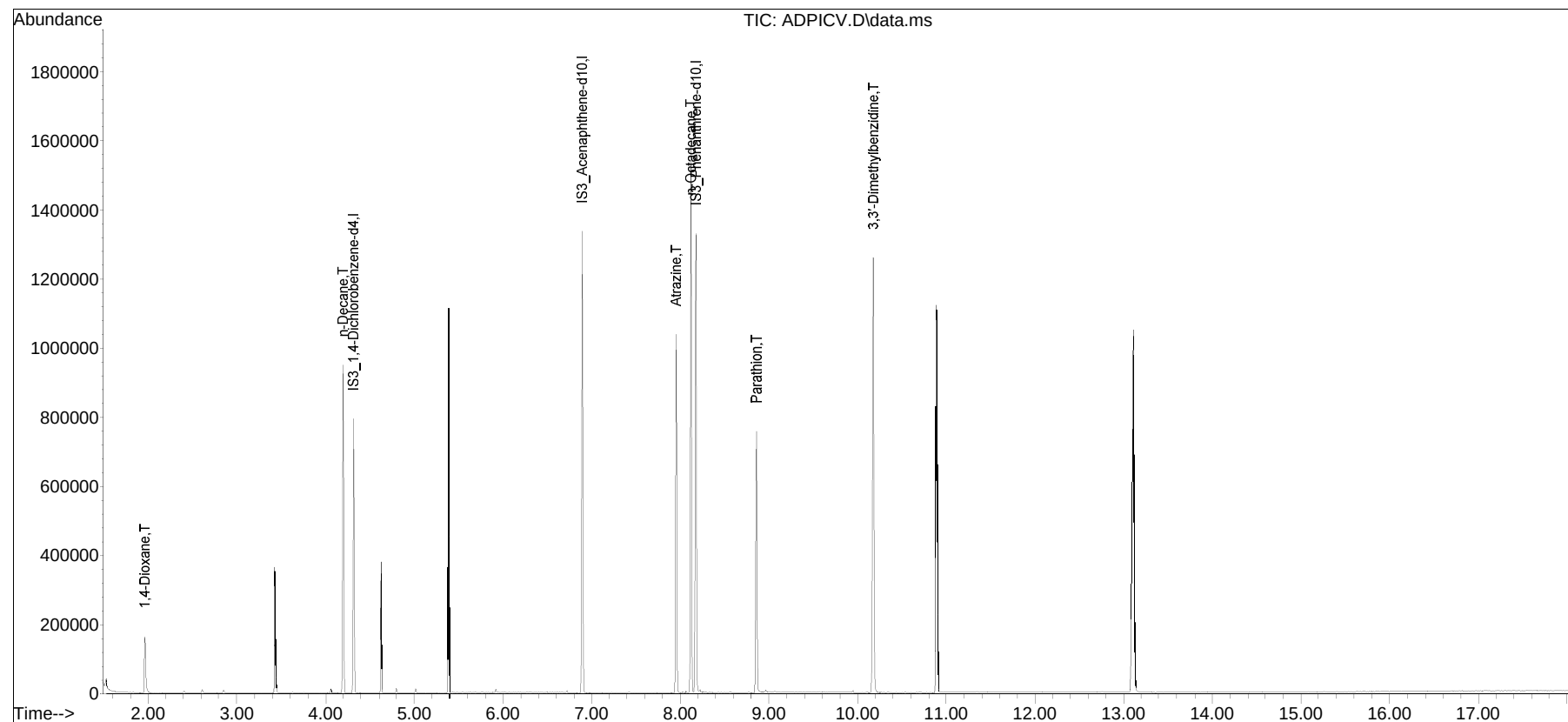
(#) = qualifier out of range (m) = manual integration (+) = signals summed

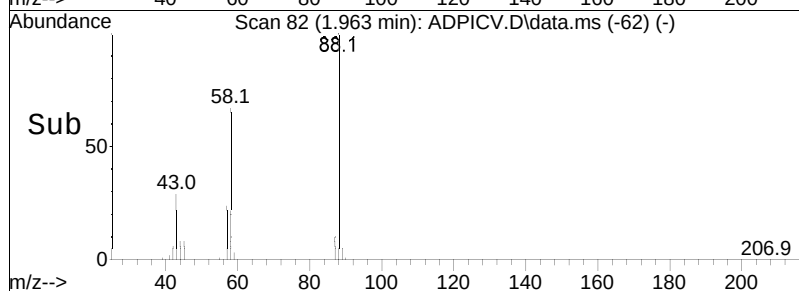
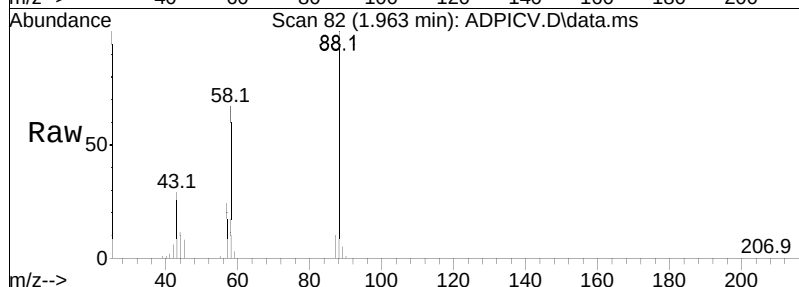
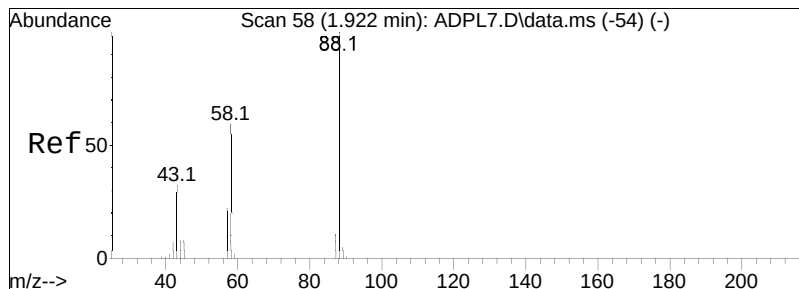
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191006ical\  
 Data File : ADPICV.D  
 Acq On : 7 Oct 2019 11:54 am  
 Operator : Buffy:ek  
 Sample : CQICV3,32,,ADPICV Lot# 8351  
 Misc : wg1293206,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 07 12:51:11 2019  
 Quant Method : I:\8270\Buffy\191006ical\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Oct 07 12:51:00 2019  
 Response via : Initial Calibration

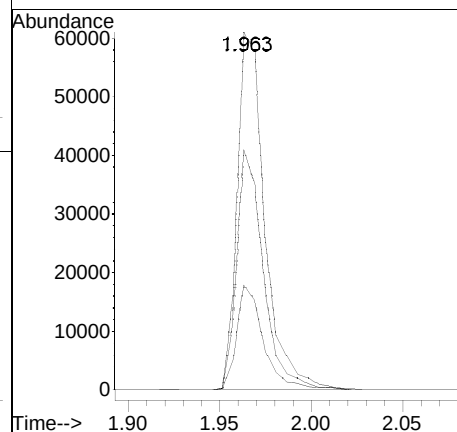
Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.D•

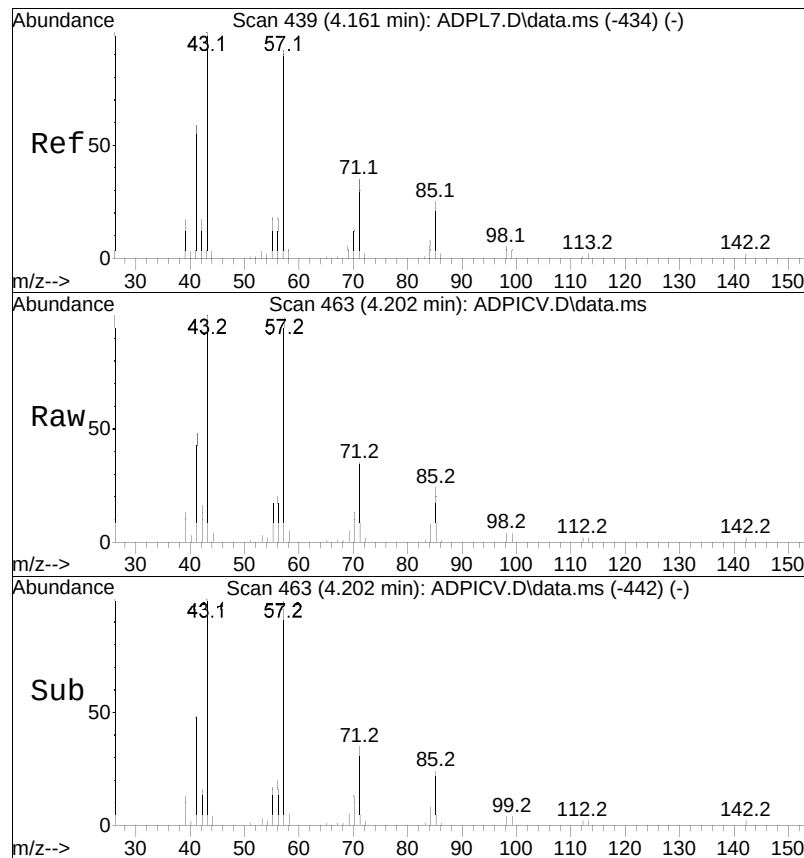




#33  
 1,4-Dioxane  
 Concen: 44.53 ug/ml  
 RT: 1.963 min Scan# 82  
 Delta R.T. -0.006 min  
 Lab File: ADPICV.D  
 Acq: 7 Oct 2019 11:54 am

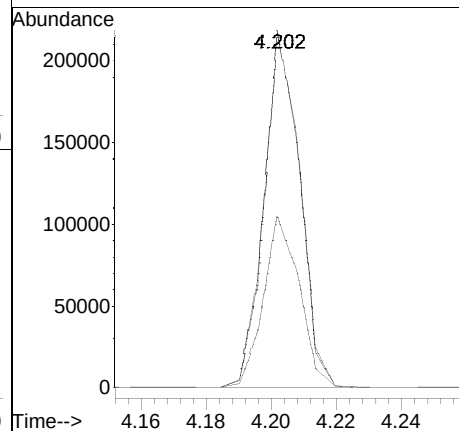
Tgt Ion: 88 Resp: 63684  
 Ion Ratio Lower Upper  
 88 100  
 58 64.5 44.8 67.2  
 43 28.9 22.4 33.6

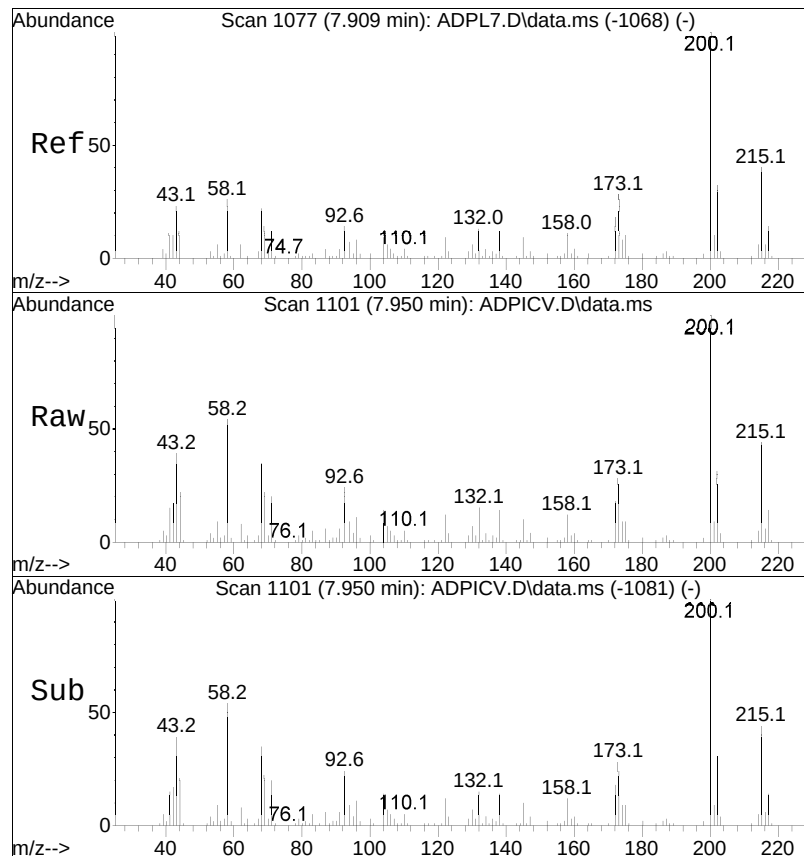




#34  
 n-Decane  
 Concen: 44.82 ug/ml  
 RT: 4.202 min Scan# 463  
 Delta R.T. -0.000 min  
 Lab File: ADPICV.D  
 Acq: 7 Oct 2019 11:54 am

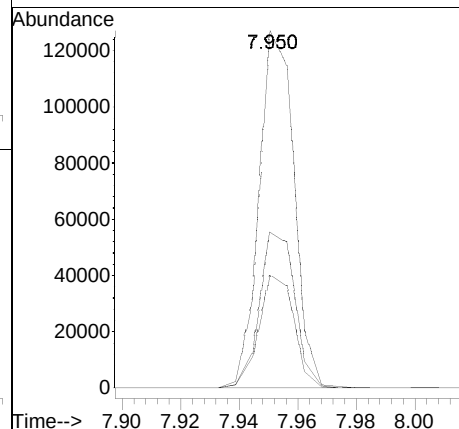
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 57    | Resp: | 163733 |
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 43        | 100.1 | 80.7  | 121.1  |
| 41        | 48.8  | 45.8  | 68.8   |

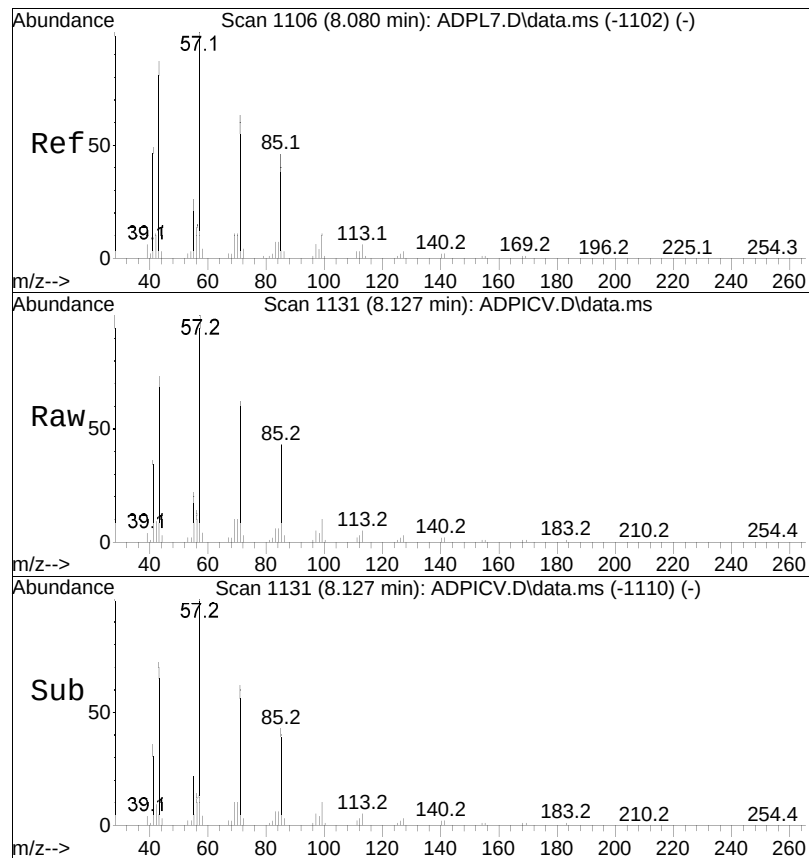




#87  
 Atrazine  
 Concen: 49.44 ug/ml  
 RT: 7.950 min Scan# 1101  
 Delta R.T. -0.006 min  
 Lab File: ADPICV.D  
 Acq: 7 Oct 2019 11:54 am

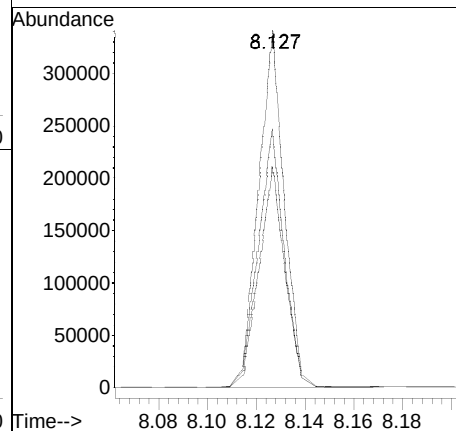
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 202     | 31.9  | 26.4  | 39.6  |
| 215     | 44.3  | 41.4  | 62.2  |

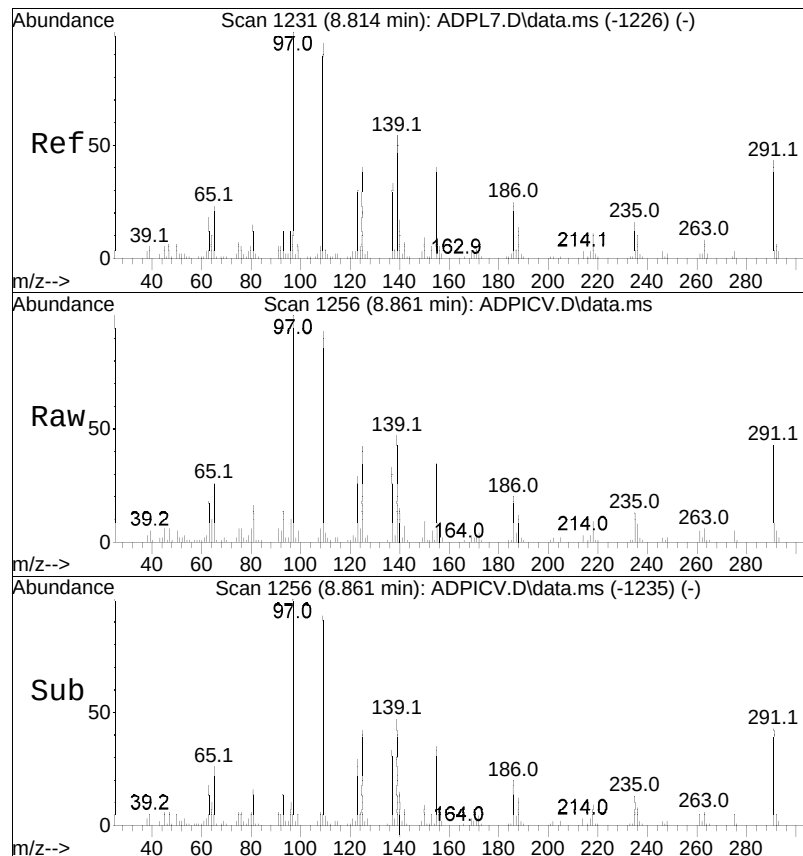




#101  
n-Octadecane  
Concen: 48.12 ug/ml  
RT: 8.127 min Scan# 1131  
Delta R.T. -0.000 min  
Lab File: ADPICV.D  
Acq: 7 Oct 2019 11:54 am

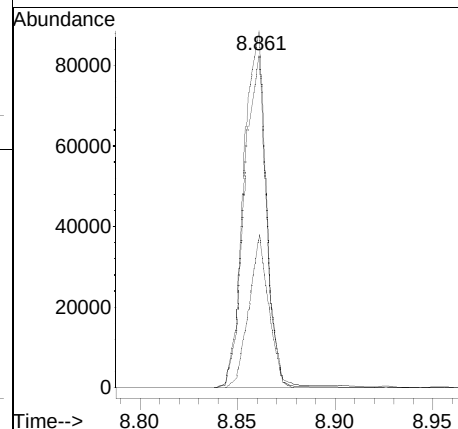
| Tgt | Ion  | Resp   | Lower | Upper |
|-----|------|--------|-------|-------|
| 57  | 100  | 246953 |       |       |
| 43  | 73.0 |        | 63.4  | 95.0  |
| 71  | 62.4 |        | 61.4  | 92.0  |

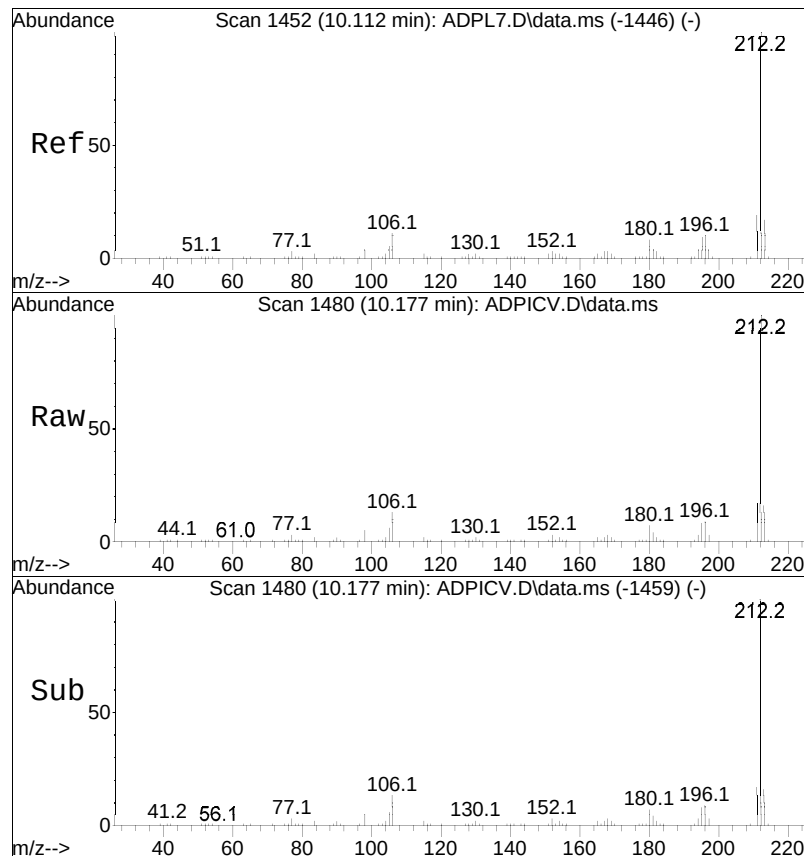




#102  
 Parathion  
 Concen: 44.16 ug/ml  
 RT: 8.861 min Scan# 1256  
 Delta R.T. 0.000 min  
 Lab File: ADPICV.D  
 Acq: 7 Oct 2019 11:54 am

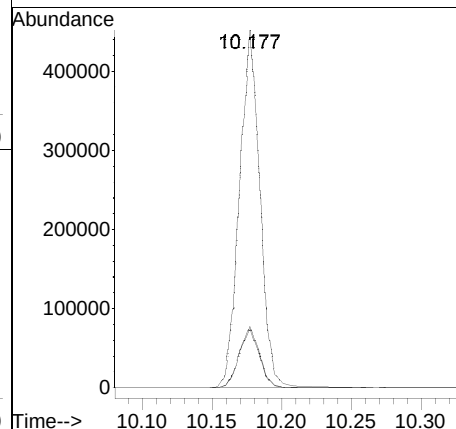
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 109   | Resp: | 65708 |
| Ion Ratio | Lower | Upper |       |
| 109       | 100   |       |       |
| 97        | 108.1 | 88.0  | 132.0 |
| 291       | 40.6  | 31.6  | 47.4  |





#103  
 3,3'-Dimethylbenzidine  
 Concen: 49.33 ug/ml  
 RT: 10.177 min Scan# 1480  
 Delta R.T. 0.000 min  
 Lab File: ADPICV.D  
 Acq: 7 Oct 2019 11:54 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 211     | 17.1  | 14.2  | 21.4  |
| 213     | 16.4  | 14.0  | 21.0  |





# Manual Integration Report

Data Path : I:\8270\Buffy\191006ical\ QMethod : FS191006buffy.m  
Data File : ADPICV.D Operator : Buffy:ek  
Date Inj'd : 10/7/2019 11:54 am Instrument : Buffy  
Sample : CQICV3,32,,ADPICV Lot# 835Quant Date : 10/7/2019 12:51 pm

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

## Response Factor Report SV103

Method Path : I:\8270\SV103\191201ical\  
 Method File : FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Dec 02 16:52:12 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                            | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|-------------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) I IS1_1,4-Dichlorobenzene-d4     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 2) t N-Nitrosodimethylamine         |                | 0.726 | 0.728 | 0.706 | 0.726 | 0.721 | 0.763 | 0.744 | 0.730 | 0.732 | 0.731 | 2.16  |
| 3) t Pyridine                       |                | 1.125 | 1.150 | 1.204 | 1.232 | 1.202 | 1.218 | 1.215 | 1.142 | 1.155 | 1.183 | 3.32  |
| 4) S 2-Fluorophenol                 | 0.519          | 1.107 | 1.098 | 1.143 | 1.155 | 1.131 | 1.163 | 1.149 | 1.136 | 1.146 | 1.075 | 18.25 |
| 5) T Aniline                        |                | 1.787 | 1.902 | 1.820 | 1.871 | 1.860 | 1.901 | 1.886 | 1.862 | 1.899 | 1.865 | 2.10  |
| 6) t 2-Chlorophenol                 | 0.564          | 1.319 | 1.299 | 1.289 | 1.340 | 1.320 | 1.340 | 1.328 | 1.289 | 1.320 | 1.241 | 19.21 |
| 7) S Phenol-d6                      | 0.622          | 1.396 | 1.368 | 1.395 | 1.442 | 1.443 | 1.488 | 1.452 | 1.427 | 1.445 | 1.348 | 19.09 |
| 8) T Phenol                         |                | 1.448 | 1.448 | 1.507 | 1.541 | 1.527 | 1.567 | 1.533 | 1.525 | 1.538 | 1.515 | 2.70  |
| 9) T bis(2-Chloroethyl)ether        | 0.577          | 1.189 | 1.177 | 1.177 | 1.224 | 1.153 | 1.183 | 1.178 | 1.153 | 1.182 | 1.119 | 17.12 |
| 10) T 1,3-Dichlorobenzene           |                | 1.501 | 1.462 | 1.504 | 1.488 | 1.446 | 1.464 | 1.435 | 1.412 | 1.433 | 1.460 | 2.20  |
| 11) T 1,4-Dichlorobenzene           |                | 1.573 | 1.503 | 1.544 | 1.539 | 1.485 | 1.487 | 1.446 | 1.435 | 1.456 | 1.496 | 3.19  |
| 12) T 1,2-Dichlorobenzene           |                | 1.490 | 1.486 | 1.482 | 1.499 | 1.455 | 1.448 | 1.408 | 1.386 | 1.401 | 1.451 | 2.95  |
| 13) t Benzyl alcohol                |                | 0.929 | 0.836 | 0.885 | 0.992 | 0.980 | 1.040 | 1.030 | 1.032 | 1.057 | 0.976 | 7.86  |
| 14) T bis(2-chloroisopropyl)ether   |                | 2.657 | 2.593 | 2.622 | 2.620 | 2.514 | 2.504 | 2.384 | 2.312 | 2.321 | 2.503 | 5.36  |
| 15) T 2-Methylphenol                |                | 1.155 | 1.142 | 1.192 | 1.241 | 1.164 | 1.210 | 1.179 | 1.171 | 1.184 | 1.182 | 2.54  |
| 16) T Hexachloroethane              |                | 0.643 | 0.625 | 0.636 | 0.597 | 0.593 | 0.587 | 0.567 | 0.566 | 0.573 | 0.599 | 4.94  |
| 17) T n-Nitrosodi-n-propylamine     | 0.522          | 0.971 | 0.942 | 0.973 | 0.990 | 0.959 | 0.966 | 0.948 | 0.933 | 0.956 | 0.916 | 15.22 |
| 18) T 3-Methylphenol/4-Methylphenol |                | 1.210 | 1.172 | 1.200 | 1.273 | 1.234 | 1.271 | 1.267 | 1.254 | 1.279 | 1.240 | 3.06  |
| 19) S Nitrobenzene-d5               | 0.581          | 1.293 | 1.225 | 1.308 | 1.317 | 1.301 | 1.325 | 1.337 | 1.327 |       | 1.224 | 19.88 |
| 20) T Nitrobenzene                  |                | 1.306 | 1.254 | 1.354 | 1.335 | 1.286 | 1.370 | 1.347 | 1.338 | 1.366 | 1.328 | 2.92  |
| 21) T Isophorone                    | 1.412          | 2.678 | 2.583 | 2.588 | 2.633 | 2.539 | 2.539 | 2.495 | 2.450 | 2.501 | 2.442 | 15.08 |
| 22) T 2-Nitrophenol                 |                |       |       | 0.668 | 0.705 | 0.688 | 0.724 | 0.718 | 0.717 | 0.737 | 0.708 | 3.28  |
| 23) T 2,4-Dimethylphenol            |                | 1.163 | 1.188 | 1.226 | 1.263 | 1.249 | 1.274 | 1.254 | 1.236 | 1.267 | 1.236 | 3.05  |
| 24) T bis(2-Chloroethoxy)methane    | 0.733          | 1.608 | 1.542 | 1.605 | 1.597 | 1.558 | 1.590 | 1.555 | 1.542 | 1.578 | 1.491 | 17.95 |
| 25) T 2,4-Dichlorophenol            |                | 1.095 | 1.149 | 1.131 | 1.176 | 1.147 | 1.182 | 1.172 | 1.164 | 1.187 | 1.156 | 2.54  |
| 26) T 1,2,4-Trichlorobenzene        |                | 1.313 | 1.273 | 1.290 | 1.280 | 1.237 | 1.259 | 1.221 | 1.224 | 1.250 | 1.261 | 2.47  |
| 27) I IS2_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 28) T Benzaldehyde                  |                | 0.955 | 0.930 | 0.983 | 1.086 | 1.059 | 1.090 | 1.109 | 1.101 | 1.121 | 1.048 | 6.92  |
| 29) T Acetophenone                  |                | 1.628 | 1.608 | 1.690 | 1.797 | 1.862 | 1.930 | 1.900 | 1.900 | 1.949 | 1.807 | 7.35  |
| 30) T m-Toluidine                   |                | 1.719 | 1.762 | 1.848 | 1.949 | 1.950 | 1.975 | 2.007 | 1.960 | 2.028 | 1.911 | 5.71  |
| 31) T 2-Chloroaniline               |                | 1.651 | 1.657 | 1.688 | 1.788 | 1.753 | 1.782 | 1.789 | 1.771 | 1.817 | 1.744 | 3.56  |
| 32) I IS3_1,4-Dichlorobenzene-d4    | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 33) 1,4-Dioxane                     | 0.611          | 0.594 | 0.490 | 0.536 | 0.553 | 0.522 | 0.527 | 0.504 | 0.519 | 0.512 | 0.537 | 7.21  |
| 34) T n-Decane                      | 1.860          | 1.871 | 1.845 | 1.848 | 1.859 | 1.892 | 1.860 | 1.830 | 1.842 | 1.814 | 1.852 | 1.17  |
| 35) I IS1_Naphthalene-d8            | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 36) T Naphthalene                   |                | 1.007 | 0.991 | 1.008 | 1.019 | 0.973 | 0.979 | 0.945 | 0.932 | 0.944 | 0.977 | 3.22  |
| 37) T Benzoic Acid                  |                |       |       | 0.182 | 0.197 | 0.222 | 0.237 | 0.236 | 0.244 | 0.220 | 0.220 | 11.29 |
| 38) T 4-Chloroaniline               |                | 0.107 | 0.117 | 0.114 | 0.120 | 0.118 | 0.118 | 0.122 | 0.119 | 0.122 | 0.117 | 3.88  |
| 39) T Hexachlorobutadiene           | 0.096          | 0.179 | 0.187 | 0.179 | 0.176 | 0.171 | 0.173 | 0.167 | 0.165 | 0.172 | 0.166 | 15.35 |
| 40) T p-Chloro-m-cresol             |                | 0.264 | 0.258 | 0.255 | 0.283 | 0.269 | 0.276 | 0.276 | 0.272 | 0.276 | 0.270 | 3.41  |
| 41) T 2-Methylnaphthalene           |                | 0.682 | 0.680 | 0.673 | 0.708 | 0.676 | 0.679 | 0.672 | 0.659 | 0.670 | 0.678 | 1.94  |
| 42) T 1-Methylnaphthalene           |                | 0.222 | 0.219 | 0.219 | 0.224 | 0.211 | 0.212 | 0.209 | 0.207 | 0.211 | 0.215 | 2.86  |
| 43) T Hexachlorocyclopentadiene     |                |       |       | 0.144 | 0.153 | 0.184 | 0.196 | 0.202 | 0.202 | 0.215 | 0.182 | 15.42 |
| 44) T 2,4,6-Trichlorophenol         |                | 0.199 | 0.195 | 0.194 | 0.207 | 0.200 | 0.204 | 0.206 | 0.206 | 0.209 | 0.202 | 2.68  |
| 45) T 2,4,5-Trichlorophenol         |                | 0.204 | 0.203 | 0.212 | 0.223 | 0.214 | 0.216 | 0.223 | 0.220 | 0.225 | 0.216 | 3.73  |

## Response Factor Report SV103

Method Path : I:\8270\SV103\191201cal\  
 Method File : FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Dec 02 16:52:12 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

| Compound                         | 1.0            | 2.0   | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD   |
|----------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 46) S 2-Fluorobiphenyl           | 0.376          | 0.739 | 0.756 | 0.764 | 0.788 | 0.737 | 0.755 | 0.736 | 0.728 |       | 0.709 | 17.77  |
| 47) T 2-Chloronaphthalene        |                | 0.618 | 0.633 | 0.633 | 0.639 | 0.616 | 0.624 | 0.617 | 0.611 | 0.623 | 0.624 | 1.50   |
| 48) T 2-Nitroaniline             |                |       |       | 0.187 | 0.208 | 0.202 | 0.216 | 0.220 | 0.221 | 0.220 | 0.211 | 6.07   |
| 49) T 1,4-Dinitrobenzene         |                |       |       |       | 0.093 | 0.095 | 0.098 | 0.103 | 0.102 | 0.105 | 0.099 | 4.67   |
| 50) T 1,3-Dinitrobenzene         |                |       |       |       | 0.105 | 0.102 | 0.114 | 0.116 | 0.115 | 0.115 | 0.111 | 5.22   |
| 51) T Dimethyl phthalate         |                | 0.793 | 0.778 | 0.789 | 0.830 | 0.756 | 0.753 | 0.750 | 0.730 | 0.734 | 0.768 | 4.20   |
| 52) T Acenaphthylene             |                | 1.062 | 1.058 | 1.069 | 1.111 | 1.043 | 1.033 | 1.035 | 1.017 | 1.018 | 1.050 | 2.82   |
| 53) T 2,6-Dinitrotoluene         |                | 0.149 | 0.152 | 0.170 | 0.177 | 0.171 | 0.170 | 0.171 | 0.168 | 0.169 | 0.166 | 5.54   |
| 54) T 1,2-Dinitrobenzene         |                |       |       | 0.072 | 0.075 | 0.072 | 0.072 | 0.074 | 0.072 | 0.072 | 0.073 | 1.95   |
| 55) I IS2_Naphthalene-d8         | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 56) T a-Terpineol                |                | 0.360 | 0.363 | 0.349 | 0.367 | 0.363 | 0.367 | 0.364 | 0.360 | 0.370 | 0.363 | 1.74   |
| 57) T 3-Chloroaniline            |                | 0.126 | 0.123 | 0.130 | 0.146 | 0.122 | 0.141 | 0.144 | 0.144 | 0.149 | 0.136 | 7.83   |
| 58) T 2,6-Dichlorophenol         |                | 0.283 | 0.291 | 0.285 | 0.287 | 0.297 | 0.304 | 0.307 | 0.304 | 0.317 | 0.297 | 3.81   |
| 59) T 1-chloro-2-nitrobenzene    |                |       | 0.135 | 0.134 | 0.145 | 0.142 | 0.142 | 0.143 | 0.142 | 0.148 | 0.141 | 3.33   |
| 60) T Caprolactam                |                |       | 0.209 | 0.210 | 0.209 | 0.214 | 0.219 | 0.218 | 0.216 | 0.226 | 0.215 | 2.84   |
| 61) T 1,2,4,5-Tetrachlorobenzene |                | 0.323 | 0.339 | 0.329 | 0.334 | 0.321 | 0.329 | 0.327 | 0.323 | 0.335 | 0.329 | 1.88   |
| 62) T Biphenyl                   |                | 0.804 | 0.836 | 0.839 | 0.863 | 0.856 | 0.871 | 0.865 | 0.848 | 0.876 | 0.851 | 2.62   |
| 63) I IS1_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 64) T 3-Nitroaniline             |                |       |       | 0.290 | 0.309 | 0.306 | 0.312 | 0.321 | 0.316 | 0.324 | 0.311 | 3.64   |
| 65) T Acenaphthene               |                | 1.142 | 1.113 | 1.092 | 1.116 | 1.091 | 1.074 | 1.053 | 1.028 | 1.044 | 1.084 | 3.44   |
| 66) T 2,4-Dinitrophenol          |                |       |       | 0.083 | 0.124 | 0.144 | 0.170 | 0.185 | 0.185 | 0.190 | *L    | 0.9992 |
| 67) T Dibenzofuran               |                | 1.579 | 1.627 | 1.616 | 1.698 | 1.617 | 1.605 | 1.587 | 1.532 | 1.548 | 1.601 | 3.03   |
| 68) T 2,4-Dinitrotoluene         |                | 0.363 | 0.353 | 0.366 | 0.402 | 0.385 | 0.394 | 0.402 | 0.396 | 0.397 | 0.384 | 4.86   |
| 69) T 4-Nitrophenol              |                |       |       | 0.186 | 0.212 | 0.252 | 0.229 | 0.240 | 0.242 | 0.249 | 0.230 | 10.22  |
| 70) T 2,3,5,6-Tetrachlorophenol  |                |       | 0.277 | 0.283 | 0.305 | 0.306 | 0.313 | 0.323 | 0.319 | 0.331 | 0.307 | 6.18   |
| 71) T 2,3,4,6-Tetrachlorophenol  |                |       | 0.309 | 0.305 | 0.334 | 0.319 | 0.321 | 0.324 | 0.317 | 0.324 | 0.319 | 2.80   |
| 72) T Diethyl phthalate          |                | 1.392 | 1.377 | 1.406 | 1.464 | 1.376 | 1.372 | 1.336 | 1.311 | 1.315 | 1.372 | 3.49   |
| 73) T Fluorene                   |                | 1.324 | 1.294 | 1.328 | 1.383 | 1.324 | 1.312 | 1.297 | 1.273 | 1.287 | 1.313 | 2.46   |
| 74) T 4-Chlorophenyl-phenylether |                | 0.635 | 0.612 | 0.629 | 0.634 | 0.624 | 0.613 | 0.607 | 0.591 | 0.605 | 0.617 | 2.42   |
| 75) T 4-Nitroaniline             |                |       | 0.274 | 0.293 | 0.299 | 0.305 | 0.317 | 0.313 | 0.317 | 0.302 |       | 5.16   |
| 76) T 4,6-Dinitro-o-cresol       |                |       |       | 0.178 | 0.222 | 0.219 | 0.243 | 0.250 | 0.251 | 0.250 | 0.230 | 11.60  |
| 77) T NDPA/DPA                   | 0.494          | 1.076 | 1.101 | 1.107 | 1.177 | 1.124 | 1.126 | 1.122 | 1.095 | 1.094 | 1.051 | 18.80  |
| 78) T Azobenzene                 |                | 1.196 | 1.182 | 1.238 | 1.295 | 1.259 | 1.272 | 1.255 | 1.227 | 1.256 | 1.242 | 2.90   |
| 79) S 2,4,6-Tribromophenol       |                | 0.174 | 0.177 | 0.183 | 0.177 | 0.180 | 0.184 | 0.188 | 0.187 | 0.192 | 0.182 | 3.30   |
| 80) T 4-Bromophenyl-phenylether  |                |       | 0.342 | 0.336 | 0.347 | 0.349 | 0.343 | 0.345 | 0.343 | 0.333 | 0.344 | 1.42   |
| 81) T Hexachlorobenzene          | 0.212          | 0.420 | 0.409 | 0.404 | 0.420 | 0.390 | 0.390 | 0.390 | 0.390 | 0.401 | 0.383 | 16.00  |
| 82) T Pentachlorophenol          |                |       | 0.129 | 0.141 | 0.173 | 0.192 | 0.209 | 0.213 | 0.187 | 0.183 | 0.178 | 16.83  |
| 83) I IS2_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 84) T Dichloran                  |                |       |       | 0.142 | 0.175 | 0.180 | 0.186 | 0.196 | 0.202 | 0.208 | 0.184 | 11.96  |
| 85) T Pentachloronitrobenzene    |                |       | 0.158 | 0.155 | 0.165 | 0.169 | 0.173 | 0.172 | 0.174 | 0.180 | 0.168 | 4.95   |
| 86) I IS3_Acenaphthene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 87) T Atrazine                   |                |       | 0.342 | 0.348 | 0.350 | 0.376 | 0.380 | 0.386 | 0.390 | 0.394 | 0.371 | 5.59   |
| 88) I IS1_Phenanthrene-d10       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |        |
| 89) T Phenanthrene               |                | 1.072 | 1.081 | 1.076 | 1.058 | 1.027 | 1.036 | 1.005 | 0.992 | 0.981 | 1.036 | 3.66   |
| 90) T Anthracene                 |                | 1.047 | 1.020 | 1.052 | 1.054 | 1.052 | 1.076 | 1.035 | 1.042 | 1.031 | 1.045 | 1.54   |

## Response Factor Report SV103

Method Path : I:\8270\SV103\191201cal\  
 Method File : FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Dec 02 16:52:12 2019  
 Response Via : Initial Calibration

## Calibration Files

1.0 =AP9L1.d 2.0 =AP9L2.d 3.0 =AP9L3.d 5.0 =AP9L4.d 10 =AP9L5.d 20 =AP9L6.d 50 =AP9L7.d  
 100 =AP9L8.d 150 =AP9L9.d 200 =AP9L10.d

|        | Compound                   | 1.0   | 2.0            | 3.0   | 5.0   | 10    | 20    | 50    | 100   | 150   | 200   | Avg   | %RSD  |
|--------|----------------------------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 91) T  | Carbazole                  |       | 0.907          | 0.913 | 0.934 | 0.973 | 0.963 | 0.976 | 0.953 | 0.946 | 0.935 | 0.944 | 2.59  |
| 92) T  | Di-n-butylphthalate        |       |                | 1.200 | 1.222 | 1.243 | 1.227 | 1.264 | 1.202 | 1.187 | 1.163 | 1.214 | 2.64  |
| 93) T  | Fluoranthene               |       | 1.128          | 1.151 | 1.150 | 1.188 | 1.156 | 1.156 | 1.131 | 1.114 | 1.085 | 1.140 | 2.61  |
| 94) T  | Benzidine                  |       | 0.679          | 0.658 | 0.723 | 0.763 | 0.763 | 0.809 | 0.794 | 0.805 | 0.789 | 0.754 | 7.35  |
| 95) T  | Pyrene                     |       | 1.224          | 1.228 | 1.230 | 1.244 | 1.200 | 1.204 | 1.178 | 1.152 | 1.130 | 1.199 | 3.23  |
| 96) S  | 4-Terphenyl-d14            | 0.366 | 0.730          | 0.730 | 0.738 | 0.757 | 0.721 | 0.746 | 0.718 | 0.724 |       | 0.692 | 17.76 |
| 97) T  | Butyl benzyl phthalate     |       |                |       | 0.522 | 0.545 | 0.533 | 0.563 | 0.545 | 0.538 | 0.524 | 0.538 | 2.62  |
| 98) I  | IS2_Phenanthrene-d10       |       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 99) T  | Diphenamid                 |       | 0.519          | 0.516 | 0.541 | 0.535 | 0.541 | 0.544 | 0.545 | 0.551 | 0.537 |       | 2.32  |
| 100) I | IS3_Phenanthrene-d10       |       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 101) T | n-Octadecane               |       | 0.543          | 0.550 | 0.568 | 0.606 | 0.596 | 0.601 | 0.576 | 0.590 | 0.579 |       | 4.06  |
| 102) T | Parathion                  |       |                | 0.102 | 0.113 | 0.128 | 0.139 | 0.151 | 0.156 | 0.161 | 0.136 |       | 16.30 |
| 103) T | 3,3'-Dimethylbenzidine     |       | 0.558          | 0.591 | 0.603 | 0.681 | 0.709 | 0.738 | 0.776 | 0.804 | 0.833 | 0.699 | 14.08 |
| 104) I | IS1_Chrysene-d12           |       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 105) T | Benzo[a]anthracene         | 0.758 | 1.279          | 1.267 | 1.250 | 1.256 | 1.192 | 1.216 | 1.204 | 1.156 | 1.157 | 1.174 | 12.98 |
| 106) T | 3,3'-Dichlorobenzidine     | 0.225 | 0.426          | 0.460 | 0.461 | 0.487 | 0.470 | 0.491 | 0.489 | 0.474 | 0.477 | 0.446 | 17.95 |
| 107) T | Chrysene                   |       | 1.227          | 1.260 | 1.242 | 1.262 | 1.188 | 1.203 | 1.175 | 1.143 | 1.133 | 1.204 | 3.98  |
| 108) T | bis(2-Ethylhexyl)phthalate |       | 0.835          | 0.864 | 0.882 | 0.930 | 0.912 | 1.003 | 0.921 | 0.887 | 0.874 | 0.901 | 5.38  |
| 109) T | Di-n-octylphthalate        |       |                |       | 1.475 | 1.575 | 1.537 | 1.711 | 1.593 | 1.547 | 1.523 | 1.566 | 4.74  |
| 110) T | Benzo(b)fluoranthene       | 0.629 | 1.120          | 1.071 | 1.123 | 1.183 | 1.132 | 1.143 | 1.142 | 1.088 | 1.094 | 1.072 | 14.84 |
| 111) T | Benzo(k)fluoranthene       | 0.610 | 1.162          | 1.171 | 1.195 | 1.181 | 1.175 | 1.217 | 1.158 | 1.150 | 1.142 | 1.116 | 16.05 |
| 112) T | Benzo(a)pyrene             | 0.557 | 1.073          | 1.086 | 1.051 | 1.063 | 1.061 | 1.074 | 1.057 | 1.039 | 1.038 | 1.010 | 15.82 |
| 113) I | IS1_Perylene-d12           |       | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 114) T | Indeno(1,2,3-cd)pyrene     |       | 0.941          | 0.937 | 0.937 | 0.987 | 0.930 | 0.971 | 0.970 | 0.964 | 0.987 | 0.958 | 2.35  |
| 115) T | Dibenzo[a,h]anthracene     | 0.509 | 0.930          | 0.926 | 0.916 | 0.982 | 0.967 | 0.982 | 0.992 | 1.010 | 1.019 | 0.923 | 16.23 |
| 116) T | Benzo(g,h,i)perylene       |       | 1.014          | 1.046 | 1.034 | 1.076 | 1.037 | 1.059 | 1.047 | 1.046 | 1.056 | 1.046 | 1.68  |

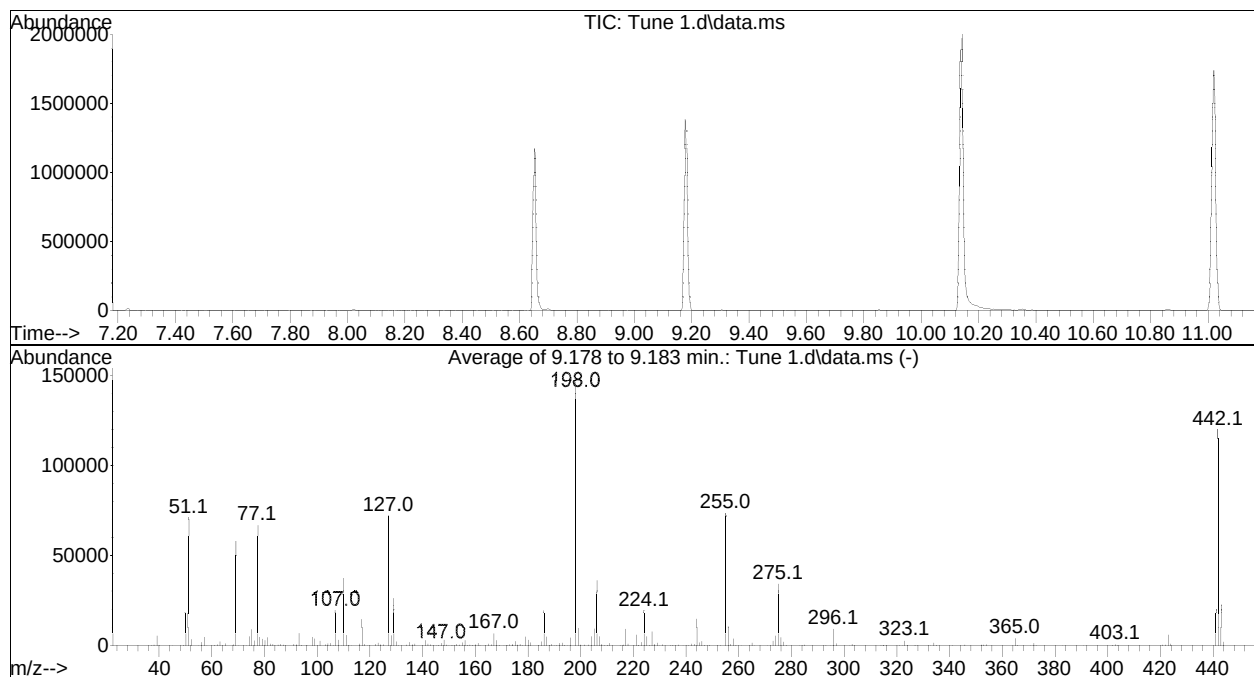
(#) = Out of Range

## DFTPP

Data Path : I:\8270\SV103\191201ical\  
 Data File : Tune 1.d  
 Acq On : 1 Dec 2019 11:07 am  
 Operator : SV103:als  
 Sample : Tune1  
 Misc : WG1316163,,  
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Dec 02 16:52:12 2019

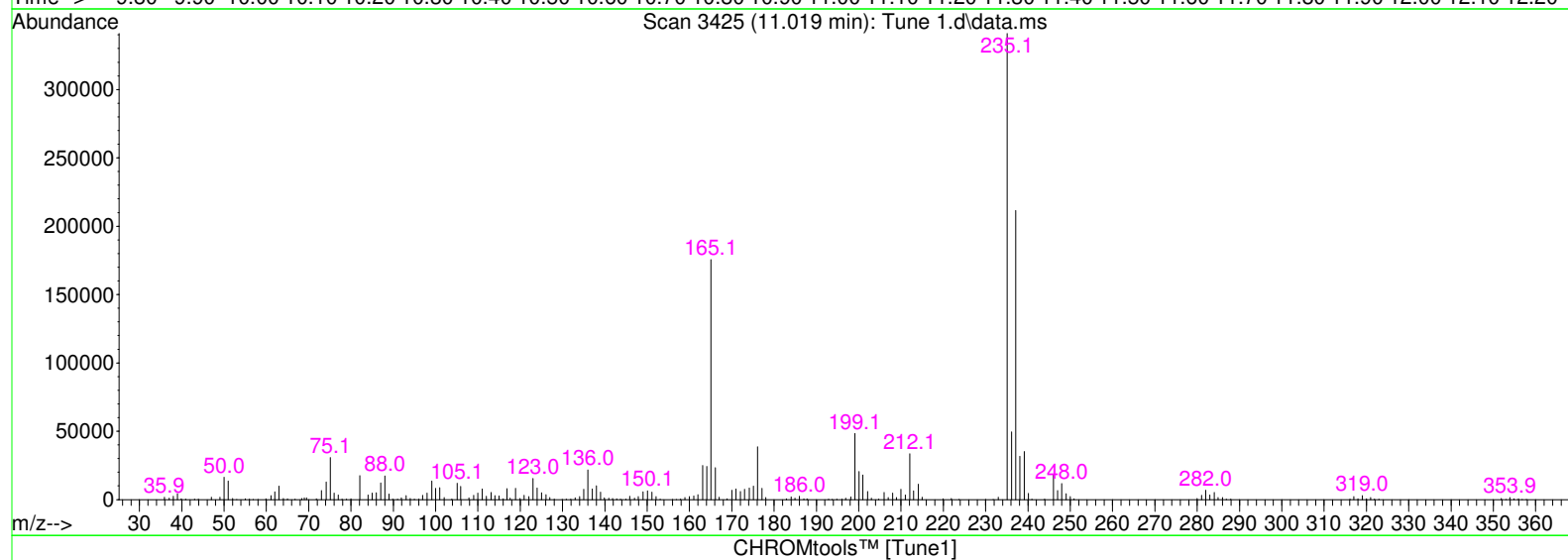
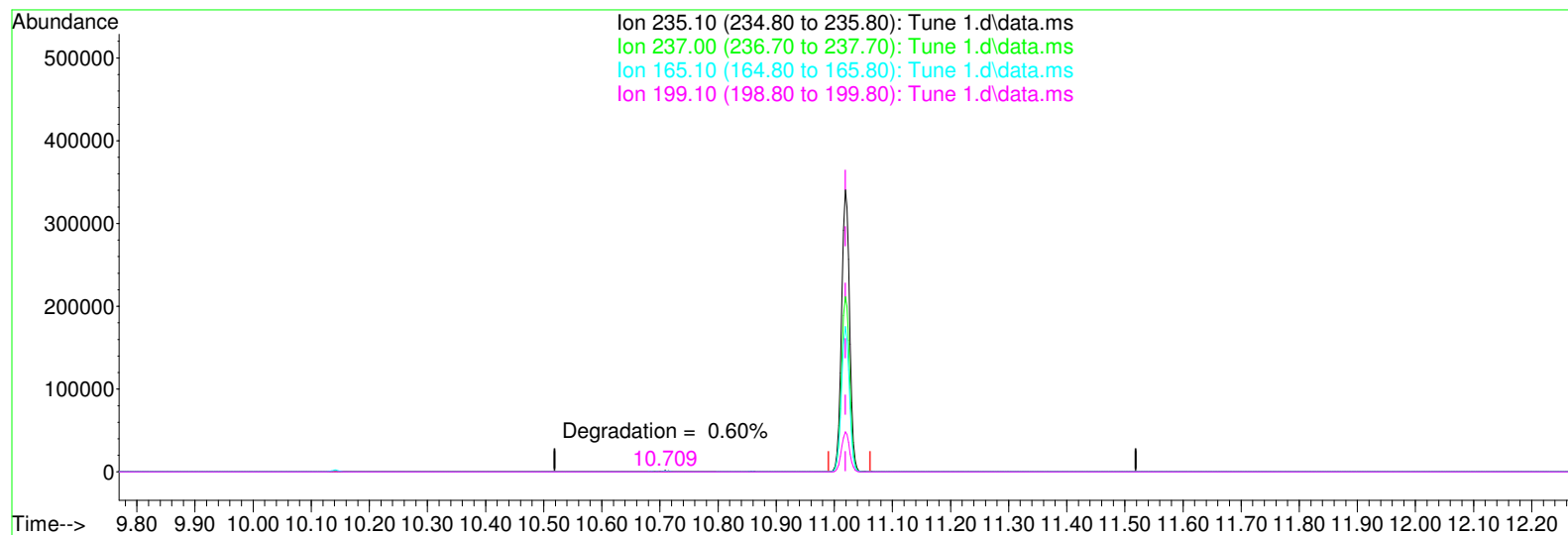


Spectrum Information: Average of 9.178 to 9.183 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 48.3      | 70749   | PASS             |
| 68          | 69           | 0.00         | 2            | 1.6       | 919     | PASS             |
| 70          | 69           | 0.00         | 2            | 0.5       | 305     | PASS             |
| 127         | 198          | 10           | 80           | 49.1      | 71944   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 146475  | PASS             |
| 199         | 198          | 5            | 9            | 6.5       | 9575    | PASS             |
| 275         | 198          | 10           | 60           | 23.1      | 33891   | PASS             |
| 365         | 198          | 1            | 100          | 2.8       | 4048    | PASS             |
| 441         | 442          | 0.01         | 24           | 16.7      | 19973   | PASS             |
| 442         | 198          | 50           | 100          | 81.8      | 119776  | PASS             |
| 443         | 442          | 15           | 24           | 18.9      | 22600   | PASS             |

Data Path : I:\8270\SV103\191201ical\  
Data File : Tune 1.d  
Acq On : 1 Dec 2019 11:07 am  
Operator : SV103:  
Sample : Tune1  
Misc : SV103 191028  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 02 13:36:44 2019  
Quant Method : I:\8270\SV103\191201ical\dftppsSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(6) ddt (T)

11.019min (-0.000) 0.00

response 328149

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |

|        |       |       |
|--------|-------|-------|
| 237.00 | 64.20 | 62.97 |
|--------|-------|-------|

|        |       |       |
|--------|-------|-------|
| 165.10 | 50.50 | 51.65 |
|--------|-------|-------|

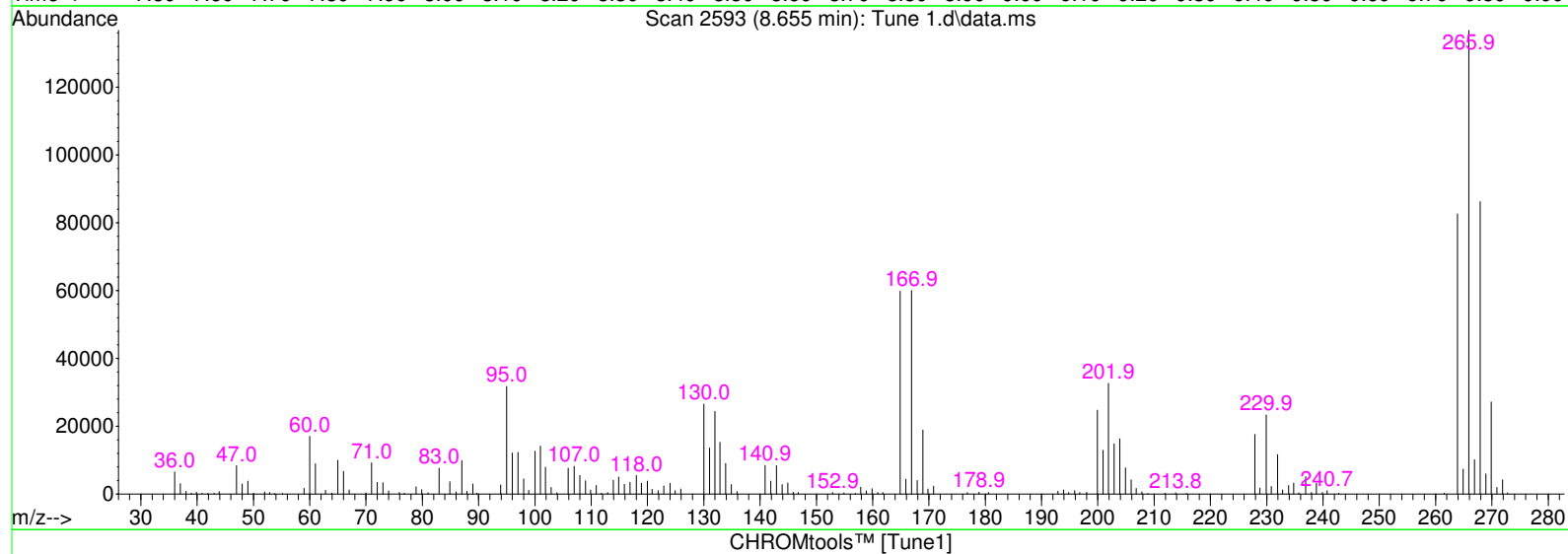
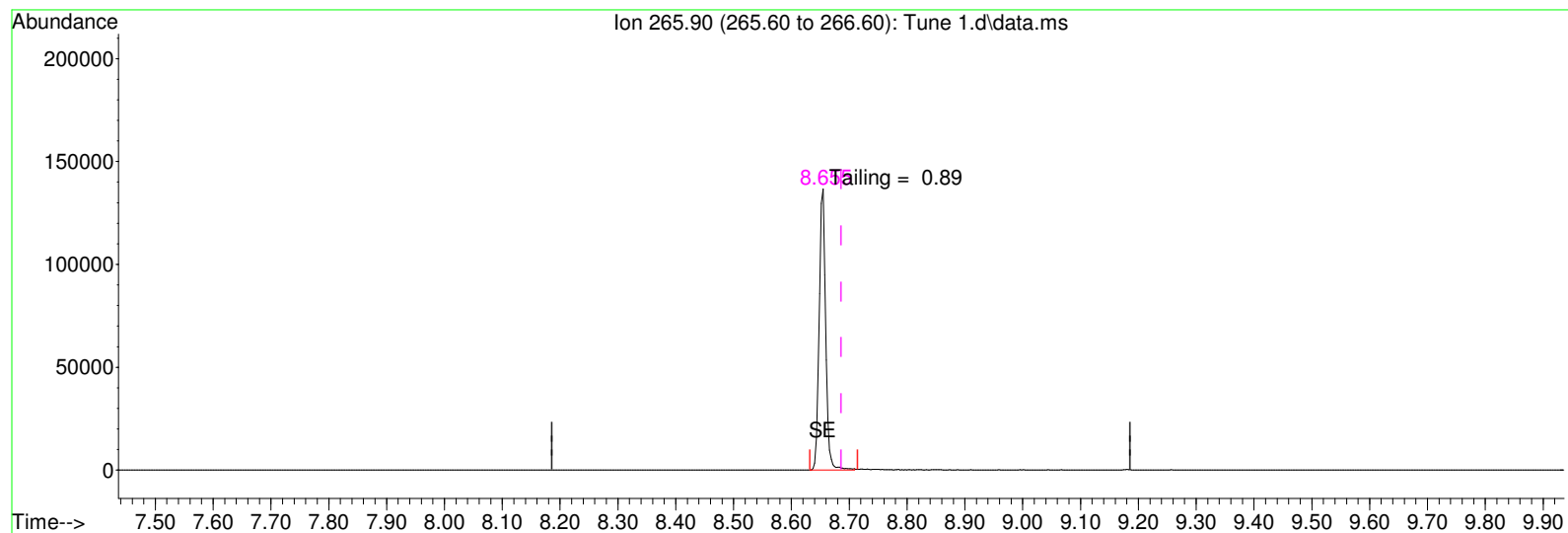
Duplicate Retention Times

(4) DDE 246.00

(5) DDD 235.00

Data Path : I:\8270\SV103\191201ical\  
Data File : Tune 1.d  
Acq On : 1 Dec 2019 11:07 am  
Operator : SV103:  
Sample : Tune1  
Misc : SV103 191028  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 02 13:36:44 2019  
Quant Method : I:\8270\SV103\191201ical\dftppSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(1) pentachlorophenol (T)

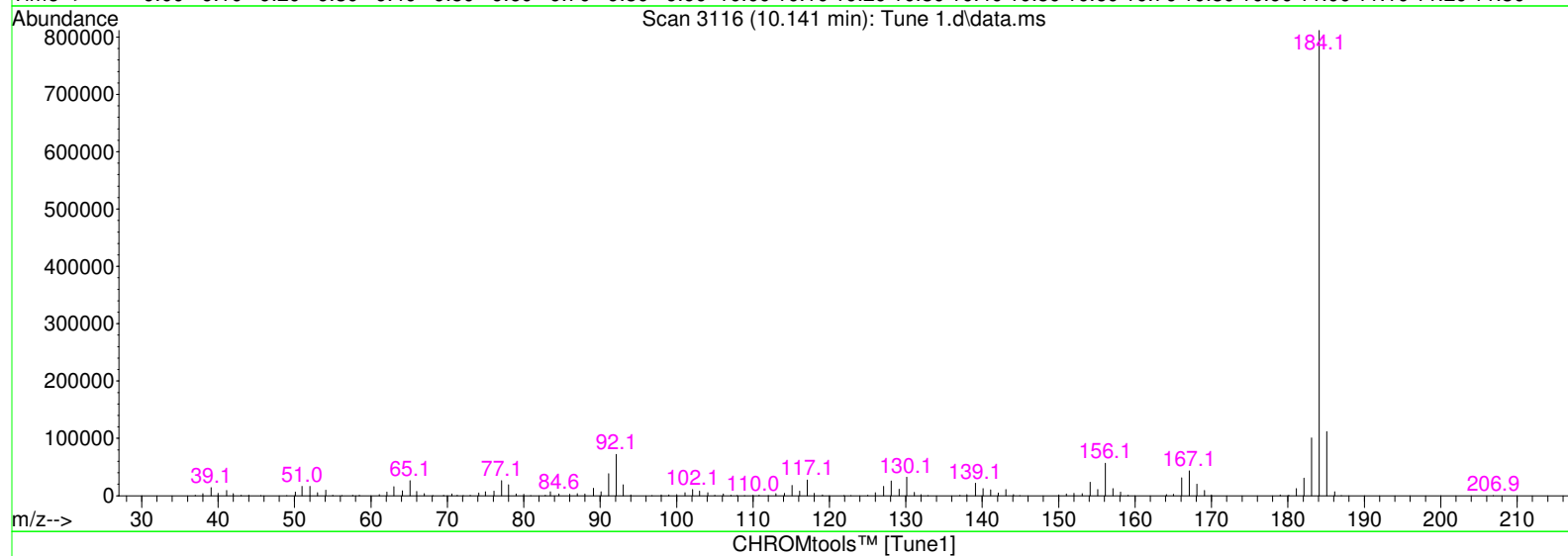
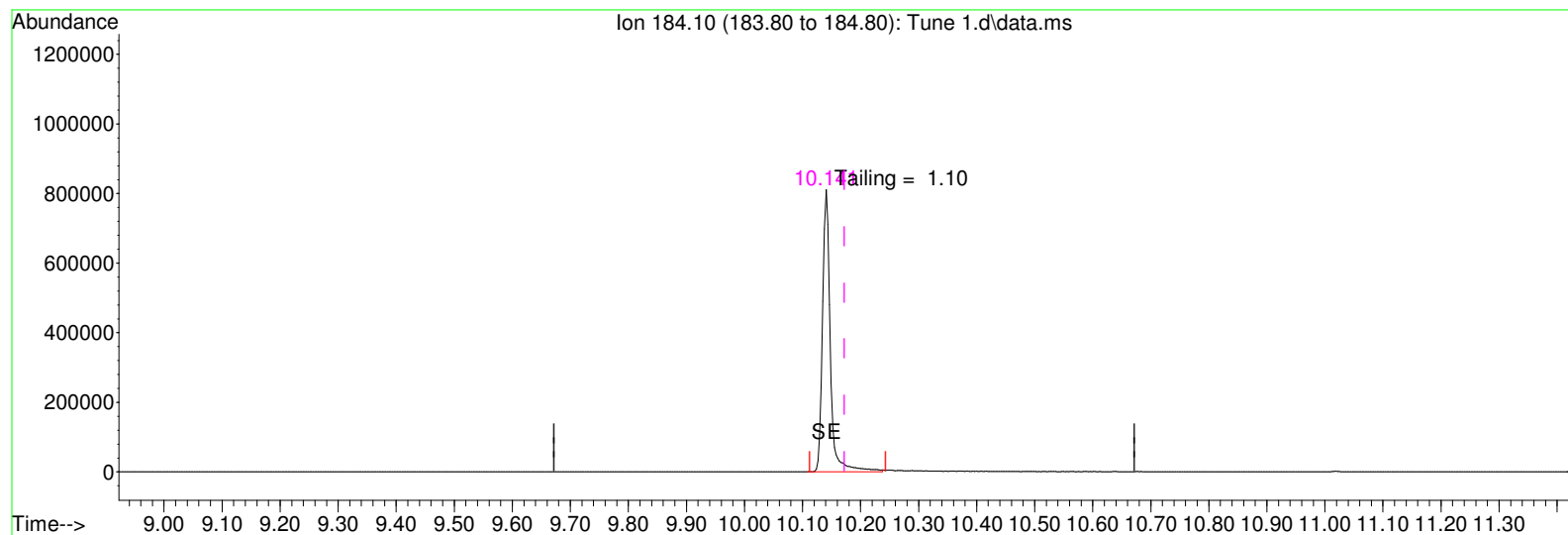
8.655min (-0.031) 0.00

response 106690

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

Data Path : I:\8270\SV103\191201ical\  
Data File : Tune 1.d  
Acq On : 1 Dec 2019 11:07 am  
Operator : SV103:  
Sample : Tune1  
Misc : SV103 191028  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 02 13:36:44 2019  
Quant Method : I:\8270\SV103\191201ical\dftppSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(3) benzidine (T)

10.141min (-0.031) 0.00

response 763651

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL10.d  
 Acq On : 1 Dec 2019 11:31 am  
 Operator : SV103:als  
 Sample : IL1,32,,ABNL200 Lot#8517  
 Misc : WG1316163,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 14:35:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.447          | 152  | 161068              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = 105.59%  |         |        |          |
| 35) IS1_Naphthalene-d8        | 5.691          | 136  | 665551              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 106.81%  |         |        |          |
| 63) IS1_Acenaphthene-d10      | 7.390          | 164  | 384584              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 108.24%  |         |        |          |
| 88) IS1_Phenanthrene-d10      | 8.814          | 188  | 729325              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 109.35%  |         |        |          |
| 104) IS1_Chrysene-d12         | 11.553         | 240  | 646587              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 111.34%  |         |        |          |
| 113) IS1_Perylene-d12         | 13.570         | 264  | 676108              | 40.000  | ug/ml  | 0.01     |
| Standard Area 1 = 628663      |                |      | Recovery = 107.55%  |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 4) 2-Fluorophenol             | 3.162          | 112  | 922793              | 197.069 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 394.14%# |         |        |          |
| 7) Phenol-d6                  | 4.157          | 99   | 1163639             | 194.258 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 388.52%# |         |        |          |
| 19) Nitrobenzene-d5           | 5.001          | 82   | 1092262             | 204.724 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 818.90%# |         |        |          |
| 46) 2-Fluorobiphenyl          | 6.765          | 172  | 2442684             | 194.431 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 777.72%# |         |        |          |
| 79) 2,4,6-Tribromophenol      | 8.157          | 330  | 370019              | 209.642 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 419.28%# |         |        |          |
| 96) 4-Terphenyl-d14           | 10.388         | 244  | 2619828             | 192.686 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 770.74%# |         |        |          |
| Target Compounds              |                |      |                     |         |        |          |
|                               |                |      |                     |         |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.736          | 74   | 589908              | 191.896 | ug/ml  | 94       |
| 3) Pyridine                   | 1.761          | 79   | 930158              | 189.706 | ug/ml  | 97       |
| 5) Aniline                    | 4.131          | 93   | 1529037             | 199.787 | ug/ml  | 92       |
| 6) 2-Chlorophenol             | 4.245          | 128  | 1063195             | 197.105 | ug/ml  | 95       |
| 8) Phenol                     | 4.171          | 94   | 1238368             | 196.298 | ug/ml# | 90       |
| 9) Bis(2-chloroethyl)ether    | 4.219          | 93   | 952198              | 199.868 | ug/ml  | 97       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 1153812             | 195.699 | ug/ml  | 96       |
| 11) 1,4-Dichlorobenzene       | 4.464          | 146  | 1172226             | 195.783 | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 1128259             | 193.457 | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.617          | 79   | 851382              | 203.285 | ug/ml  | 94       |
| 14) Bis(2-chloroisopropyl)... | 4.751          | 45   | 1869196             | 185.417 | ug/ml  | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL10.d  
 Acq On : 1 Dec 2019 11:31 am  
 Operator : SV103:als  
 Sample : IL1,32,,ABNL200 Lot#8517  
 Misc : WG1316163,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 14:35:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|---------|--------|----------|
| 15) | 2-Methylphenol            | 4.753 | 108  | 953384   | 195.598 | ug/ml  | 97       |
| 16) | Hexachloroethane          | 4.935 | 117  | 461128   | 195.033 | ug/ml  | 84       |
| 17) | n-Nitrosodi-n-propylamine | 4.887 | 70   | 770258   | 198.122 | ug/ml  | 97       |
| 18) | 3-Methylphenol/4-Methy... | 4.918 | 108  | 1029754  | 201.131 | ug/ml  | 96       |
| 20) | Nitrobenzene              | 5.020 | 77   | 1099986  | 199.439 | ug/ml  | 95       |
| 21) | Isophorone                | 5.268 | 82   | 2014076  | 197.007 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.333 | 139  | 593350   | 203.570 | ug/ml# | 89       |
| 23) | 2,4-Dimethylphenol        | 5.427 | 107  | 1020699  | 198.943 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.504 | 93   | 1271041  | 198.468 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.583 | 162  | 956050   | 200.883 | ug/ml  | 95       |
| 26) | 1,2,4-Trichlorobenzene    | 5.648 | 180  | 1006952  | 198.595 | ug/ml  | 97       |
| 36) | Naphthalene               | 5.711 | 128  | 3141304  | 192.939 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.609 | 105  | 812758   | 219.572 | ug/ml  | 95       |
| 38) | 4-Chloroaniline           | 5.791 | 65   | 406132   | 206.470 | ug/ml  | 82       |
| 39) | Hexachlorobutadiene       | 5.856 | 225  | 570821   | 198.744 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 6.299 | 107  | 918041   | 200.063 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.390 | 142  | 2230593  | 197.334 | ug/ml  | 97       |
| 42) | 1-Methylnaphthalene       | 6.481 | 115  | 702203   | 199.219 | ug/ml  | 80       |
| 43) | Hexachlorocyclopentadiene | 6.555 | 237  | 714812   | 232.922 | ug/ml  | 96       |
| 44) | 2,4,6-Trichlorophenol     | 6.683 | 196  | 695582   | 204.949 | ug/ml  | 96       |
| 45) | 2,4,5-Trichlorophenol     | 6.717 | 196  | 749906   | 208.724 | ug/ml  | 98       |
| 47) | 2-Chloronaphthalene       | 6.856 | 162  | 2072831  | 199.612 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.978 | 138  | 733337   | 203.717 | ug/ml  | 89       |
| 49) | 1,4-Dinitrobenzene        | 7.120 | 168  | 349553   | 214.820 | ug/ml# | 75       |
| 50) | 1,3-Dinitrobenzene        | 7.197 | 168  | 383036   | 202.258 | ug/ml# | 75       |
| 51) | Dimethyl phthalate        | 7.189 | 163  | 2442433  | 194.876 | ug/ml  | 99       |
| 52) | Acenaphthylene            | 7.251 | 152  | 3387868  | 197.135 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 7.228 | 165  | 562152   | 198.955 | ug/ml  | 86       |
| 54) | 1,2-Dinitrobenzene        | 7.277 | 168  | 238965   | 198.801 | ug/ml# | 14       |
| 64) | 3-Nitroaniline            | 7.385 | 138  | 623804   | 207.709 | ug/ml  | 89       |
| 65) | Acenaphthene              | 7.424 | 154  | 2007812  | 194.518 | ug/ml  | 98       |
| 66) | 2,4-Dinitrophenol         | 7.490 | 184  | 366305   | 223.654 | ug/ml# | 84       |
| 67) | Dibenzofuran              | 7.595 | 168  | 2976610  | 192.870 | ug/ml# | 80       |
| 68) | 2,4-Dinitrotoluene        | 7.618 | 165  | 763114   | 201.424 | ug/ml# | 66       |
| 69) | 4-Nitrophenol             | 7.595 | 65   | 478415   | 217.111 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.689 | 232  | 636823   | 211.785 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.731 | 232  | 623538   | 201.993 | ug/ml  | 100      |
| 72) | Diethyl phthalate         | 7.870 | 149  | 2529038  | 191.695 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.924 | 166  | 2474047  | 196.196 | ug/ml  | 99       |
| 74) | 4-Chlorophenyl phenyl ... | 7.941 | 204  | 1163479  | 197.357 | ug/ml# | 88       |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL10.d  
 Acq On : 1 Dec 2019 11:31 am  
 Operator : SV103:als  
 Sample : IL1,32,,ABNL200 Lot#8517  
 Misc : WG1316163,,  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 14:35:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.978  | 138  | 608765    | 207.294 | ug/ml# | 78       |
| 76)  | 4,6-Dinitro-o-cresol      | 8.015  | 198  | 481538    | 205.774 | ug/ml# | 82       |
| 77)  | NDPA/DPA                  | 8.066  | 169  | 2102746   | 194.159 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.095  | 77   | 2415785   | 197.486 | ug/ml  | 96       |
| 80)  | 4-Bromophenyl phenyl e... | 8.407  | 248  | 660787    | 199.293 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 8.461  | 284  | 771522    | 205.527 | ug/ml  | 95       |
| 82)  | Pentachlorophenol         | 8.658  | 266  | 351220    | 175.056 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.839  | 178  | 3576461   | 189.338 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.891  | 178  | 3758978   | 191.677 | ug/ml  | 98       |
| 91)  | Carbazole                 | 9.064  | 167  | 3410200   | 191.580 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 9.450  | 149  | 4242177   | 184.115 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.987  | 202  | 3955517   | 187.627 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.146 | 184  | 2877927   | 195.047 | ug/ml  | 99       |
| 95)  | Pyrene                    | 10.198 | 202  | 4119272   | 187.648 | ug/ml  | 97       |
| 97)  | Butyl benzyl phthalate    | 10.948 | 149  | 1910049   | 186.210 | ug/ml  | 91       |
| 105) | Benzo(a)anthracene        | 11.542 | 228  | 3739261   | 190.178 | ug/ml  | 97       |
| 106) | 3,3'-Dichlorobenzidine    | 11.553 | 252  | 1543534   | 194.423 | ug/ml  | 98       |
| 107) | Chrysene                  | 11.590 | 228  | 3661712   | 188.318 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.712 | 149  | 2825159   | 174.267 | ug/ml  | 98       |
| 109) | Di-n-octylphthalate       | 12.644 | 149  | 4925097   | 178.056 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 13.031 | 252  | 3535367   | 191.313 | ug/ml  | 98       |
| 111) | Benzo(k)fluoranthene      | 13.076 | 252  | 3693300   | 187.800 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.494 | 252  | 3355477   | 193.208 | ug/ml  | 98       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.145 | 276  | 3336884   | 203.309 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.196 | 278  | 3444704M6 | 207.637 | ug/ml  |          |
| 116) | Benzo(ghi)perylene        | 15.514 | 276  | 3571504   | 199.446 | ug/ml  | 95       |

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

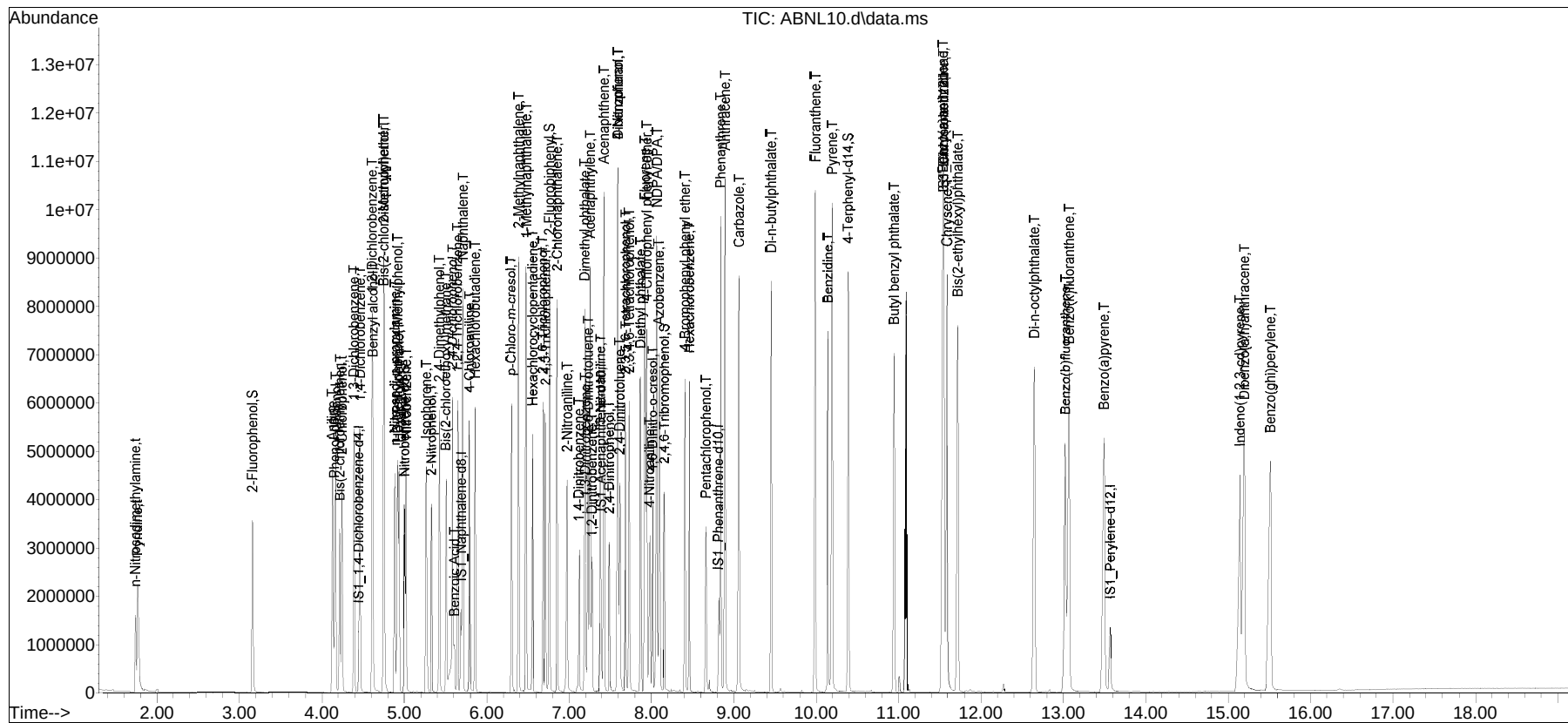
# Quantitation Report

(QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL10.d  
Acq On : 1 Dec 2019 11:31 am  
Operator : SV103:als  
Sample : IL1,32,,ABNL200 Lot#8517  
Misc : WG1316163,,  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 02 14:35:56 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 14:07:20 2019  
Response via : Initial Calibration

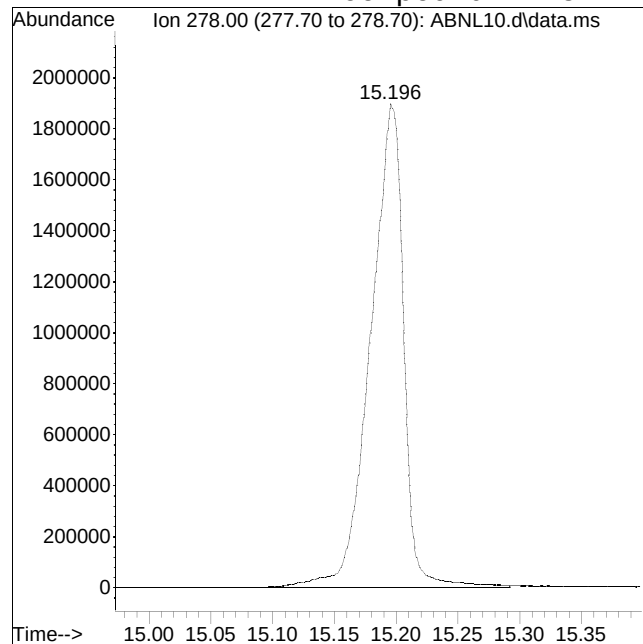
Sub List : ABNical - ABN ical sublista\ABNL7.d•



# Manual Integration Report

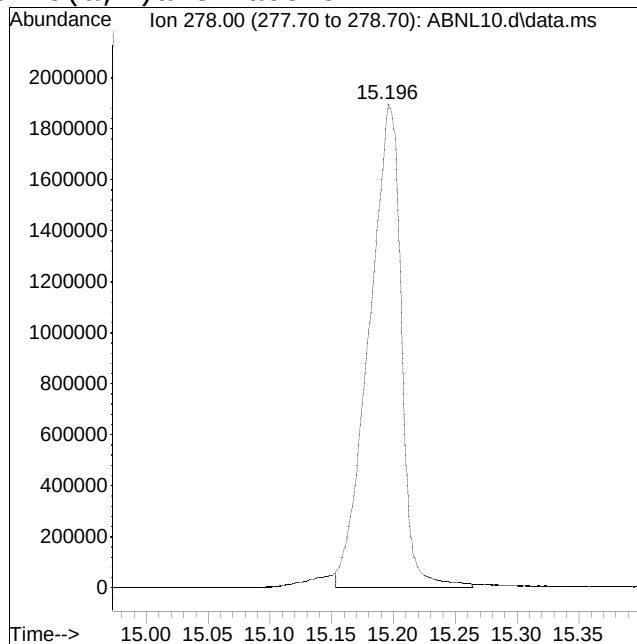
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL10.d Operator : SV103:als  
Date Inj'd : 12/1/2019 11:31 am Instrument : SV103  
Sample : IL1,32,,ABNL200 Lot#8517 Quant Date : 12/2/2019 2:08 pm

## Compound #115: Dibenzo(a,h)anthracene



Original Peak Response = 3552070

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 3444704 M6

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL9.d  
 Acq On : 1 Dec 2019 11:55 am  
 Operator : SV103:als  
 Sample : IL2,32,,ABNL150 Lot#8526  
 Misc : WG1316163,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 15:47:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.446          | 152  | 154715              | 40.000  | ug/ml  | # 0.00   |
| Standard Area 1 = 152538      |                |      | Recovery = 101.43%  |         |        |          |
| 35) IS1_Naphthalene-d8        | 5.688          | 136  | 636001              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 102.07%  |         |        |          |
| 63) IS1_Acenaphthene-d10      | 7.390          | 164  | 370239              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 104.21%  |         |        |          |
| 88) IS1_Phenanthrene-d10      | 8.814          | 188  | 700723              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 105.06%  |         |        |          |
| 104) IS1_Chrysene-d12         | 11.550         | 240  | 632193              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 108.86%  |         |        |          |
| 113) IS1_Perylene-d12         | 13.565         | 264  | 671065              | 40.000  | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = 106.74%  |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 4) 2-Fluorophenol             | 3.162          | 112  | 658820              | 146.473 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 292.95%# |         |        |          |
| 7) Phenol-d6                  | 4.154          | 99   | 827984              | 143.900 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 287.80%# |         |        |          |
| 19) Nitrobenzene-d5           | 4.998          | 82   | 769826              | 150.214 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 600.86%# |         |        |          |
| 46) 2-Fluorobiphenyl          | 6.762          | 172  | 1736205             | 144.618 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 578.47%# |         |        |          |
| 79) 2,4,6-Tribromophenol      | 8.154          | 330  | 259628              | 152.797 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 305.59%# |         |        |          |
| 96) 4-Terphenyl-d14           | 10.388         | 244  | 1903473             | 145.713 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 582.85%# |         |        |          |
| Target Compounds              |                |      |                     |         |        |          |
|                               |                |      |                     |         |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.741          | 74   | 423674              | 143.480 | ug/ml  | 94       |
| 3) Pyridine                   | 1.770          | 79   | 662805              | 140.730 | ug/ml  | 98       |
| 5) Aniline                    | 4.128          | 93   | 1080473             | 146.974 | ug/ml  | 92       |
| 6) 2-Chlorophenol             | 4.245          | 128  | 748118              | 144.388 | ug/ml  | 95       |
| 8) Phenol                     | 4.168          | 94   | 884554              | 145.972 | ug/ml# | 90       |
| 9) Bis(2-chloroethyl)ether    | 4.216          | 93   | 669113              | 146.215 | ug/ml  | 98       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 819184              | 144.648 | ug/ml  | 96       |
| 11) 1,4-Dichlorobenzene       | 4.463          | 146  | 832742              | 144.794 | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 803873              | 143.496 | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.614          | 79   | 598812              | 148.850 | ug/ml  | 94       |
| 14) Bis(2-chloroisopropyl)... | 4.756          | 45   | 1341377             | 138.523 | ug/ml  | 96       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL9.d  
 Acq On : 1 Dec 2019 11:55 am  
 Operator : SV103:als  
 Sample : IL2,32,,ABNL150 Lot#8526  
 Misc : WG1316163,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 15:47:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|---------|--------|----------|
| 15) | 2-Methylphenol            | 4.753 | 108  | 679145   | 145.056 | ug/ml  | 96       |
| 16) | Hexachloroethane          | 4.935 | 117  | 328289   | 144.551 | ug/ml  | 85       |
| 17) | n-Nitrosodi-n-propylamine | 4.884 | 70   | 541505   | 145.003 | ug/ml  | 97       |
| 18) | 3-Methylphenol/4-Methy... | 4.915 | 108  | 727546   | 147.939 | ug/ml  | 96       |
| 20) | Nitrobenzene              | 5.018 | 77   | 776408   | 146.552 | ug/ml  | 95       |
| 21) | Isophorone                | 5.265 | 82   | 1421393  | 144.743 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.333 | 139  | 415901   | 148.549 | ug/ml  | 90       |
| 23) | 2,4-Dimethylphenol        | 5.424 | 107  | 716967   | 145.481 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.503 | 93   | 894548   | 145.416 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.580 | 162  | 675147   | 147.685 | ug/ml  | 95       |
| 26) | 1,2,4-Trichlorobenzene    | 5.646 | 180  | 710389   | 145.859 | ug/ml  | 97       |
| 36) | Naphthalene               | 5.711 | 128  | 2222963  | 142.878 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 5.589 | 105  | 562904   | 159.138 | ug/ml  | 95       |
| 38) | 4-Chloroaniline           | 5.788 | 65   | 284312   | 151.255 | ug/ml  | 82       |
| 39) | Hexachlorobutadiene       | 5.856 | 225  | 393726   | 143.454 | ug/ml  | 98       |
| 40) | p-Chloro-m-cresol         | 6.299 | 107  | 647921   | 147.758 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.387 | 142  | 1571322  | 145.469 | ug/ml  | 97       |
| 42) | 1-Methylnaphthalene       | 6.481 | 115  | 493522   | 146.520 | ug/ml  | 79       |
| 43) | Hexachlorocyclopentadiene | 6.555 | 237  | 480664   | 163.902 | ug/ml  | 95       |
| 44) | 2,4,6-Trichlorophenol     | 6.683 | 196  | 490915   | 151.366 | ug/ml  | 95       |
| 45) | 2,4,5-Trichlorophenol     | 6.717 | 196  | 524586   | 152.794 | ug/ml  | 98       |
| 47) | 2-Chloronaphthalene       | 6.856 | 162  | 1457616  | 146.889 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.975 | 138  | 526221   | 152.973 | ug/ml  | 88       |
| 49) | 1,4-Dinitrobenzene        | 7.117 | 168  | 243486   | 156.588 | ug/ml  | 77       |
| 50) | 1,3-Dinitrobenzene        | 7.194 | 168  | 274292   | 151.567 | ug/ml# | 74       |
| 51) | Dimethyl phthalate        | 7.183 | 163  | 1740775  | 145.346 | ug/ml  | 99       |
| 52) | Acenaphthylene            | 7.251 | 152  | 2425166  | 147.673 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 7.225 | 165  | 401822   | 148.819 | ug/ml  | 86       |
| 54) | 1,2-Dinitrobenzene        | 7.271 | 168  | 172129   | 149.852 | ug/ml# | 9        |
| 64) | 3-Nitroaniline            | 7.379 | 138  | 439109   | 151.876 | ug/ml  | 91       |
| 65) | Acenaphthene              | 7.421 | 154  | 1427163  | 143.622 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 7.487 | 184  | 257343   | 163.213 | ug/ml# | 84       |
| 67) | Dibenzofuran              | 7.592 | 168  | 2127505  | 143.193 | ug/ml# | 81       |
| 68) | 2,4-Dinitrotoluene        | 7.615 | 165  | 549387   | 150.629 | ug/ml# | 67       |
| 69) | 4-Nitrophenol             | 7.589 | 65   | 335374   | 158.094 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.688 | 232  | 442638   | 152.909 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.728 | 232  | 440009   | 148.062 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.867 | 149  | 1820106  | 143.305 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.921 | 166  | 1767441  | 145.592 | ug/ml  | 98       |
| 74) | 4-Chlorophenyl phenyl ... | 7.941 | 204  | 820545   | 144.579 | ug/ml# | 87       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL9.d  
 Acq On : 1 Dec 2019 11:55 am  
 Operator : SV103:als  
 Sample : IL2,32,,ABNL150 Lot#8526  
 Misc : WG1316163,,  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 15:47:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response  | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|-----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.973  | 138  | 434542    | 153.701 | ug/ml# | 79       |
| 76)  | 4,6-Dinitro-o-cresol      | 8.010  | 198  | 348459    | 154.675 | ug/ml# | 81       |
| 77)  | NDPA/DPA                  | 8.064  | 169  | 1519902   | 145.779 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.092  | 77   | 1703380   | 144.643 | ug/ml# | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 8.407  | 248  | 463030    | 145.061 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 8.459  | 284  | 541602    | 149.869 | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 8.657  | 266  | 259969    | 134.595 | ug/ml  | 97       |
| 89)  | Phenanthrene              | 8.839  | 178  | 2605992   | 143.593 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.888  | 178  | 2737523   | 145.289 | ug/ml  | 98       |
| 91)  | Carbazole                 | 9.061  | 167  | 2484669   | 145.282 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 9.450  | 149  | 3120219   | 140.949 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.984  | 202  | 2926979   | 144.506 | ug/ml  | 99       |
| 94)  | Benzidine                 | 10.143 | 184  | 2115843   | 149.251 | ug/ml  | 99       |
| 95)  | Pyrene                    | 10.195 | 202  | 3026817   | 143.511 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.948 | 149  | 1413679   | 143.445 | ug/ml  | 91       |
| 105) | Benzo(a)anthracene        | 11.539 | 228  | 2741409   | 142.602 | ug/ml  | 97       |
| 106) | 3,3'-Dichlorobenzidine    | 11.547 | 252  | 1123095   | 144.686 | ug/ml  | 97       |
| 107) | Chrysene                  | 11.584 | 228  | 2709139   | 142.501 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.712 | 149  | 2103594   | 132.713 | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.641 | 149  | 3667271   | 135.601 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 13.025 | 252  | 2580383   | 142.814 | ug/ml  | 99       |
| 111) | Benzo(k)fluoranthene      | 13.067 | 252  | 2726708   | 141.807 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.488 | 252  | 2462866   | 145.040 | ug/ml  | 98       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.139 | 276  | 2425771   | 148.907 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.187 | 278  | 2540426M6 | 154.280 | ug/ml  |          |
| 116) | Benzo(ghi)perylene        | 15.508 | 276  | 2631251   | 148.043 | ug/ml  | 95       |

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

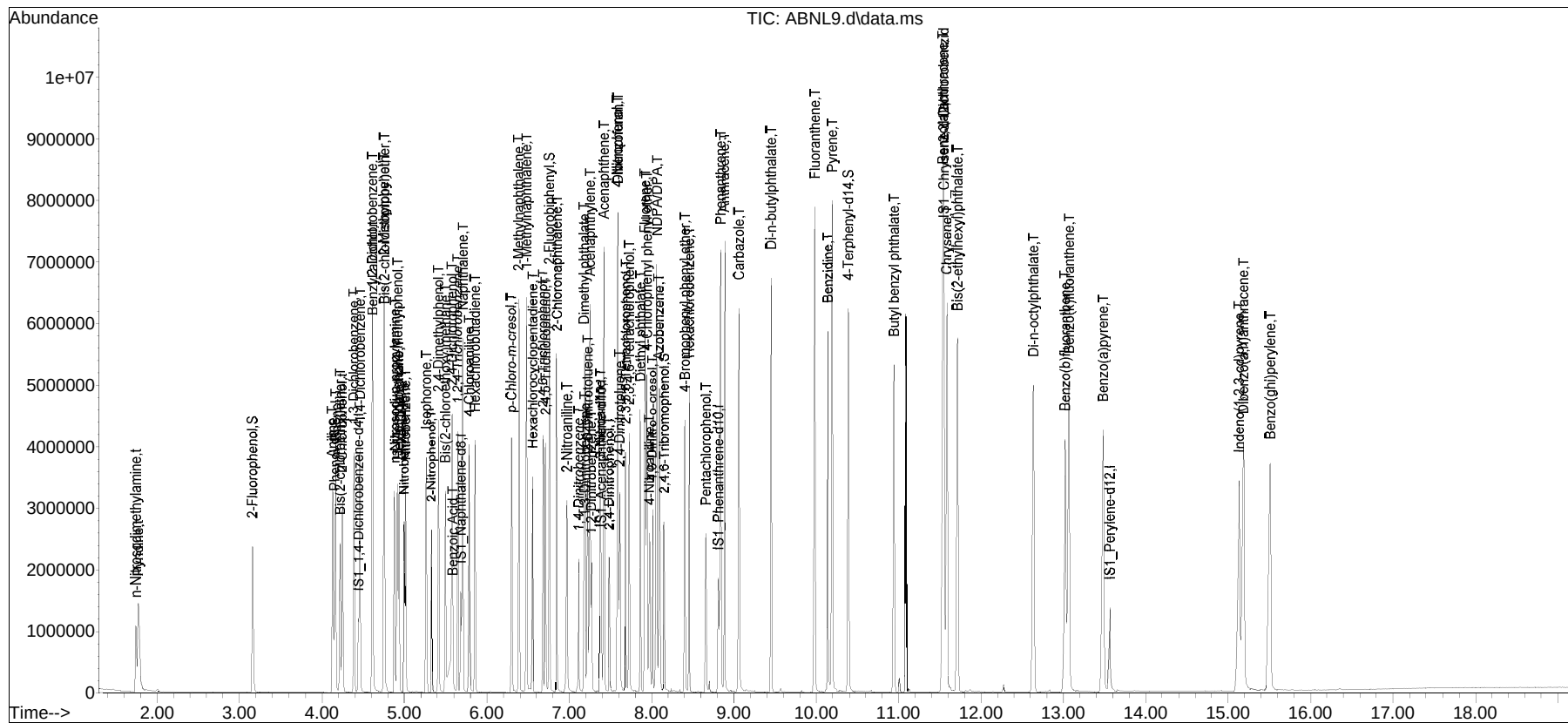


(QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL9.d  
Acq On : 1 Dec 2019 11:55 am  
Operator : SV103:als  
Sample : IL2,32,,ABNL150 Lot#8526  
Misc : WG1316163,,  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 02 15:47:20 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 14:07:20 2019  
Response via : Initial Calibration

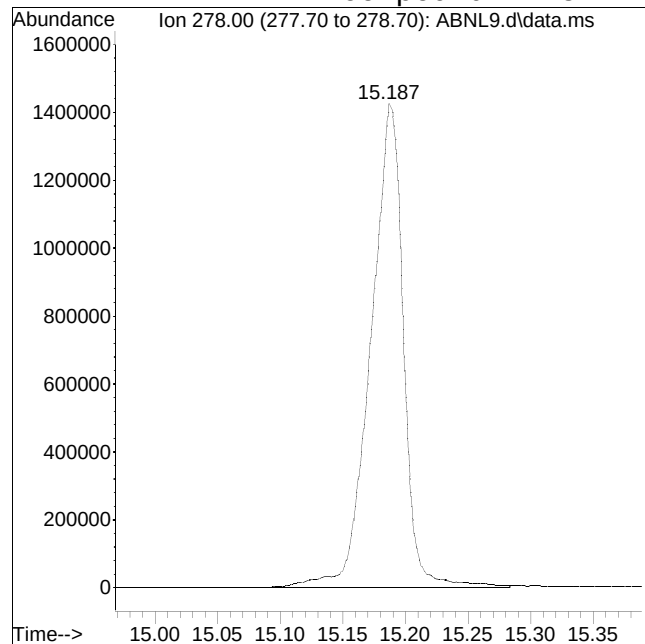
Sub List : ABNical - ABN ical sublista\ABNL7.d•



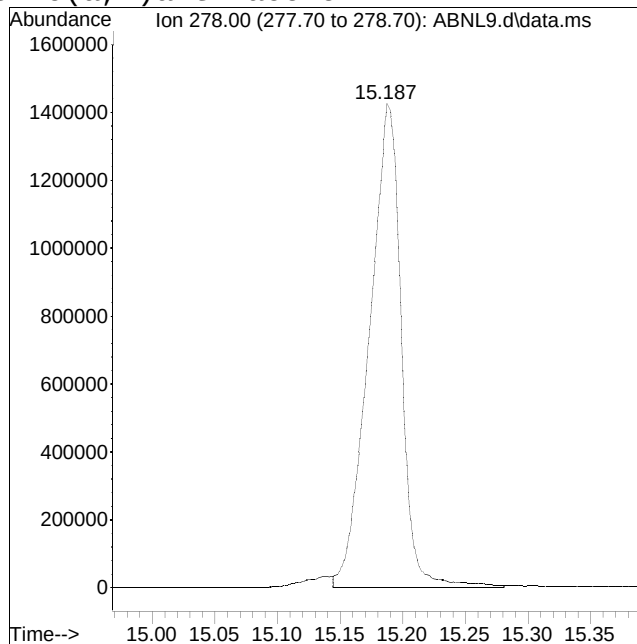
# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL9.d Operator : SV103:als  
Date Inj'd : 12/1/2019 11:55 am Instrument : SV103  
Sample : IL2,32,,ABNL150 Lot#8526 Quant Date : 12/2/2019 2:09 pm

## Compound #115: Dibenzo(a,h)anthracene



Original Peak Response = 2600624



Manual Peak Response = 2540426 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL8.d  
 Acq On : 1 Dec 2019 12:19 pm  
 Operator : SV103:als  
 Sample : IL3,32,,ABNL100 Lot#8525  
 Misc : WG1316163,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 15:44:00 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|---------|----------|----------|
| -----                         |                |      |          |         |          |          |
| Internal Standards            |                |      |          |         |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.447          | 152  | 154261   | 40.000  | ug/ml    | # 0.00   |
| Standard Area 1 = 152538      |                |      | Recovery | =       | 101.13%  |          |
| 35) IS1_Naphthalene-d8        | 5.688          | 136  | 630586   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery | =       | 101.20%  |          |
| 63) IS1_Acenaphthene-d10      | 7.387          | 164  | 363542   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery | =       | 102.32%  |          |
| 88) IS1_Phenanthrene-d10      | 8.814          | 188  | 702360   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery | =       | 105.31%  |          |
| 104) IS1_Chrysene-d12         | 11.547         | 240  | 618112   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery | =       | 106.44%  |          |
| 113) IS1_Perylene-d12         | 13.562         | 264  | 658437   | 40.000  | ug/ml    | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery | =       | 104.74%  |          |
| System Monitoring Compounds   |                |      |          |         |          |          |
| 4) 2-Fluorophenol             | 3.162          | 112  | 443079   | 98.798  | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 197.60%# |          |
| 7) Phenol-d6                  | 4.151          | 99   | 559872   | 97.589  | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 195.18%# |          |
| 19) Nitrobenzene-d5           | 4.998          | 82   | 515609   | 100.906 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 403.62%# |          |
| 46) 2-Fluorobiphenyl          | 6.759          | 172  | 1160912  | 97.529  | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 390.12%# |          |
| 79) 2,4,6-Tribromophenol      | 8.155          | 330  | 170727   | 102.327 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =       | 204.65%# |          |
| 96) 4-Terphenyl-d14           | 10.385         | 244  | 1260798  | 96.291  | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =       | 385.16%# |          |
| Target Compounds              |                |      |          |         |          |          |
|                               |                |      |          |         |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.742          | 74   | 286945   | 97.462  | ug/ml    | 94       |
| 3) Pyridine                   | 1.770          | 79   | 468486   | 99.764  | ug/ml    | 98       |
| 5) Aniline                    | 4.128          | 93   | 727261   | 99.219  | ug/ml    | 92       |
| 6) 2-Chlorophenol             | 4.242          | 128  | 512064   | 99.120  | ug/ml    | 95       |
| 8) Phenol                     | 4.165          | 94   | 591105   | 97.833  | ug/ml#   | 90       |
| 9) Bis(2-chloroethyl)ether    | 4.216          | 93   | 454406   | 99.590  | ug/ml    | 98       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 553329   | 97.992  | ug/ml    | 96       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 557577   | 97.235  | ug/ml    | 97       |
| 12) 1,2-Dichlorobenzene       | 4.609          | 146  | 543151   | 97.241  | ug/ml    | 95       |
| 13) Benzyl alcohol            | 4.611          | 79   | 397195   | 99.023  | ug/ml    | 94       |
| 14) Bis(2-chloroisopropyl)... | 4.751          | 45   | 919299   | 95.215  | ug/ml    | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL8.d  
 Acq On : 1 Dec 2019 12:19 pm  
 Operator : SV103:als  
 Sample : IL3,32,,ABNL100 Lot#8525  
 Misc : WG1316163,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 15:44:00 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 15) 2-Methylphenol            | 4.751 | 108  | 454577   | 97.377  | ug/ml  | 97       |
| 16) Hexachloroethane          | 4.935 | 117  | 218636   | 96.552  | ug/ml  | 84       |
| 17) n-Nitrosodi-n-propylamine | 4.878 | 70   | 365729   | 98.222  | ug/ml  | 97       |
| 18) 3-Methylphenol/4-Methy... | 4.913 | 108  | 488451   | 99.614  | ug/ml  | 96       |
| 20) Nitrobenzene              | 5.015 | 77   | 519311   | 98.312  | ug/ml  | 94       |
| 21) Isophorone                | 5.259 | 82   | 962230   | 98.274  | ug/ml  | 97       |
| 22) 2-Nitrophenol             | 5.330 | 139  | 276756   | 99.141  | ug/ml  | 91       |
| 23) 2,4-Dimethylphenol        | 5.421 | 107  | 483500   | 98.397  | ug/ml  | 93       |
| 24) Bis(2-chloroethoxy)met... | 5.501 | 93   | 599578   | 97.753  | ug/ml  | 98       |
| 25) 2,4-Dichlorophenol        | 5.577 | 162  | 452020   | 99.168  | ug/ml  | 95       |
| 26) 1,2,4-Trichlorobenzene    | 5.646 | 180  | 470849   | 96.960  | ug/ml  | 96       |
| 36) Naphthalene               | 5.708 | 128  | 1490150  | 96.600  | ug/ml  | 100      |
| 37) Benzoic Acid              | 5.569 | 105  | 372956   | 106.343 | ug/ml  | 97       |
| 38) 4-Chloroaniline           | 5.788 | 65   | 191546   | 102.778 | ug/ml  | 82       |
| 39) Hexachlorobutadiene       | 5.856 | 225  | 263966   | 97.002  | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 6.296 | 107  | 434861   | 100.021 | ug/ml  | 90       |
| 41) 2-Methylnaphthalene       | 6.387 | 142  | 1059753  | 98.952  | ug/ml  | 96       |
| 42) 1-Methylnaphthalene       | 6.478 | 115  | 329874   | 98.776  | ug/ml  | 78       |
| 43) Hexachlorocyclopentadiene | 6.555 | 237  | 309244   | 106.355 | ug/ml  | 95       |
| 44) 2,4,6-Trichlorophenol     | 6.683 | 196  | 324854   | 101.024 | ug/ml  | 95       |
| 45) 2,4,5-Trichlorophenol     | 6.714 | 196  | 351594   | 103.287 | ug/ml  | 97       |
| 47) 2-Chloronaphthalene       | 6.853 | 162  | 971936   | 98.786  | ug/ml  | 95       |
| 48) 2-Nitroaniline            | 6.973 | 138  | 347248   | 101.812 | ug/ml  | 89       |
| 49) 1,4-Dinitrobenzene        | 7.115 | 168  | 162118   | 105.155 | ug/ml# | 76       |
| 50) 1,3-Dinitrobenzene        | 7.191 | 168  | 182115   | 101.496 | ug/ml# | 73       |
| 51) Dimethyl phthalate        | 7.180 | 163  | 1181838  | 99.525  | ug/ml  | 100      |
| 52) Acenaphthylene            | 7.248 | 152  | 1631005  | 100.168 | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 7.220 | 165  | 270241   | 100.946 | ug/ml  | 85       |
| 54) 1,2-Dinitrobenzene        | 7.265 | 168  | 116894   | 102.639 | ug/ml# | 51       |
| 64) 3-Nitroaniline            | 7.376 | 138  | 292175   | 102.917 | ug/ml  | 92       |
| 65) Acenaphthene              | 7.422 | 154  | 956690   | 98.049  | ug/ml  | 97       |
| 66) 2,4-Dinitrophenol         | 7.484 | 184  | 168402   | 108.772 | ug/ml# | 84       |
| 67) Dibenzofuran              | 7.589 | 168  | 1441948  | 98.839  | ug/ml# | 82       |
| 68) 2,4-Dinitrotoluene        | 7.609 | 165  | 365559   | 102.074 | ug/ml# | 67       |
| 69) 4-Nitrophenol             | 7.586 | 65   | 217908   | 104.613 | ug/ml# | 1        |
| 70) 2,3,5,6-Tetrachlorophenol | 7.686 | 232  | 293820   | 103.370 | ug/ml  | 98       |
| 71) 2,3,4,6-Tetrachlorophenol | 7.728 | 232  | 294074   | 100.778 | ug/ml  | 98       |
| 72) Diethyl phthalate         | 7.865 | 149  | 1214350  | 97.372  | ug/ml  | 97       |
| 73) Fluorene                  | 7.919 | 166  | 1178605  | 98.875  | ug/ml  | 98       |
| 74) 4-Chlorophenyl phenyl ... | 7.939 | 204  | 551626   | 98.986  | ug/ml# | 87       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL8.d  
 Acq On : 1 Dec 2019 12:19 pm  
 Operator : SV103:als  
 Sample : IL3,32,,ABNL100 Lot#8525  
 Misc : WG1316163,,  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 15:44:00 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|---------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.967  | 138  | 287860   | 103.694 | ug/ml# | 79       |
| 76)  | 4,6-Dinitro-o-cresol      | 8.007  | 198  | 227046   | 102.639 | ug/ml# | 82       |
| 77)  | NDPA/DPA                  | 8.061  | 169  | 1019411  | 99.576  | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.089  | 77   | 1140303  | 98.613  | ug/ml# | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 8.405  | 248  | 311654   | 99.435  | ug/ml# | 87       |
| 81)  | Hexachlorobenzene         | 8.456  | 284  | 354237   | 99.828  | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 8.655  | 266  | 193700   | 102.133 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.837  | 178  | 1764406  | 96.994  | ug/ml  | 99       |
| 90)  | Anthracene                | 8.885  | 178  | 1817366  | 96.228  | ug/ml  | 98       |
| 91)  | Carbazole                 | 9.058  | 167  | 1672738  | 97.580  | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 9.447  | 149  | 2110026  | 95.093  | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.982  | 202  | 1985361  | 97.790  | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.141 | 184  | 1394334  | 98.127  | ug/ml  | 99       |
| 95)  | Pyrene                    | 10.192 | 202  | 2067576  | 97.802  | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.945 | 149  | 957395   | 96.920  | ug/ml  | 91       |
| 105) | Benzo(a)anthracene        | 11.536 | 228  | 1859792  | 98.946  | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.544 | 252  | 756033   | 99.617  | ug/ml  | 96       |
| 107) | Chrysene                  | 11.581 | 228  | 1815781  | 97.686  | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.709 | 149  | 1423633  | 91.861  | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.638 | 149  | 2461530  | 93.091  | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 13.016 | 252  | 1764899  | 99.905  | ug/ml  | 98       |
| 111) | Benzo(k)fluoranthene      | 13.059 | 252  | 1789312  | 95.176  | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.482 | 252  | 1633995  | 98.419  | ug/ml  | 98       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.130 | 276  | 1596680  | 99.893  | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.182 | 278  | 1632646  | 101.052 | ug/ml  | 99       |
| 116) | Benzo(ghi)perylene        | 15.494 | 276  | 1724165  | 98.868  | ug/ml  | 95       |

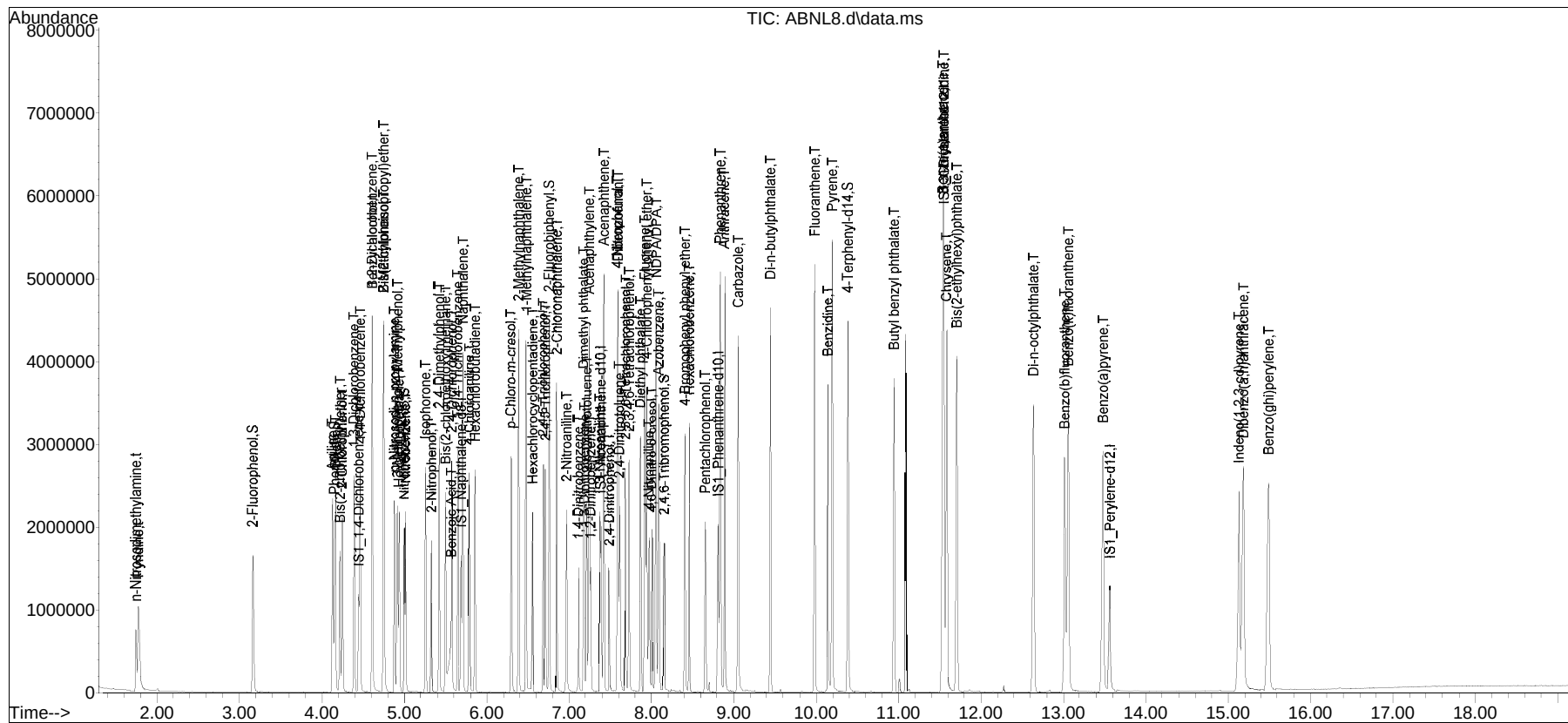
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL8.d  
Acq On : 1 Dec 2019 12:19 pm  
Operator : SV103:als  
Sample : IL3,32,,ABNL100 Lot#8525  
Misc : WG1316163,,  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 02 15:44:00 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 14:07:20 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublista\ABNL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL8.d Operator : SV103:als  
Date Inj'd : 12/1/2019 12:19 pm Instrument : SV103  
Sample : IL3,32,,ABNL100 Lot#8525 Quant Date : 12/2/2019 2:08 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL7.d  
 Acq On : 1 Dec 2019 12:43 pm  
 Operator : SV103:als  
 Sample : IL4,32,,ABNL50 Lot#8524  
 Misc : WG1316163,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 13:56:52 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:56:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|----------|----------|
| -----                         |                |      |          |        |          |          |
| Internal Standards            |                |      |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 152538   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery | =      | 100.00%  |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 623099   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery | =      | 100.00%  |          |
| 63) IS1_Acenaphthene-d10      | 7.387          | 164  | 355293   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery | =      | 100.00%  |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 666976   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery | =      | 100.00%  |          |
| 104) IS1_Chrysene-d12         | 11.544         | 240  | 580721   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery | =      | 100.00%  |          |
| 113) IS1_Perylene-d12         | 13.559         | 264  | 628663   | 40.000 | ug/ml    | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery | =      | 100.00%  |          |
| System Monitoring Compounds   |                |      |          |        |          |          |
| 4) 2-Fluorophenol             | 3.159          | 112  | 221730   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 7) Phenol-d6                  | 4.148          | 99   | 283647   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 19) Nitrobenzene-d5           | 4.995          | 82   | 252637   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| 46) 2-Fluorobiphenyl          | 6.759          | 172  | 588094   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| 79) 2,4,6-Tribromophenol      | 8.152          | 330  | 81529    | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 100.00%  |          |
| 96) 4-Terphenyl-d14           | 10.385         | 244  | 621701   | 50.000 | ug/ml    | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 200.00%# |          |
| Target Compounds              |                |      |          |        |          |          |
|                               |                |      |          |        |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.736          | 74   | 145565   | 50.000 | ug/ml    | 94       |
| 3) Pyridine                   | 1.761          | 79   | 232175   | 50.000 | ug/ml    | 97       |
| 5) Aniline                    | 4.125          | 93   | 362401   | 50.000 | ug/ml    | 92       |
| 6) 2-Chlorophenol             | 4.239          | 128  | 255419   | 50.000 | ug/ml    | 95       |
| 8) Phenol                     | 4.160          | 94   | 298725   | 50.000 | ug/ml#   | 91       |
| 9) Bis(2-chloroethyl)ether    | 4.214          | 93   | 225591   | 50.000 | ug/ml    | 97       |
| 10) 1,3-Dichlorobenzene       | 4.384          | 146  | 279180   | 50.000 | ug/ml    | 95       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 283515   | 50.000 | ug/ml    | 96       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 276161   | 50.000 | ug/ml    | 95       |
| 13) Benzyl alcohol            | 4.608          | 79   | 198316   | 50.000 | ug/ml    | 95       |
| 14) Bis(2-chloroisopropyl)... | 4.751          | 45   | 477359   | 50.000 | ug/ml    | 94       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL7.d  
 Acq On : 1 Dec 2019 12:43 pm  
 Operator : SV103:als  
 Sample : IL4,32,,ABNL50 Lot#8524  
 Misc : WG1316163,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 13:56:52 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:56:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.748 | 108  | 230804   | 50.000 | ug/ml  | 95       |
| 16) | Hexachloroethane          | 4.932 | 117  | 111957   | 50.000 | ug/ml  | 84       |
| 17) | n-Nitrosodi-n-propylamine | 4.876 | 70   | 184095   | 50.000 | ug/ml  | 98       |
| 18) | 3-Methylphenol/4-Methy... | 4.910 | 108  | 242434   | 50.000 | ug/ml  | 96       |
| 20) | Nitrobenzene              | 5.012 | 77   | 261165   | 50.000 | ug/ml  | 96       |
| 21) | Isophorone                | 5.256 | 82   | 484097   | 50.000 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.327 | 139  | 138018   | 50.000 | ug/ml  | 90       |
| 23) | 2,4-Dimethylphenol        | 5.418 | 107  | 242945   | 50.000 | ug/ml  | 95       |
| 24) | Bis(2-chloroethoxy)met... | 5.498 | 93   | 303255   | 50.000 | ug/ml  | 99       |
| 25) | 2,4-Dichlorophenol        | 5.575 | 162  | 225360   | 50.000 | ug/ml  | 95       |
| 26) | 1,2,4-Trichlorobenzene    | 5.643 | 180  | 240093   | 50.000 | ug/ml  | 97       |
| 36) | Naphthalene               | 5.705 | 128  | 762141   | 50.000 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 5.538 | 105  | 173273   | 50.000 | ug/ml  | 96       |
| 38) | 4-Chloroaniline           | 5.785 | 65   | 92078    | 50.000 | ug/ml  | 78       |
| 39) | Hexachlorobutadiene       | 5.853 | 225  | 134447   | 50.000 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 6.293 | 107  | 214803   | 50.000 | ug/ml  | 90       |
| 41) | 2-Methylnaphthalene       | 6.387 | 142  | 529133   | 50.000 | ug/ml  | 97       |
| 42) | 1-Methylnaphthalene       | 6.478 | 115  | 164998   | 50.000 | ug/ml  | 76       |
| 43) | Hexachlorocyclopentadiene | 6.555 | 237  | 143657   | 50.000 | ug/ml  | 97       |
| 44) | 2,4,6-Trichlorophenol     | 6.680 | 196  | 158872   | 50.000 | ug/ml  | 95       |
| 45) | 2,4,5-Trichlorophenol     | 6.714 | 196  | 168182   | 50.000 | ug/ml  | 99       |
| 47) | 2-Chloronaphthalene       | 6.850 | 162  | 486098   | 50.000 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.970 | 138  | 168509   | 50.000 | ug/ml  | 89       |
| 49) | 1,4-Dinitrobenzene        | 7.112 | 168  | 76170    | 50.000 | ug/ml  | 77       |
| 50) | 1,3-Dinitrobenzene        | 7.186 | 168  | 88650    | 50.000 | ug/ml# | 73       |
| 51) | Dimethyl phthalate        | 7.174 | 163  | 586691   | 50.000 | ug/ml  | 99       |
| 52) | Acenaphthylene            | 7.245 | 152  | 804468   | 50.000 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 7.217 | 165  | 132265   | 50.000 | ug/ml  | 85       |
| 54) | 1,2-Dinitrobenzene        | 7.260 | 168  | 56268    | 50.000 | ug/ml  | 84       |
| 64) | 3-Nitroaniline            | 7.370 | 138  | 138726   | 50.000 | ug/ml  | 92       |
| 65) | Acenaphthene              | 7.419 | 154  | 476791   | 50.000 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 7.481 | 184  | 75654    | 50.000 | ug/ml# | 84       |
| 67) | Dibenzofuran              | 7.586 | 168  | 712890   | 50.000 | ug/ml# | 84       |
| 68) | 2,4-Dinitrotoluene        | 7.606 | 165  | 175002   | 50.000 | ug/ml# | 69       |
| 69) | 4-Nitrophenol             | 7.581 | 65   | 101786   | 50.000 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.686 | 232  | 138896   | 50.000 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.726 | 232  | 142591   | 50.000 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.862 | 149  | 609411   | 50.000 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.916 | 166  | 582482   | 50.000 | ug/ml  | 99       |
| 74) | 4-Chlorophenyl phenyl ... | 7.936 | 204  | 272315   | 50.000 | ug/ml# | 87       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL7.d  
 Acq On : 1 Dec 2019 12:43 pm  
 Operator : SV103:als  
 Sample : IL4,32,,ABNL50 Lot#8524  
 Misc : WG1316163,,  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 02 13:56:52 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:56:18 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.959  | 138  | 135653   | 50.000 | ug/ml# | 78       |
| 76)  | 4,6-Dinitro-o-cresol      | 8.001  | 198  | 108095   | 50.000 | ug/ml# | 81       |
| 77)  | NDPA/DPA                  | 8.058  | 169  | 500260   | 50.000 | ug/ml  | 100      |
| 78)  | Azobenzene                | 8.086  | 77   | 565051   | 50.000 | ug/ml  | 96       |
| 80)  | 4-Bromophenyl phenyl e... | 8.405  | 248  | 153156   | 50.000 | ug/ml# | 87       |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 173398   | 50.000 | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 8.652  | 266  | 92676    | 50.000 | ug/ml  | 97       |
| 89)  | Phenanthrene              | 8.834  | 178  | 863722   | 50.000 | ug/ml  | 99       |
| 90)  | Anthracene                | 8.882  | 178  | 896726   | 50.000 | ug/ml  | 98       |
| 91)  | Carbazole                 | 9.055  | 167  | 813934   | 50.000 | ug/ml  | 100      |
| 92)  | Di-n-butylphthalate       | 9.447  | 149  | 1053558  | 50.000 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.979  | 202  | 963976   | 50.000 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.138 | 184  | 674684   | 50.000 | ug/ml  | 99       |
| 95)  | Pyrene                    | 10.192 | 202  | 1003772  | 50.000 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.942 | 149  | 469029   | 50.000 | ug/ml  | 91       |
| 105) | Benzo(a)anthracene        | 11.533 | 228  | 882950   | 50.000 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.542 | 252  | 356516   | 50.000 | ug/ml  | 97       |
| 107) | Chrysene                  | 11.576 | 228  | 873176   | 50.000 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.709 | 149  | 728010   | 50.000 | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.636 | 149  | 1242134  | 50.000 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 13.011 | 252  | 829853   | 50.000 | ug/ml  | 99       |
| 111) | Benzo(k)fluoranthene      | 13.053 | 252  | 883139   | 50.000 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.474 | 252  | 779903   | 50.000 | ug/ml  | 98       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.119 | 276  | 763057   | 50.000 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.170 | 278  | 771294   | 50.000 | ug/ml  | 99       |
| 116) | Benzo(ghi)perylene        | 15.486 | 276  | 832525   | 50.000 | ug/ml  | 95       |

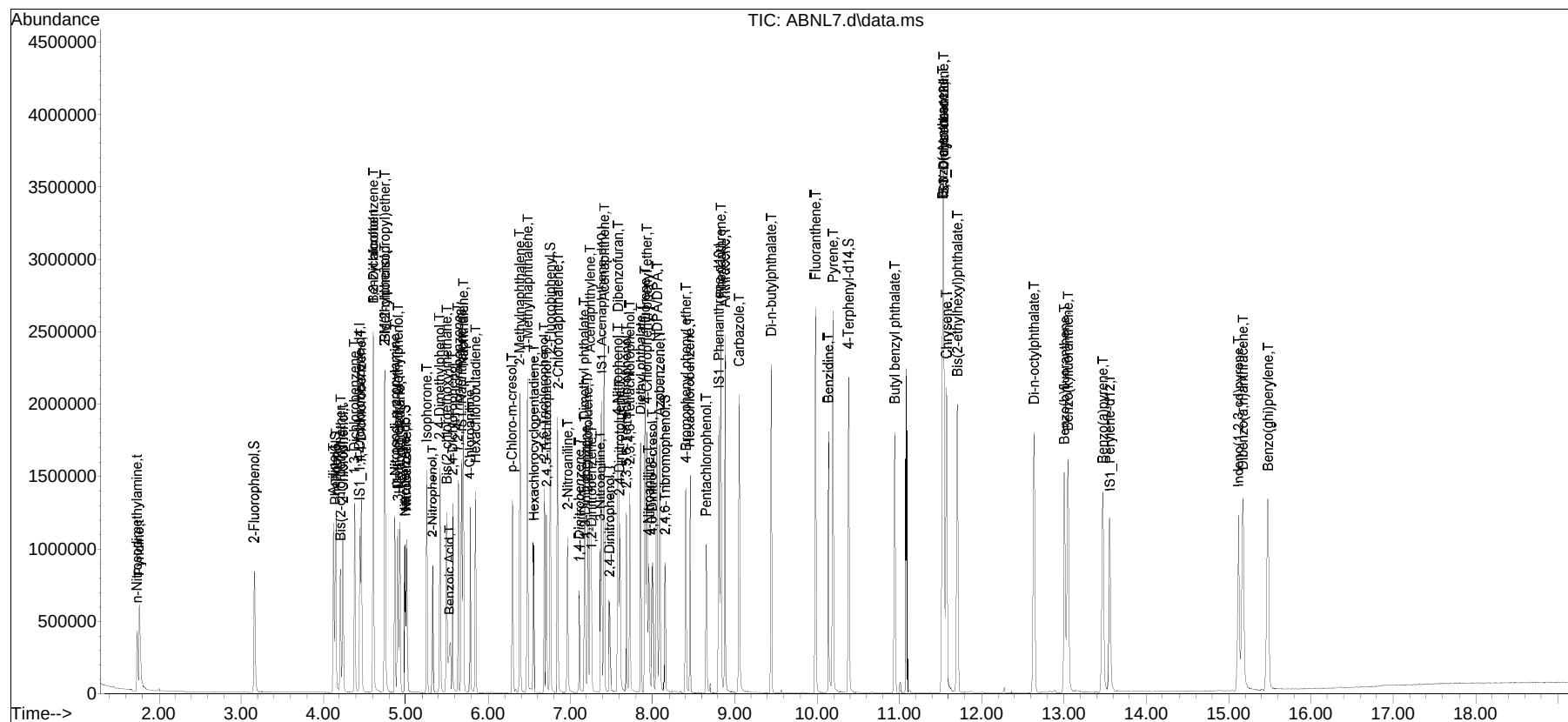
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL7.d  
Acq On    : 1 Dec 2019 12:43 pm  
Operator  : SV103:als  
Sample    : IL4,32,,ABNL50 Lot#8524  
Misc      : WG1316163,,  
ALS Vial  : 4 Sample Multiplier: 1
```

Quant Time: Dec 02 13:56:52 2019  
Quant Method : I:\8270\SV103\191201ical\F5191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 13:56:18 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\SV103\191201ical\ | QMethod    | : FS191201SV103.m   |
| Data File  | : ABNL7.d                   | Operator   | : SV103:als         |
| Date Inj'd | : 12/1/2019 12:43 pm        | Instrument | : SV103             |
| Sample     | : IL4, 32,, ABNL50 Lot#8524 | Quant Date | : 12/2/2019 1:56 pm |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL6.d  
 Acq On : 1 Dec 2019 1:07 pm  
 Operator : SV103:als  
 Sample : IL5,32,,ABNL20 Lot#8523  
 Misc : WG1316163,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 15:37:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 145756     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = | 95.55% |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 596215     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = | 95.69% |        |          |
| 63) IS1_Acenaphthene-d10      | 7.385          | 164  | 337296     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = | 94.93% |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 652746     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = | 97.87% |        |          |
| 104) IS1_Chrysene-d12         | 11.542         | 240  | 577624     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = | 99.47% |        |          |
| 113) IS1_Perylene-d12         | 13.559         | 264  | 626662     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = | 99.68% |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 4) 2-Fluorophenol             | 3.165          | 112  | 82426      | 19.452 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 38.90% |        |          |
| 7) Phenol-d6                  | 4.145          | 99   | 105136     | 19.395 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 38.79% |        |          |
| 19) Nitrobenzene-d5           | 4.995          | 82   | 94836      | 19.643 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 78.57% |        |          |
| 46) 2-Fluorobiphenyl          | 6.757          | 172  | 219620     | 19.514 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 78.06% |        |          |
| 79) 2,4,6-Tribromophenol      | 8.152          | 330  | 30381      | 19.626 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 39.25% |        |          |
| 96) 4-Terphenyl-d14           | 10.382         | 244  | 235359     | 19.341 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 77.36% |        |          |
| Target Compounds              |                |      |            |        |        |          |
|                               |                |      |            |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.747          | 74   | 52559      | 18.893 | ug/ml  | 93       |
| 3) Pyridine                   | 1.778          | 79   | 87583      | 19.739 | ug/ml  | 100      |
| 5) Aniline                    | 4.128          | 93   | 135518     | 19.567 | ug/ml  | 91       |
| 6) 2-Chlorophenol             | 4.242          | 128  | 96184      | 19.705 | ug/ml  | 95       |
| 8) Phenol                     | 4.160          | 94   | 111264     | 19.490 | ug/ml# | 89       |
| 9) Bis(2-chloroethyl)ether    | 4.214          | 93   | 84031      | 19.491 | ug/ml  | 97       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 105356     | 19.747 | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 108194     | 19.969 | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.609          | 146  | 106032     | 20.091 | ug/ml  | 96       |
| 13) Benzyl alcohol            | 4.609          | 79   | 71424      | 18.846 | ug/ml  | 94       |
| 14) Bis(2-chloroisopropyl)... | 4.753          | 45   | 183245     | 20.087 | ug/ml  | 93       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL6.d  
 Acq On : 1 Dec 2019 1:07 pm  
 Operator : SV103:als  
 Sample : IL5,32,,ABNL20 Lot#8523  
 Misc : WG1316163,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 15:37:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 15) 2-Methylphenol            | 4.751 | 108  | 84827    | 19.231 | ug/ml  | 98       |
| 16) Hexachloroethane          | 4.932 | 117  | 43202    | 20.192 | ug/ml  | 86       |
| 17) n-Nitrosodi-n-propylamine | 4.876 | 70   | 69863    | 19.858 | ug/ml  | 98       |
| 18) 3-Methylphenol/4-Methy... | 4.910 | 108  | 89900    | 19.404 | ug/ml  | 97       |
| 20) Nitrobenzene              | 5.012 | 77   | 93717    | 18.777 | ug/ml  | 96       |
| 21) Isophorone                | 5.256 | 82   | 185018   | 19.999 | ug/ml  | 97       |
| 22) 2-Nitrophenol             | 5.330 | 139  | 50126    | 19.004 | ug/ml  | 90       |
| 23) 2,4-Dimethylphenol        | 5.418 | 107  | 91003    | 19.601 | ug/ml  | 94       |
| 24) Bis(2-chloroethoxy)met... | 5.498 | 93   | 113562   | 19.595 | ug/ml  | 98       |
| 25) 2,4-Dichlorophenol        | 5.575 | 162  | 83578    | 19.406 | ug/ml  | 94       |
| 26) 1,2,4-Trichlorobenzene    | 5.643 | 180  | 90114    | 19.640 | ug/ml  | 96       |
| 36) Naphthalene               | 5.705 | 128  | 290060   | 19.887 | ug/ml  | 100      |
| 37) Benzoic Acid              | 5.515 | 105  | 58817    | 17.738 | ug/ml  | 98       |
| 38) 4-Chloroaniline           | 5.785 | 65   | 35134    | 19.939 | ug/ml  | 82       |
| 39) Hexachlorobutadiene       | 5.856 | 225  | 50921    | 19.791 | ug/ml  | 98       |
| 40) p-Chloro-m-cresol         | 6.293 | 107  | 80234    | 19.518 | ug/ml  | 89       |
| 41) 2-Methylnaphthalene       | 6.384 | 142  | 201504   | 19.900 | ug/ml  | 95       |
| 42) 1-Methylnaphthalene       | 6.478 | 115  | 62769    | 19.879 | ug/ml  | 79       |
| 43) Hexachlorocyclopentadiene | 6.552 | 237  | 45683    | 16.617 | ug/ml  | 94       |
| 44) 2,4,6-Trichlorophenol     | 6.680 | 196  | 59765    | 19.657 | ug/ml  | 96       |
| 45) 2,4,5-Trichlorophenol     | 6.714 | 196  | 63857    | 19.841 | ug/ml  | 97       |
| 47) 2-Chloronaphthalene       | 6.850 | 162  | 183599   | 19.737 | ug/ml  | 95       |
| 48) 2-Nitroaniline            | 6.970 | 138  | 60196    | 18.667 | ug/ml  | 89       |
| 49) 1,4-Dinitrobenzene        | 7.112 | 168  | 28353    | 19.451 | ug/ml# | 74       |
| 50) 1,3-Dinitrobenzene        | 7.186 | 168  | 30532    | 17.997 | ug/ml  | 82       |
| 51) Dimethyl phthalate        | 7.172 | 163  | 225224   | 20.060 | ug/ml  | 99       |
| 52) Acenaphthylene            | 7.245 | 152  | 310937   | 20.197 | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 7.214 | 165  | 51018    | 20.156 | ug/ml  | 85       |
| 54) 1,2-Dinitrobenzene        | 7.257 | 168  | 21392    | 19.866 | ug/ml  | 88       |
| 64) 3-Nitroaniline            | 7.368 | 138  | 51656    | 19.611 | ug/ml# | 94       |
| 65) Acenaphthene              | 7.416 | 154  | 184068   | 20.333 | ug/ml  | 99       |
| 66) 2,4-Dinitrophenol         | 7.478 | 184  | 24261    | 16.890 | ug/ml  | 87       |
| 67) Dibenzofuran              | 7.586 | 168  | 272636   | 20.142 | ug/ml# | 85       |
| 68) 2,4-Dinitrotoluene        | 7.603 | 165  | 64963    | 19.551 | ug/ml# | 76       |
| 69) 4-Nitrophenol             | 7.581 | 65   | 42550    | 22.017 | ug/ml# | 1        |
| 70) 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 51616    | 19.572 | ug/ml  | 98       |
| 71) 2,3,4,6-Tetrachlorophenol | 7.726 | 232  | 53814    | 19.877 | ug/ml  | 97       |
| 72) Diethyl phthalate         | 7.859 | 149  | 232034   | 20.053 | ug/ml  | 98       |
| 73) Fluorene                  | 7.916 | 166  | 223352   | 20.195 | ug/ml  | 98       |
| 74) 4-Chlorophenyl phenyl ... | 7.936 | 204  | 105318   | 20.369 | ug/ml# | 87       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL6.d  
 Acq On : 1 Dec 2019 1:07 pm  
 Operator : SV103:als  
 Sample : IL5,32,,ABNL20 Lot#8523  
 Misc : WG1316163,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 15:37:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.953  | 138  | 50415    | 19.574 | ug/ml  | 87       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.998  | 198  | 36873    | 17.966 | ug/ml  | 85       |
| 77)  | NDPA/DPA                  | 8.055  | 169  | 189510   | 19.952 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.086  | 77   | 212378   | 19.796 | ug/ml  | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 8.402  | 248  | 57825    | 19.885 | ug/ml# | 88       |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 65856    | 20.003 | ug/ml  | 98       |
| 82)  | Pentachlorophenol         | 8.652  | 266  | 32451    | 18.442 | ug/ml  | 97       |
| 89)  | Phenanthrene              | 8.831  | 178  | 335200   | 19.827 | ug/ml  | 99       |
| 90)  | Anthracene                | 8.882  | 178  | 343293   | 19.559 | ug/ml  | 99       |
| 91)  | Carbazole                 | 9.055  | 167  | 314286   | 19.727 | ug/ml  | 100      |
| 92)  | Di-n-butylphthalate       | 9.445  | 149  | 400483   | 19.421 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.979  | 202  | 377287   | 19.996 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.135 | 184  | 249180   | 18.869 | ug/ml  | 97       |
| 95)  | Pyrene                    | 10.189 | 202  | 391525   | 19.928 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.939 | 149  | 174005   | 18.954 | ug/ml  | 90       |
| 105) | Benzo(a)anthracene        | 11.527 | 228  | 344308   | 19.602 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.539 | 252  | 135613   | 19.121 | ug/ml  | 97       |
| 107) | Chrysene                  | 11.573 | 228  | 343127   | 19.754 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.704 | 149  | 263413   | 18.188 | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.633 | 149  | 443953   | 17.966 | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 13.008 | 252  | 326974   | 19.806 | ug/ml  | 98       |
| 111) | Benzo(k)fluoranthene      | 13.045 | 252  | 339475   | 19.323 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.468 | 252  | 306506   | 19.756 | ug/ml  | 99       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.110 | 276  | 291299   | 19.149 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.164 | 278  | 302841   | 19.695 | ug/ml  | 99       |
| 116) | Benzo(ghi)perylene        | 15.474 | 276  | 324837   | 19.571 | ug/ml  | 95       |

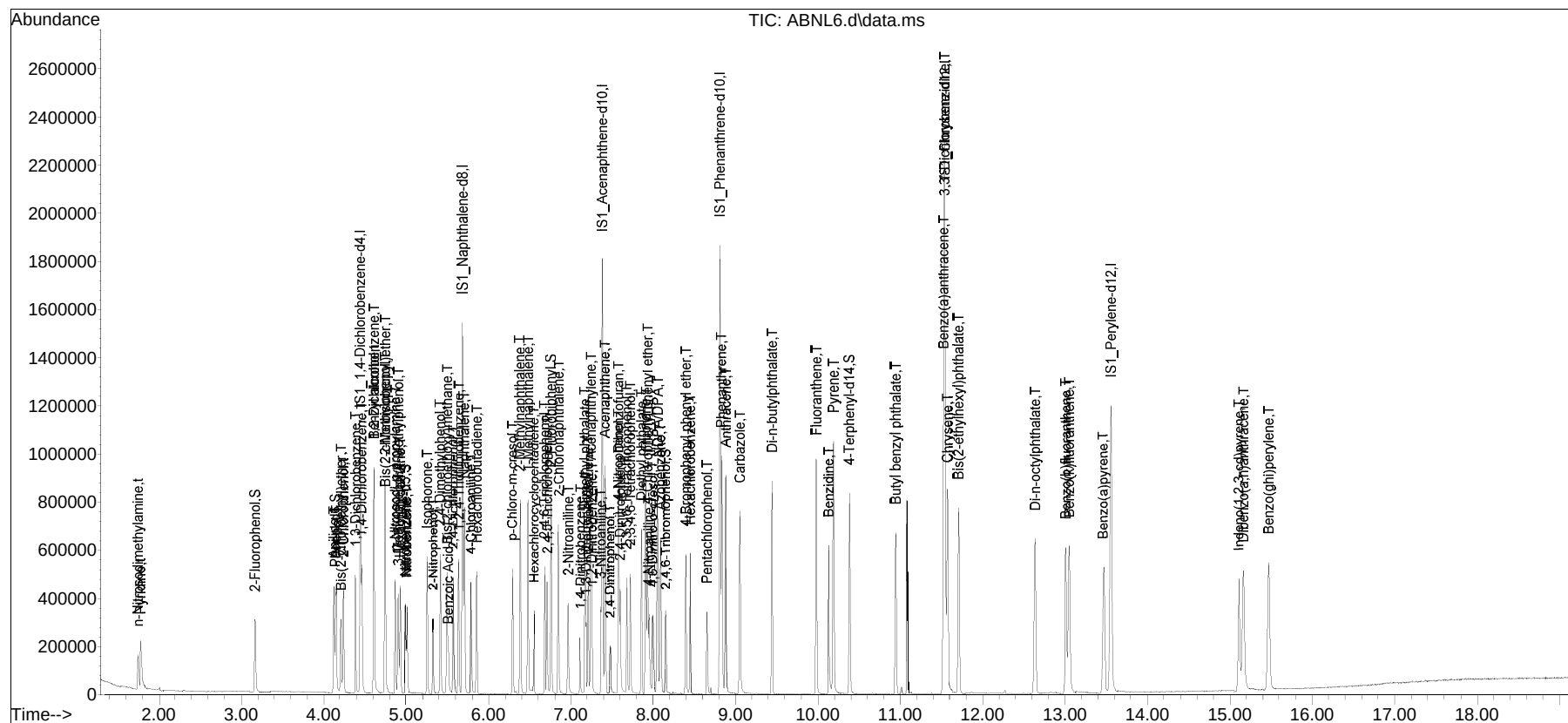
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL6.d  
 Acq On : 1 Dec 2019 1:07 pm  
 Operator : SV103:als  
 Sample : IL5,32,,ABNL20 Lot#8523  
 Misc : WG1316163,,  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 15:37:56 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•





# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL6.d Operator : SV103:als  
Date Inj'd : 12/1/2019 1:07 pm Instrument : SV103  
Sample : IL5,32,,ABNL20 Lot#8523 Quant Date : 12/2/2019 2:08 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL5.d  
 Acq On : 1 Dec 2019 1:31 pm  
 Operator : SV103:als  
 Sample : IL6,32,,ABNL10 Lot#8522  
 Misc : WG1316163,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 15:36:02 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 159622             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = 104.64% |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 649366             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 104.22% |        |        |          |
| 63) IS1_Acenaphthene-d10      | 7.385          | 164  | 377972             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 106.38% |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 744694             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 111.65% |        |        |          |
| 104) IS1_Chrysene-d12         | 11.542         | 240  | 643342             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 110.78% |        |        |          |
| 113) IS1_Perylene-d12         | 13.562         | 264  | 709390             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = 112.84% |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 4) 2-Fluorophenol             | 3.162          | 112  | 46099              | 9.934  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 19.87%  |        |        |          |
| 7) Phenol-d6                  | 4.145          | 99   | 57561              | 9.696  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 19.39%  |        |        |          |
| 19) Nitrobenzene-d5           | 4.995          | 82   | 52571              | 9.943  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 39.77%  |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.757          | 172  | 127880             | 10.433 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 41.73%  |        |        |          |
| 79) 2,4,6-Tribromophenol      | 8.152          | 330  | 16705              | 9.630  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 19.26%  |        |        |          |
| 96) 4-Terphenyl-d14           | 10.382         | 244  | 140922             | 10.151 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 40.60%  |        |        |          |
| Target Compounds              |                |      |                    |        |        |          |
|                               |                |      |                    |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.747          | 74   | 28965              | 9.508  | ug/ml# | 88       |
| 3) Pyridine                   | 1.778          | 79   | 49171              | 10.119 | ug/ml  | 100      |
| 5) Aniline                    | 4.128          | 93   | 74664              | 9.844  | ug/ml  | 91       |
| 6) 2-Chlorophenol             | 4.242          | 128  | 53460              | 10.001 | ug/ml  | 95       |
| 8) Phenol                     | 4.159          | 94   | 61486              | 9.835  | ug/ml# | 89       |
| 9) Bis(2-chloroethyl)ether    | 4.213          | 93   | 48830              | 10.342 | ug/ml  | 97       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 59380              | 10.163 | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 61403              | 10.348 | ug/ml  | 97       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 59807              | 10.348 | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.608          | 79   | 39603              | 9.542  | ug/ml  | 97       |
| 14) Bis(2-chloroisopropyl)... | 4.750          | 45   | 104567             | 10.467 | ug/ml  | 93       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL5.d  
 Acq On : 1 Dec 2019 1:31 pm  
 Operator : SV103:als  
 Sample : IL6,32,,ABNL10 Lot#8522  
 Misc : WG1316163,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 15:36:02 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.750 | 108  | 49529    | 10.253 | ug/ml  | 96       |
| 16) | Hexachloroethane          | 4.932 | 117  | 23841    | 10.175 | ug/ml  | 84       |
| 17) | n-Nitrosodi-n-propylamine | 4.876 | 70   | 39513    | 10.255 | ug/ml  | 96       |
| 18) | 3-Methylphenol/4-Methy... | 4.910 | 108  | 50807    | 10.013 | ug/ml  | 95       |
| 20) | Nitrobenzene              | 5.015 | 77   | 53275    | 9.747  | ug/ml  | 95       |
| 21) | Isophorone                | 5.253 | 82   | 105069   | 10.370 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.330 | 139  | 28137    | 9.741  | ug/ml  | 90       |
| 23) | 2,4-Dimethylphenol        | 5.418 | 107  | 50408    | 9.914  | ug/ml  | 94       |
| 24) | Bis(2-chloroethoxy)met... | 5.498 | 93   | 63749    | 10.044 | ug/ml  | 99       |
| 25) | 2,4-Dichlorophenol        | 5.574 | 162  | 46917    | 9.947  | ug/ml  | 95       |
| 26) | 1,2,4-Trichlorobenzene    | 5.643 | 180  | 51093    | 10.168 | ug/ml  | 96       |
| 36) | Naphthalene               | 5.705 | 128  | 165410   | 10.413 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.501 | 105  | 29554    | 8.183  | ug/ml  | 91       |
| 38) | 4-Chloroaniline           | 5.785 | 65   | 19409    | 10.113 | ug/ml  | 82       |
| 39) | Hexachlorobutadiene       | 5.856 | 225  | 28522    | 10.178 | ug/ml  | 97       |
| 40) | p-Chloro-m-cresol         | 6.293 | 107  | 45977    | 10.269 | ug/ml  | 92       |
| 41) | 2-Methylnaphthalene       | 6.384 | 142  | 114876   | 10.416 | ug/ml  | 95       |
| 42) | 1-Methylnaphthalene       | 6.475 | 115  | 36336    | 10.566 | ug/ml  | 80       |
| 43) | Hexachlorocyclopentadiene | 6.552 | 237  | 23342    | 7.796  | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 6.680 | 196  | 33578    | 10.140 | ug/ml  | 96       |
| 45) | 2,4,5-Trichlorophenol     | 6.714 | 196  | 36240    | 10.338 | ug/ml  | 99       |
| 47) | 2-Chloronaphthalene       | 6.850 | 162  | 103706   | 10.236 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.967 | 138  | 33809    | 9.626  | ug/ml  | 92       |
| 49) | 1,4-Dinitrobenzene        | 7.112 | 168  | 15165    | 9.552  | ug/ml  | 80       |
| 50) | 1,3-Dinitrobenzene        | 7.186 | 168  | 17075M4  | 9.241  | ug/ml  |          |
| 51) | Dimethyl phthalate        | 7.169 | 163  | 134738   | 11.018 | ug/ml  | 99       |
| 52) | Acenaphthylene            | 7.245 | 152  | 180407   | 10.759 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 7.214 | 165  | 28697    | 10.409 | ug/ml  | 86       |
| 54) | 1,2-Dinitrobenzene        | 7.257 | 168  | 12242    | 10.438 | ug/ml  | 85       |
| 64) | 3-Nitroaniline            | 7.367 | 138  | 29183    | 9.887  | ug/ml# | 94       |
| 65) | Acenaphthene              | 7.416 | 154  | 105500   | 10.400 | ug/ml  | 98       |
| 66) | 2,4-Dinitrophenol         | 7.478 | 184  | 11710    | 7.275  | ug/ml# | 89       |
| 67) | Dibenzofuran              | 7.586 | 168  | 160473   | 10.580 | ug/ml  | 88       |
| 68) | 2,4-Dinitrotoluene        | 7.603 | 165  | 37996    | 10.205 | ug/ml# | 76       |
| 69) | 4-Nitrophenol             | 7.581 | 65   | 20051    | 9.259  | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 28855    | 9.764  | ug/ml  | 97       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.725 | 232  | 31545M4  | 10.398 | ug/ml  |          |
| 72) | Diethyl phthalate         | 7.856 | 149  | 138371   | 10.672 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.916 | 166  | 130698   | 10.546 | ug/ml  | 99       |
| 74) | 4-Chlorophenyl phenyl ... | 7.936 | 204  | 59922    | 10.342 | ug/ml  | 89       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL5.d  
 Acq On : 1 Dec 2019 1:31 pm  
 Operator : SV103:als  
 Sample : IL6,32,,ABNL10 Lot#8522  
 Misc : WG1316163,,  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 02 15:36:02 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.953  | 138  | 27651    | 9.580  | ug/ml  | 89       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.998  | 198  | 20937    | 9.103  | ug/ml# | 84       |
| 77)  | NDPA/DPA                  | 8.055  | 169  | 111178   | 10.445 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.086  | 77   | 122396   | 10.181 | ug/ml# | 94       |
| 80)  | 4-Bromophenyl phenyl e... | 8.402  | 248  | 32931    | 10.106 | ug/ml# | 89       |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 39694    | 10.759 | ug/ml  | 97       |
| 82)  | Pentachlorophenol         | 8.652  | 266  | 16342    | 8.288  | ug/ml  | 96       |
| 89)  | Phenanthrene              | 8.831  | 178  | 197040   | 10.216 | ug/ml  | 99       |
| 90)  | Anthracene                | 8.882  | 178  | 196274   | 9.802  | ug/ml  | 99       |
| 91)  | Carbazole                 | 9.055  | 167  | 181093   | 9.964  | ug/ml  | 100      |
| 92)  | Di-n-butylphthalate       | 9.445  | 149  | 231505   | 9.840  | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.976  | 202  | 221260   | 10.279 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.135 | 184  | 142100   | 9.432  | ug/ml  | 97       |
| 95)  | Pyrene                    | 10.186 | 202  | 231635   | 10.334 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.939 | 149  | 101449   | 9.686  | ug/ml  | 90       |
| 105) | Benzo(a)anthracene        | 11.530 | 228  | 201966   | 10.324 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.539 | 252  | 78386    | 9.923  | ug/ml  | 98       |
| 107) | Chrysene                  | 11.570 | 228  | 202940   | 10.490 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.706 | 149  | 149521   | 9.270  | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.633 | 149  | 253308   | 9.204  | ug/ml  | 100      |
| 110) | Benzo(b)fluoranthene      | 13.005 | 252  | 190202   | 10.345 | ug/ml  | 99       |
| 111) | Benzo(k)fluoranthene      | 13.047 | 252  | 189948   | 9.707  | ug/ml  | 98       |
| 112) | Benzo(a)pyrene            | 13.468 | 252  | 171034   | 9.898  | ug/ml  | 98       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.110 | 276  | 175035   | 10.164 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.164 | 278  | 174218   | 10.009 | ug/ml  | 99       |
| 116) | Benzo(ghi)perylene        | 15.471 | 276  | 190844   | 10.157 | ug/ml  | 95       |

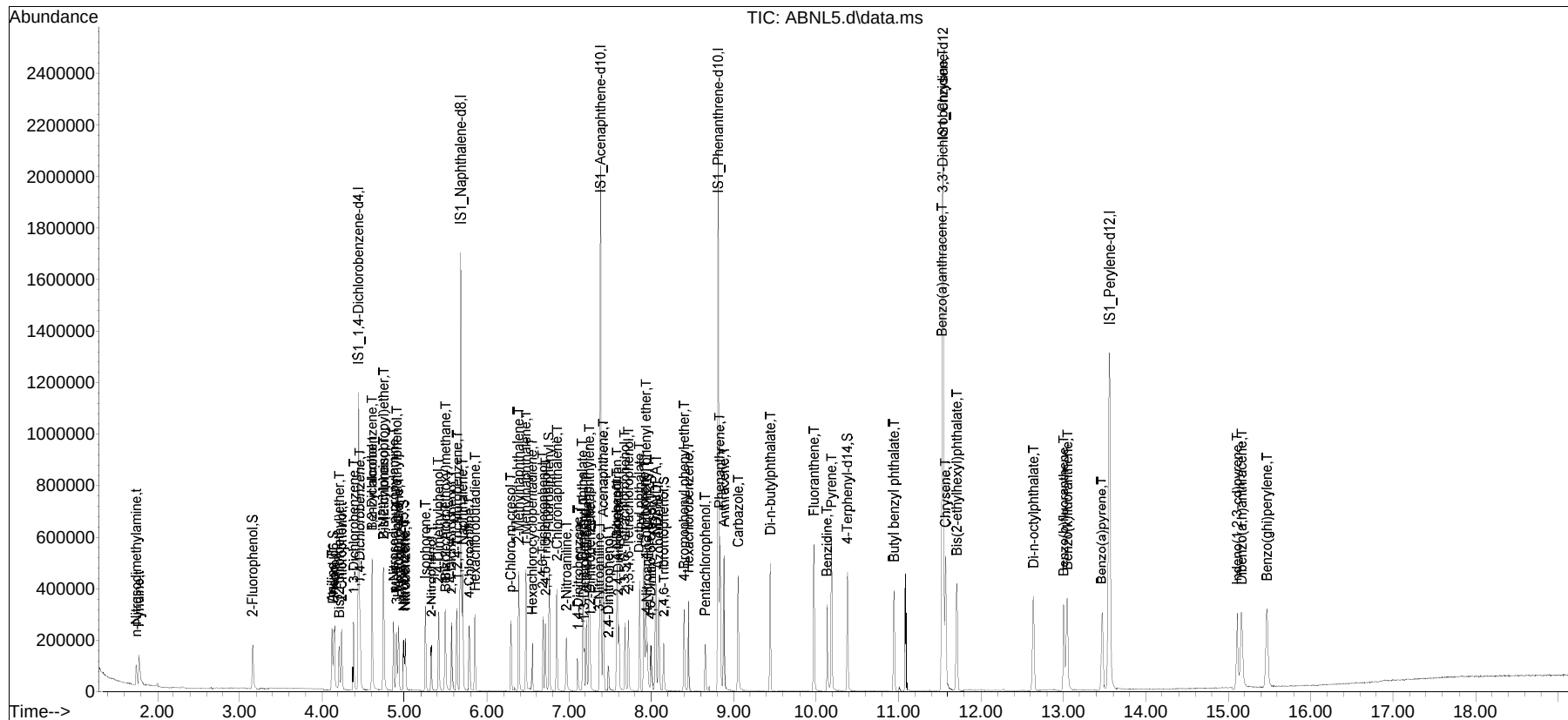
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : I:\8270\SV103\191201ical\
Data File  : ABNL5.d
Acq On     : 1 Dec 2019   1:31 pm
Operator   : SV103:als
Sample     : IL6,32,,ABNL10 Lot#8522
Misc       : WG1316163,,
ALS Vial   : 6      Sample Multiplier: 1
```

Quant Time: Dec 02 15:36:02 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 14:07:20 2019  
Response via : Initial Calibration

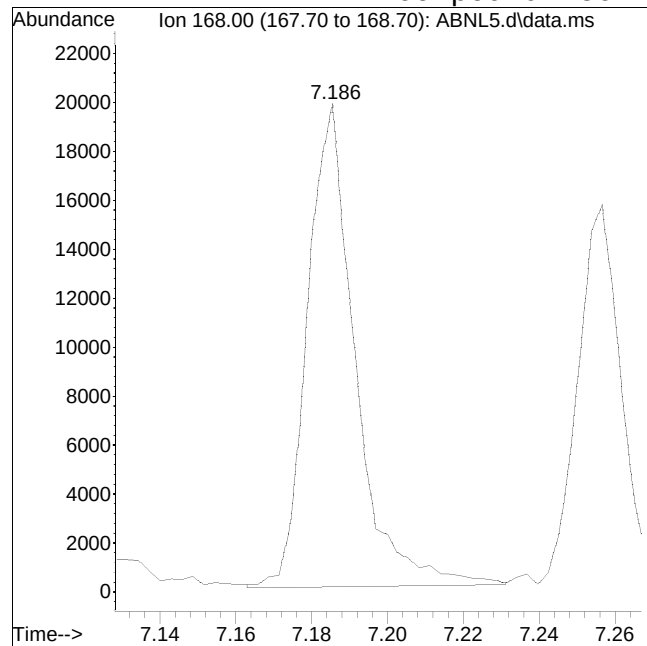
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

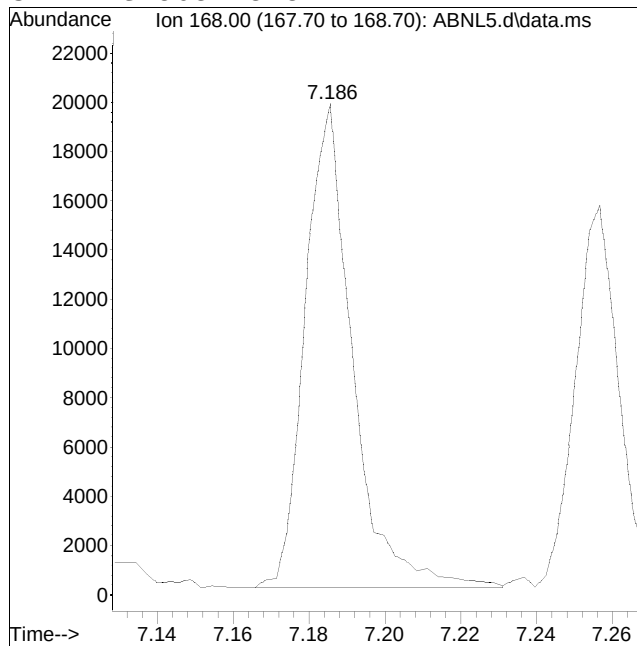
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL5.d Operator : SV103:als  
Date Inj'd : 12/1/2019 1:31 pm Instrument : SV103  
Sample : IL6,32,,ABNL10 Lot#8522 Quant Date : 12/2/2019 2:08 pm

## Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 17320

M4 = Poor automated baseline construction.

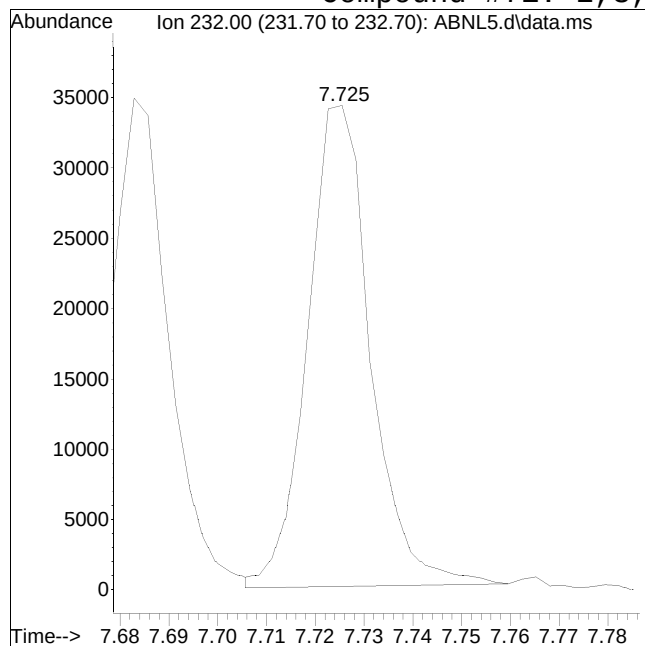


Manual Peak Response = 17075 M4

# Manual Integration Report

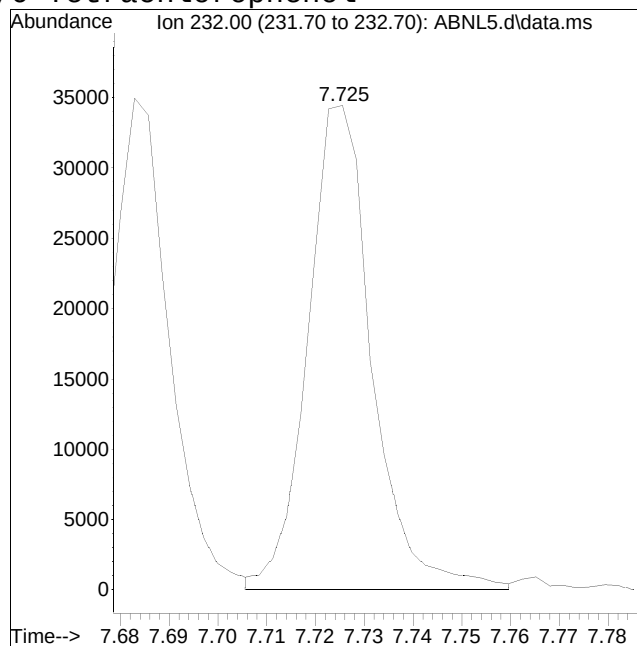
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL5.d Operator : SV103:als  
Date Inj'd : 12/1/2019 1:31 pm Instrument : SV103  
Sample : IL6,32,,ABNL10 Lot#8522 Quant Date : 12/2/2019 2:08 pm

## Compound #71: 2,3,4,6-Tetrachlorophenol



Original Peak Response = 30497

M4 = Poor automated baseline construction.



Manual Peak Response = 31545 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL4.d  
 Acq On : 1 Dec 2019 1:56 pm  
 Operator : SV103:als  
 Sample : IL7,32,,ABNL5 Lot#8521  
 Misc : WG1316163,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 03 16:57:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 16:57:12 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 148500             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = 97.35%  |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 613329             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 98.43%  |        |        |          |
| 63) IS1_Acenaphthene-d10      | 7.384          | 164  | 356103             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 100.23% |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 683167             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 102.43% |        |        |          |
| 104) IS1_Chrysene-d12         | 11.539         | 240  | 601111             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 103.51% |        |        |          |
| 113) IS1_Perylene-d12         | 13.562         | 264  | 657326             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = 104.56% |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 4) 2-Fluorophenol             | 3.165          | 112  | 21217              | 5.318  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 10.64%# |        |        |          |
| 7) Phenol-d6                  | 4.148          | 99   | 25888              | 5.174  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 10.35%# |        |        |          |
| 19) Nitrobenzene-d5           | 4.995          | 82   | 24277              | 5.344  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 21.38%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.756          | 172  | 58593              | 5.391  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 21.56%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 8.149          | 330  | 8131               | 5.008  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 10.02%# |        |        |          |
| 96) 4-Terphenyl-d14           | 10.382         | 244  | 63012              | 5.330  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 21.32%# |        |        |          |
| Target Compounds              |                |      |                    |        |        |          |
|                               |                |      |                    |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.753          | 74   | 13107              | 4.831  | ug/ml  | 89       |
| 3) Pyridine                   | 1.790          | 79   | 22349              | 5.091  | ug/ml  | 90       |
| 5) Aniline                    | 4.128          | 93   | 33793              | 4.880  | ug/ml  | 92       |
| 6) 2-Chlorophenol             | 4.242          | 128  | 23924              | 5.194  | ug/ml  | 97       |
| 8) Phenol                     | 4.159          | 94   | 27977              | 4.975  | ug/ml# | 86       |
| 9) Bis(2-chloroethyl)ether    | 4.213          | 93   | 21853              | 5.259  | ug/ml  | 99       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 27912              | 5.148  | ug/ml  | 96       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 28669              | 5.161  | ug/ml  | 99       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 27510              | 5.108  | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.611          | 79   | 16428              | 4.535  | ug/ml  | 91       |
| 14) Bis(2-chloroisopropyl)... | 4.753          | 45   | 48677              | 5.238  | ug/ml  | 94       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL4.d  
 Acq On : 1 Dec 2019 1:56 pm  
 Operator : SV103:als  
 Sample : IL7,32,,ABNL5 Lot#8521  
 Misc : WG1316163,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 03 16:57:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 16:57:12 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|-------|--------|----------|
| 15) | 2-Methylphenol            | 4.750 | 108  | 22129    | 5.043 | ug/ml  | 96       |
| 16) | Hexachloroethane          | 4.932 | 117  | 11805    | 5.312 | ug/ml  | 89       |
| 17) | n-Nitrosodi-n-propylamine | 4.878 | 70   | 18062    | 5.311 | ug/ml  | 96       |
| 18) | 3-Methylphenol/4-Methy... | 4.910 | 108  | 22280    | 4.840 | ug/ml  | 99       |
| 20) | Nitrobenzene              | 5.015 | 77   | 25128    | 5.095 | ug/ml  | 98       |
| 21) | Isophorone                | 5.256 | 82   | 48031    | 5.299 | ug/ml  | 99       |
| 22) | 2-Nitrophenol             | 5.330 | 139  | 12408    | 4.720 | ug/ml# | 93       |
| 23) | 2,4-Dimethylphenol        | 5.415 | 107  | 22759    | 4.962 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.498 | 93   | 29801    | 5.384 | ug/ml  | 99       |
| 25) | 2,4-Dichlorophenol        | 5.574 | 162  | 20991    | 4.892 | ug/ml  | 94       |
| 26) | 1,2,4-Trichlorobenzene    | 5.643 | 180  | 23952    | 5.117 | ug/ml  | 97       |
| 36) | Naphthalene               | 5.705 | 128  | 77246    | 5.154 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 5.492 | 105  | 11840    | 3.514 | ug/ml  | 96       |
| 38) | 4-Chloroaniline           | 5.788 | 65   | 8748     | 4.858 | ug/ml# | 86       |
| 39) | Hexachlorobutadiene       | 5.856 | 225  | 13686    | 5.367 | ug/ml  | 98       |
| 40) | p-Chloro-m-cresol         | 6.296 | 107  | 19563    | 4.728 | ug/ml  | 86       |
| 41) | 2-Methylnaphthalene       | 6.384 | 142  | 51600    | 4.966 | ug/ml  | 98       |
| 42) | 1-Methylnaphthalene       | 6.478 | 115  | 16805    | 5.102 | ug/ml  | 78       |
| 43) | Hexachlorocyclopentadiene | 6.555 | 237  | 8578     | 3.068 | ug/ml  | 93       |
| 44) | 2,4,6-Trichlorophenol     | 6.680 | 196  | 14880    | 4.799 | ug/ml  | 98       |
| 45) | 2,4,5-Trichlorophenol     | 6.714 | 196  | 16252M4  | 4.913 | ug/ml  |          |
| 47) | 2-Chloronaphthalene       | 6.850 | 162  | 48531    | 5.075 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.970 | 138  | 14303    | 4.429 | ug/ml  | 94       |
| 49) | 1,4-Dinitrobenzene        | 7.112 | 168  | 6036     | 3.961 | ug/ml  | 83       |
| 50) | 1,3-Dinitrobenzene        | 7.183 | 168  | 7780     | 4.564 | ug/ml  | 77       |
| 51) | Dimethyl phthalate        | 7.168 | 163  | 60499    | 5.137 | ug/ml  | 100      |
| 52) | Acenaphthylene            | 7.245 | 152  | 81942    | 5.092 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 7.214 | 165  | 13005    | 5.096 | ug/ml  | 86       |
| 54) | 1,2-Dinitrobenzene        | 7.257 | 168  | 5516     | 4.943 | ug/ml  | 100      |
| 64) | 3-Nitroaniline            | 7.367 | 138  | 12926    | 4.662 | ug/ml# | 84       |
| 65) | Acenaphthene              | 7.416 | 154  | 48616    | 5.039 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 7.478 | 184  | 3699     | 5.555 | ug/ml  | 93       |
| 67) | Dibenzofuran              | 7.586 | 168  | 71940    | 5.047 | ug/ml  | 87       |
| 68) | 2,4-Dinitrotoluene        | 7.603 | 165  | 16280    | 4.759 | ug/ml# | 70       |
| 69) | 4-Nitrophenol             | 7.580 | 65   | 8288     | 4.048 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 12599    | 4.608 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.725 | 232  | 13587    | 4.782 | ug/ml  | 98       |
| 72) | Diethyl phthalate         | 7.856 | 149  | 62579    | 5.123 | ug/ml  | 97       |
| 73) | Fluorene                  | 7.916 | 166  | 59105    | 5.055 | ug/ml  | 97       |
| 74) | 4-Chlorophenyl phenyl ... | 7.936 | 204  | 27982    | 5.096 | ug/ml# | 86       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL4.d  
 Acq On : 1 Dec 2019 1:56 pm  
 Operator : SV103:als  
 Sample : IL7,32,,ABNL5 Lot#8521  
 Misc : WG1316163,,  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 03 16:57:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 16:57:12 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.953  | 138  | 12182    | 4.525 | ug/ml  | 86       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.998  | 198  | 7941     | 3.870 | ug/ml  | 86       |
| 77)  | NDPA/DPA                  | 8.052  | 169  | 49273    | 5.264 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.083  | 77   | 55110    | 4.983 | ug/ml  | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 8.402  | 248  | 15450    | 5.069 | ug/ml# | 87       |
| 81)  | Hexachlorobenzene         | 8.450  | 284  | 18003    | 5.283 | ug/ml  | 97       |
| 82)  | Pentachlorophenol         | 8.655  | 266  | 6263     | 3.945 | ug/ml  | 100      |
| 89)  | Phenanthrene              | 8.831  | 178  | 91848    | 5.189 | ug/ml  | 100      |
| 90)  | Anthracene                | 8.879  | 178  | 89849    | 5.033 | ug/ml  | 100      |
| 91)  | Carbazole                 | 9.055  | 167  | 79768    | 4.945 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 9.444  | 149  | 104356   | 5.035 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.976  | 202  | 98190    | 5.043 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.135 | 184  | 61703    | 4.793 | ug/ml  | 97       |
| 95)  | Pyrene                    | 10.189 | 202  | 105072   | 5.132 | ug/ml  | 98       |
| 97)  | Butyl benzyl phthalate    | 10.939 | 149  | 44552    | 4.844 | ug/ml  | 90       |
| 105) | Benzo(a)anthracene        | 11.527 | 228  | 93946    | 5.327 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 11.539 | 252  | 34606    | 5.163 | ug/ml  | 97       |
| 107) | Chrysene                  | 11.570 | 228  | 93288    | 5.158 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.706 | 149  | 66246    | 4.894 | ug/ml  | 98       |
| 109) | Di-n-octylphthalate       | 12.633 | 149  | 110856   | 4.711 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 13.005 | 252  | 84356    | 5.234 | ug/ml  | 99       |
| 111) | Benzo(k)fluoranthene      | 13.047 | 252  | 89773    | 5.352 | ug/ml  | 98       |
| 112) | Benzo(a)pyrene            | 13.468 | 252  | 78994    | 5.204 | ug/ml  | 99       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.110 | 276  | 76953    | 4.888 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.161 | 278  | 75266M4  | 4.961 | ug/ml  |          |
| 116) | Benzo(ghi)perylene        | 15.471 | 276  | 84953    | 4.941 | ug/ml  | 97       |

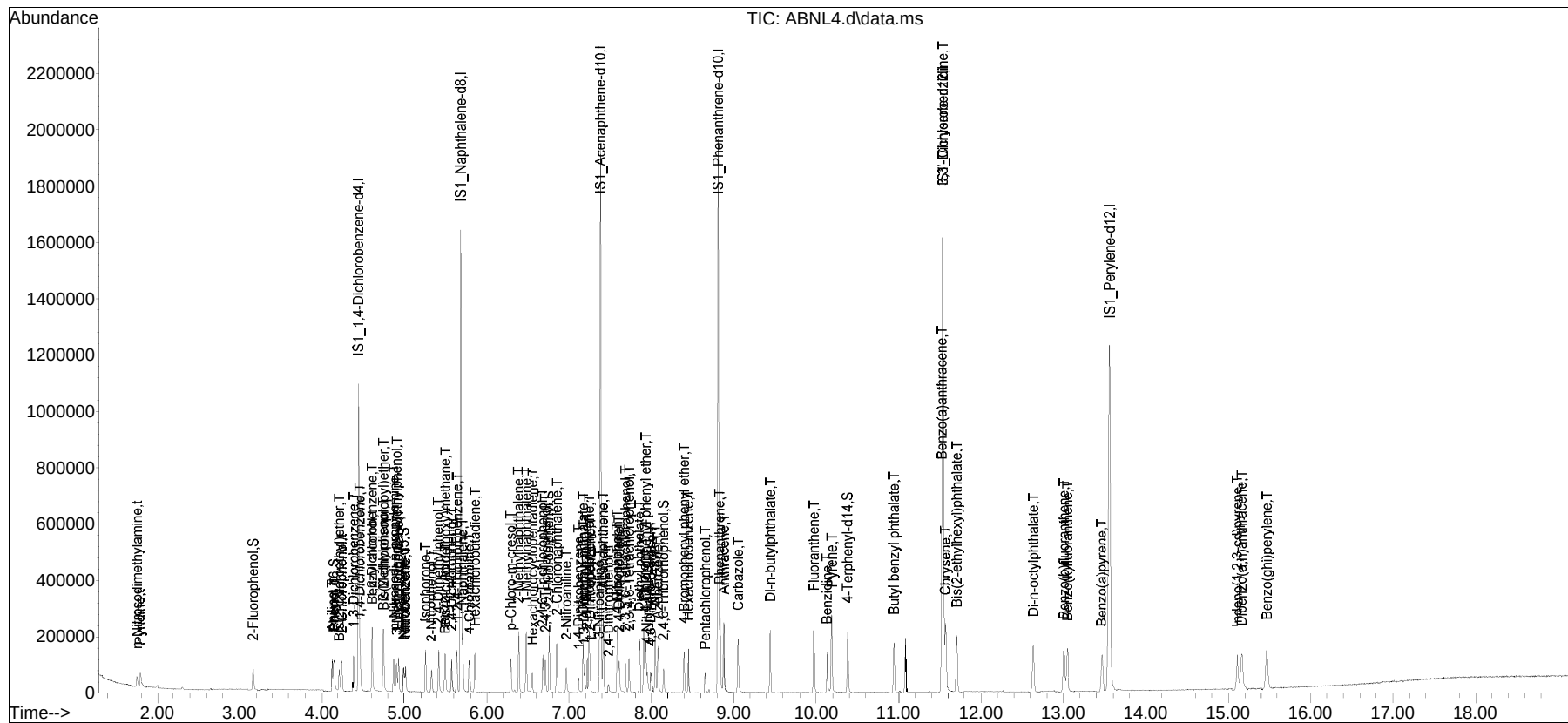
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path   : I:\8270\SV103\191201ical\  
Data File  : ABNL4.d  
Acq On     : 1 Dec 2019    1:56 pm  
Operator   : SV103:als  
Sample     : IL7,32,,ABNL5 Lot#8521  
Misc       : WG1316163,,  
ALS Vial   : 7      Sample Multiplier: 1
```

Quant Time: Dec 03 16:57:20 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Dec 03 16:57:12 2019  
Response via : Initial Calibration

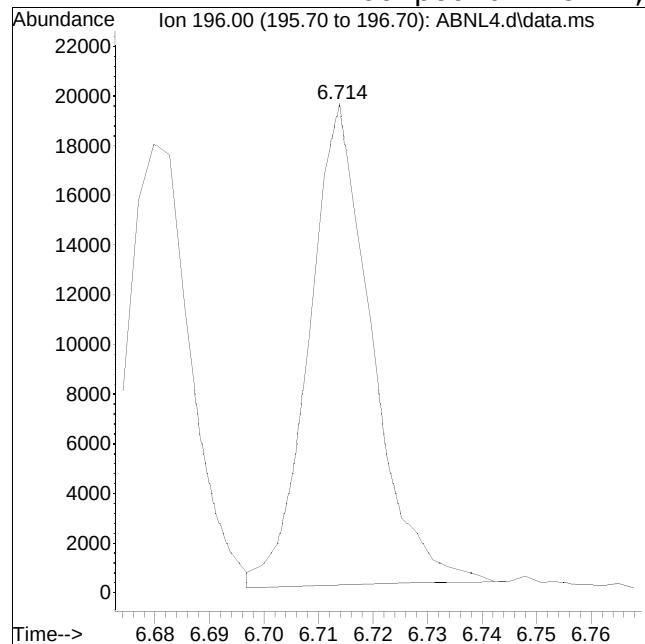
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

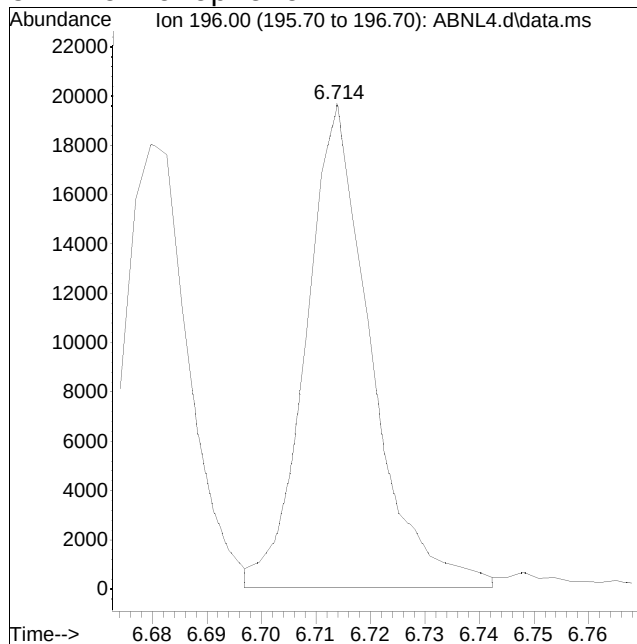
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL4.d Operator : SV103:als  
Date Inj'd : 12/1/2019 1:56 pm Instrument : SV103  
Sample : IL7,32,,ABNL5 Lot#8521 Quant Date : 12/3/2019 4:57 pm

## Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 15475

M4 = Poor automated baseline construction.

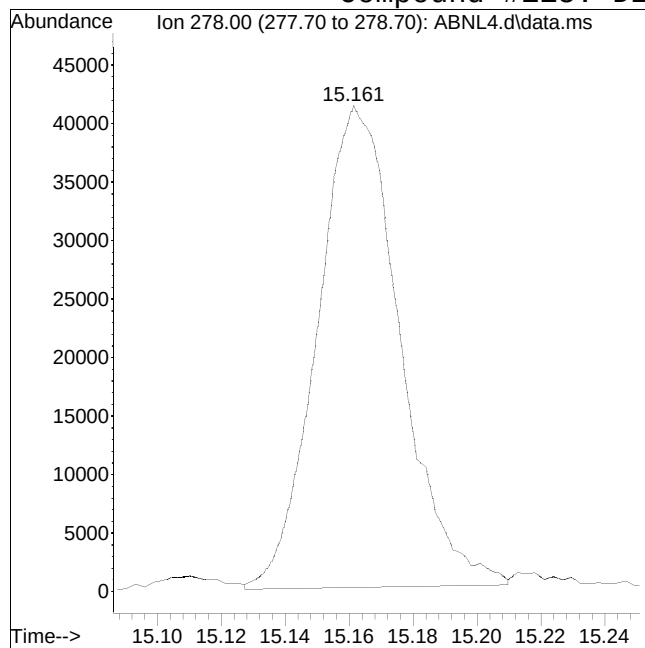


Manual Peak Response = 16252 M4

# Manual Integration Report

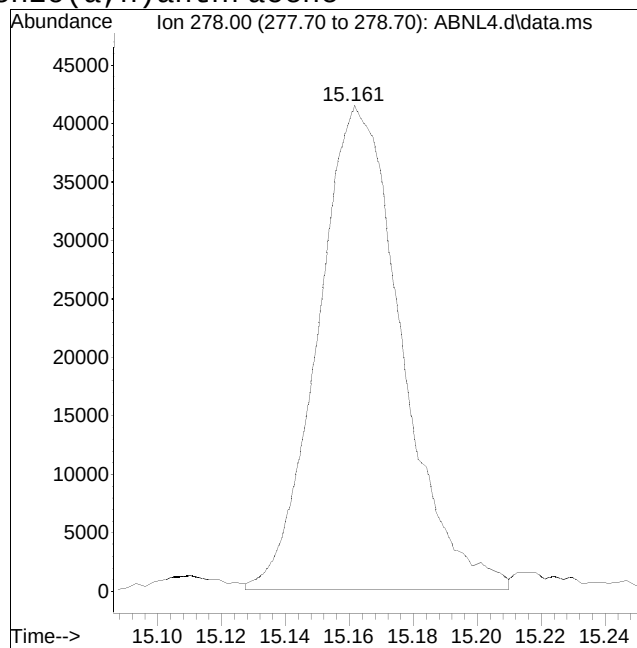
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL4.d Operator : SV103:als  
Date Inj'd : 12/1/2019 1:56 pm Instrument : SV103  
Sample : IL7,32,,ABNL5 Lot#8521 Quant Date : 12/3/2019 4:57 pm

## Compound #115: Dibenzo(a,h)anthracene



Original Peak Response = 73934

M4 = Poor automated baseline construction.



Manual Peak Response = 75266 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL3.d  
 Acq On : 1 Dec 2019 2:20 pm  
 Operator : SV103:als  
 Sample : IL8,32,,ABNL3 Lot#8520  
 Misc : WG1316163,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 03 11:10:47 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:10:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                         |                |      |                    |        |        |          |
| Internal Standards            |                |      |                    |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 131916             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = 86.48%  |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 545201             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 87.50%  |        |        |          |
| 63) IS1_Acenaphthene-d10      | 7.385          | 164  | 315185             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 88.71%  |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 613932             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 92.05%  |        |        |          |
| 104) IS1_Chrysene-d12         | 11.536         | 240  | 522135             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 89.91%  |        |        |          |
| 113) IS1_Perylene-d12         | 13.562         | 264  | 574629             | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = 91.40%  |        |        |          |
| System Monitoring Compounds   |                |      |                    |        |        |          |
| 4) 2-Fluorophenol             | 3.165          | 112  | 10862              | 3.065  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 6.13%#  |        |        |          |
| 7) Phenol-d6                  | 4.148          | 99   | 13535              | 3.045  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 6.09%#  |        |        |          |
| 19) Nitrobenzene-d5           | 4.998          | 82   | 12118              | 3.003  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 12.01%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.757          | 172  | 30931              | 3.201  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 12.80%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 8.152          | 330  | 4180               | 2.909  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 5.82%#  |        |        |          |
| 96) 4-Terphenyl-d14           | 10.382         | 244  | 33613              | 3.164  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 12.66%# |        |        |          |
| Target Compounds              |                |      |                    |        |        |          |
|                               |                |      |                    |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.756          | 74   | 7201               | 2.988  | ug/ml# | 90       |
| 3) Pyridine                   | 1.801          | 79   | 11377              | 2.917  | ug/ml  | 93       |
| 5) Aniline                    | 4.128          | 93   | 18815              | 3.059  | ug/ml  | 91       |
| 6) 2-Chlorophenol             | 4.242          | 128  | 12851              | 3.141  | ug/ml  | 96       |
| 8) Phenol                     | 4.160          | 94   | 14326              | 2.868  | ug/ml# | 88       |
| 9) Bis(2-chloroethyl)ether    | 4.216          | 93   | 11645              | 3.155  | ug/ml  | 94       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 14462              | 3.003  | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 14868              | 3.013  | ug/ml  | 95       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 14705              | 3.074  | ug/ml  | 94       |
| 13) Benzyl alcohol            | 4.611          | 79   | 8274               | 2.571  | ug/ml  | 90       |
| 14) Bis(2-chloroisopropyl)... | 4.753          | 45   | 25658              | 3.108  | ug/ml  | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL3.d  
 Acq On : 1 Dec 2019 2:20 pm  
 Operator : SV103:als  
 Sample : IL8,32,,ABNL3 Lot#8520  
 Misc : WG1316163,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 03 11:10:47 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:10:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 15) 2-Methylphenol            | 4.751 | 108  | 11295    | 2.898 | ug/ml  | 97       |
| 16) Hexachloroethane          | 4.935 | 117  | 6187     | 3.134 | ug/ml  | 87       |
| 17) n-Nitrosodi-n-propylamine | 4.878 | 70   | 9316     | 3.084 | ug/ml  | 97       |
| 18) 3-Methylphenol/4-Methy... | 4.910 | 108  | 11599    | 2.836 | ug/ml  | 94       |
| 20) Nitrobenzene              | 5.018 | 77   | 12408    | 2.832 | ug/ml  | 97       |
| 21) Isophorone                | 5.256 | 82   | 25555    | 3.174 | ug/ml  | 98       |
| 22) 2-Nitrophenol             | 5.333 | 139  | 6578     | 2.817 | ug/ml# | 89       |
| 23) 2,4-Dimethylphenol        | 5.418 | 107  | 11753    | 2.884 | ug/ml  | 92       |
| 24) Bis(2-chloroethoxy)met... | 5.498 | 93   | 15253    | 3.102 | ug/ml  | 97       |
| 25) 2,4-Dichlorophenol        | 5.575 | 162  | 11368    | 2.983 | ug/ml  | 94       |
| 26) 1,2,4-Trichlorobenzene    | 5.643 | 180  | 12596    | 3.029 | ug/ml  | 98       |
| 36) Naphthalene               | 5.705 | 128  | 40519    | 3.041 | ug/ml  | 100      |
| 37) Benzoic Acid              | 5.486 | 105  | 5078M1   | 1.695 | ug/ml  |          |
| 38) 4-Chloroaniline           | 5.788 | 65   | 4802     | 3.000 | ug/ml  | 93       |
| 39) Hexachlorobutadiene       | 5.853 | 225  | 7640     | 3.370 | ug/ml  | 94       |
| 40) p-Chloro-m-cresol         | 6.296 | 107  | 10562    | 2.872 | ug/ml  | 91       |
| 41) 2-Methylnaphthalene       | 6.384 | 142  | 27787    | 3.008 | ug/ml  | 96       |
| 42) 1-Methylnaphthalene       | 6.478 | 115  | 8941     | 3.054 | ug/ml  | 79       |
| 43) Hexachlorocyclopentadiene | 6.552 | 237  | 3666     | 1.475 | ug/ml# | 91       |
| 44) 2,4,6-Trichlorophenol     | 6.680 | 196  | 7962     | 2.889 | ug/ml  | 98       |
| 45) 2,4,5-Trichlorophenol     | 6.714 | 196  | 8315M4   | 2.828 | ug/ml  |          |
| 47) 2-Chloronaphthalene       | 6.850 | 162  | 25875    | 3.044 | ug/ml  | 94       |
| 48) 2-Nitroaniline            | 6.970 | 138  | 7431     | 2.588 | ug/ml  | 93       |
| 49) 1,4-Dinitrobenzene        | 7.112 | 168  | 3137     | 2.316 | ug/ml  | 83       |
| 50) 1,3-Dinitrobenzene        | 7.186 | 168  | 3727     | 2.460 | ug/ml# | 71       |
| 51) Dimethyl phthalate        | 7.169 | 163  | 31822    | 3.040 | ug/ml  | 100      |
| 52) Acenaphthylene            | 7.242 | 152  | 43252    | 3.024 | ug/ml  | 98       |
| 53) 2,6-Dinitrotoluene        | 7.214 | 165  | 6233     | 2.748 | ug/ml  | 95       |
| 54) 1,2-Dinitrobenzene        | 7.254 | 168  | 2882     | 2.905 | ug/ml  | 96       |
| 64) 3-Nitroaniline            | 7.367 | 138  | 6816     | 2.778 | ug/ml# | 73       |
| 65) Acenaphthene              | 7.416 | 154  | 26302    | 3.080 | ug/ml  | 97       |
| 66) 2,4-Dinitrophenol         | 7.481 | 184  | 1286     | 4.231 | ug/ml  | 90       |
| 67) Dibenzofuran              | 7.586 | 168  | 38460    | 3.049 | ug/ml  | 93       |
| 68) 2,4-Dinitrotoluene        | 7.606 | 165  | 8345     | 2.756 | ug/ml# | 72       |
| 69) 4-Nitrophenol             | 7.581 | 65   | 5490     | 3.029 | ug/ml# | 1        |
| 70) 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 6540     | 2.702 | ug/ml  | 96       |
| 71) 2,3,4,6-Tetrachlorophenol | 7.726 | 232  | 7311     | 2.907 | ug/ml  | 98       |
| 72) Diethyl phthalate         | 7.856 | 149  | 32550    | 3.010 | ug/ml  | 98       |
| 73) Fluorene                  | 7.916 | 166  | 30578    | 2.955 | ug/ml  | 97       |
| 74) 4-Chlorophenyl phenyl ... | 7.936 | 204  | 14471    | 2.978 | ug/ml# | 86       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL3.d  
 Acq On : 1 Dec 2019 2:20 pm  
 Operator : SV103:als  
 Sample : IL8,32,,ABNL3 Lot#8520  
 Misc : WG1316163,,  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 03 11:10:47 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:10:41 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.953  | 138  | 5709     | 2.396 | ug/ml  | 89       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.998  | 198  | 3749     | 2.065 | ug/ml  | 91       |
| 77)  | NDPA/DPA                  | 8.055  | 169  | 26030    | 3.142 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.086  | 77   | 27951    | 2.855 | ug/ml# | 91       |
| 80)  | 4-Bromophenyl phenyl e... | 8.405  | 248  | 7940     | 2.943 | ug/ml# | 86       |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 9678     | 3.209 | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 8.652  | 266  | 3050     | 2.170 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.831  | 178  | 49787    | 3.130 | ug/ml  | 98       |
| 90)  | Anthracene                | 8.879  | 178  | 46949    | 2.926 | ug/ml  | 97       |
| 91)  | Carbazole                 | 9.055  | 167  | 42053    | 2.901 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 9.445  | 149  | 55244    | 2.966 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 9.979  | 202  | 53005    | 3.030 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.135 | 184  | 30297    | 2.619 | ug/ml  | 99       |
| 95)  | Pyrene                    | 10.189 | 202  | 56534    | 3.073 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.942 | 149  | 22760    | 2.754 | ug/ml# | 91       |
| 105) | Benzo(a)anthracene        | 11.527 | 228  | 49627    | 3.240 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 11.539 | 252  | 18022    | 3.095 | ug/ml  | 96       |
| 107) | Chrysene                  | 11.570 | 228  | 49340    | 3.141 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.706 | 149  | 33819    | 2.876 | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.633 | 149  | 54864    | 2.684 | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 13.005 | 252  | 41937    | 2.996 | ug/ml  | 98       |
| 111) | Benzo(k)fluoranthene      | 13.045 | 252  | 45850    | 3.147 | ug/ml  | 97       |
| 112) | Benzo(a)pyrene            | 13.465 | 252  | 42535    | 3.226 | ug/ml  | 97       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.110 | 276  | 40372    | 2.933 | ug/mL  | 100      |
| 115) | Dibenzo(a,h)anthracene    | 15.164 | 278  | 39927    | 3.011 | ug/ml  | 98       |
| 116) | Benzo(ghi)perylene        | 15.466 | 276  | 45095    | 3.001 | ug/ml# | 86       |

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

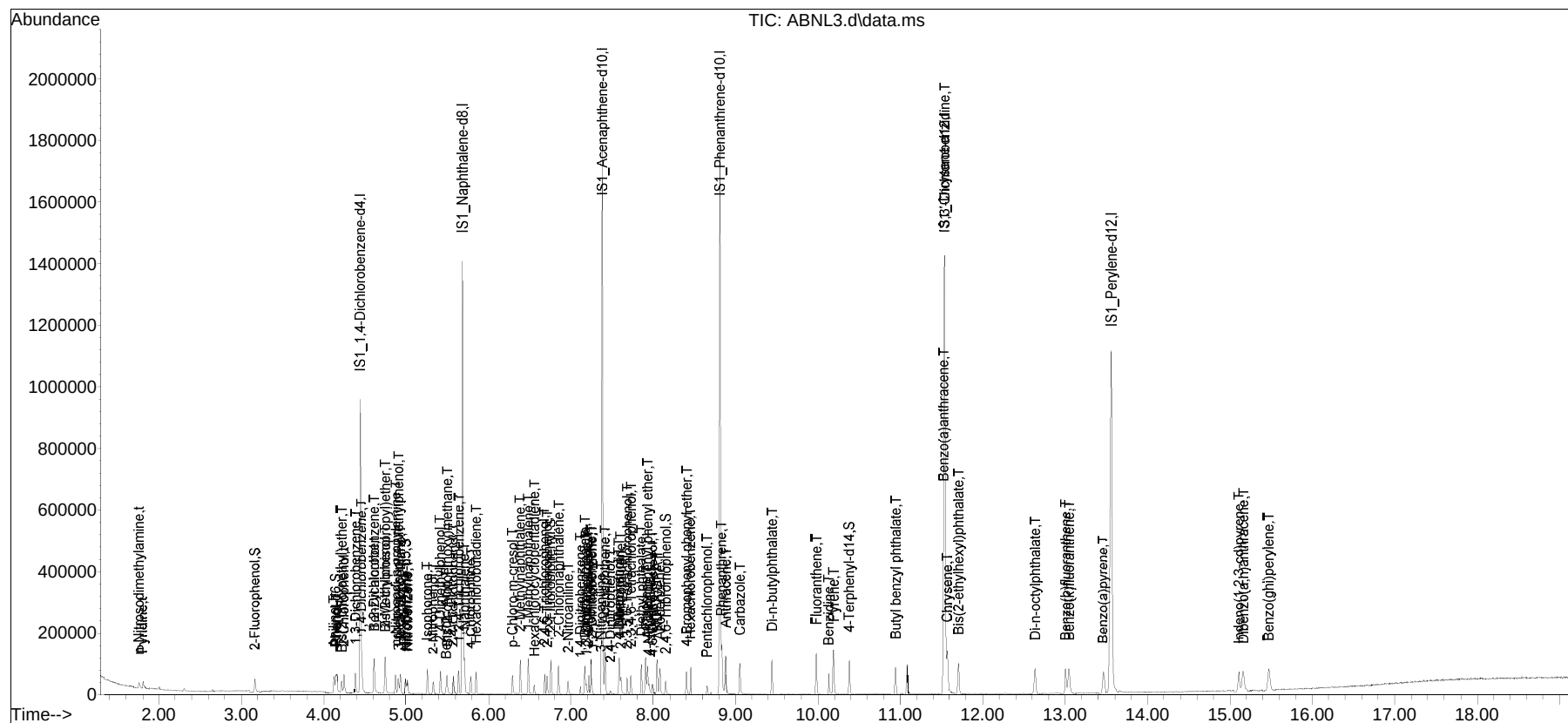


Quantitation Report (QT Reviewed)

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Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL3.d  
Acq On    : 1 Dec 2019    2:20 pm  
Operator  : SV103:als  
Sample    : IL8,32,,ABNL3 Lot#8520  
Misc      : WG1316163,,  
ALS Vial  : 8    Sample Multiplier: 1
```

Quant Time: Dec 03 11:10:47 2019  
Quant Method : I:\8270\SV103\191201ical\F5191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Dec 03 11:10:41 2019  
Response via : Initial Calibration

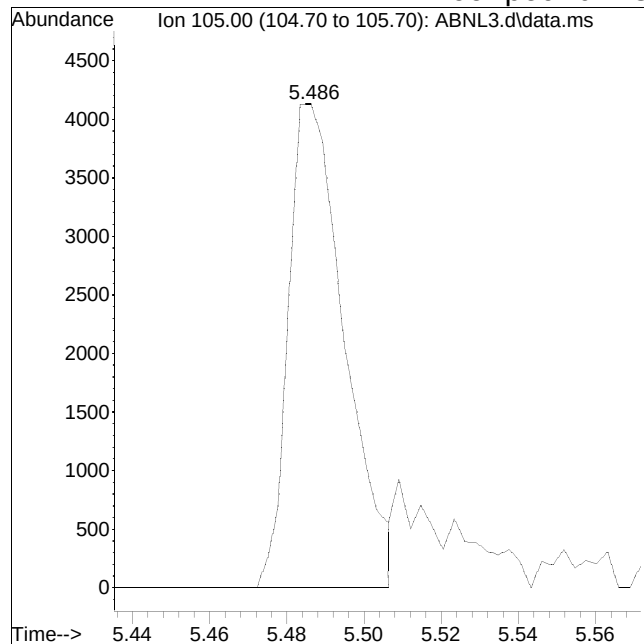
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

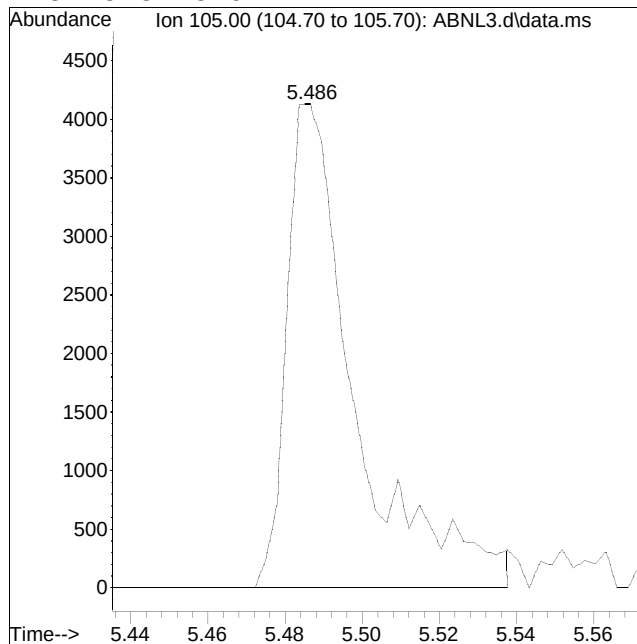
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL3.d Operator : SV103:als  
Date Inj'd : 12/1/2019 2:20 pm Instrument : SV103  
Sample : IL8,32,,ABNL3 Lot#8520 Quant Date : 12/3/2019 11:10 am

## Compound #37: Benzoic Acid



Original Peak Response = 4181

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

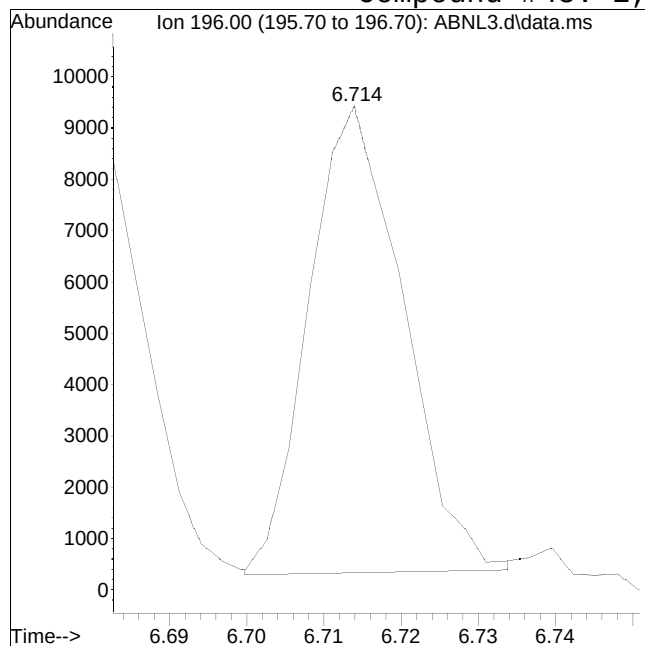


Manual Peak Response = 5078 M1

# Manual Integration Report

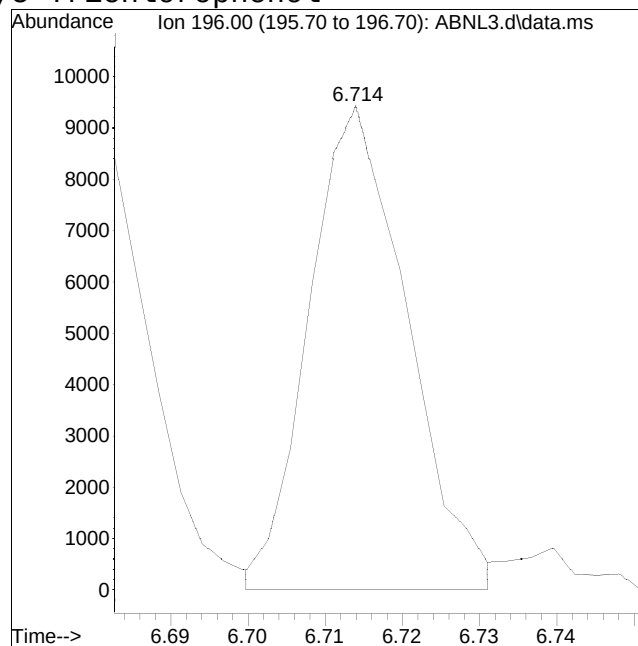
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL3.d Operator : SV103:als  
Date Inj'd : 12/1/2019 2:20 pm Instrument : SV103  
Sample : IL8,32,,ABNL3 Lot#8520 Quant Date : 12/3/2019 11:10 am

## Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 7743

M4 = Poor automated baseline construction.



Manual Peak Response = 8315 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL2.d  
 Acq On : 1 Dec 2019 2:44 pm  
 Operator : SV103:als  
 Sample : IL9,32,,ABNL2 Lot#8519  
 Misc : WG1316163,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 14:42:09 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response          | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|-------------------|--------|--------|----------|
| -----                         |                |      |                   |        |        |          |
| Internal Standards            |                |      |                   |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 133770            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = 87.70% |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 559603            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 89.81% |        |        |          |
| 63) IS1_Acenaphthene-d10      | 7.385          | 164  | 323029            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 90.92% |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 628723            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 94.26% |        |        |          |
| 104) IS1_Chrysene-d12         | 11.539         | 240  | 541636            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 93.27% |        |        |          |
| 113) IS1_Perylene-d12         | 13.559         | 264  | 600799            | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = 95.57% |        |        |          |
| System Monitoring Compounds   |                |      |                   |        |        |          |
| 4) 2-Fluorophenol             | 3.168          | 112  | 7403              | 1.904  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 3.81%# |        |        |          |
| 7) Phenol-d6                  | 4.148          | 99   | 9336              | 1.877  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 3.75%# |        |        |          |
| 19) Nitrobenzene-d5           | 4.998          | 82   | 8646              | 1.951  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 7.80%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.757          | 172  | 20678             | 1.958  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 7.83%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 8.149          | 330  | 2812              | 1.897  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 3.79%# |        |        |          |
| 96) 4-Terphenyl-d14           | 10.382         | 244  | 22954             | 1.958  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 7.83%# |        |        |          |
| Target Compounds              |                |      |                   |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.761          | 74   | 4859              | 1.903  | ug/ml# | 98       |
| 3) Pyridine                   | 1.810          | 79   | 7525              | 1.848  | ug/ml  | 93       |
| 5) Aniline                    | 4.128          | 93   | 11952             | 1.880  | ug/ml  | 93       |
| 6) 2-Chlorophenol             | 4.245          | 128  | 8820              | 1.969  | ug/ml  | 98       |
| 8) Phenol                     | 4.160          | 94   | 9688              | 1.849  | ug/ml# | 90       |
| 9) Bis(2-chloroethyl)ether    | 4.216          | 93   | 7952              | 2.010  | ug/ml  | 93       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 10037             | 2.050  | ug/ml  | 95       |
| 11) 1,4-Dichlorobenzene       | 4.458          | 146  | 10521             | 2.116  | ug/ml  | 97       |
| 12) 1,2-Dichlorobenzene       | 4.611          | 146  | 9964              | 2.057  | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.609          | 79   | 6216              | 1.787  | ug/ml  | 96       |
| 14) Bis(2-chloroisopropyl)... | 4.753          | 45   | 17773             | 2.123  | ug/ml  | 95       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL2.d  
 Acq On : 1 Dec 2019 2:44 pm  
 Operator : SV103:als  
 Sample : IL9,32,,ABNL2 Lot#8519  
 Misc : WG1316163,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 14:42:09 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 15) 2-Methylphenol            | 4.751 | 108  | 7728     | 1.909 | ug/ml  | 99       |
| 16) Hexachloroethane          | 4.932 | 117  | 4301     | 2.190 | ug/ml  | 85       |
| 17) n-Nitrosodi-n-propylamine | 4.878 | 70   | 6495     | 2.012 | ug/ml# | 89       |
| 18) 3-Methylphenol/4-Methy... | 4.907 | 108  | 8096     | 1.904 | ug/ml# | 93       |
| 20) Nitrobenzene              | 5.018 | 77   | 8737     | 1.907 | ug/ml  | 99       |
| 21) Isophorone                | 5.256 | 82   | 17915    | 2.110 | ug/ml  | 97       |
| 22) 2-Nitrophenol             | 5.333 | 139  | 4366     | 1.804 | ug/ml  | 91       |
| 23) 2,4-Dimethylphenol        | 5.418 | 107  | 7779     | 1.826 | ug/ml  | 90       |
| 24) Bis(2-chloroethoxy)met... | 5.495 | 93   | 10758    | 2.023 | ug/ml  | 98       |
| 25) 2,4-Dichlorophenol        | 5.577 | 162  | 7321     | 1.852 | ug/ml  | 95       |
| 26) 1,2,4-Trichlorobenzene    | 5.643 | 180  | 8784     | 2.086 | ug/ml  | 96       |
| 36) Naphthalene               | 5.705 | 128  | 28184    | 2.059 | ug/ml  | 99       |
| 37) Benzoic Acid              | 5.487 | 105  | 3258M1   | 1.047 | ug/ml  |          |
| 38) 4-Chloroaniline           | 5.788 | 65   | 2994     | 1.810 | ug/ml# | 80       |
| 39) Hexachlorobutadiene       | 5.853 | 225  | 5001     | 2.071 | ug/ml  | 98       |
| 40) p-Chloro-m-cresol         | 6.296 | 107  | 7374     | 1.911 | ug/ml  | 94       |
| 41) 2-Methylnaphthalene       | 6.387 | 142  | 19090    | 2.009 | ug/ml  | 97       |
| 42) 1-Methylnaphthalene       | 6.475 | 115  | 6213     | 2.096 | ug/ml  | 81       |
| 43) Hexachlorocyclopentadiene | 6.555 | 237  | 1910     | 0.740 | ug/ml# | 81       |
| 44) 2,4,6-Trichlorophenol     | 6.683 | 196  | 5564     | 1.950 | ug/ml  | 95       |
| 45) 2,4,5-Trichlorophenol     | 6.714 | 196  | 5720M4   | 1.893 | ug/ml  |          |
| 47) 2-Chloronaphthalene       | 6.850 | 162  | 17287    | 1.980 | ug/ml  | 97       |
| 48) 2-Nitroaniline            | 6.970 | 138  | 4757     | 1.572 | ug/ml  | 99       |
| 49) 1,4-Dinitrobenzene        | 7.109 | 168  | 2011     | 1.470 | ug/ml# | 72       |
| 50) 1,3-Dinitrobenzene        | 7.186 | 168  | 2310     | 1.451 | ug/ml# | 53       |
| 51) Dimethyl phthalate        | 7.169 | 163  | 22188    | 2.106 | ug/ml  | 99       |
| 52) Acenaphthylene            | 7.245 | 152  | 29728    | 2.057 | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 7.214 | 165  | 4174     | 1.757 | ug/ml  | 88       |
| 54) 1,2-Dinitrobenzene        | 7.257 | 168  | 2001     | 1.980 | ug/ml  | 82       |
| 64) 3-Nitroaniline            | 7.373 | 138  | 4341     | 1.721 | ug/ml# | 45       |
| 65) Acenaphthene              | 7.416 | 154  | 18438    | 2.127 | ug/ml  | 98       |
| 66) 2,4-Dinitrophenol         | 7.484 | 184  | 673      | 0.489 | ug/ml# | 24       |
| 67) Dibenzofuran              | 7.586 | 168  | 25503    | 1.967 | ug/ml  | 91       |
| 68) 2,4-Dinitrotoluene        | 7.603 | 165  | 5865     | 1.843 | ug/ml# | 69       |
| 69) 4-Nitrophenol             | 7.584 | 65   | 2523     | 1.363 | ug/ml# | 1        |
| 70) 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 4399     | 1.742 | ug/ml  | 97       |
| 71) 2,3,4,6-Tetrachlorophenol | 7.726 | 232  | 4795     | 1.849 | ug/ml  | 99       |
| 72) Diethyl phthalate         | 7.856 | 149  | 22483    | 2.029 | ug/ml  | 97       |
| 73) Fluorene                  | 7.913 | 166  | 21379    | 2.018 | ug/ml  | 98       |
| 74) 4-Chlorophenyl phenyl ... | 7.936 | 204  | 10262    | 2.072 | ug/ml# | 84       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL2.d  
 Acq On : 1 Dec 2019 2:44 pm  
 Operator : SV103:als  
 Sample : IL9,32,,ABNL2 Lot#8519  
 Misc : WG1316163,,  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 14:42:09 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|-------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.956  | 138  | 3821     | 1.549 | ug/ml# | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.998  | 198  | 2502     | 1.273 | ug/ml# | 88       |
| 77)  | NDPA/DPA                  | 8.055  | 169  | 17380    | 1.911 | ug/ml  | 98       |
| 78)  | Azobenzene                | 8.086  | 77   | 19314    | 1.880 | ug/ml  | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 8.402  | 248  | 5528     | 1.985 | ug/ml# | 83       |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 6781     | 2.151 | ug/ml  | 99       |
| 82)  | Pentachlorophenol         | 8.655  | 266  | 1932     | 1.146 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.831  | 178  | 33706    | 2.070 | ug/ml  | 97       |
| 90)  | Anthracene                | 8.879  | 178  | 32917    | 1.947 | ug/ml  | 99       |
| 91)  | Carbazole                 | 9.053  | 167  | 28510    | 1.858 | ug/ml  | 98       |
| 92)  | Di-n-butylphthalate       | 9.445  | 149  | 37771    | 1.902 | ug/ml# | 98       |
| 93)  | Fluoranthene              | 9.976  | 202  | 35466    | 1.951 | ug/ml  | 99       |
| 94)  | Benzidine                 | 10.135 | 184  | 21336    | 1.677 | ug/ml  | 98       |
| 95)  | Pyrene                    | 10.186 | 202  | 38469    | 2.033 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.942 | 149  | 15570    | 1.761 | ug/ml  | 93       |
| 105) | Benzo(a)anthracene        | 11.530 | 228  | 34636    | 2.103 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.539 | 252  | 11543    | 1.736 | ug/ml# | 93       |
| 107) | Chrysene                  | 11.570 | 228  | 33242    | 2.041 | ug/ml  | 97       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.706 | 149  | 22612    | 1.665 | ug/ml  | 98       |
| 109) | Di-n-octylphthalate       | 12.633 | 149  | 35998    | 1.554 | ug/ml# | 95       |
| 110) | Benzo(b)fluoranthene      | 13.005 | 252  | 30319    | 1.959 | ug/ml# | 92       |
| 111) | Benzo(k)fluoranthene      | 13.045 | 252  | 31470    | 1.910 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.471 | 252  | 29060    | 1.997 | ug/ml  | 99       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.110 | 276  | 28264    | 1.938 | ug/mL  | 99       |
| 115) | Dibenzo(a,h)anthracene    | 15.167 | 278  | 27925    | 1.894 | ug/ml  | 98       |
| 116) | Benzo(ghi)perylene        | 15.469 | 276  | 30447    | 1.913 | ug/ml  | 97       |

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

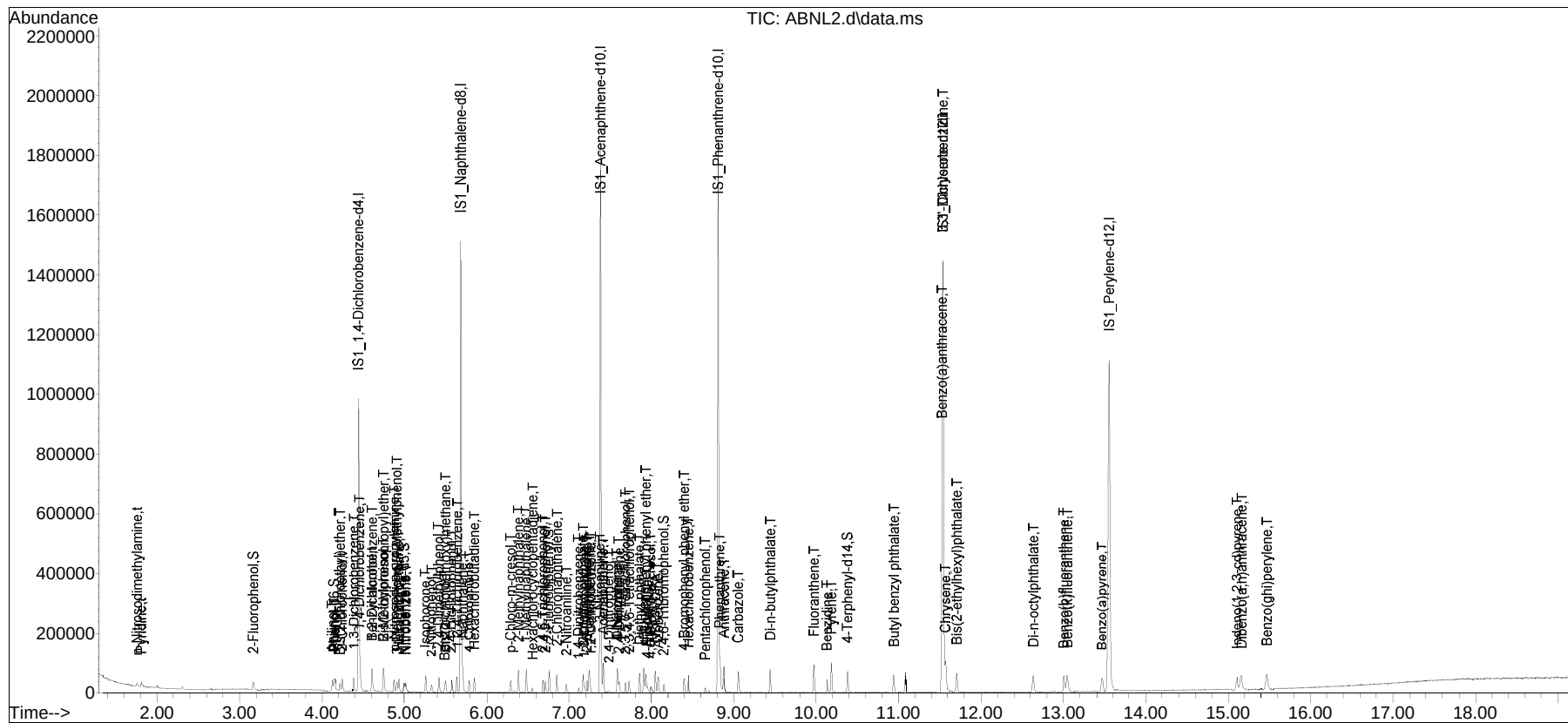
# Quantitation Report

(QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL2.d  
Acq On : 1 Dec 2019 2:44 pm  
Operator : SV103:als  
Sample : IL9,32,,ABNL2 Lot#8519  
Misc : WG1316163,,  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 02 14:42:09 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 14:07:20 2019  
Response via : Initial Calibration

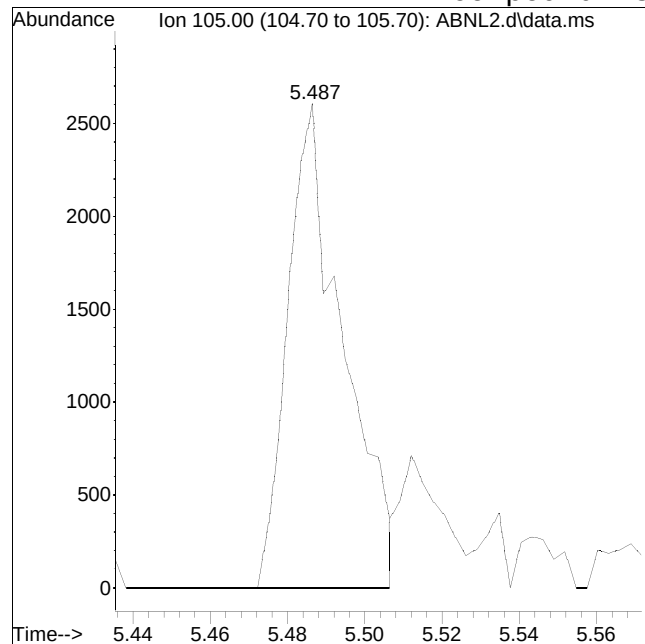
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



# Manual Integration Report

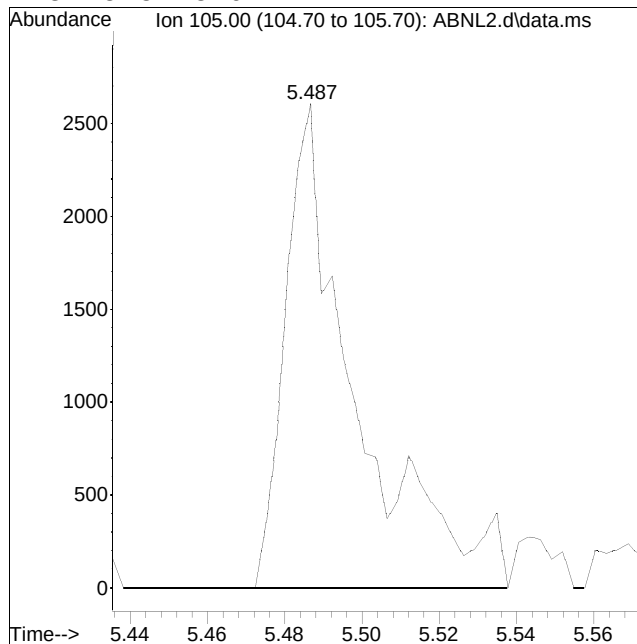
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL2.d Operator : SV103:als  
Date Inj'd : 12/1/2019 2:44 pm Instrument : SV103  
Sample : IL9,32,,ABNL2 Lot#8519 Quant Date : 12/2/2019 2:08 pm

## Compound #37: Benzoic Acid



Original Peak Response = 2581

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



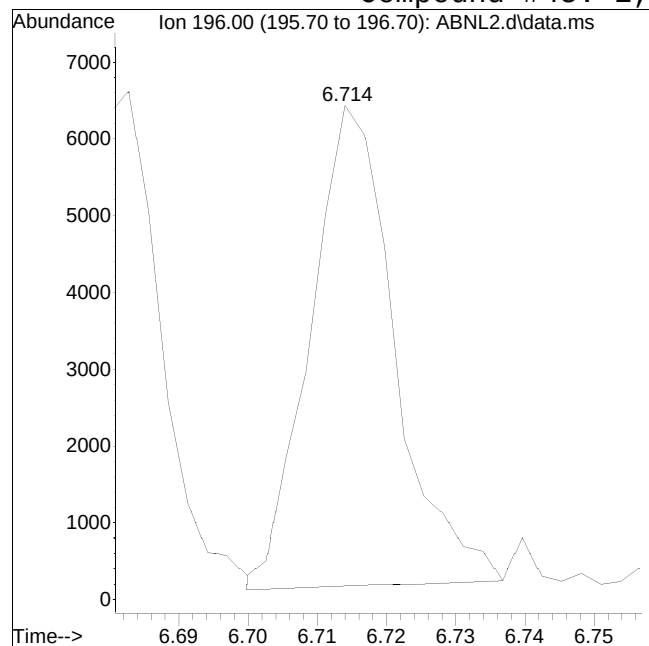
Manual Peak Response = 3258 M1



# Manual Integration Report

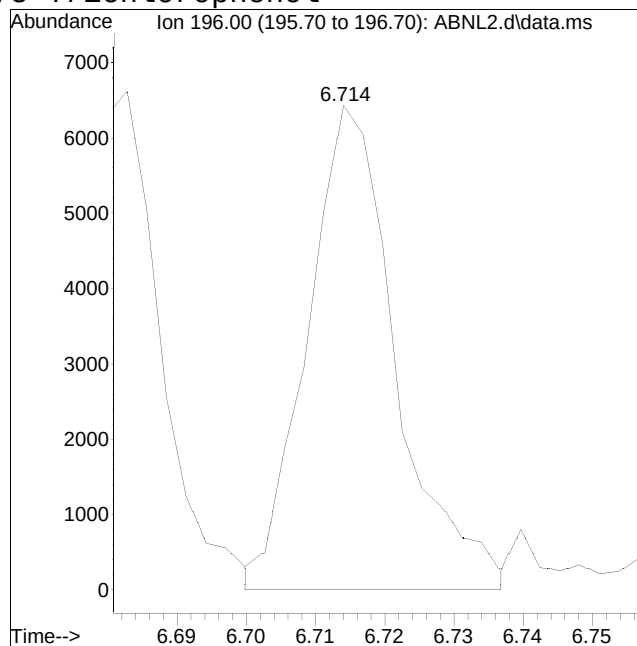
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL2.d Operator : SV103:als  
Date Inj'd : 12/1/2019 2:44 pm Instrument : SV103  
Sample : IL9,32,,ABNL2 Lot#8519 Quant Date : 12/2/2019 2:08 pm

## Compound #45: 2,4,5-Trichlorophenol



Original Peak Response = 5305

M4 = Poor automated baseline construction.



Manual Peak Response = 5720 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL1.d  
 Acq On : 1 Dec 2019 3:08 pm  
 Operator : SV103:als  
 Sample : IL10,32,,ABNL1 Lot#8518  
 Misc : WG1316163,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 03 10:58:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|--------|----------|
| -----                         |                |      |            |        |        |          |
| Internal Standards            |                |      |            |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 126518     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = | 82.94% |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 525004     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = | 84.26% |        |          |
| 63) IS1_Acenaphthene-d10      | 7.384          | 164  | 305117     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = | 85.88% |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 596870     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = | 89.49% |        |          |
| 104) IS1_Chrysene-d12         | 11.539         | 240  | 526664     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = | 90.69% |        |          |
| 113) IS1_Perylene-d12         | 13.556         | 264  | 588463     | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = | 93.61% |        |          |
| System Monitoring Compounds   |                |      |            |        |        |          |
| 4) 2-Fluorophenol             | 3.168          | 112  | 1643       | 0.447  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 0.89%# |        |          |
| 7) Phenol-d6                  | 4.151          | 99   | 1967       | 0.418  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 0.84%# |        |          |
| 19) Nitrobenzene-d5           | 5.000          | 82   | 1837       | 0.438  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 1.75%# |        |          |
| 46) 2-Fluorobiphenyl          | 6.759          | 172  | 4941       | 0.499  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 2.00%# |        |          |
| 79) 2,4,6-Tribromophenol      | 8.152          | 330  | 539        | 0.385  | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 0.77%# |        |          |
| 96) 4-Terphenyl-d14           | 10.379         | 244  | 5462       | 0.491  | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 1.96%# |        |          |
| Target Compounds              |                |      |            |        |        |          |
|                               |                |      |            |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.758          | 74   | 909        | 0.376  | ug/ml# | 97       |
| 3) Pyridine                   | 1.835          | 79   | 1605M1     | 0.417  | ug/ml  |          |
| 5) Aniline                    | 4.131          | 93   | 3114       | 0.518  | ug/ml# | 73       |
| 6) 2-Chlorophenol             | 4.245          | 128  | 1785       | 0.421  | ug/ml# | 75       |
| 8) Phenol                     | 4.162          | 94   | 1994       | 0.402  | ug/ml# | 87       |
| 9) Bis(2-chloroethyl)ether    | 4.216          | 93   | 1824       | 0.487  | ug/ml  | 90       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 2185       | 0.472  | ug/ml# | 92       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 2600       | 0.553  | ug/ml# | 62       |
| 12) 1,2-Dichlorobenzene       | 4.608          | 146  | 2309       | 0.504  | ug/ml  | 96       |
| 13) Benzyl alcohol            | 4.614          | 79   | 1194       | 0.363  | ug/ml  | 89       |
| 14) Bis(2-chloroisopropyl)... | 4.753          | 45   | 4311       | 0.544  | ug/ml# | 92       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL1.d  
 Acq On : 1 Dec 2019 3:08 pm  
 Operator : SV103:als  
 Sample : IL10,32,,ABNL1 Lot#8518  
 Misc : WG1316163,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 03 10:58:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 15) 2-Methylphenol            | 4.750 | 108  | 1724     | 0.450 | ug/ml# | 88       |
| 16) Hexachloroethane          | 4.935 | 117  | 1010     | 0.544 | ug/ml# | 63       |
| 17) n-Nitrosodi-n-propylamine | 4.881 | 70   | 1651     | 0.541 | ug/ml# | 64       |
| 18) 3-Methylphenol/4-Methy... | 4.915 | 108  | 1678     | 0.417 | ug/ml# | 85       |
| 20) Nitrobenzene              | 5.018 | 77   | 2158     | 0.498 | ug/ml# | 83       |
| 21) Isophorone                | 5.259 | 82   | 4466     | 0.556 | ug/ml# | 91       |
| 22) 2-Nitrophenol             | 5.333 | 139  | 953      | 0.416 | ug/ml# | 30       |
| 23) 2,4-Dimethylphenol        | 5.418 | 107  | 1873     | 0.465 | ug/ml  | 96       |
| 24) Bis(2-chloroethoxy)met... | 5.498 | 93   | 2318     | 0.461 | ug/ml# | 91       |
| 25) 2,4-Dichlorophenol        | 5.574 | 162  | 1699     | 0.454 | ug/ml# | 73       |
| 26) 1,2,4-Trichlorobenzene    | 5.646 | 180  | 2240     | 0.562 | ug/ml  | 94       |
| 36) Naphthalene               | 5.705 | 128  | 6648     | 0.518 | ug/ml  | 98       |
| 37) Benzoic Acid              | 0.000 |      | 0        | N.D.  |        |          |
| 38) 4-Chloroaniline           | 5.788 | 65   | 766      | 0.494 | ug/ml  | 87       |
| 39) Hexachlorobutadiene       | 5.853 | 225  | 1258     | 0.555 | ug/ml# | 91       |
| 40) p-Chloro-m-cresol         | 6.296 | 107  | 1529     | 0.422 | ug/ml# | 85       |
| 41) 2-Methylnaphthalene       | 6.387 | 142  | 4292     | 0.481 | ug/ml  | 92       |
| 42) 1-Methylnaphthalene       | 6.475 | 115  | 1492     | 0.537 | ug/ml  | 84       |
| 43) Hexachlorocyclopentadiene | 0.000 |      | 0        | N.D.  |        |          |
| 44) 2,4,6-Trichlorophenol     | 6.680 | 196  | 1237     | 0.462 | ug/ml# | 81       |
| 45) 2,4,5-Trichlorophenol     | 6.711 | 196  | 1235     | 0.436 | ug/ml# | 77       |
| 47) 2-Chloronaphthalene       | 6.850 | 162  | 3900     | 0.476 | ug/ml  | 98       |
| 48) 2-Nitroaniline            | 6.970 | 138  | 992      | 0.349 | ug/ml  | 93       |
| 49) 1,4-Dinitrobenzene        | 0.000 |      | 0        | N.D.  |        |          |
| 50) 1,3-Dinitrobenzene        | 0.000 |      | 0        | N.D.  |        |          |
| 51) Dimethyl phthalate        | 7.168 | 163  | 5811     | 0.588 | ug/ml# | 97       |
| 52) Acenaphthylene            | 7.245 | 152  | 7017     | 0.518 | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 7.214 | 165  | 934      | 0.419 | ug/ml  | 94       |
| 54) 1,2-Dinitrobenzene        | 0.000 |      | 0        | N.D.  |        |          |
| 64) 3-Nitroaniline            | 0.000 |      | 0        | N.D.  | d      |          |
| 65) Acenaphthene              | 7.416 | 154  | 4301     | 0.525 | ug/ml  | 94       |
| 66) 2,4-Dinitrophenol         | 0.000 |      | 0        | N.D.  |        |          |
| 67) Dibenzofuran              | 7.586 | 168  | 6115     | 0.499 | ug/ml  | 95       |
| 68) 2,4-Dinitrotoluene        | 7.609 | 165  | 1199     | 0.399 | ug/ml# | 42       |
| 69) 4-Nitrophenol             | 7.583 | 65   | 515      | 0.295 | ug/ml# | 1        |
| 70) 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 1023     | 0.429 | ug/ml# | 67       |
| 71) 2,3,4,6-Tetrachlorophenol | 7.728 | 232  | 1029     | 0.420 | ug/ml  | 93       |
| 72) Diethyl phthalate         | 7.856 | 149  | 5291     | 0.505 | ug/ml  | 96       |
| 73) Fluorene                  | 7.913 | 166  | 4811     | 0.481 | ug/ml  | 95       |
| 74) 4-Chlorophenyl phenyl ... | 7.933 | 204  | 2223     | 0.475 | ug/ml# | 83       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNL1.d  
 Acq On : 1 Dec 2019 3:08 pm  
 Operator : SV103:als  
 Sample : IL10,32,,ABNL1 Lot#8518  
 Misc : WG1316163,,  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 03 10:58:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |    |
|------|---------------------------|--------|------|----------|-------|--------|----------|----|
| 75)  | 4-Nitroaniline            | 7.958  | 138  | 572      | 0.246 | ug/ml# |          | 61 |
| 76)  | 4,6-Dinitro-o-cresol      | 0.000  |      | 0        | N.D.  |        |          |    |
| 77)  | NDPA/DPA                  | 8.055  | 169  | 3769     | 0.439 | ug/ml  |          | 95 |
| 78)  | Azobenzene                | 8.086  | 77   | 4857     | 0.500 | ug/ml  |          | 97 |
| 80)  | 4-Bromophenyl phenyl e... | 8.402  | 248  | 1254     | 0.477 | ug/ml# |          | 80 |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 1615     | 0.542 | ug/ml# |          | 75 |
| 82)  | Pentachlorophenol         | 0.000  |      | 0        | N.D.  |        |          |    |
| 89)  | Phenanthrene              | 8.831  | 178  | 8259     | 0.534 | ug/ml  |          | 98 |
| 90)  | Anthracene                | 8.882  | 178  | 8330     | 0.519 | ug/ml  |          | 97 |
| 91)  | Carbazole                 | 9.055  | 167  | 6733     | 0.462 | ug/ml  |          | 96 |
| 92)  | Di-n-butylphthalate       | 9.444  | 149  | 9130     | 0.484 | ug/ml# |          | 91 |
| 93)  | Fluoranthene              | 9.976  | 202  | 8801     | 0.510 | ug/ml  |          | 99 |
| 94)  | Benzydine                 | 10.135 | 184  | 3769     | 0.312 | ug/ml# |          | 69 |
| 95)  | Pyrene                    | 10.189 | 202  | 9526     | 0.530 | ug/ml  |          | 99 |
| 97)  | Butyl benzyl phthalate    | 10.942 | 149  | 3752     | 0.447 | ug/ml  |          | 95 |
| 105) | Benzo(a)anthracene        | 11.524 | 228  | 9981     | 0.623 | ug/ml# |          | 90 |
| 106) | 3,3'-Dichlorobenzidine    | 11.536 | 252  | 2959     | 0.458 | ug/ml# |          | 83 |
| 107) | Chrysene                  | 11.570 | 228  | 9337     | 0.590 | ug/ml  |          | 96 |
| 108) | Bis(2-ethylhexyl)phtha... | 11.706 | 149  | 5755     | 0.436 | ug/ml# |          | 98 |
| 109) | Di-n-octylphthalate       | 12.630 | 149  | 8823     | 0.392 | ug/ml# |          | 97 |
| 110) | Benzo(b)fluoranthene      | 13.008 | 252  | 8278     | 0.550 | ug/ml  |          | 99 |
| 111) | Benzo(k)fluoranthene      | 13.047 | 252  | 8032M4   | 0.501 | ug/ml  |          |    |
| 112) | Benzo(a)pyrene            | 13.468 | 252  | 7340     | 0.519 | ug/ml  |          | 99 |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.110 | 276  | 7387     | 0.517 | ug/mL  |          | 98 |
| 115) | Dibenzo(a,h)anthracene    | 15.161 | 278  | 7483     | 0.518 | ug/ml# |          | 70 |
| 116) | Benzo(ghi)perylene        | 15.471 | 276  | 8356     | 0.536 | ug/ml# |          | 86 |

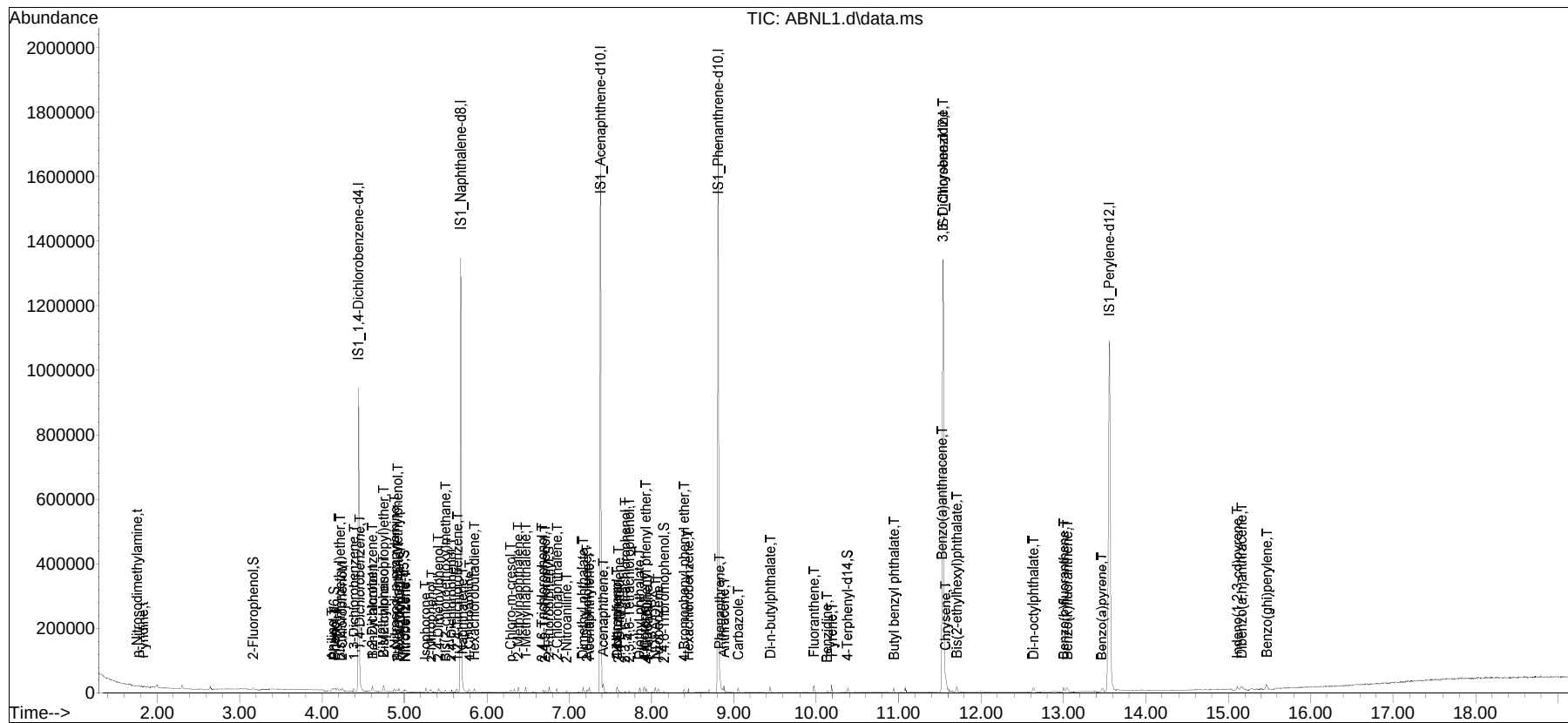
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
Data File : ABNL1.d  
Acq On : 1 Dec 2019 3:08 pm  
Operator : SV103:als  
Sample : IL10,32,,ABNL1 Lot#8518  
Misc : WG1316163,,  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 03 10:58:49 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 02 14:07:20 2019  
Response via : Initial Calibration

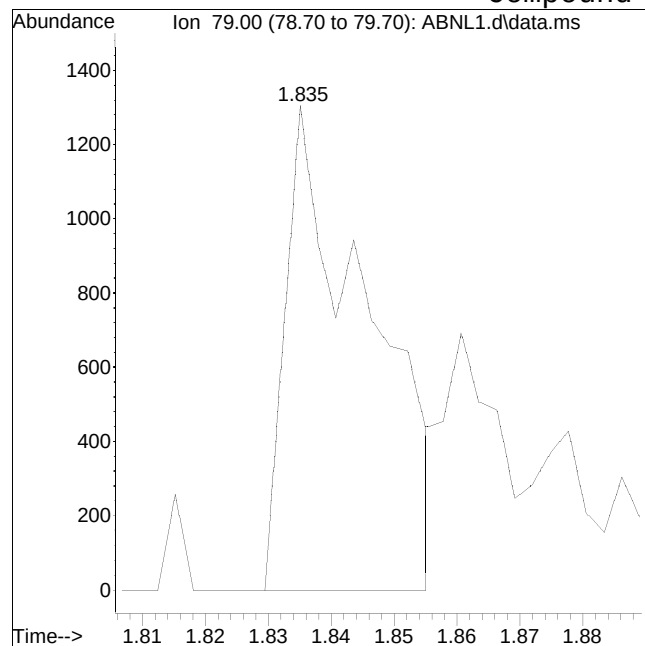
Sub List : ABNical - ABN ical sublista\ABNL7.d•



# Manual Integration Report

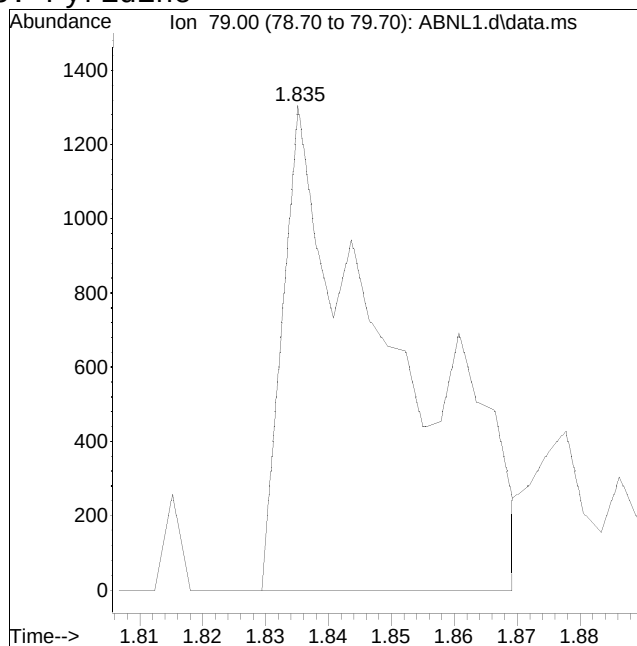
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL1.d Operator : SV103:als  
Date Inj'd : 12/1/2019 3:08 pm Instrument : SV103  
Sample : IL10, 32,, ABNL1 Lot#8518 Quant Date : 12/2/2019 2:08 pm

## Compound #3: Pyridine



Original Peak Response = 1198

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

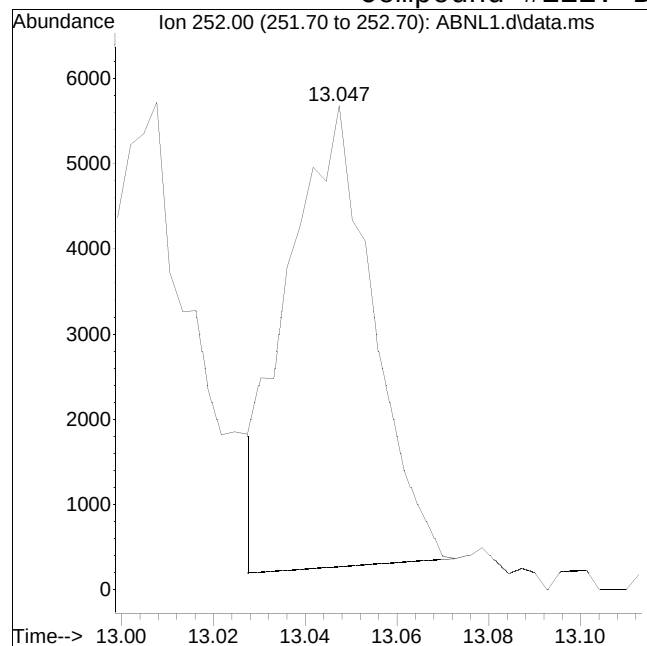


Manual Peak Response = 1605 M1

# Manual Integration Report

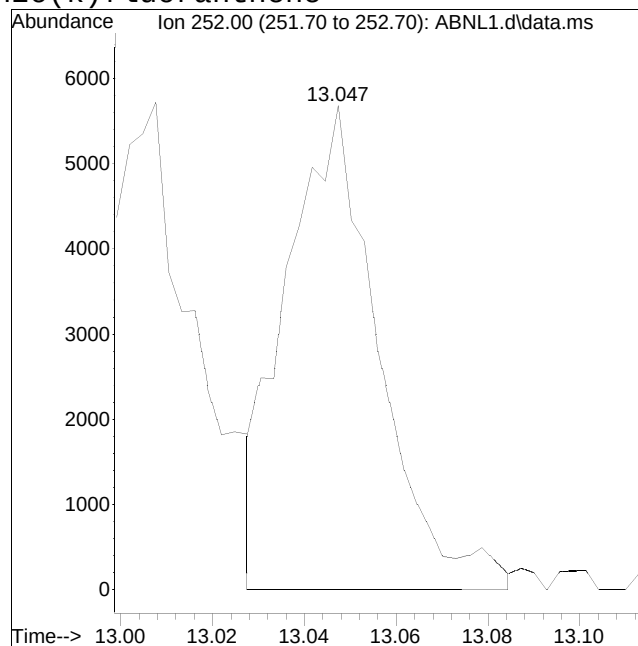
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNL1.d Operator : SV103:als  
Date Inj'd : 12/1/2019 3:08 pm Instrument : SV103  
Sample : IL10,32,,ABNL1 Lot#8518 Quant Date : 12/2/2019 2:08 pm

## Compound #111: Benzo(k)fluoranthene



Original Peak Response = 7027

M4 = Poor automated baseline construction.



Manual Peak Response = 8032 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L10.d  
 Acq On : 1 Dec 2019 3:32 pm  
 Operator : SV103:als  
 Sample : IL11,32,,AP9L200 Lot#8506  
 Misc : WG1316163,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 16:41:26 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.447 | 152  | 132152   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 93.50% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 541527   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 92.51% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 314354   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 92.10% |          |
| 98) IS2_Phenanthrene-d10      | 8.811 | 188  | 617030   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 93.83% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 4.006 | 105  | 740383   | 205.520 | ug/ml  | 89     |
| 29) Acetophenone              | 4.856 | 105  | 1287718  | 201.958 | ug/ml  | 94     |
| 30) m-Toluidine               | 4.941 | 106  | 1339847  | 205.332 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.299 | 127  | 1200314  | 203.910 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.756 | 59   | 1002737  | 201.785 | ug/ml  | 93     |
| 57) 3-Chloroaniline           | 5.771 | 65   | 402585   | 211.126 | ug/ml  | 80     |
| 58) 2,6-Dichlorophenol        | 5.796 | 162  | 857064   | 208.338 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 6.046 | 111  | 401067   | 208.250 | ug/ml  | 95     |
| 60) Caprolactam               | 6.117 | 55   | 613177   | 206.410 | ug/ml# | 89     |
| 61) 1,2,4,5-Tetrachloroben... | 6.558 | 216  | 907303   | 203.697 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.850 | 154  | 2371151  | 201.056 | ug/ml  | 100    |
| 84) Dichloran                 | 8.524 | 206  | 326790   | 223.252 | ug/ml  | 84     |
| 85) Pentachloronitrobenzene   | 8.666 | 237  | 282317   | 207.981 | ug/ml# | 89     |
| 99) Diphenamid                | 9.723 | 167  | 1699896  | 203.677 | ug/ml  | 87     |

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

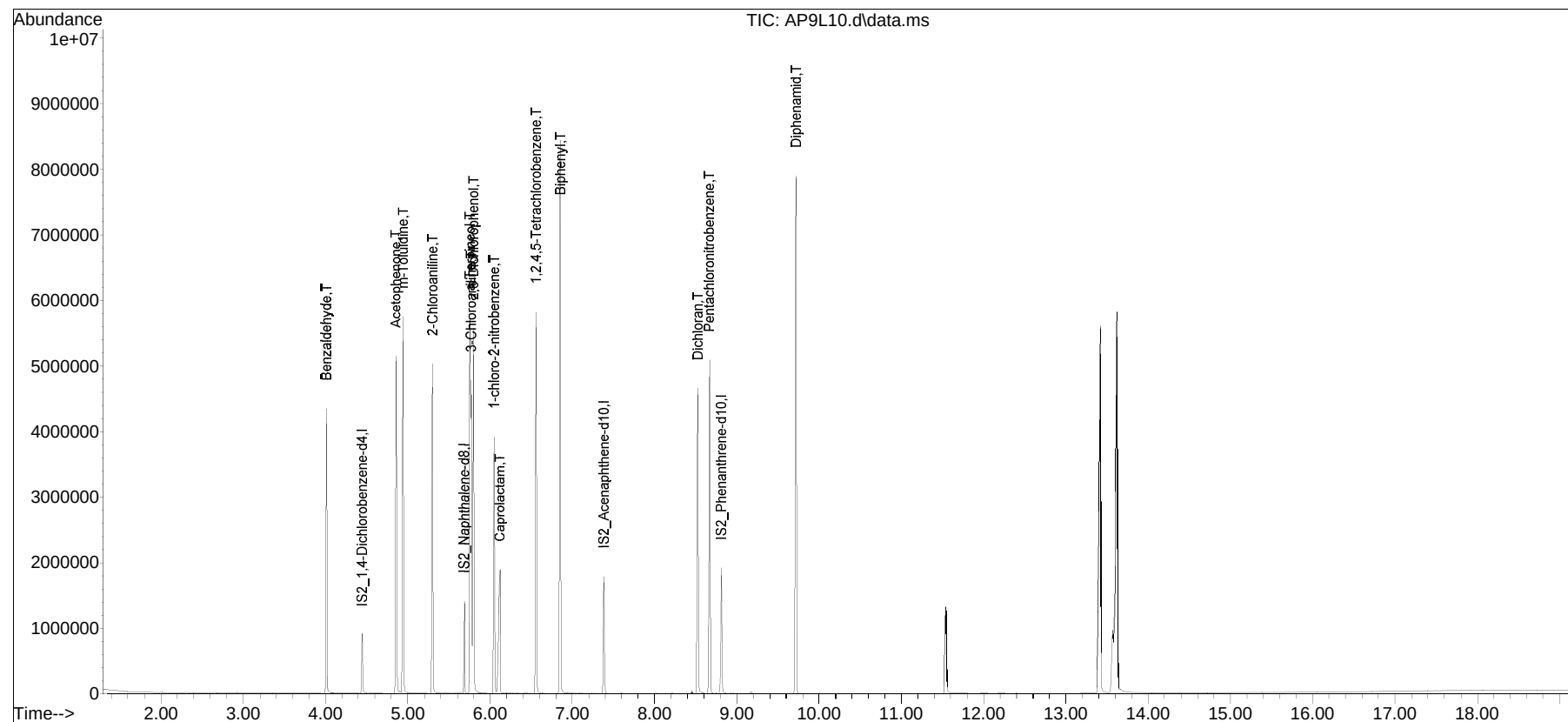


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L10.d  
 Acq On : 1 Dec 2019 3:32 pm  
 Operator : SV103:als  
 Sample : IL11,32,,AP9L200 Lot#8506  
 Misc : WG1316163,,  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 02 16:41:26 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L10.d Operator : SV103:als  
Date Inj'd : 12/1/2019 3:32 pm Instrument : SV103  
Sample : IL11, 32,, AP9L200 Lot#8506 Quant Date : 12/2/2019 2:10 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L9.d  
 Acq On : 1 Dec 2019 3:57 pm  
 Operator : SV103:als  
 Sample : IL12,32,,AP9L150 Lot#8515  
 Misc : WG1316163,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 16:48:53 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 131725   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 93.20% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 539917   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 92.23% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 309999   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 90.82% |          |
| 98) IS2_Phenanthrene-d10      | 8.811 | 188  | 602766   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 91.66% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 4.006 | 105  | 544019   | 151.501 | ug/ml  | 90     |
| 29) Acetophenone              | 4.853 | 105  | 938648   | 147.689 | ug/ml  | 94     |
| 30) m-Toluidine               | 4.938 | 106  | 968371   | 148.884 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.299 | 127  | 874845   | 149.101 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.754 | 59   | 728220   | 146.980 | ug/ml  | 93     |
| 57) 3-Chloroaniline           | 5.771 | 65   | 290839   | 152.978 | ug/ml  | 80     |
| 58) 2,6-Dichlorophenol        | 5.793 | 162  | 614880   | 149.913 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 6.046 | 111  | 287195   | 149.568 | ug/ml  | 94     |
| 60) Caprolactam               | 6.109 | 55   | 437437   | 147.691 | ug/ml# | 89     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 654794   | 147.445 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.848 | 154  | 1716935  | 146.017 | ug/ml  | 100    |
| 84) Dichloran                 | 8.521 | 206  | 235247   | 162.971 | ug/ml  | 84     |
| 85) Pentachloronitrobenzene   | 8.666 | 237  | 201818   | 150.766 | ug/ml# | 88     |
| 99) Diphenamid                | 9.720 | 167  | 1230959  | 150.981 | ug/ml  | 87     |

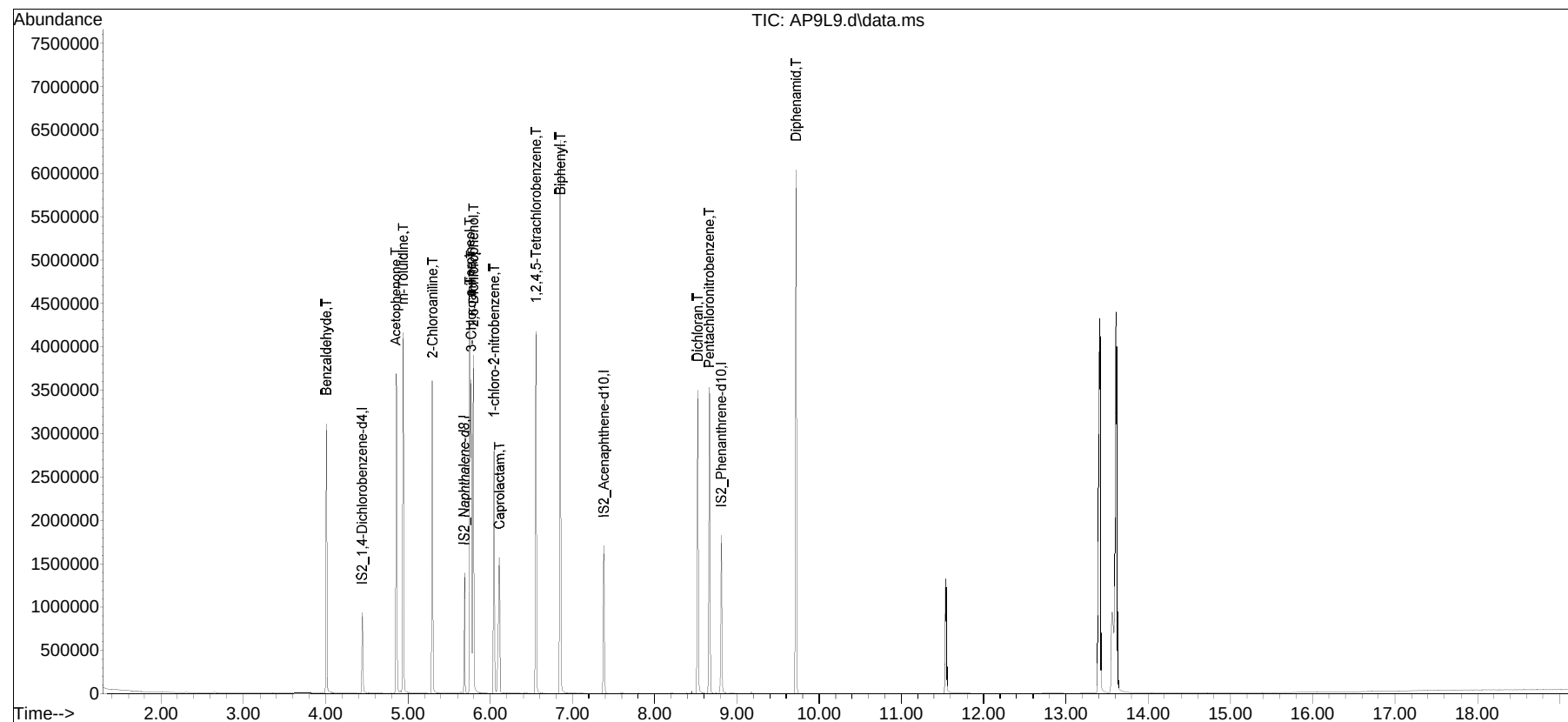
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L9.d  
 Acq On : 1 Dec 2019 3:57 pm  
 Operator : SV103:als  
 Sample : IL12,32,,AP9L150 Lot#8515  
 Misc : WG1316163,,  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 02 16:48:53 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L9.d Operator : SV103:als  
Date Inj'd : 12/1/2019 3:57 pm Instrument : SV103  
Sample : IL12,32,,AP9L150 Lot#8515 Quant Date : 12/2/2019 2:10 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L8.d  
 Acq On : 1 Dec 2019 4:21 pm  
 Operator : SV103:als  
 Sample : IL13,32,,AP9L100 Lot#8514  
 Misc : WG1316163,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 02 16:47:40 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 125907   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 89.08% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 519438   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 88.74% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 301106   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 88.22% |          |
| 98) IS2_Phenanthrene-d10      | 8.811 | 188  | 582296   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 88.55% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|-------|------|----------|---------|--------|--------|
| 28) Benzaldehyde              | 4.006 | 105  | 349133   | 101.721 | ug/ml  | 90     |
| 29) Acetophenone              | 4.853 | 105  | 598148   | 98.463  | ug/ml  | 93     |
| 30) m-Toluidine               | 4.938 | 106  | 631840   | 101.632 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.296 | 127  | 563007   | 100.388 | ug/ml  | 97     |
| 56) a-Terpineol               | 5.751 | 59   | 473257   | 99.285  | ug/ml  | 93     |
| 57) 3-Chloroaniline           | 5.768 | 65   | 187356   | 102.432 | ug/ml  | 80     |
| 58) 2,6-Dichlorophenol        | 5.793 | 162  | 398049   | 100.874 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 6.043 | 111  | 185713   | 100.530 | ug/ml  | 96     |
| 60) Caprolactam               | 6.100 | 55   | 282969   | 99.305  | ug/ml# | 89     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 424114   | 99.266  | ug/ml  | 99     |
| 62) Biphenyl                  | 6.848 | 154  | 1122928  | 99.265  | ug/ml  | 99     |
| 84) Dichloran                 | 8.521 | 206  | 147534   | 105.225 | ug/ml  | 83     |
| 85) Pentachloronitrobenzene   | 8.663 | 237  | 129210   | 99.376  | ug/ml# | 89     |
| 99) Diphenamid                | 9.717 | 167  | 791304   | 100.468 | ug/ml  | 87     |

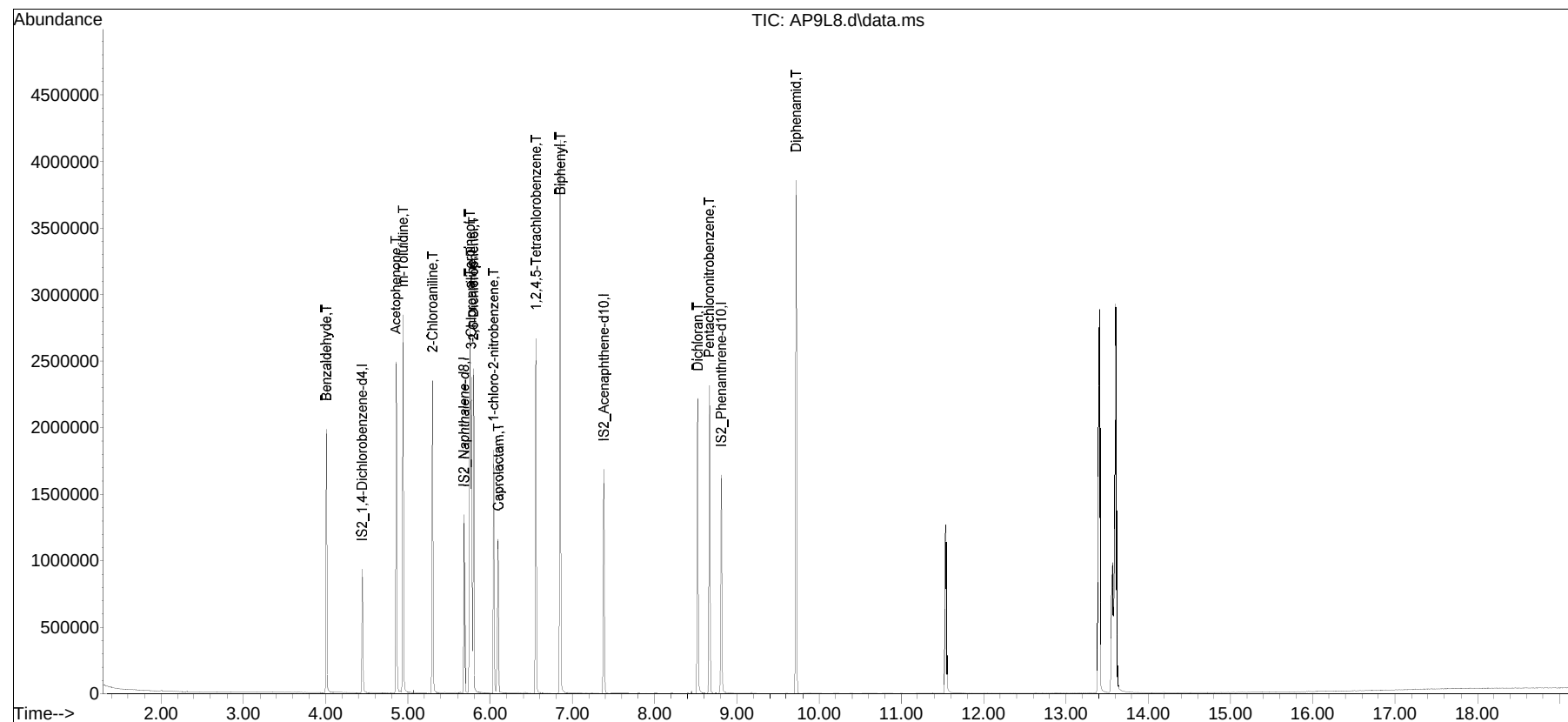
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L8.d  
 Acq On : 1 Dec 2019 4:21 pm  
 Operator : SV103:als  
 Sample : IL13,32,,AP9L100 Lot#8514  
 Misc : WG1316163,,  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 02 16:47:40 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L8.d Operator : SV103:als  
Date Inj'd : 12/1/2019 4:21 pm Instrument : SV103  
Sample : IL13,32,,AP9L100 Lot#8514 Quant Date : 12/2/2019 2:10 pm

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L7.d  
 Acq On : 1 Dec 2019 4:45 pm  
 Operator : SV103:als  
 Sample : IL14,32,,AP9L50 Lot#8513  
 Misc : WG1316163,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 02 13:59:24 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:59:04 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 141335   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 100.00% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 585372   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 100.00% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 341329   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 100.00% |          |
| 98) IS2_Phenanthrene-d10      | 8.811 | 188  | 657626   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 100.00% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 4.006 | 105  | 192641   | 50.000 | ug/ml  | 90     |
| 29) Acetophenone              | 4.853 | 105  | 340962   | 50.000 | ug/ml  | 93     |
| 30) m-Toluidine               | 4.938 | 106  | 348935   | 50.000 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.296 | 127  | 314776   | 50.000 | ug/ml# | 96     |
| 56) a-Terpineol               | 5.748 | 59   | 268584   | 50.000 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.765 | 65   | 103062   | 50.000 | ug/ml  | 84     |
| 58) 2,6-Dichlorophenol        | 5.791 | 162  | 222345   | 50.000 | ug/ml  | 97     |
| 59) 1-chloro-2-nitrobenzene   | 6.043 | 111  | 104091   | 50.000 | ug/ml  | 95     |
| 60) Caprolactam               | 6.092 | 55   | 160560   | 50.000 | ug/ml# | 90     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 240741   | 50.000 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.848 | 154  | 637419   | 50.000 | ug/ml  | 99     |
| 84) Dichloran                 | 8.518 | 206  | 79469    | 50.000 | ug/ml  | 87     |
| 85) Pentachloronitrobenzene   | 8.663 | 237  | 73695    | 50.000 | ug/ml# | 89     |
| 99) Diphenamid                | 9.717 | 167  | 444757   | 50.000 | ug/ml  | 87     |

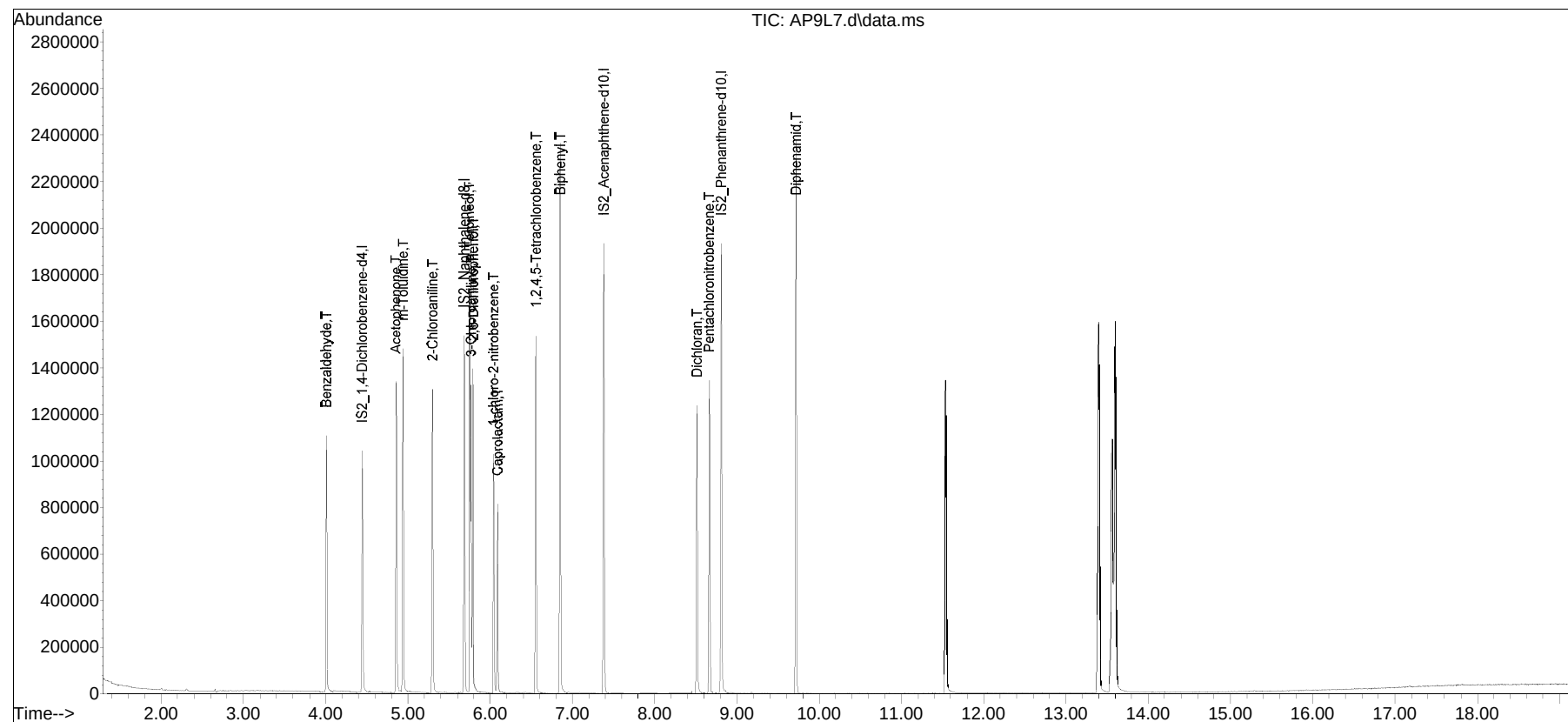
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L7.d  
 Acq On : 1 Dec 2019 4:45 pm  
 Operator : SV103:als  
 Sample : IL14,32,,AP9L50 Lot#8513  
 Misc : WG1316163,,  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 02 13:59:24 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:59:04 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L7.d Operator : SV103:als  
Date Inj'd : 12/1/2019 4:45 pm Instrument : SV103  
Sample : IL14,32,,AP9L50 Lot#8513 Quant Date : 12/2/2019 1:59 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L6.d  
 Acq On : 1 Dec 2019 5:09 pm  
 Operator : SV103:als  
 Sample : IL15,32,,AP9L20 Lot#8512  
 Misc : WG1316163,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 02 16:46:15 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 129049   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 91.31% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 534078   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 91.24% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 305564   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 89.52% |          |
| 98) IS2_Phenanthrene-d10      | 8.808 | 188  | 596719   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 90.74% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 4.006 | 105  | 68319    | 19.420 | ug/ml  | 92     |
| 29) Acetophenone              | 4.856 | 105  | 120120   | 19.292 | ug/ml  | 94     |
| 30) m-Toluidine               | 4.938 | 106  | 125819   | 19.745 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.296 | 127  | 113097   | 19.675 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.748 | 59   | 96846    | 19.761 | ug/ml  | 92     |
| 57) 3-Chloroaniline           | 5.765 | 65   | 32612M4  | 17.341 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.790 | 162  | 79261    | 19.536 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 6.043 | 111  | 37981    | 19.996 | ug/ml  | 99     |
| 60) Caprolactam               | 6.083 | 55   | 57036    | 19.467 | ug/ml# | 90     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 85696    | 19.508 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.847 | 154  | 228547   | 19.649 | ug/ml  | 99     |
| 84) Dichloran                 | 8.518 | 206  | 27463    | 19.302 | ug/ml  | 86     |
| 85) Pentachloronitrobenzene   | 8.660 | 237  | 25779    | 19.538 | ug/ml  | 88     |
| 99) Diphenamid                | 9.714 | 167  | 159628   | 19.777 | ug/ml  | 86     |

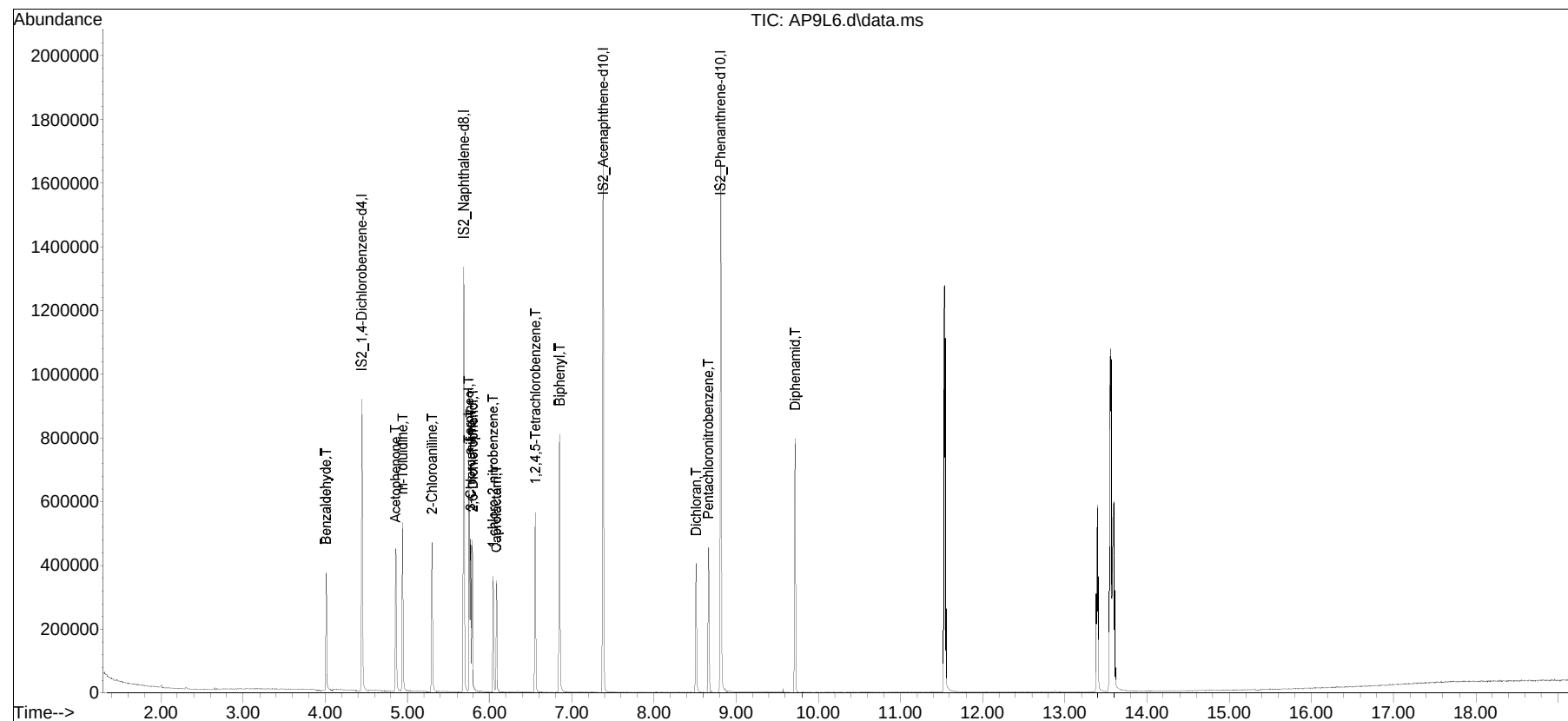
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L6.d  
 Acq On : 1 Dec 2019 5:09 pm  
 Operator : SV103:als  
 Sample : IL15,32,,AP9L20 Lot#8512  
 Misc : WG1316163,,  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 02 16:46:15 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

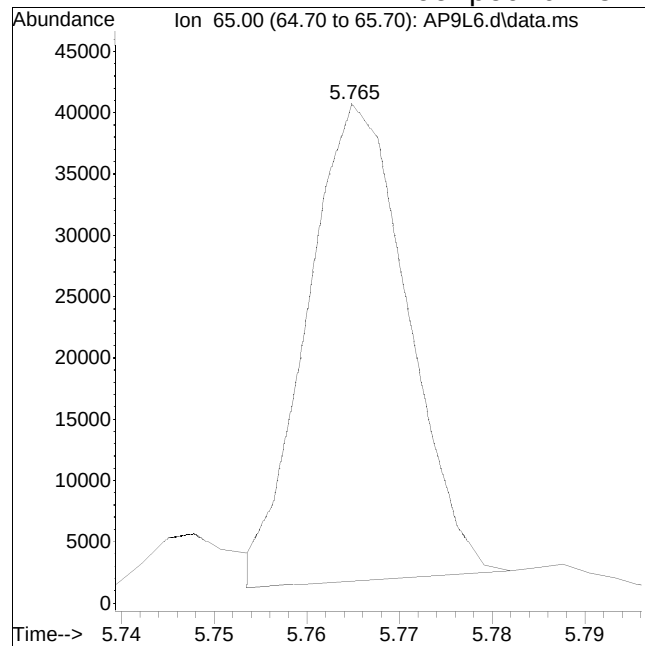
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

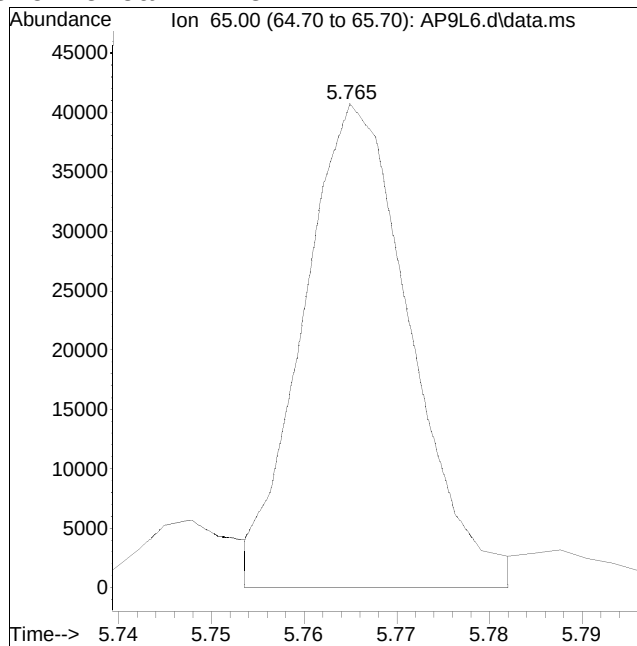
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L6.d Operator : SV103:als  
Date Inj'd : 12/1/2019 5:09 pm Instrument : SV103  
Sample : IL15,32,,AP9L20 Lot#8512 Quant Date : 12/2/2019 2:10 pm

## Compound #57: 3-Chloroaniline



Original Peak Response = 29314

M4 = Poor automated baseline construction.



Manual Peak Response = 32612 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L5.d  
 Acq On : 1 Dec 2019 5:33 pm  
 Operator : SV103:als  
 Sample : IL16,32,,AP9L10 Lot#8511  
 Misc : WG1316163,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 16:45:06 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 123502   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 87.38% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 505169   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 86.30% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 290438   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 85.09% |          |
| 98) IS2_Phenanthrene-d10      | 8.808 | 188  | 562580   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 85.55% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 4.009 | 105  | 33536    | 9.961  | ug/ml  | 95     |
| 29) Acetophenone              | 4.856 | 105  | 55479    | 9.310  | ug/ml  | 94     |
| 30) m-Toluidine               | 4.938 | 106  | 60188    | 9.870  | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.296 | 127  | 55201    | 10.034 | ug/ml  | 95     |
| 56) a-Terpineol               | 5.748 | 59   | 46403    | 10.010 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.765 | 65   | 18420    | 10.355 | ug/ml  | 75     |
| 58) 2,6-Dichlorophenol        | 5.790 | 162  | 36290    | 9.456  | ug/ml  | 96     |
| 59) 1-chloro-2-nitrobenzene   | 6.043 | 111  | 18319    | 10.197 | ug/ml  | 98     |
| 60) Caprolactam               | 6.083 | 55   | 26389    | 9.522  | ug/ml# | 88     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 42220    | 10.161 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.848 | 154  | 108998   | 9.907  | ug/ml  | 98     |
| 84) Dichloran                 | 8.518 | 206  | 12680    | 9.376  | ug/ml  | 87     |
| 85) Pentachloronitrobenzene   | 8.660 | 237  | 12003    | 9.571  | ug/ml  | 92     |
| 99) Diphenamid                | 9.715 | 167  | 76148    | 10.007 | ug/ml  | 88     |

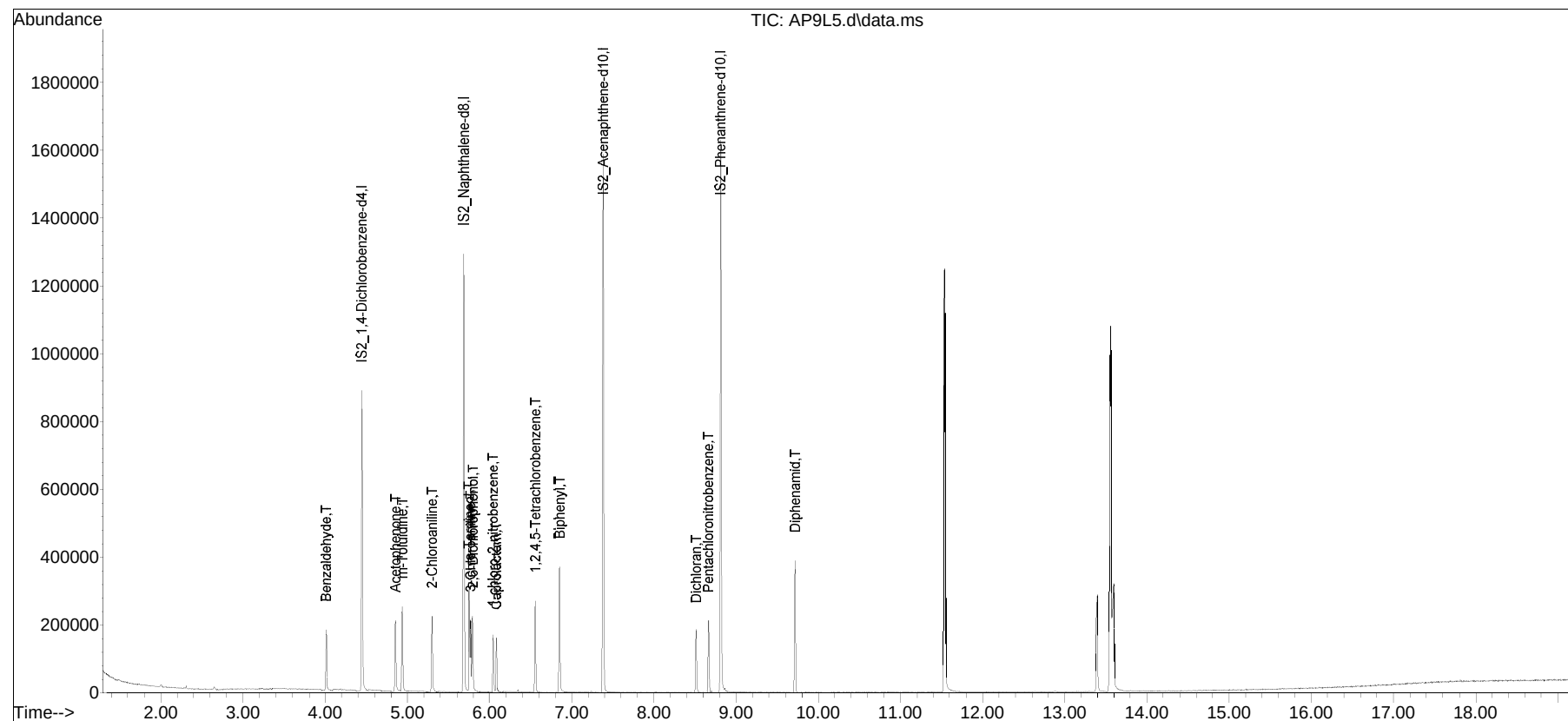
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L5.d  
 Acq On : 1 Dec 2019 5:33 pm  
 Operator : SV103:als  
 Sample : IL16,32,,AP9L10 Lot#8511  
 Misc : WG1316163,,  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 02 16:45:06 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•





# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L5.d Operator : SV103:als  
Date Inj'd : 12/1/2019 5:33 pm Instrument : SV103  
Sample : IL16,32,,AP9L10 Lot#8511 Quant Date : 12/2/2019 2:10 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L4.d  
 Acq On : 1 Dec 2019 5:57 pm  
 Operator : SV103:als  
 Sample : IL17,32,,AP9L5 Lot#8510  
 Misc : WG1316163,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 02 16:44:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 125849   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 89.04% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 520439   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 88.91% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 301321   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 88.28% |          |
| 98) IS2_Phenanthrene-d10      | 8.811 | 188  | 582920   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 88.64% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 4.012 | 105  | 15461    | 4.507 | ug/ml  | 91     |
| 29) Acetophenone              | 4.856 | 105  | 26580    | 4.377 | ug/ml# | 92     |
| 30) m-Toluidine               | 4.938 | 106  | 29070    | 4.678 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 5.299 | 127  | 26553    | 4.737 | ug/ml# | 95     |
| 56) a-Terpineol               | 5.748 | 59   | 22676    | 4.748 | ug/ml  | 94     |
| 57) 3-Chloroaniline           | 5.765 | 65   | 8473     | 4.623 | ug/ml  | 84     |
| 58) 2,6-Dichlorophenol        | 5.790 | 162  | 18546    | 4.691 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 6.046 | 111  | 8722     | 4.712 | ug/ml  | 97     |
| 60) Caprolactam               | 6.080 | 55   | 13663    | 4.786 | ug/ml# | 88     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 21417    | 5.003 | ug/ml  | 100    |
| 62) Biphenyl                  | 6.847 | 154  | 54571    | 4.815 | ug/ml  | 99     |
| 84) Dichloran                 | 8.518 | 206  | 5356     | 3.817 | ug/ml  | 88     |
| 85) Pentachloronitrobenzene   | 8.663 | 237  | 5823     | 4.475 | ug/ml  | 90     |
| 99) Diphenamid                | 9.714 | 167  | 37599    | 4.769 | ug/ml  | 87     |

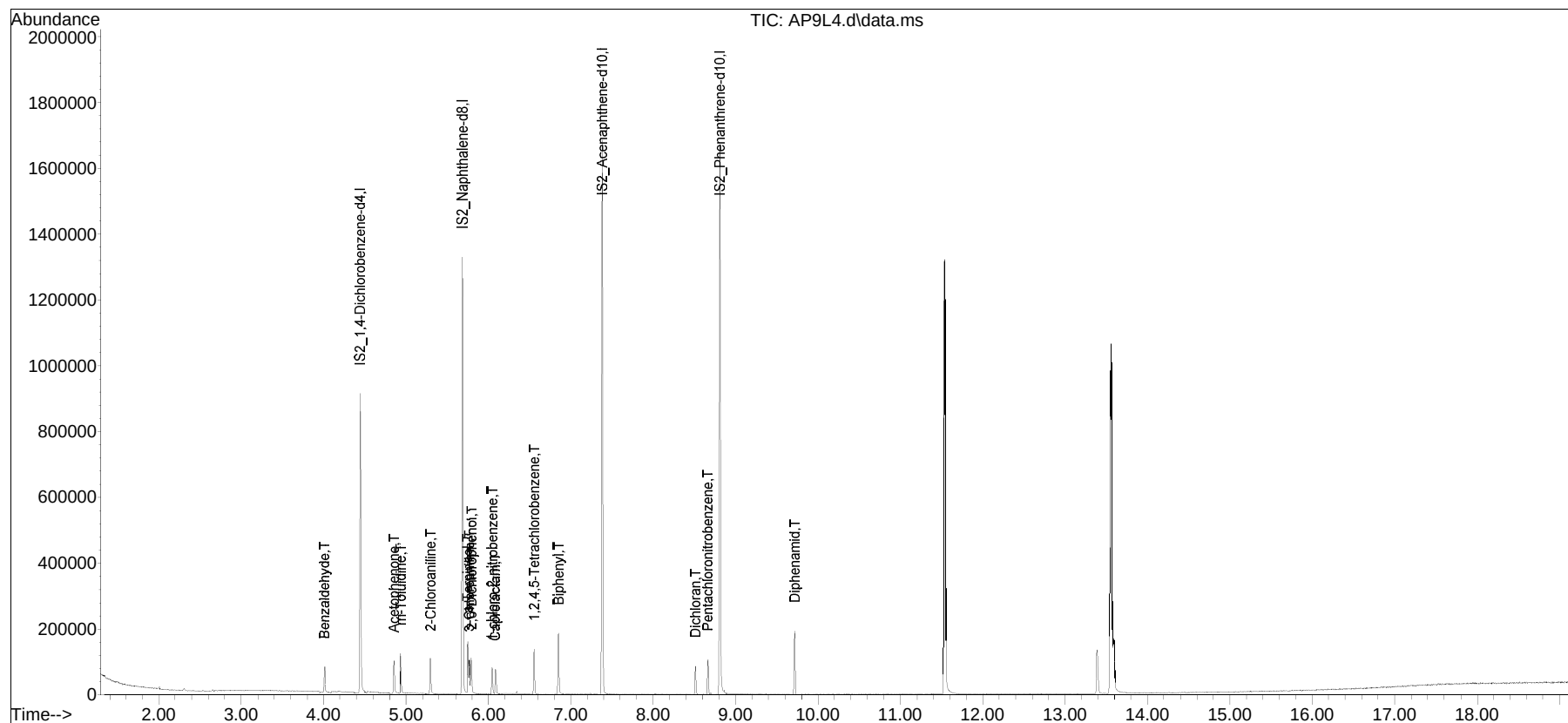
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L4.d  
 Acq On : 1 Dec 2019 5:57 pm  
 Operator : SV103:als  
 Sample : IL17,32,,AP9L5 Lot#8510  
 Misc : WG1316163,,  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 02 16:44:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L4.d Operator : SV103:als  
Date Inj'd : 12/1/2019 5:57 pm Instrument : SV103  
Sample : IL17,32,,AP9L5 Lot#8510 Quant Date : 12/2/2019 2:10 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L3.d  
 Acq On : 1 Dec 2019 6:22 pm  
 Operator : SV103:als  
 Sample : IL18,32,,AP9L3 Lot#8509  
 Misc : WG1316163,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 02 16:43:21 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 130349   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 92.23% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 523952   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 89.51% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 302192   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 88.53% |          |
| 98) IS2_Phenanthrene-d10      | 8.808 | 188  | 593257   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 90.21% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 4.012 | 105  | 9093     | 2.559 | ug/ml  | 91     |
| 29) Acetophenone              | 4.856 | 105  | 15719    | 2.499 | ug/ml# | 89     |
| 30) m-Toluidine               | 4.938 | 106  | 17229    | 2.677 | ug/ml  | 97     |
| 31) 2-Chloroaniline           | 5.299 | 127  | 16195    | 2.789 | ug/ml# | 96     |
| 56) a-Terpineol               | 5.748 | 59   | 14276    | 2.969 | ug/ml  | 95     |
| 57) 3-Chloroaniline           | 5.768 | 65   | 4830M4   | 2.618 | ug/ml  |        |
| 58) 2,6-Dichlorophenol        | 5.791 | 162  | 11416    | 2.868 | ug/ml  | 98     |
| 59) 1-chloro-2-nitrobenzene   | 6.044 | 111  | 5310     | 2.850 | ug/ml  | 98     |
| 60) Caprolactam               | 6.080 | 55   | 8208     | 2.856 | ug/ml# | 85     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 13337    | 3.095 | ug/ml  | 98     |
| 62) Biphenyl                  | 6.848 | 154  | 32855    | 2.879 | ug/ml  | 98     |
| 84) Dichloran                 | 8.518 | 206  | 3589     | 2.551 | ug/ml  | 88     |
| 85) Pentachloronitrobenzene   | 8.660 | 237  | 3587     | 2.749 | ug/ml  | 88     |
| 99) Diphenamid                | 9.715 | 167  | 23112    | 2.880 | ug/ml  | 85     |

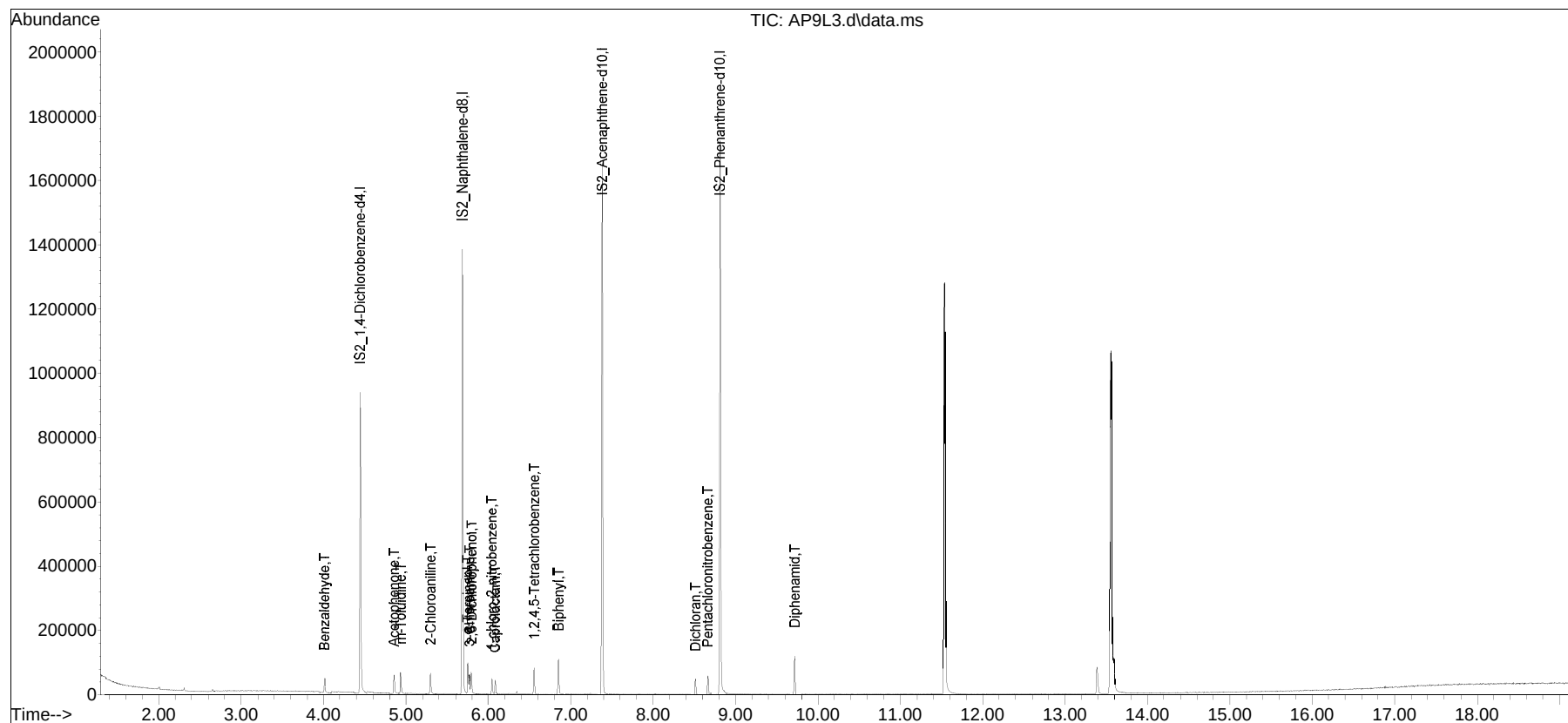
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L3.d  
 Acq On : 1 Dec 2019 6:22 pm  
 Operator : SV103:als  
 Sample : IL18,32,,AP9L3 Lot#8509  
 Misc : WG1316163,,  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 02 16:43:21 2019  
 Quant Method : I:\8270\SV103\191201ical\Fs191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

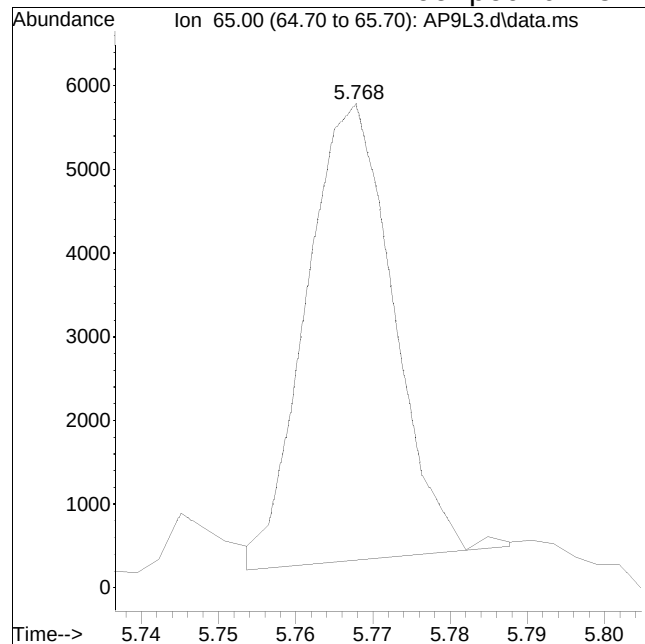
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

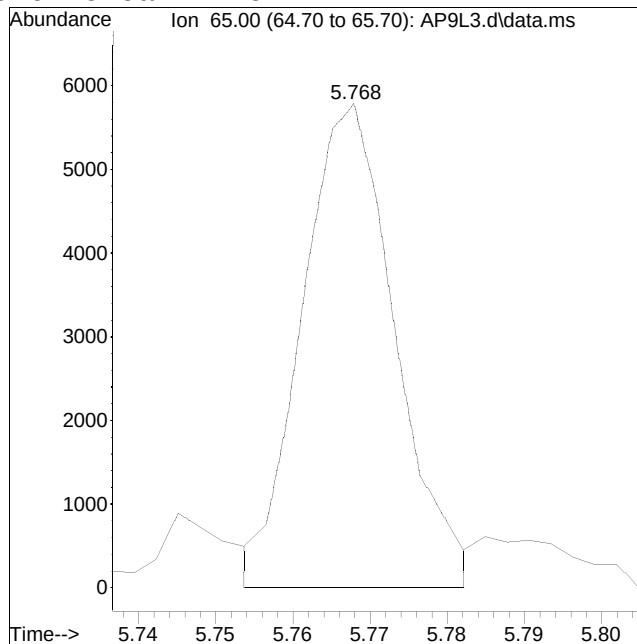
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L3.d Operator : SV103:als  
Date Inj'd : 12/1/2019 6:22 pm Instrument : SV103  
Sample : IL18,32,,AP9L3 Lot#8509 Quant Date : 12/2/2019 2:10 pm

## Compound #57: 3-Chloroaniline



Original Peak Response = 4298

M4 = Poor automated baseline construction.



Manual Peak Response = 4830 M4

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L2.d  
 Acq On : 1 Dec 2019 6:46 pm  
 Operator : SV103:als  
 Sample : IL19,32,,AP9L2 Lot#8508  
 Misc : WG1316163,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 02 16:42:13 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 130306   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 92.20% |          |
| 55) IS2_Naphthalene-d8        | 5.686 | 136  | 518749   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 88.62% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 293435   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 85.97% |          |
| 98) IS2_Phenanthrene-d10      | 8.808 | 188  | 557763   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 84.81% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 4.015 | 105  | 6219     | 1.751 | ug/ml  | 89     |
| 29) Acetophenone              | 4.859 | 105  | 10609    | 1.687 | ug/ml  | 95     |
| 30) m-Toluidine               | 4.938 | 106  | 11202    | 1.741 | ug/ml# | 98     |
| 31) 2-Chloroaniline           | 5.299 | 127  | 10758    | 1.853 | ug/ml# | 93     |
| 56) a-Terpineol               | 5.748 | 59   | 9349     | 1.964 | ug/ml  | 89     |
| 57) 3-Chloroaniline           | 5.768 | 65   | 3266     | 1.788 | ug/ml  | 85     |
| 58) 2,6-Dichlorophenol        | 5.791 | 162  | 7353     | 1.866 | ug/ml  | 94     |
| 59) 1-chloro-2-nitrobenzene   | 6.044 | 111  | 3449     | 1.869 | ug/ml  | 98     |
| 60) Caprolactam               | 6.083 | 55   | 5462     | 1.919 | ug/ml# | 83     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 8389     | 1.966 | ug/ml  | 98     |
| 62) Biphenyl                  | 6.848 | 154  | 20851    | 1.846 | ug/ml  | 100    |
| 84) Dichloran                 | 8.518 | 206  | 2130     | 1.559 | ug/ml  | 91     |
| 85) Pentachloronitrobenzene   | 8.661 | 237  | 2173     | 1.715 | ug/ml  | 87     |
| 99) Diphenamid                | 9.715 | 167  | 14913    | 1.977 | ug/ml  | 85     |

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

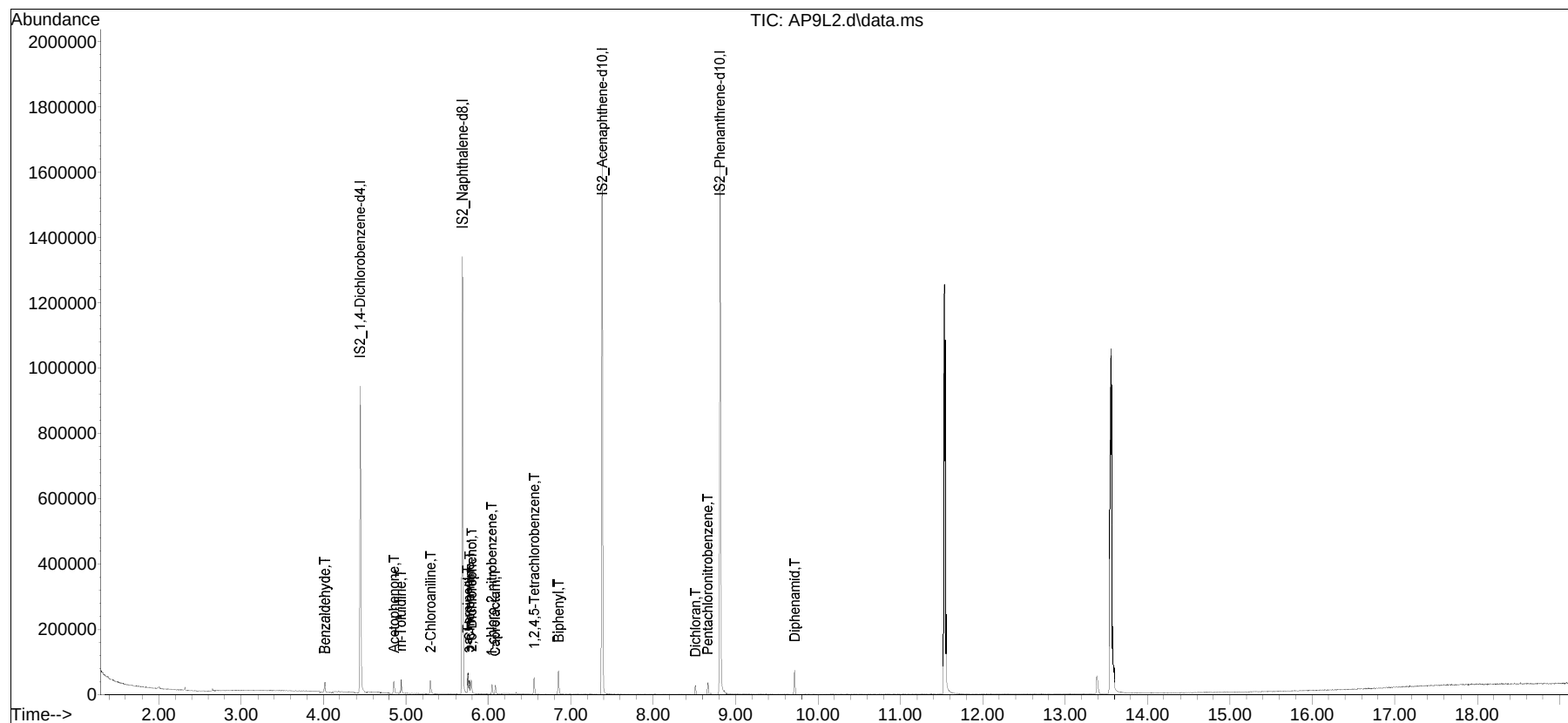


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L2.d  
 Acq On : 1 Dec 2019 6:46 pm  
 Operator : SV103:als  
 Sample : IL19,32,,AP9L2 Lot#8508  
 Misc : WG1316163,,  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 02 16:42:13 2019  
 Quant Method : I:\8270\SV103\191201ical\Fs191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L2.d Operator : SV103:als  
Date Inj'd : 12/1/2019 6:46 pm Instrument : SV103  
Sample : IL19,32,,AP9L2 Lot#8508 Quant Date : 12/2/2019 2:10 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L1.d  
 Acq On : 1 Dec 2019 7:10 pm  
 Operator : SV103:als  
 Sample : IL20,32,,AP9L1 Lot#8507  
 Misc : WG1316163,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 02 16:40:19 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 128602   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 90.99% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 514719   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 87.93% |          |
| 83) IS2_Acenaphthene-d10      | 7.385 | 164  | 291987   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 85.54% |          |
| 98) IS2_Phenanthrene-d10      | 8.808 | 188  | 575211   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 87.47% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 28) Benzaldehyde              | 4.018 | 105  | 1100M4   | 0.314 | ug/ml  |        |
| 29) Acetophenone              | 4.861 | 105  | 2487     | 0.401 | ug/ml# | 75     |
| 30) m-Toluidine               | 4.941 | 106  | 2641     | 0.416 | ug/ml# | 93     |
| 31) 2-Chloroaniline           | 5.299 | 127  | 2321     | 0.405 | ug/ml# | 85     |
| 56) a-Terpineol               | 5.751 | 59   | 2401     | 0.508 | ug/ml  | 90     |
| 57) 3-Chloroaniline           | 5.768 | 65   | 814      | 0.449 | ug/ml# | 68     |
| 58) 2,6-Dichlorophenol        | 5.791 | 162  | 1652     | 0.422 | ug/ml  | 94     |
| 59) 1-chloro-2-nitrobenzene   | 6.046 | 111  | 697      | 0.381 | ug/ml# | 89     |
| 60) Caprolactam               | 6.092 | 55   | 1292     | 0.458 | ug/ml# | 59     |
| 61) 1,2,4,5-Tetrachloroben... | 6.552 | 216  | 1859     | 0.439 | ug/ml# | 88     |
| 62) Biphenyl                  | 6.845 | 154  | 5201     | 0.464 | ug/ml  | 92     |
| 84) Dichloran                 | 8.516 | 206  | 401M2    | 0.295 | ug/ml  |        |
| 85) Pentachloronitrobenzene   | 8.660 | 237  | 543      | 0.431 | ug/ml# | 7      |
| 99) Diphenamid                | 9.715 | 167  | 3662     | 0.471 | ug/ml  | 83     |

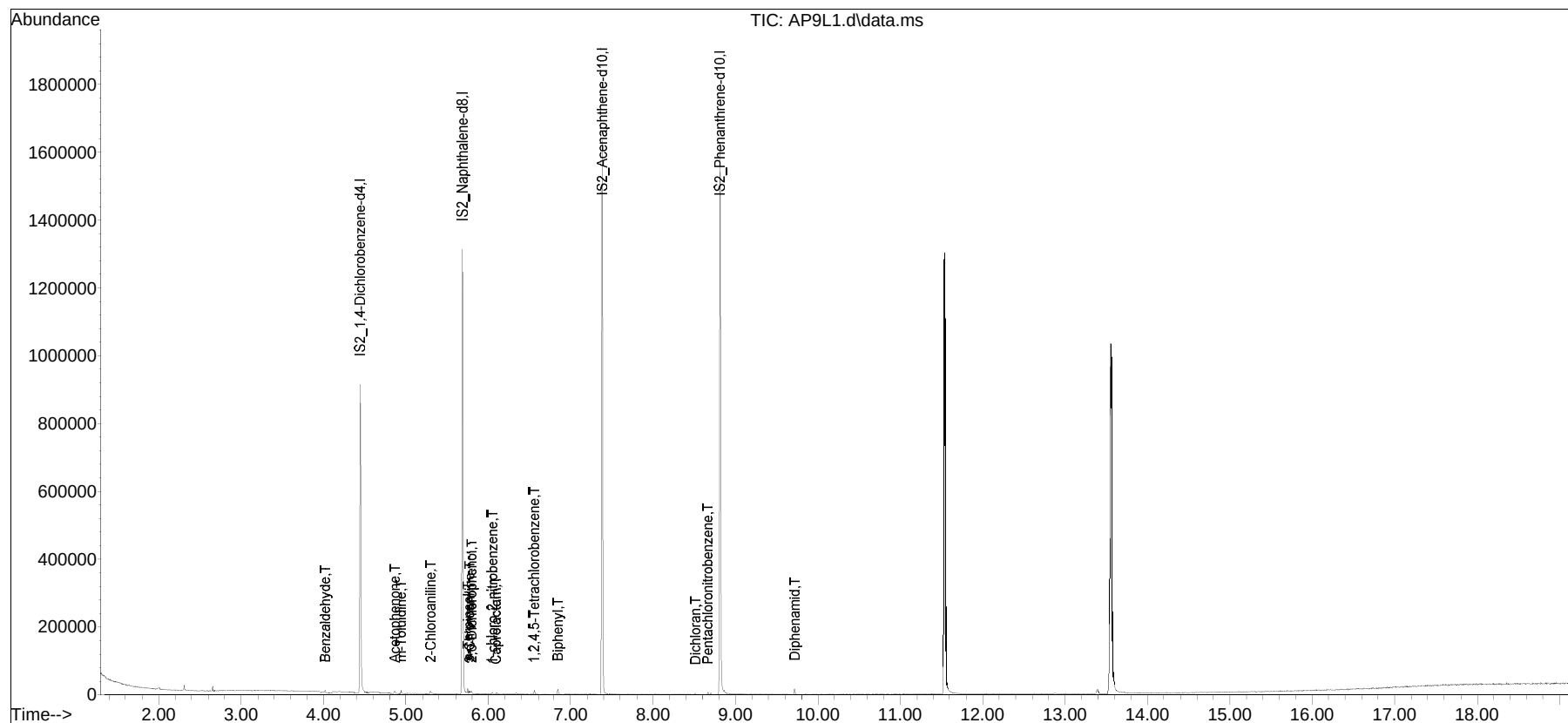
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9L1.d  
 Acq On : 1 Dec 2019 7:10 pm  
 Operator : SV103:als  
 Sample : IL20,32,,AP9L1 Lot#8507  
 Misc : WG1316163,,  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 02 16:40:19 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

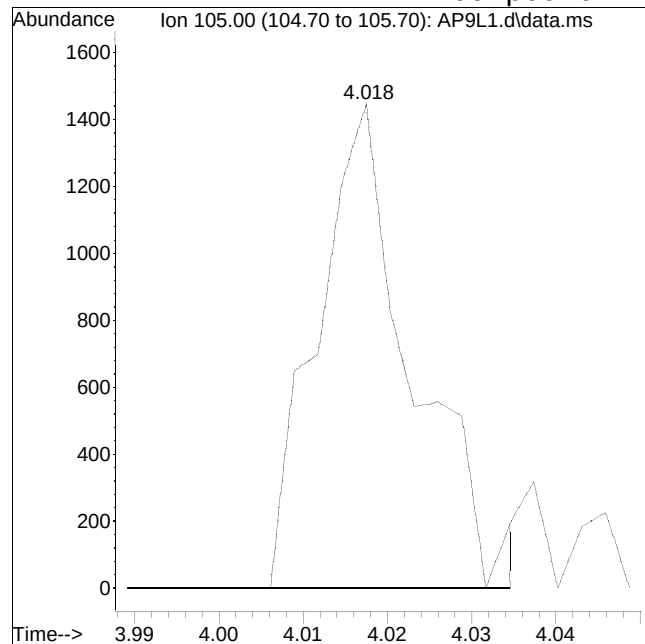
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



# Manual Integration Report

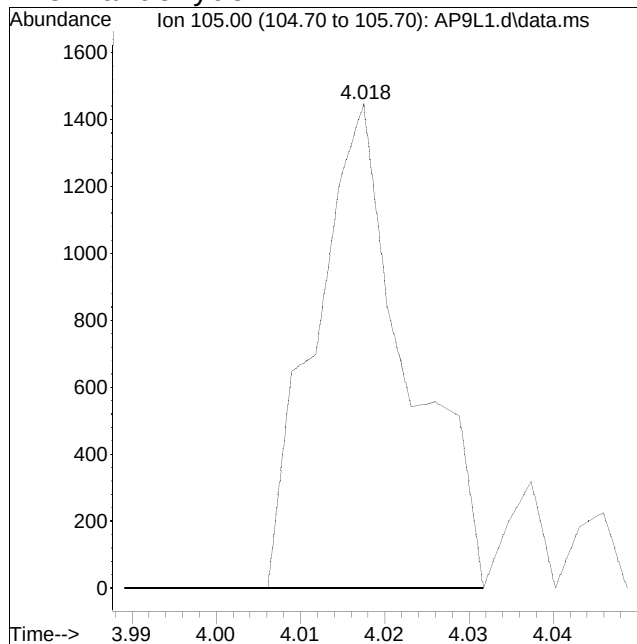
Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L1.d Operator : SV103:als  
Date Inj'd : 12/1/2019 7:10 pm Instrument : SV103  
Sample : IL20, 32,, AP9L1 Lot#8507 Quant Date : 12/2/2019 2:10 pm

## Compound #28: Benzaldehyde



Original Peak Response = 1133

M4 = Poor automated baseline construction.

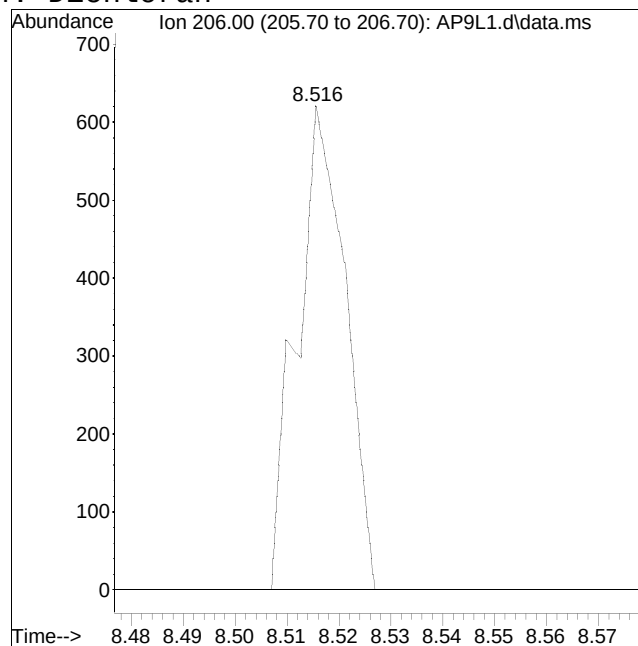
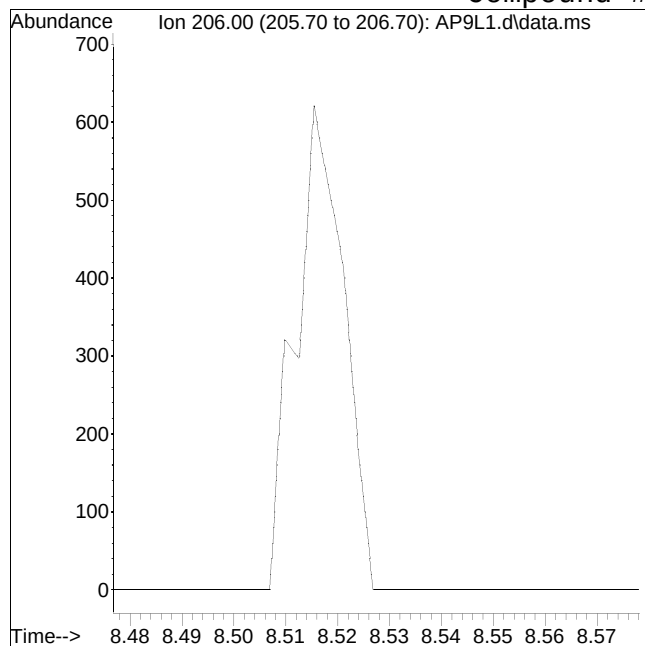


Manual Peak Response = 1100 M4

# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9L1.d Operator : SV103:als  
Date Inj'd : 12/1/2019 7:10 pm Instrument : SV103  
Sample : IL20,32,,AP9L1 Lot#8507 Quant Date : 12/2/2019 2:10 pm

## Compound #84: Dichloran



Original Peak Response = 0

Manual Peak Response = 401 M2

M2 = Peak not found by automatic integration algorithm.

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNICV.d  
 Acq On : 1 Dec 2019 7:34 pm  
 Operator : SV103:als  
 Sample : CQICV1,32,,ABN ICV Lot#8527  
 Misc : WG1316163,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:11:10 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | IS1_1,4-Dichlorobenzene-d4  | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 2 t  | n-Nitrosodimethylamine      | 0.731 | 0.760 | -4.0  | 92    | 0.00     |
| 3 t  | Pyridine                    | 1.183 | 1.349 | -14.0 | 103   | 0.00     |
| 4 S  | 2-Fluorophenol              | 1.075 | 1.141 | -6.1  | 91    | 0.00     |
| 5 T  | Aniline                     | 1.865 | 1.921 | -3.0  | 94    | 0.00     |
| 6 t  | 2-Chlorophenol              | 1.241 | 1.359 | -9.5  | 94    | 0.00     |
| 7 S  | Phenol-d6                   | 1.348 | 1.451 | -7.6  | 90    | 0.00     |
| 8 T  | Phenol                      | 1.515 | 1.592 | -5.1  | 94    | 0.00     |
| 9 T  | Bis(2-chloroethyl)ether     | 1.119 | 1.198 | -7.1  | 94    | 0.00     |
| 10 T | 1,3-Dichlorobenzene         | 1.460 | 1.503 | -2.9  | 95    | 0.00     |
| 11 T | 1,4-Dichlorobenzene         | 1.496 | 1.494 | 0.1   | 93    | 0.00     |
| 12 T | 1,2-Dichlorobenzene         | 1.451 | 1.465 | -1.0  | 94    | 0.00     |
| 13 t | Benzyl alcohol              | 0.976 | 1.009 | -3.4  | 90    | 0.00     |
| 14 T | Bis(2-chloroisopropyl)ether | 2.503 | 2.480 | 0.9   | 92    | 0.00     |
| 15 T | 2-Methylphenol              | 1.182 | 1.211 | -2.5  | 93    | 0.00     |
| 16 T | Hexachloroethane            | 0.599 | 0.590 | 1.5   | 93    | 0.00     |
| 17 T | n-Nitrosodi-n-propylamine   | 0.916 | 0.964 | -5.2  | 92    | 0.00     |
| 18 T | 3-Methylphenol/4-Methylphen | 1.240 | 1.286 | -3.7  | 94    | 0.00     |
| 19 S | Nitrobenzene-d5             | 1.224 | 1.314 | -7.4  | 92    | 0.00     |
| 20 T | Nitrobenzene                | 1.328 | 1.373 | -3.4  | 93    | 0.00     |
| 21 T | Isophorone                  | 2.442 | 2.554 | -4.6  | 93    | 0.00     |
| 22 T | 2-Nitrophenol               | 0.708 | 0.726 | -2.5  | 93    | 0.00     |
| 23 T | 2,4-Dimethylphenol          | 1.236 | 1.262 | -2.1  | 92    | 0.00     |
| 24 T | Bis(2-chloroethoxy)methane  | 1.491 | 1.614 | -8.2  | 94    | 0.00     |
| 25 T | 2,4-Dichlorophenol          | 1.156 | 1.181 | -2.2  | 93    | 0.00     |
| 26 T | 1,2,4-Trichlorobenzene      | 1.261 | 1.278 | -1.3  | 94    | 0.00     |
| 35 I | IS1_Naphthalene-d8          | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 36 T | Naphthalene                 | 0.977 | 0.969 | 0.8   | 93    | 0.00     |
| 37 T | Benzoic Acid                | 0.220 | 0.217 | 1.4   | 92    | 0.00     |
| 38 T | 4-Chloroaniline             | 0.117 | 0.122 | -4.3  | 97    | 0.00     |
| 39 T | Hexachlorobutadiene         | 0.166 | 0.170 | -2.4  | 93    | 0.00     |
| 40 T | p-Chloro-m-cresol           | 0.270 | 0.270 | 0.0   | 92    | 0.00     |
| 41 T | 2-Methylnaphthalene         | 0.678 | 0.686 | -1.2  | 95    | 0.00     |
| 42 T | 1-Methylnaphthalene         | 0.215 | 0.212 | 1.4   | 95    | 0.00     |
| 43 T | Hexachlorocyclopentadiene   | 0.182 | 0.175 | 3.8   | 90    | 0.00     |
| 44 T | 2,4,6-Trichlorophenol       | 0.202 | 0.198 | 2.0   | 92    | 0.00     |
| 45 T | 2,4,5-Trichlorophenol       | 0.216 | 0.216 | 0.0   | 94    | 0.00     |
| 46 S | 2-Fluorobiphenyl            | 0.709 | 0.733 | -3.4  | 92    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNICV.d  
 Acq On : 1 Dec 2019 7:34 pm  
 Operator : SV103:als  
 Sample : CQICV1,32,,ABN ICV Lot#8527  
 Misc : WG1316163,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:11:10 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|----------|--------|-------|-------|----------|
| 47 T | 2-Chloronaphthalene         | 0.624    | 0.627  | -0.5  | 95    | 0.00     |
| 48 T | 2-Nitroaniline              | 0.211    | 0.215  | -1.9  | 94    | 0.00     |
| 49 T | 1,4-Dinitrobenzene          | 0.099    | 0.097  | 2.0   | 94    | 0.00     |
| 50 T | 1,3-Dinitrobenzene          | 0.111    | 0.115  | -3.6  | 95    | 0.00     |
| 51 T | Dimethyl phthalate          | 0.768    | 0.749  | 2.5   | 94    | 0.00     |
| 52 T | Acenaphthylene              | 1.050    | 1.038  | 1.1   | 95    | 0.00     |
| 53 T | 2,6-Dinitrotoluene          | 0.166    | 0.171  | -3.0  | 95    | 0.00     |
| 54 T | 1,2-Dinitrobenzene          | 0.073    | 0.075  | -2.7  | 97    | 0.00     |
| 63 I | IS1_Acenaphthene-d10        | 1.000    | 1.000  | 0.0   | 95    | 0.00     |
| 64 T | 3-Nitroaniline              | 0.311    | 0.329  | -5.8  | 100   | 0.00     |
| 65 T | Acenaphthene                | 1.084    | 1.074  | 0.9   | 95    | 0.00     |
| 66 T | 2,4-Dinitrophenol           | * 50.000 | 45.853 | 8.3   | 90    | 0.00     |
| 67 T | Dibenzofuran                | 1.601    | 1.617  | -1.0  | 95    | 0.00     |
| 68 T | 2,4-Dinitrotoluene          | 0.384    | 0.401  | -4.4  | 96    | 0.00     |
| 69 T | 4-Nitrophenol               | 0.230    | 0.228  | 0.9   | 94    | 0.00     |
| 70 T | 2,3,5,6-Tetrachlorophenol   | 0.307    | 0.311  | -1.3  | 94    | 0.00     |
| 71 T | 2,3,4,6-Tetrachlorophenol   | 0.319    | 0.315  | 1.3   | 93    | 0.00     |
| 72 T | Diethyl phthalate           | 1.372    | 1.366  | 0.4   | 94    | 0.00     |
| 73 T | Fluorene                    | 1.313    | 1.335  | -1.7  | 96    | 0.00     |
| 74 T | 4-Chlorophenyl phenyl ether | 0.617    | 0.612  | 0.8   | 95    | 0.00     |
| 75 T | 4-Nitroaniline              | 0.302    | 0.308  | -2.0  | 96    | 0.00     |
| 76 T | 4,6-Dinitro-o-cresol        | 0.230    | 0.239  | -3.9  | 93    | 0.00     |
| 77 T | NDPA/DPA                    | 1.051    | 1.142  | -8.7  | 96    | 0.00     |
| 78 T | Azobenzene                  | 1.242    | 1.276  | -2.7  | 95    | 0.00     |
| 79 S | 2,4,6-Tribromophenol        | 0.182    | 0.179  | 1.6   | 92    | 0.00     |
| 80 T | 4-Bromophenyl phenyl ether  | 0.342    | 0.337  | 1.5   | 93    | 0.00     |
| 81 T | Hexachlorobenzene           | 0.383    | 0.390  | -1.8  | 95    | 0.00     |
| 82 T | Pentachlorophenol           | 0.178    | 0.213  | -19.7 | 97    | 0.00     |
| 88 I | IS1_Phenanthrene-d10        | 1.000    | 1.000  | 0.0   | 97    | 0.00     |
| 89 T | Phenanthrene                | 1.036    | 1.031  | 0.5   | 97    | 0.00     |
| 90 T | Anthracene                  | 1.045    | 1.076  | -3.0  | 97    | 0.00     |
| 91 T | Carbazole                   | 0.944    | 0.975  | -3.3  | 97    | 0.00     |
| 92 T | Di-n-butylphthalate         | 1.214    | 1.231  | -1.4  | 95    | 0.00     |
| 93 T | Fluoranthene                | 1.140    | 1.172  | -2.8  | 98    | 0.00     |
| 94 T | Benzidine                   | 0.754    | 0.801  | -6.2  | 96    | 0.00     |
| 95 T | Pyrene                      | 1.199    | 1.214  | -1.3  | 98    | 0.00     |
| 96 S | 4-Terphenyl-d14             | 0.692    | 0.729  | -5.3  | 95    | 0.00     |



# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNICV.d  
 Acq On : 1 Dec 2019 7:34 pm  
 Operator : SV103:als  
 Sample : CQICV1,32,,ABN ICV Lot#8527  
 Misc : WG1316163,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:11:10 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| 97 T  | Butyl benzyl phthalate     | 0.538 | 0.553 | -2.8 | 95    | 0.00     |
| 104 I | IS1_Chrysene-d12           | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 105 T | Benzo(a)anthracene         | 1.174 | 1.190 | -1.4 | 97    | 0.00     |
| 106 T | 3,3'-Dichlorobenzidine     | 0.446 | 0.480 | -7.6 | 97    | 0.00     |
| 107 T | Chrysene                   | 1.204 | 1.233 | -2.4 | 102   | 0.00     |
| 108 T | Bis(2-ethylhexyl)phthalate | 0.901 | 0.931 | -3.3 | 92    | 0.00     |
| 109 T | Di-n-octylphthalate        | 1.566 | 1.586 | -1.3 | 92    | 0.00     |
| 110 T | Benzo(b)fluoranthene       | 1.072 | 1.173 | -9.4 | 102   | 0.00     |
| 111 T | Benzo(k)fluoranthene       | 1.116 | 1.211 | -8.5 | 99    | 0.00     |
| 112 T | Benzo(a)pyrene             | 1.010 | 1.096 | -8.5 | 101   | 0.00     |
| 113 I | IS1_Perylene-d12           | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 114 T | Indeno(1,2,3-cd)pyrene     | 0.958 | 0.948 | 1.0  | 99    | 0.00     |
| 115 T | Dibenzo(a,h)anthracene     | 0.923 | 0.976 | -5.7 | 100   | 0.00     |
| 116 T | Benzo(ghi)perylene         | 1.046 | 1.035 | 1.1  | 99    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNICV.d  
 Acq On : 1 Dec 2019 7:34 pm  
 Operator : SV103:als  
 Sample : CQICV1,32,,ABN ICV Lot#8527  
 Misc : WG1316163,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:11:10 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.444          | 152  | 141295              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 152538      |                |      | Recovery = 92.63%   |        |        |          |
| 35) IS1_Naphthalene-d8        | 5.685          | 136  | 587618              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 623099      |                |      | Recovery = 94.31%   |        |        |          |
| 63) IS1_Acenaphthene-d10      | 7.387          | 164  | 336708              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 355293      |                |      | Recovery = 94.77%   |        |        |          |
| 88) IS1_Phenanthrene-d10      | 8.811          | 188  | 647674              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 666976      |                |      | Recovery = 97.11%   |        |        |          |
| 104) IS1_Chrysene-d12         | 11.542         | 240  | 577902              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 580721      |                |      | Recovery = 99.51%   |        |        |          |
| 113) IS1_Perylene-d12         | 13.559         | 264  | 635652              | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 628663      |                |      | Recovery = 101.11%  |        |        |          |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 4) 2-Fluorophenol             | 3.162          | 112  | 201600              | 53.107 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 106.21%  |        |        |          |
| 7) Phenol-d6                  | 4.148          | 99   | 256292              | 53.837 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 107.67%  |        |        |          |
| 19) Nitrobenzene-d5           | 4.995          | 82   | 232053              | 53.682 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 214.73%# |        |        |          |
| 46) 2-Fluorobiphenyl          | 6.760          | 172  | 538403              | 51.700 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 206.80%# |        |        |          |
| 79) 2,4,6-Tribromophenol      | 8.152          | 330  | 75380               | 49.102 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = 98.20%   |        |        |          |
| 96) 4-Terphenyl-d14           | 10.382         | 244  | 590158              | 52.651 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = 210.60%# |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.744          | 74   | 134286              | 52.016 | ug/ml  | 95       |
| 3) Pyridine                   | 1.770          | 79   | 238331              | 57.056 | ug/ml  | 97       |
| 5) Aniline                    | 4.125          | 93   | 339339              | 51.503 | ug/ml  | 92       |
| 6) 2-Chlorophenol             | 4.242          | 128  | 240069              | 54.777 | ug/ml  | 94       |
| 8) Phenol                     | 4.160          | 94   | 281213              | 52.556 | ug/ml# | 92       |
| 9) Bis(2-chloroethyl)ether    | 4.214          | 93   | 211534              | 53.499 | ug/ml  | 98       |
| 10) 1,3-Dichlorobenzene       | 4.387          | 146  | 265449              | 51.458 | ug/ml  | 96       |
| 11) 1,4-Dichlorobenzene       | 4.461          | 146  | 263940              | 49.935 | ug/ml  | 96       |
| 12) 1,2-Dichlorobenzene       | 4.609          | 146  | 258661              | 50.481 | ug/ml  | 95       |
| 13) Benzyl alcohol            | 4.609          | 79   | 178257              | 51.714 | ug/ml  | 95       |
| 14) Bis(2-chloroisopropyl)... | 4.751          | 45   | 438036              | 49.541 | ug/ml  | 94       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNICV.d  
 Acq On : 1 Dec 2019 7:34 pm  
 Operator : SV103:als  
 Sample : CQICV1,32,,ABN ICV Lot#8527  
 Misc : WG1316163,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:11:10 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 15) | 2-Methylphenol            | 4.748 | 108  | 213893   | 51.229 | ug/ml  | 96       |
| 16) | Hexachloroethane          | 4.932 | 117  | 104262   | 49.311 | ug/ml  | 85       |
| 17) | n-Nitrosodi-n-propylamine | 4.876 | 70   | 170257   | 52.618 | ug/ml  | 98       |
| 18) | 3-Methylphenol/4-Methy... | 4.910 | 108  | 227168   | 51.861 | ug/ml  | 96       |
| 20) | Nitrobenzene              | 5.012 | 77   | 242569   | 51.695 | ug/ml  | 95       |
| 21) | Isophorone                | 5.256 | 82   | 451061   | 52.296 | ug/ml  | 97       |
| 22) | 2-Nitrophenol             | 5.330 | 139  | 128159   | 51.240 | ug/ml  | 90       |
| 23) | 2,4-Dimethylphenol        | 5.418 | 107  | 222904   | 51.073 | ug/ml  | 95       |
| 24) | Bis(2-chloroethoxy)met... | 5.498 | 93   | 285099   | 54.134 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.575 | 162  | 208658   | 51.110 | ug/ml  | 94       |
| 26) | 1,2,4-Trichlorobenzene    | 5.643 | 180  | 225643   | 50.659 | ug/ml  | 97       |
| 36) | Naphthalene               | 5.705 | 128  | 711443   | 49.544 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 5.535 | 105  | 159142   | 49.292 | ug/ml  | 95       |
| 38) | 4-Chloroaniline           | 5.785 | 65   | 89307    | 51.766 | ug/ml  | 82       |
| 39) | Hexachlorobutadiene       | 5.856 | 225  | 125189   | 51.240 | ug/ml  | 100      |
| 40) | p-Chloro-m-cresol         | 6.293 | 107  | 198598   | 50.100 | ug/ml  | 88       |
| 41) | 2-Methylnaphthalene       | 6.384 | 142  | 503923   | 50.618 | ug/ml  | 96       |
| 42) | 1-Methylnaphthalene       | 6.478 | 115  | 156035   | 49.445 | ug/ml  | 78       |
| 43) | Hexachlorocyclopentadiene | 6.552 | 237  | 128756   | 48.070 | ug/ml  | 96       |
| 44) | 2,4,6-Trichlorophenol     | 6.680 | 196  | 145773   | 49.073 | ug/ml  | 95       |
| 45) | 2,4,5-Trichlorophenol     | 6.711 | 196  | 158718   | 50.085 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.850 | 162  | 460267   | 50.237 | ug/ml  | 95       |
| 48) | 2-Nitroaniline            | 6.970 | 138  | 158216   | 51.133 | ug/ml  | 88       |
| 49) | 1,4-Dinitrobenzene        | 7.112 | 168  | 71464    | 48.949 | ug/ml# | 75       |
| 50) | 1,3-Dinitrobenzene        | 7.186 | 168  | 84233    | 51.575 | ug/ml# | 73       |
| 51) | Dimethyl phthalate        | 7.172 | 163  | 550131   | 48.756 | ug/ml  | 100      |
| 52) | Acenaphthylene            | 7.245 | 152  | 762199   | 49.436 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 7.217 | 165  | 125380   | 51.284 | ug/ml  | 86       |
| 54) | 1,2-Dinitrobenzene        | 7.257 | 168  | 54819    | 51.269 | ug/ml  | 82       |
| 64) | 3-Nitroaniline            | 7.370 | 138  | 138532   | 52.843 | ug/ml  | 90       |
| 65) | Acenaphthene              | 7.419 | 154  | 451983   | 49.551 | ug/ml  | 97       |
| 66) | 2,4-Dinitrophenol         | 7.478 | 184  | 68160    | 45.853 | ug/ml  | 85       |
| 67) | Dibenzofuran              | 7.586 | 168  | 680746   | 50.513 | ug/ml# | 84       |
| 68) | 2,4-Dinitrotoluene        | 7.606 | 165  | 168851   | 52.207 | ug/ml# | 73       |
| 69) | 4-Nitrophenol             | 7.578 | 65   | 95899    | 49.533 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.683 | 232  | 130932   | 50.642 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.723 | 232  | 132384   | 49.276 | ug/ml  | 99       |
| 72) | Diethyl phthalate         | 7.862 | 149  | 574936   | 49.776 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.916 | 166  | 561760   | 50.812 | ug/ml  | 98       |
| 74) | 4-Chlorophenyl phenyl ... | 7.936 | 204  | 257784   | 49.652 | ug/ml# | 87       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ABNICV.d  
 Acq On : 1 Dec 2019 7:34 pm  
 Operator : SV103:als  
 Sample : CQICV1,32,,ABN ICV Lot#8527  
 Misc : WG1316163,,  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:11:10 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ABNL7.d  
 Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 75)  | 4-Nitroaniline            | 7.959  | 138  | 129730   | 50.960 | ug/ml# | 80       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.998  | 198  | 100437   | 51.773 | ug/ml# | 82       |
| 77)  | NDPA/DPA                  | 8.055  | 169  | 480450   | 54.282 | ug/ml  | 99       |
| 78)  | Azobenzene                | 8.086  | 77   | 537107   | 51.360 | ug/ml  | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 8.402  | 248  | 141868   | 49.223 | ug/ml# | 89       |
| 81)  | Hexachlorobenzene         | 8.453  | 284  | 164027   | 50.910 | ug/ml  | 96       |
| 82)  | Pentachlorophenol         | 8.652  | 266  | 89510    | 59.623 | ug/ml  | 98       |
| 89)  | Phenanthrene              | 8.834  | 178  | 834483   | 49.726 | ug/ml  | 99       |
| 90)  | Anthracene                | 8.882  | 178  | 871124   | 51.466 | ug/ml  | 99       |
| 91)  | Carbazole                 | 9.055  | 167  | 789667   | 51.640 | ug/ml  | 100      |
| 92)  | Di-n-butylphthalate       | 9.445  | 149  | 996861   | 50.731 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.979  | 202  | 949014   | 51.417 | ug/ml  | 98       |
| 94)  | Benzidine                 | 10.138 | 184  | 648272   | 53.117 | ug/ml  | 98       |
| 95)  | Pyrene                    | 10.189 | 202  | 983180   | 50.654 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.942 | 149  | 447628   | 51.339 | ug/ml  | 90       |
| 105) | Benzo(a)anthracene        | 11.530 | 228  | 859412   | 50.689 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.539 | 252  | 347015   | 53.851 | ug/ml  | 98       |
| 107) | Chrysene                  | 11.576 | 228  | 890946   | 51.237 | ug/ml  | 100      |
| 108) | Bis(2-ethylhexyl)phtha... | 11.706 | 149  | 672188   | 51.649 | ug/ml  | 98       |
| 109) | Di-n-octylphthalate       | 12.636 | 149  | 1145529  | 50.632 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 13.011 | 252  | 847679   | 54.712 | ug/ml  | 99       |
| 111) | Benzo(k)fluoranthene      | 13.050 | 252  | 874721   | 54.246 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 13.474 | 252  | 791384   | 54.227 | ug/ml  | 99       |
| 114) | Indeno(1,2,3-cd)pyrene    | 15.119 | 276  | 753237   | 49.472 | ug/mL  | 100      |
| 115) | Dibenzo(a,h)anthracene    | 15.170 | 278  | 775148   | 52.839 | ug/ml  | 99       |
| 116) | Benzo(ghi)perylene        | 15.483 | 276  | 822121   | 49.451 | ug/ml  | 95       |

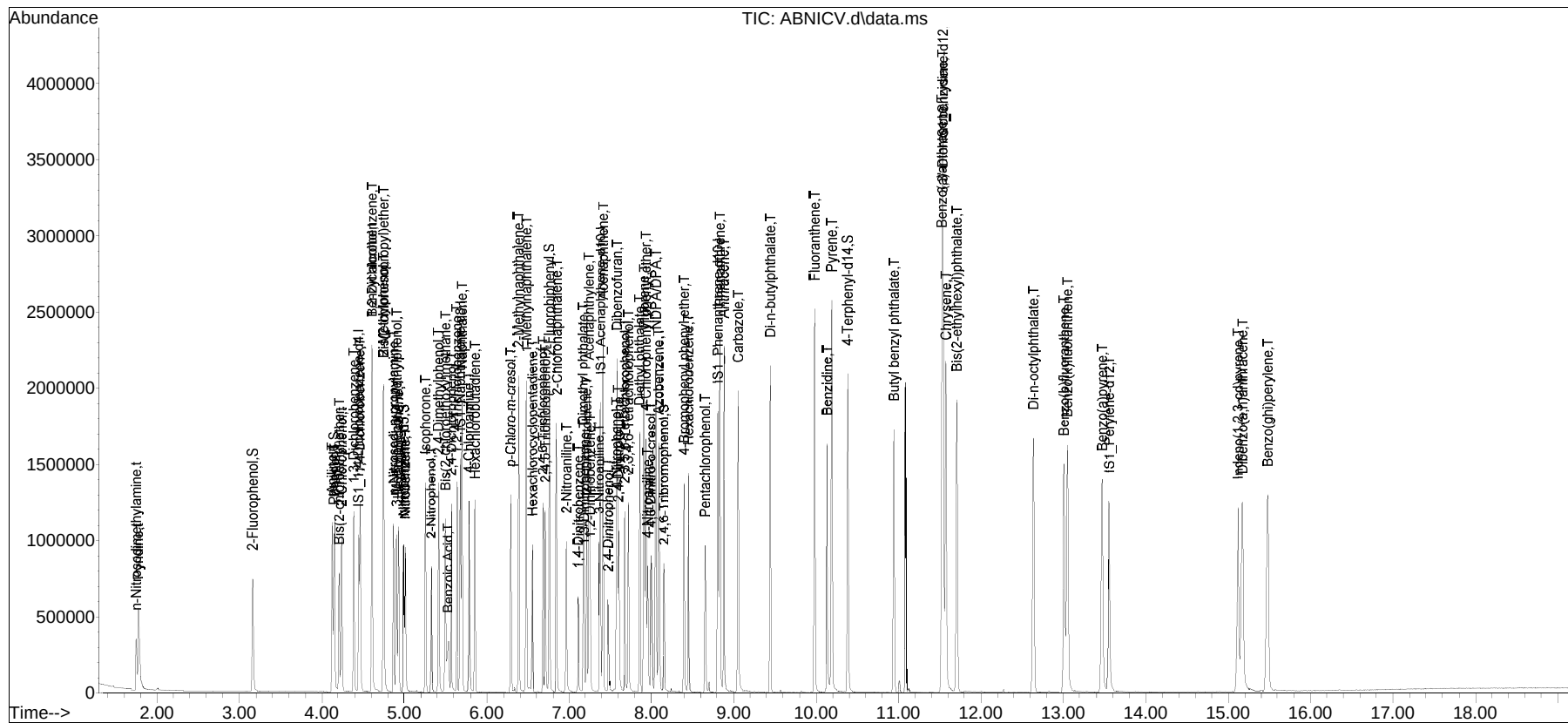
(#) = qualifier out of range (m) = manual integration (+) = signals summed

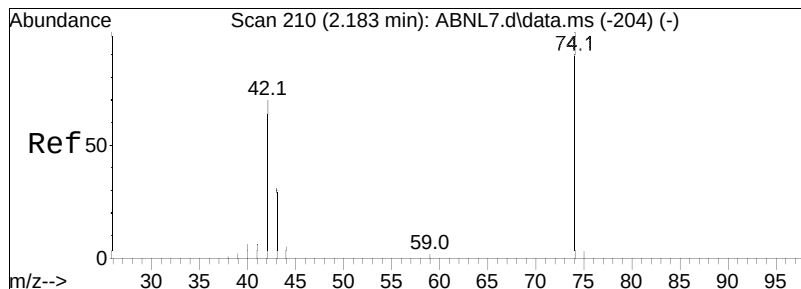
(QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
Data File : ABNICV.d  
Acq On : 1 Dec 2019 7:34 pm  
Operator : SV103:als  
Sample : CQICV1,32,,ABN ICV Lot#8527  
Misc : WG1316163,,  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 03 11:11:17 2019  
Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Dec 03 11:11:10 2019  
Response via : Initial Calibration

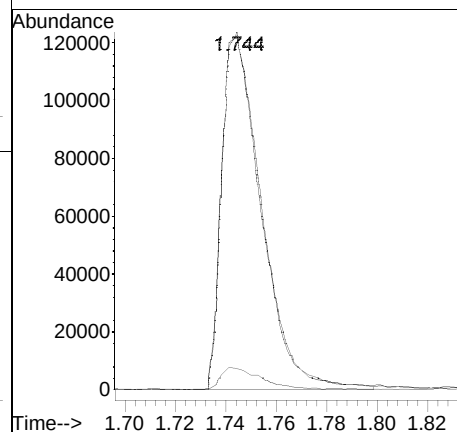
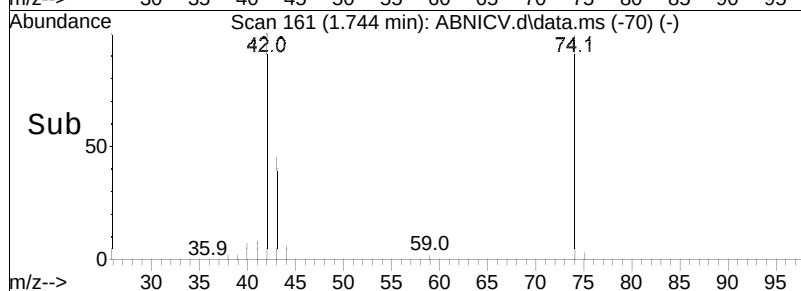
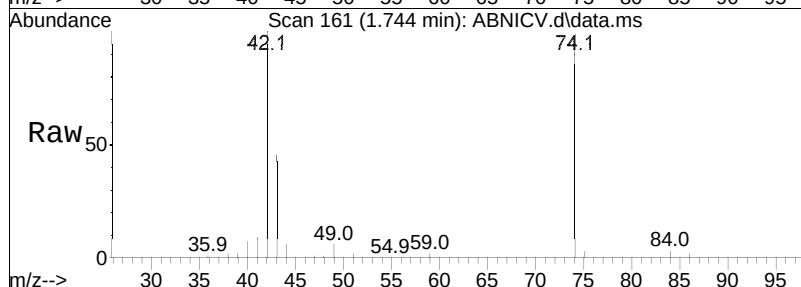
Sub List : ABNical - ABN ical sublistal\ABNL7.d•

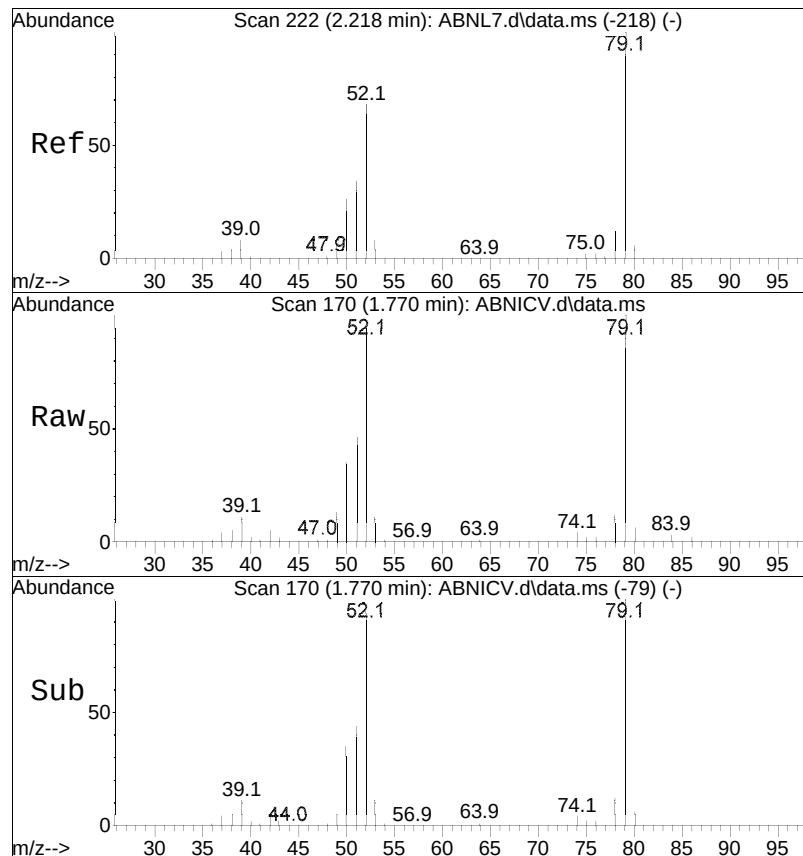




#2  
 n-Nitrosodimethylamine  
 Concen: 52.02 ug/ml  
 RT: 1.744 min Scan# 161  
 Delta R.T. 0.008 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

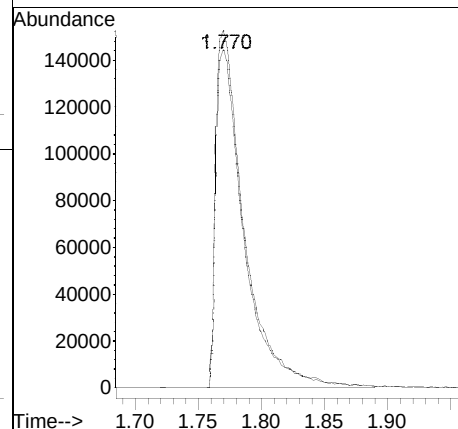
Tgt Ion: 74 Resp: 134286  
 Ion Ratio Lower Upper  
 74 100  
 42 98.3 74.5 111.7  
 44 6.0 5.5 8.3

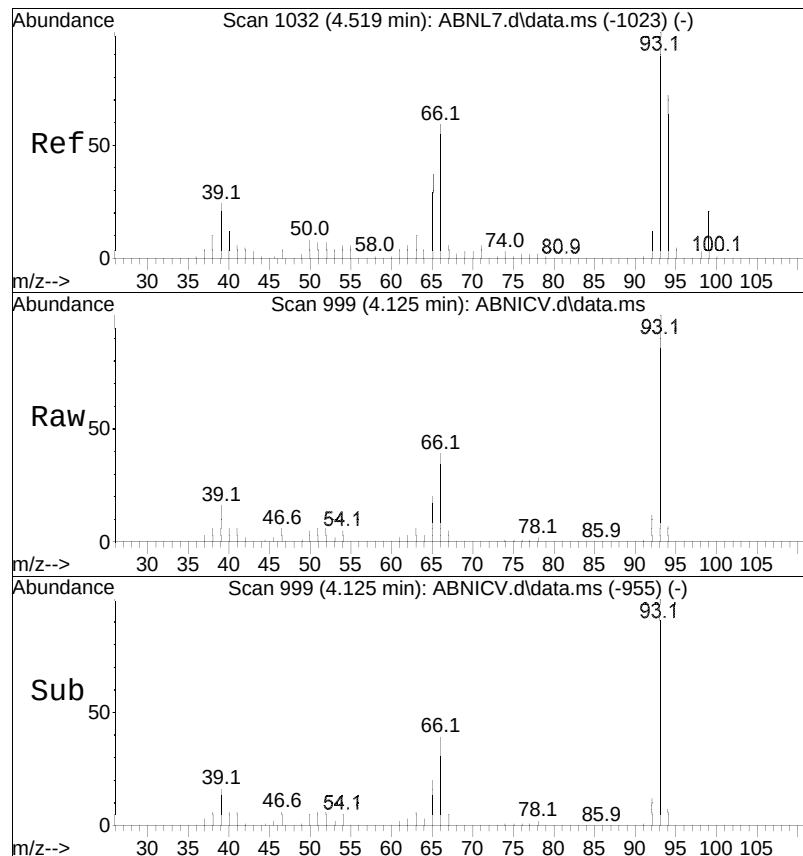




#3  
 Pyridine  
 Concen: 57.06 ug/ml  
 RT: 1.770 min Scan# 170  
 Delta R.T. 0.009 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

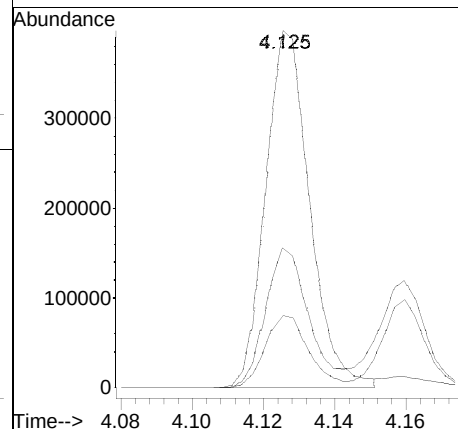
| Tgt Ion: | 79  | 52   | Ion Ratio | 100 | 93.7 | Resp: | 238331 | Lower | 72.9 | Upper | 109.3 |
|----------|-----|------|-----------|-----|------|-------|--------|-------|------|-------|-------|
| 79       | 100 |      |           |     |      |       |        |       |      |       |       |
| 52       |     | 93.7 |           |     |      |       |        |       |      |       |       |



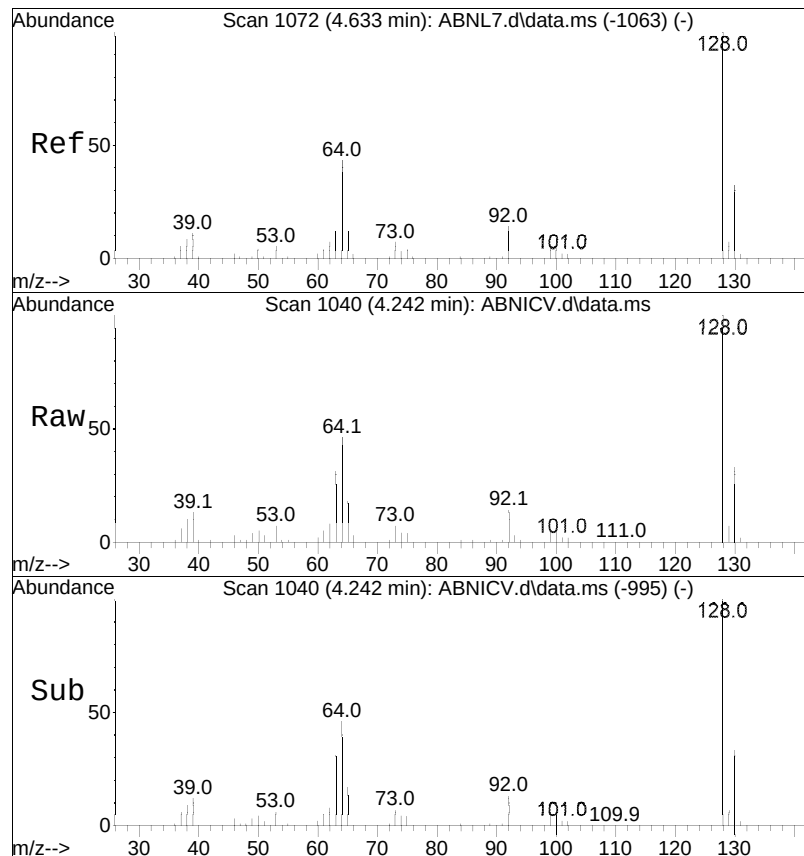


#5  
 Aniline  
 Concen: 51.50 ug/ml  
 RT: 4.125 min Scan# 999  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 339339 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 66        | 38.9  | 37.3  | 55.9   |
| 65        | 20.4  | 16.7  | 25.1   |

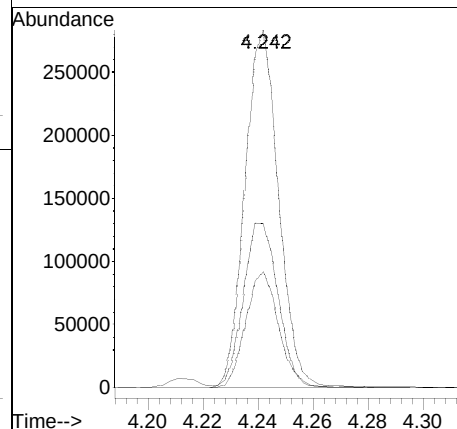


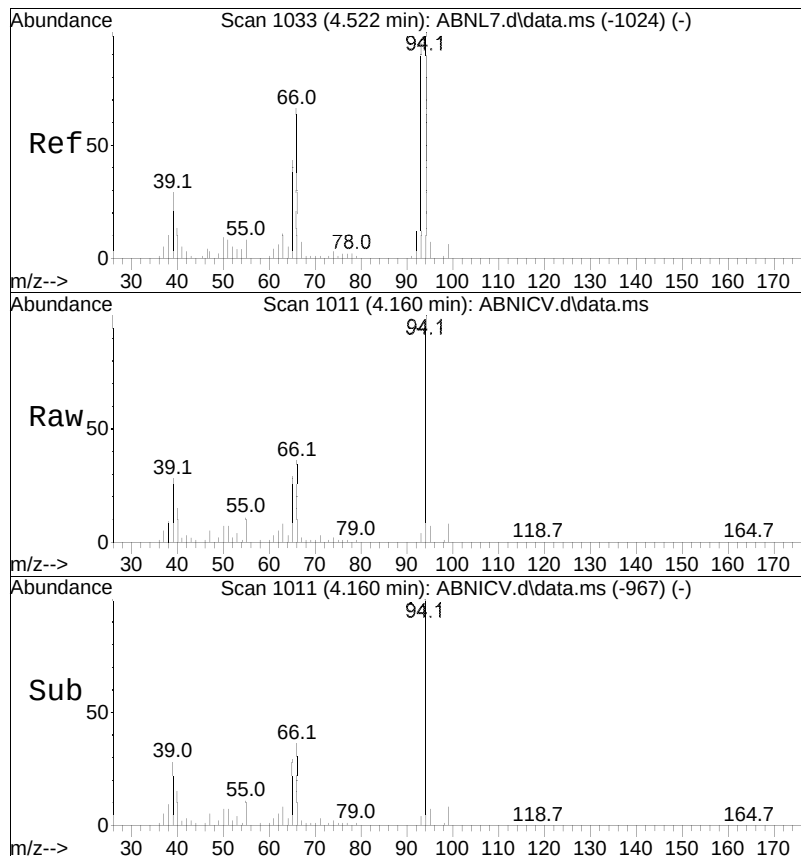




#6  
 2-Chlorophenol  
 Concen: 54.78 ug/ml  
 RT: 4.242 min Scan# 1040  
 Delta R.T. 0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

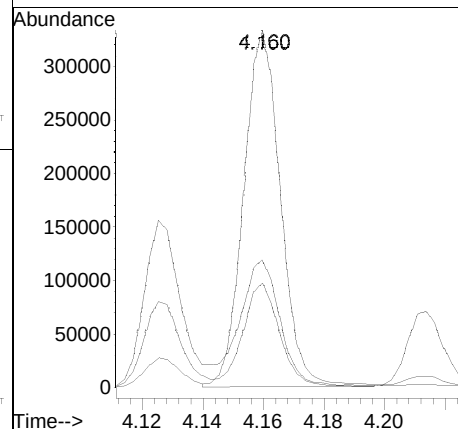
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 240069 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 64        | 46.8  | 42.7  | 64.1   |
| 130       | 32.1  | 25.8  | 38.6   |

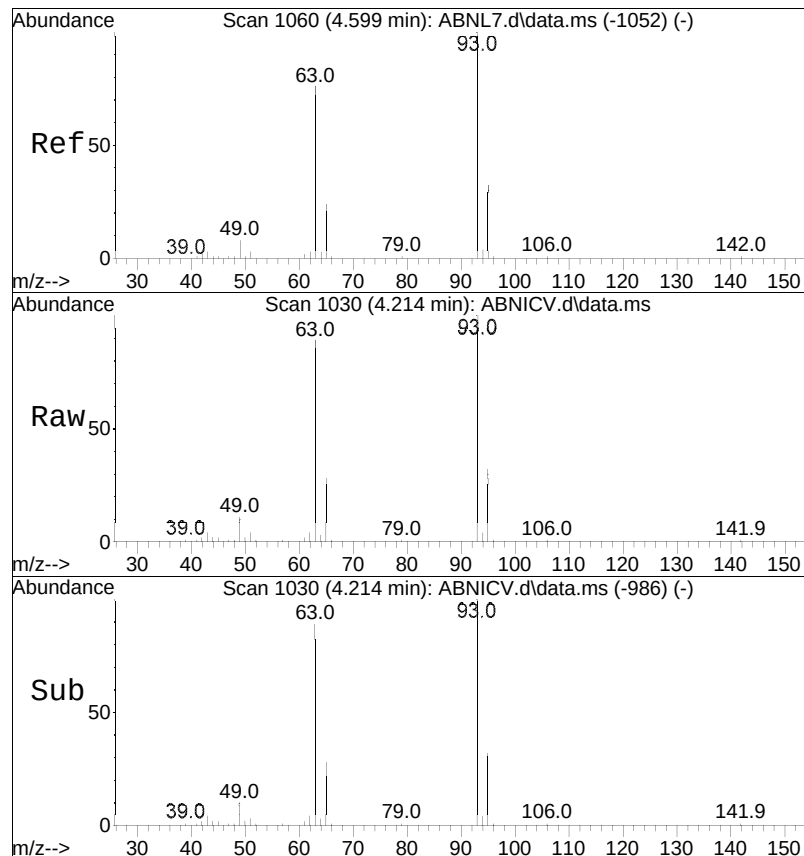




#8  
 Phenol  
 Concen: 52.56 ug/ml  
 RT: 4.160 min Scan# 1011  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

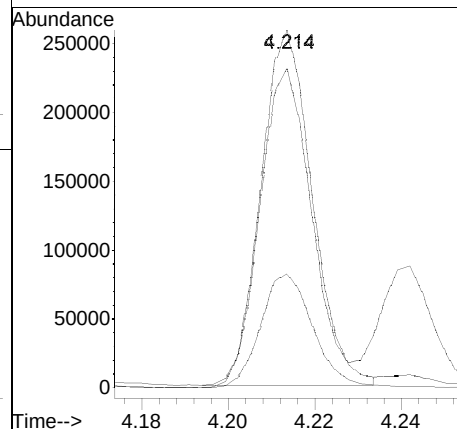
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 281213 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 29.5  | 20.5  | 30.7   |
| 66        | 40.0  | 0.0   | 0.0#   |

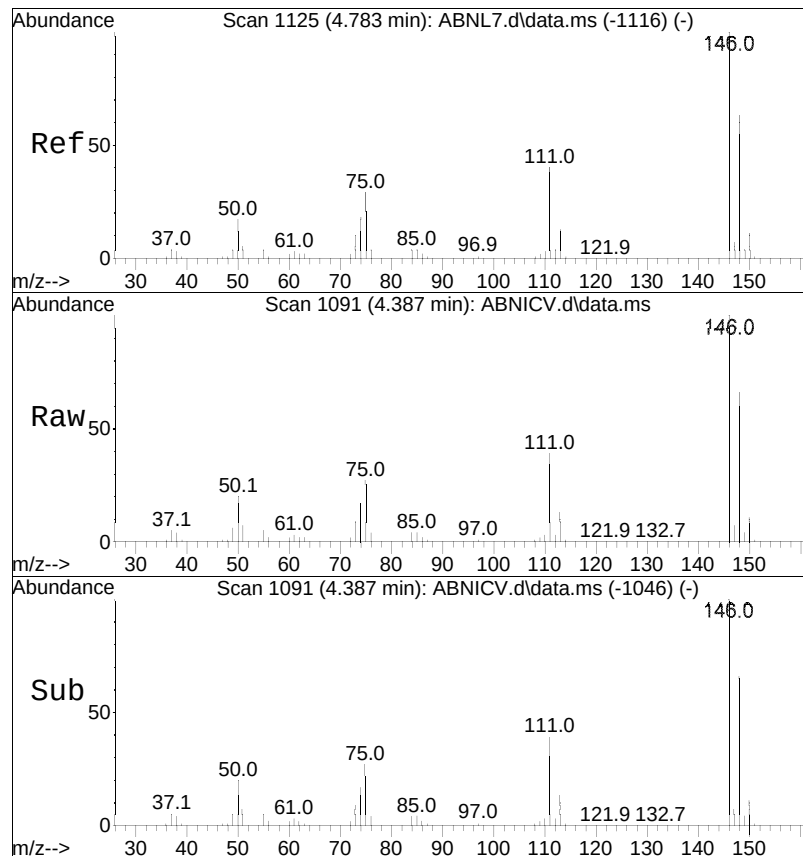




#9  
 Bis(2-chloroethyl)ether  
 Concen: 53.50 ug/ml  
 RT: 4.214 min Scan# 1030  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

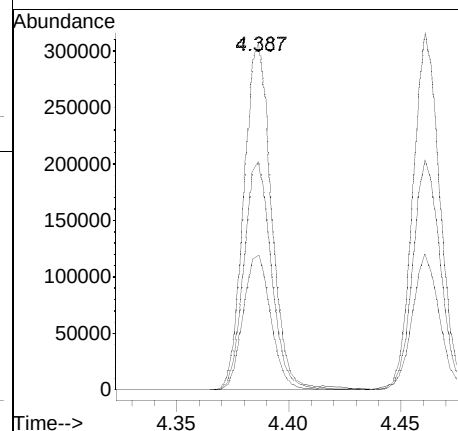
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 211534 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 90.3  | 70.4  | 105.6  |
| 95        | 33.3  | 25.8  | 38.6   |

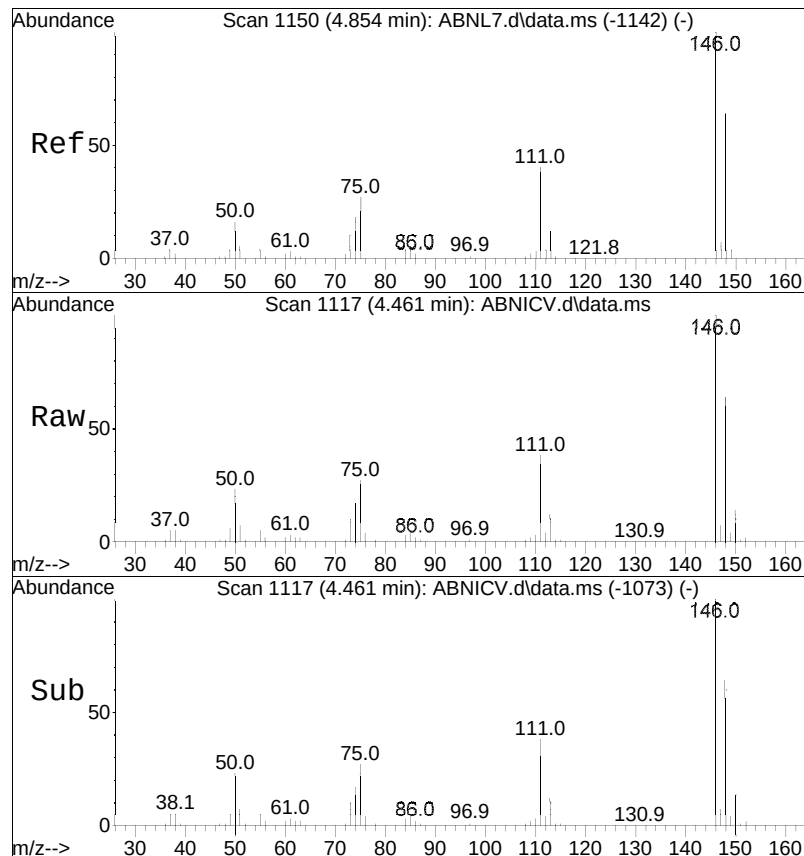




#10  
 1,3-Dichlorobenzene  
 Concen: 51.46 ug/ml  
 RT: 4.387 min Scan# 1091  
 Delta R.T. 0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

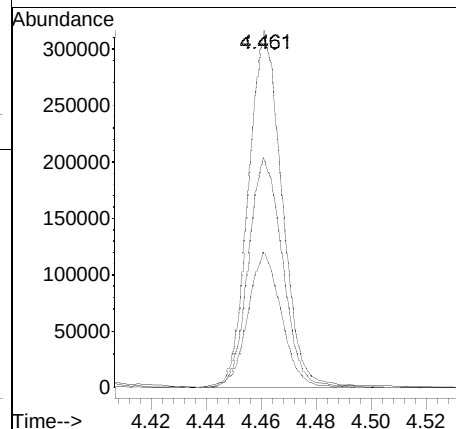
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 265449 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 39.1  | 35.8  | 53.6   |
| 148       | 65.1  | 51.2  | 76.8   |

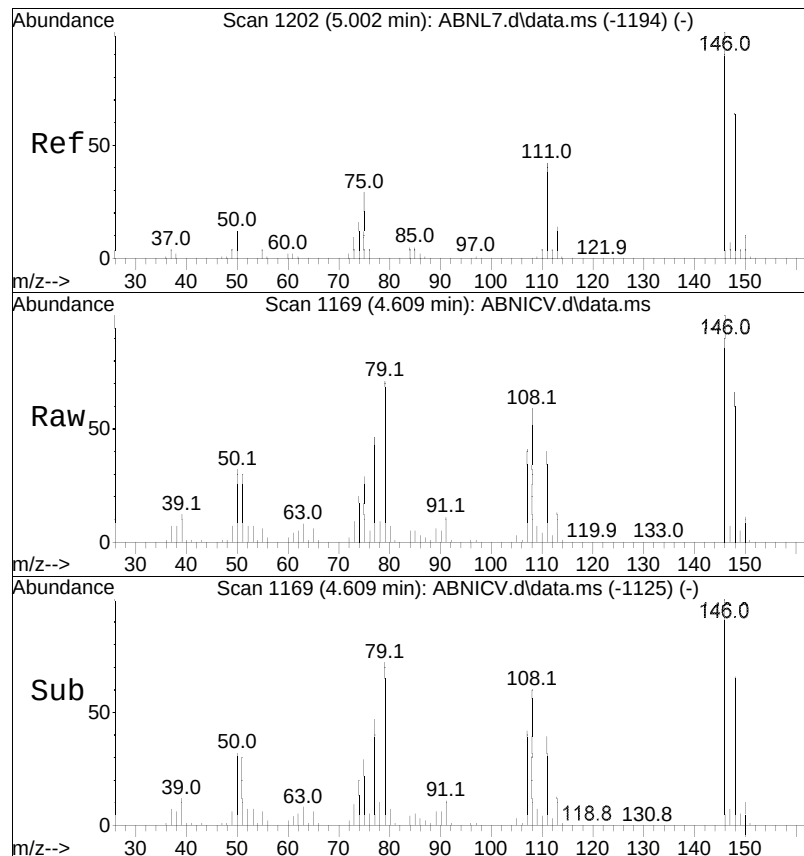




#11  
 1,4-Dichlorobenzene  
 Concen: 49.94 ug/ml  
 RT: 4.461 min Scan# 1117  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

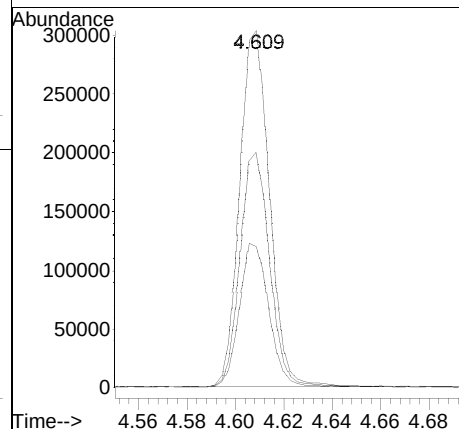
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 65.6  | 51.6  | 77.4  |
| 111     | 39.1  | 35.3  | 52.9  |

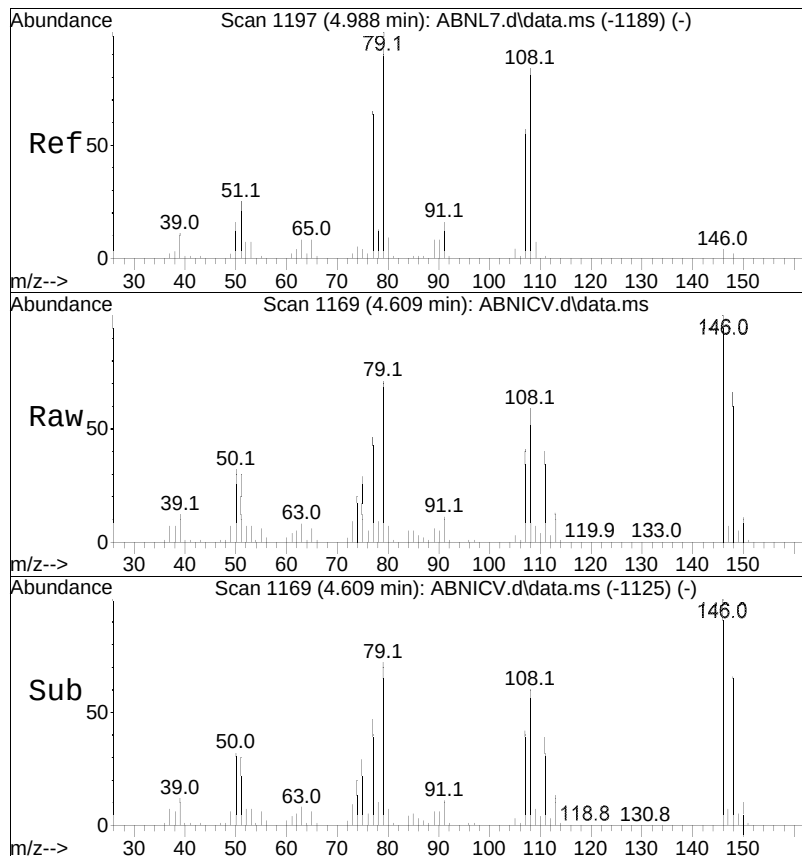




#12  
 1,2-Dichlorobenzene  
 Concen: 50.48 ug/ml  
 RT: 4.609 min Scan# 1169  
 Delta R.T. 0.001 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

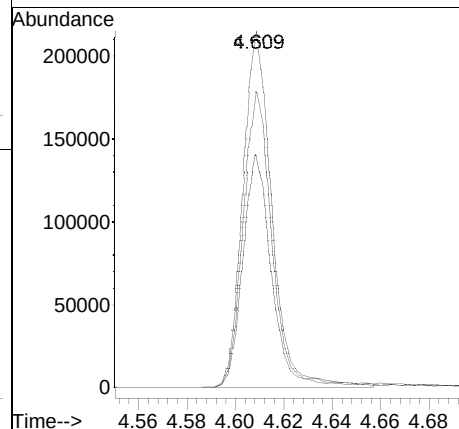
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 258661 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 40.4  | 36.0  | 54.0   |
| 148       | 65.6  | 49.9  | 74.9   |

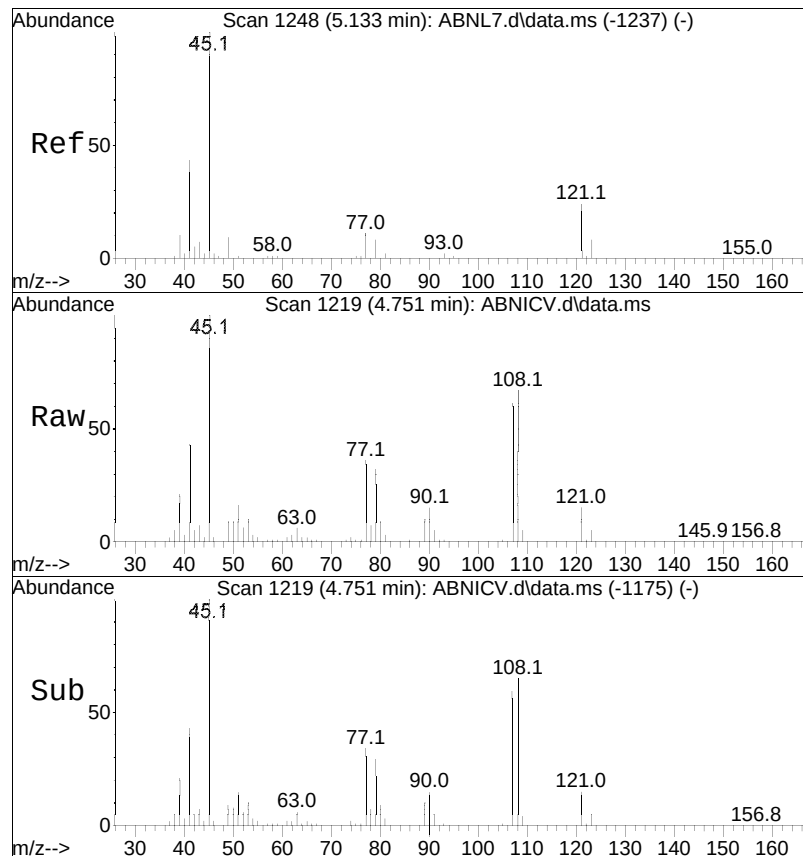




#13  
 Benzyl alcohol  
 Concen: 51.71 ug/ml  
 RT: 4.609 min Scan# 1169  
 Delta R.T. 0.001 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

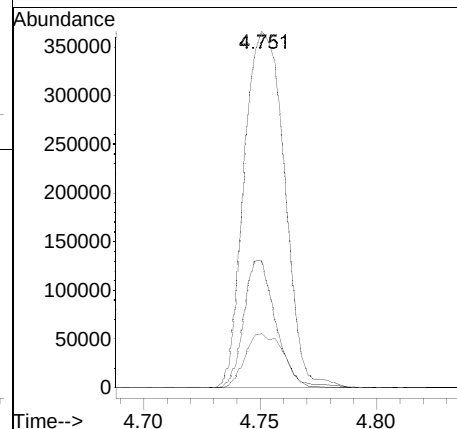
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 178257 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 77        | 64.8  | 52.3  | 78.5   |
| 108       | 83.4  | 60.2  | 90.4   |



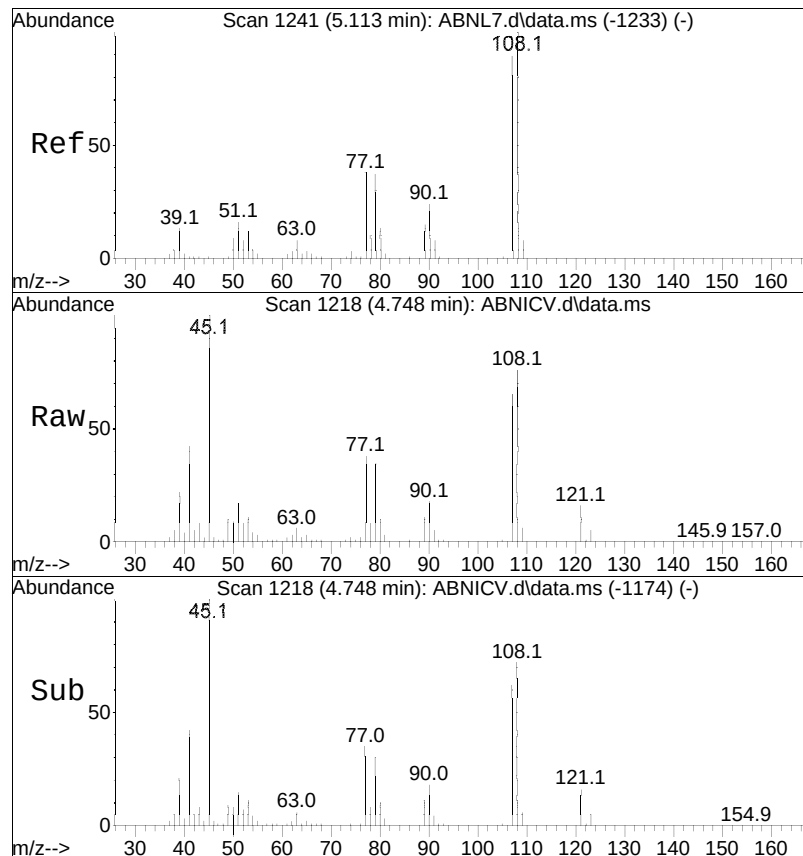


#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 49.54 ug/ml  
 RT: 4.751 min Scan# 1219  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 438036 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 121       | 14.8  | 12.6  | 19.0   |
| 77        | 28.6  | 26.4  | 39.6   |

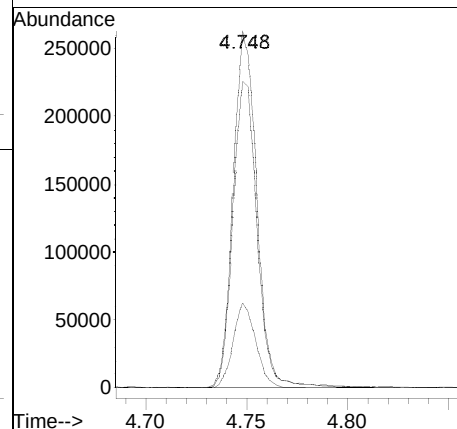


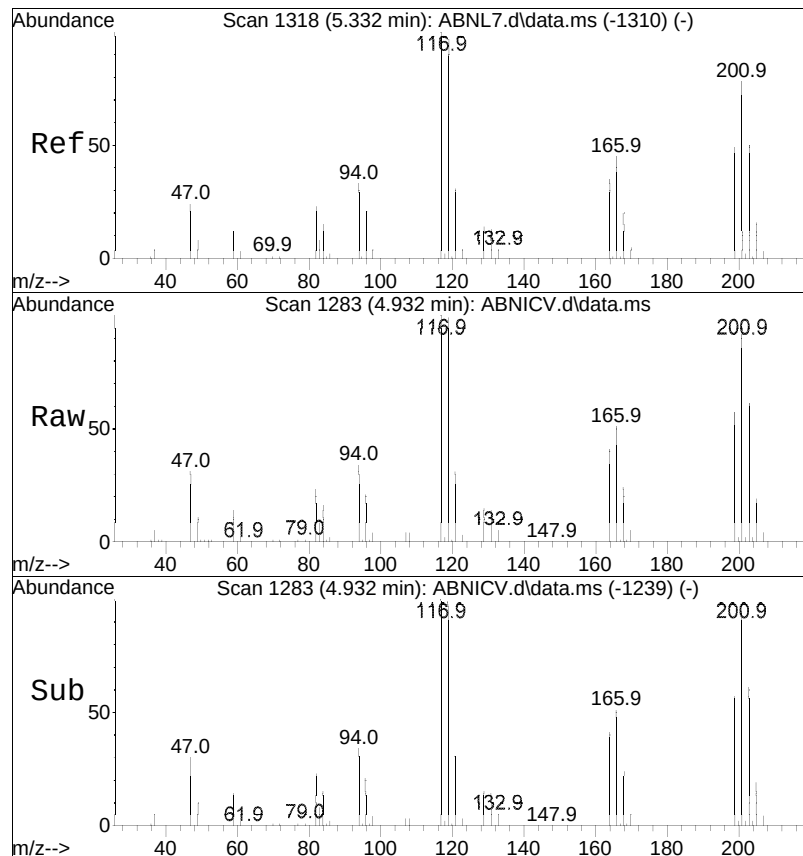




#15  
 2-Methylphenol  
 Concen: 51.23 ug/ml  
 RT: 4.748 min Scan# 1218  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

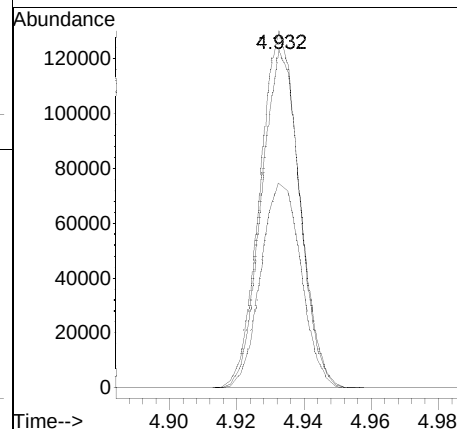
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 87.1  | 72.8  | 109.2 |
| 90      | 23.3  | 20.2  | 30.4  |

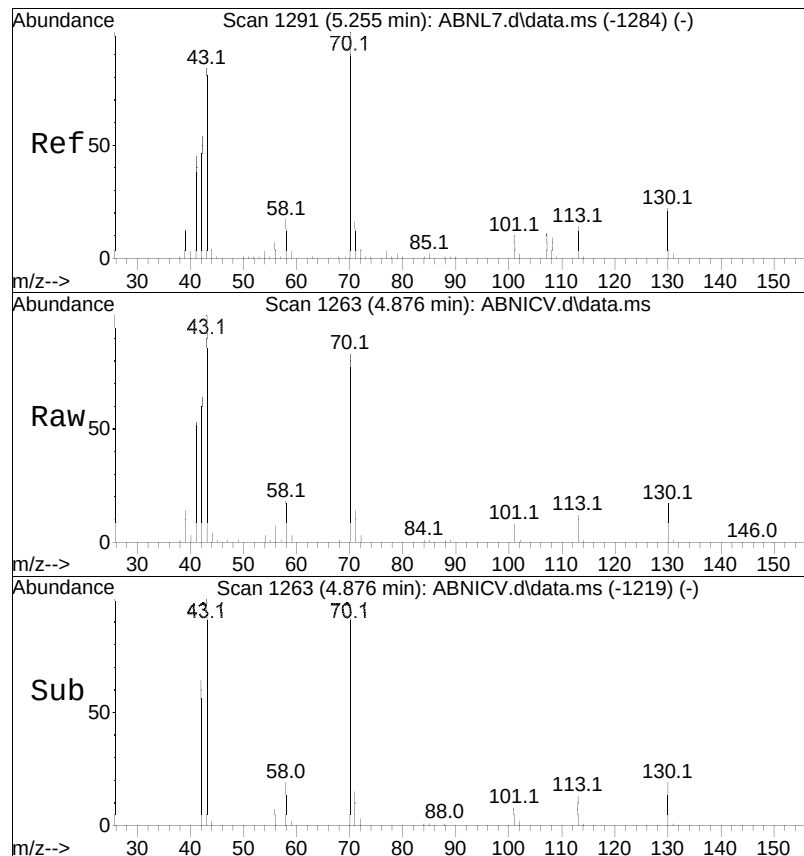




#16  
 Hexachloroethane  
 Concen: 49.31 ug/ml  
 RT: 4.932 min Scan# 1283  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

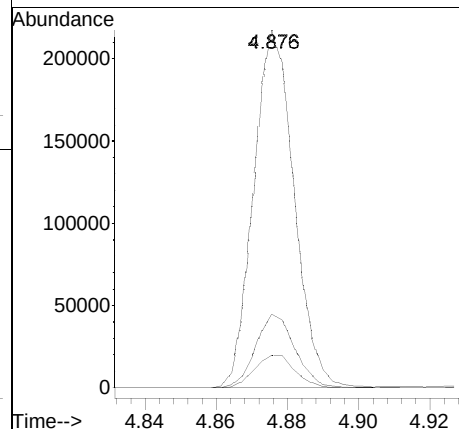
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 104262 |       |       |
| 201     | 94.2  |        | 64.5  | 96.7  |
| 199     | 59.5  |        | 40.3  | 60.5  |

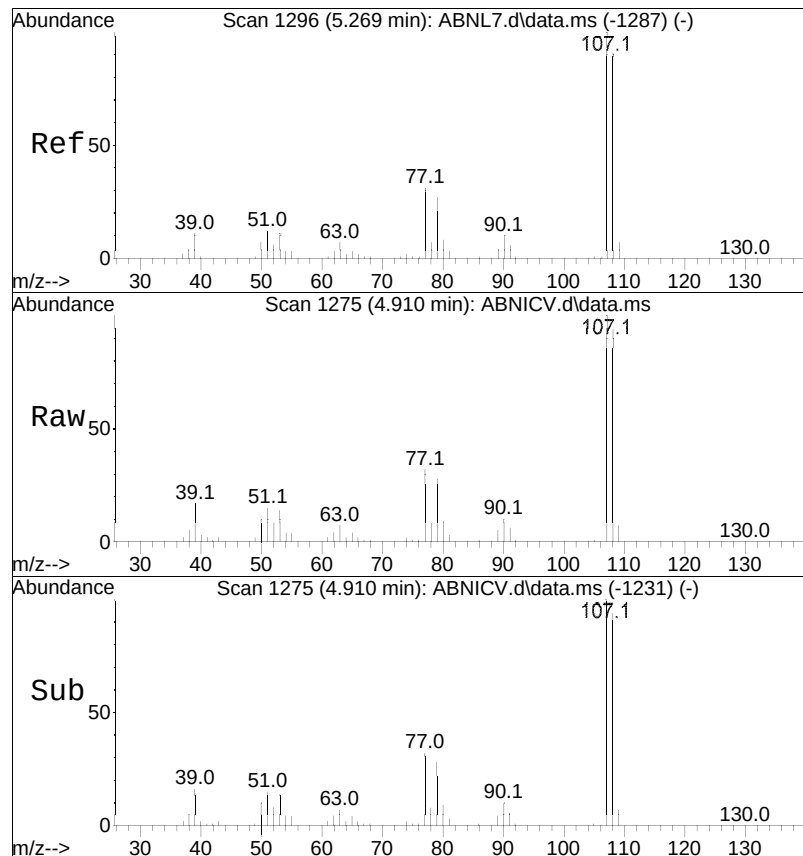




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 52.62 ug/ml  
 RT: 4.876 min Scan# 1263  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

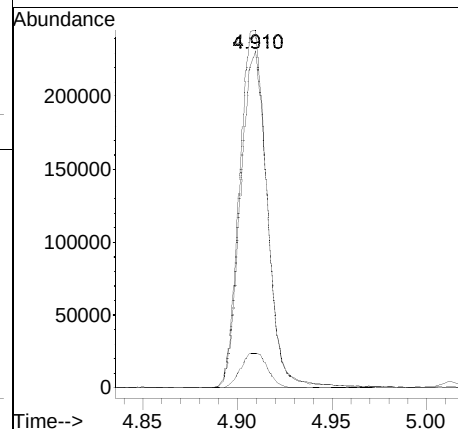
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 170257 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 130       | 20.1  | 15.0  | 22.4   |
| 101       | 9.1   | 7.4   | 11.0   |

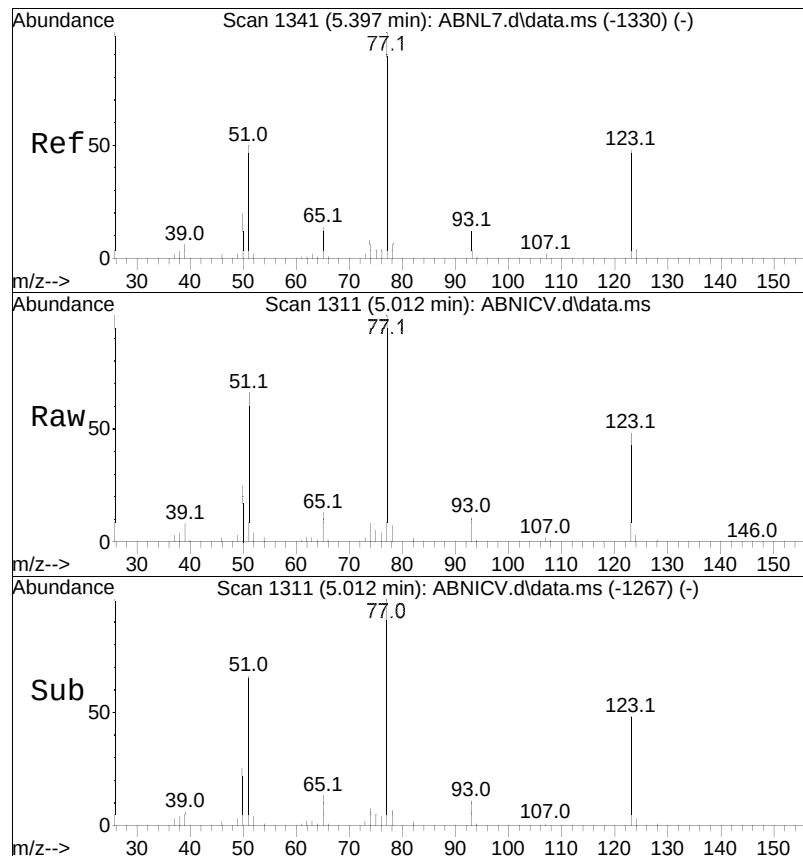




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 51.86 ug/ml  
 RT: 4.910 min Scan# 1275  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

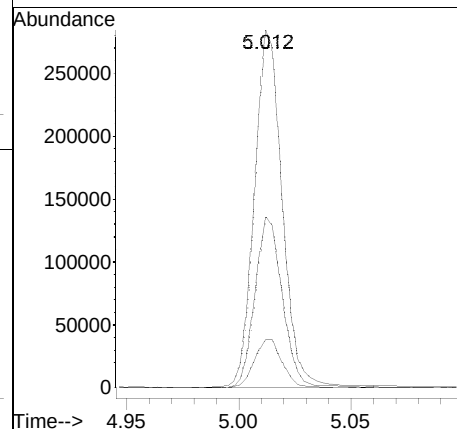
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 227168 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 108.4 | 90.4  | 135.6  |
| 90        | 10.6  | 9.2   | 13.8   |

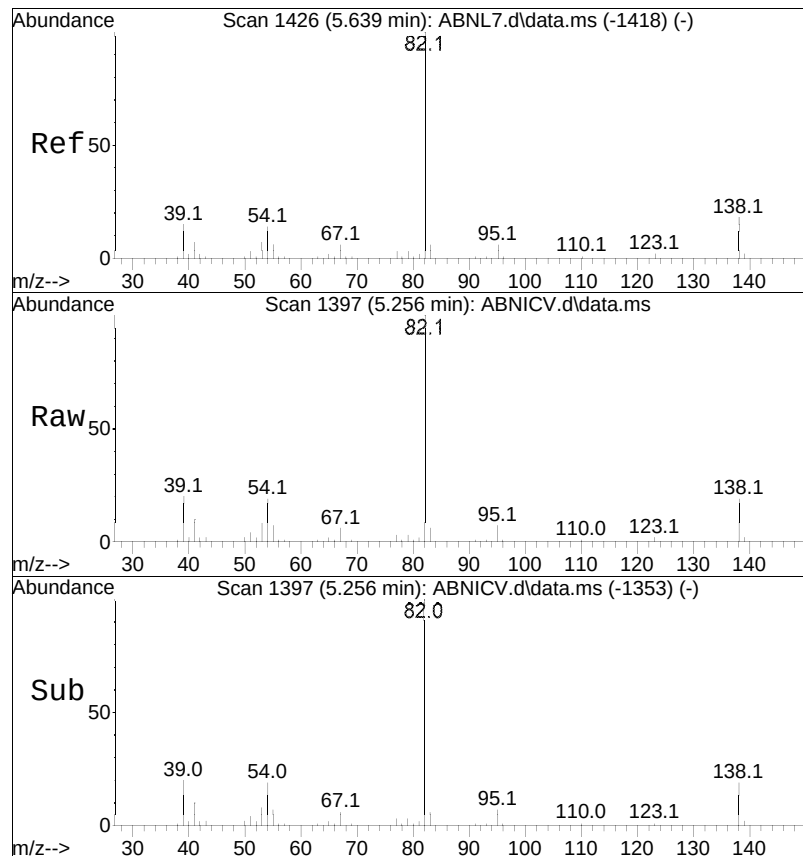




#20  
 Nitrobenzene  
 Concen: 51.69 ug/ml  
 RT: 5.012 min Scan# 1311  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

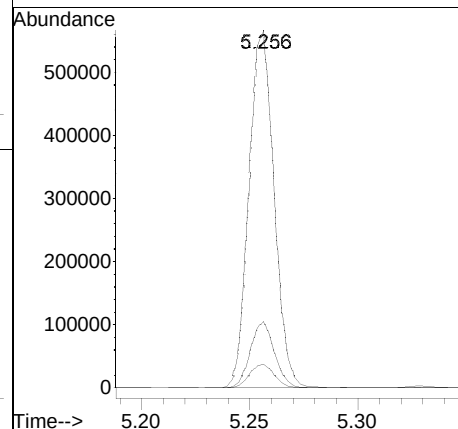
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 242569 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 47.3  | 35.0  | 52.4   |
| 65        | 14.0  | 11.5  | 17.3   |

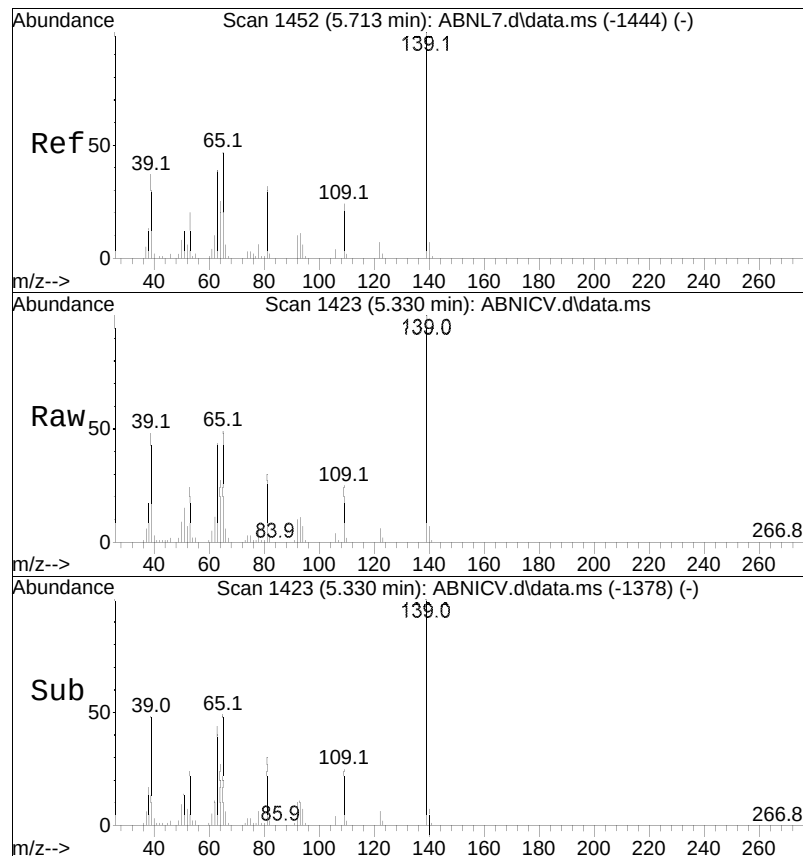




#21  
 Isophorone  
 Concen: 52.30 ug/ml  
 RT: 5.256 min Scan# 1397  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

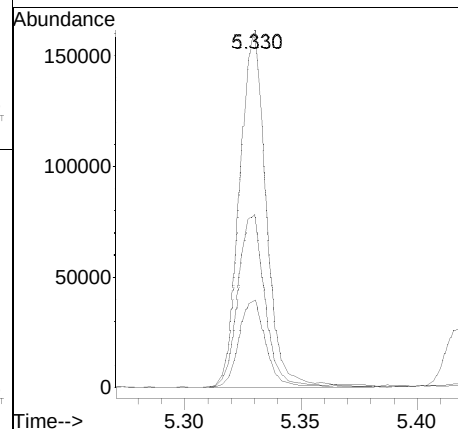
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 138     | 17.9  | 12.8  | 19.2  |
| 95      | 6.7   | 5.5   | 8.3   |

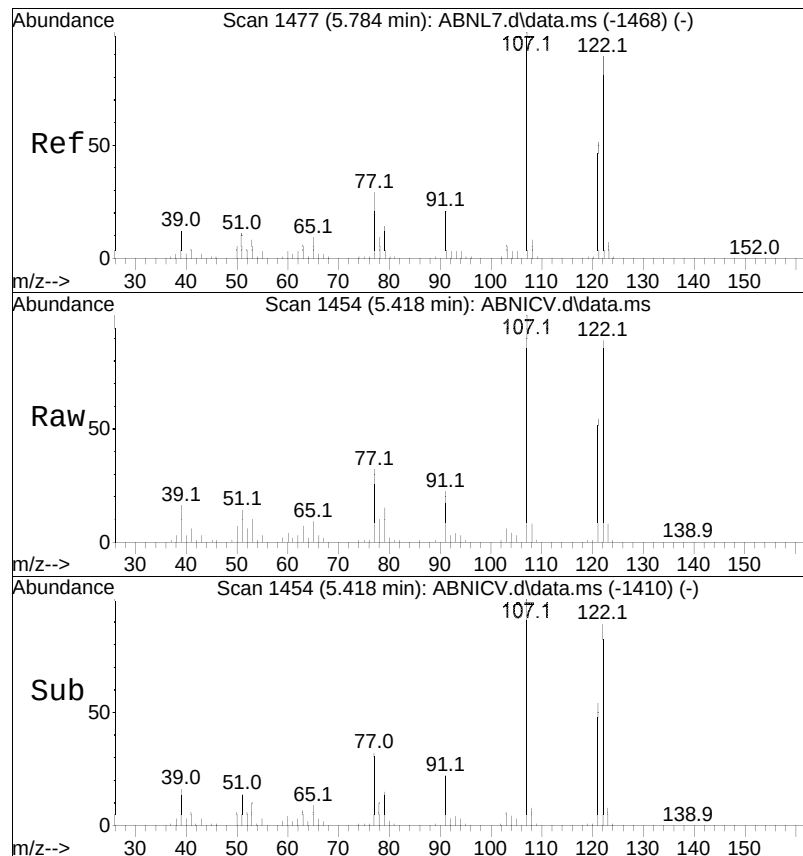




#22  
 2-Nitrophenol  
 Concen: 51.24 ug/ml  
 RT: 5.330 min Scan# 1423  
 Delta R.T. 0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

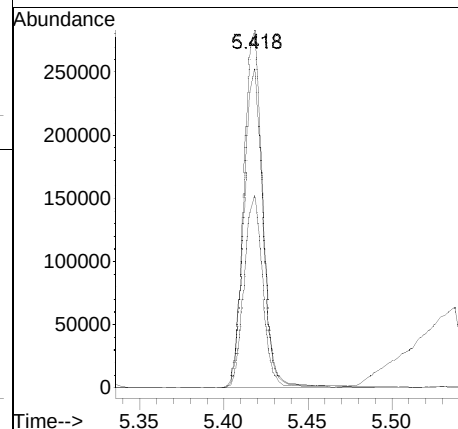
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 139     | 100   | 128159 |       |       |
| 109     | 24.8  |        | 24.8  | 37.2  |
| 65      | 49.5  |        | 45.5  | 68.3  |



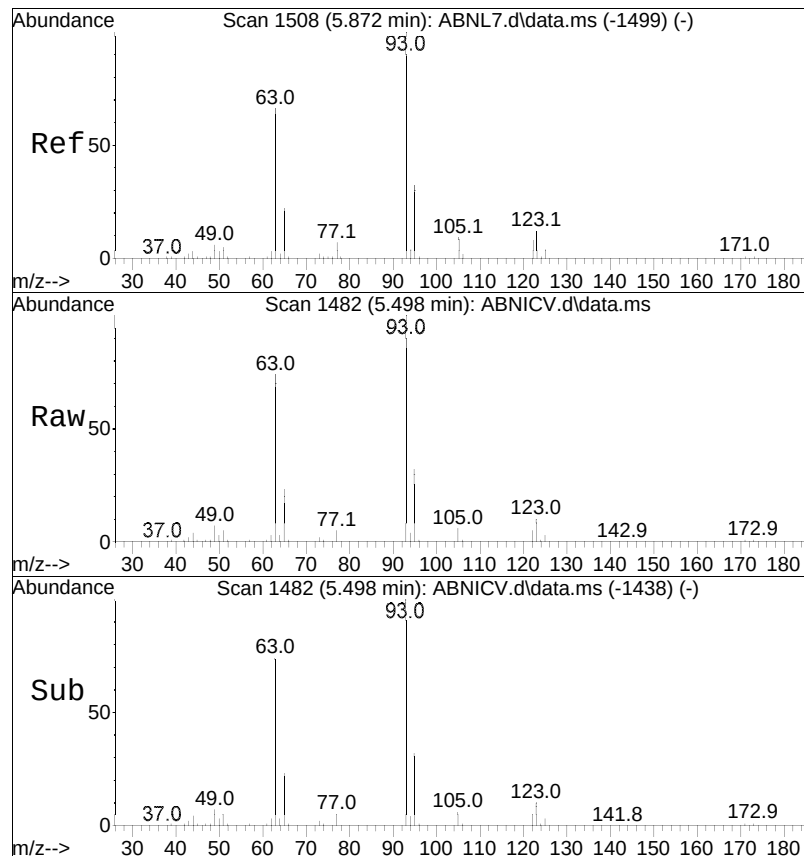


#23  
 2,4-Dimethylphenol  
 Concen: 51.07 ug/ml  
 RT: 5.418 min Scan# 1454  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 222904 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 52.9  | 39.7  | 59.5   |
| 122       | 88.7  | 66.8  | 100.2  |

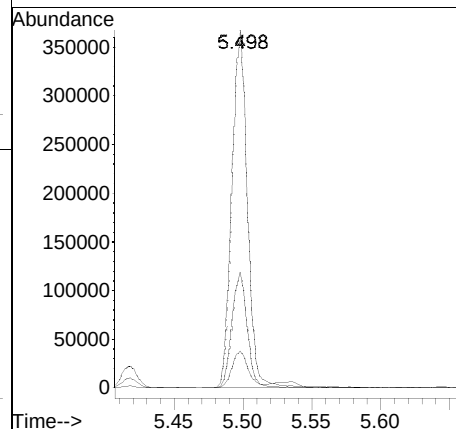


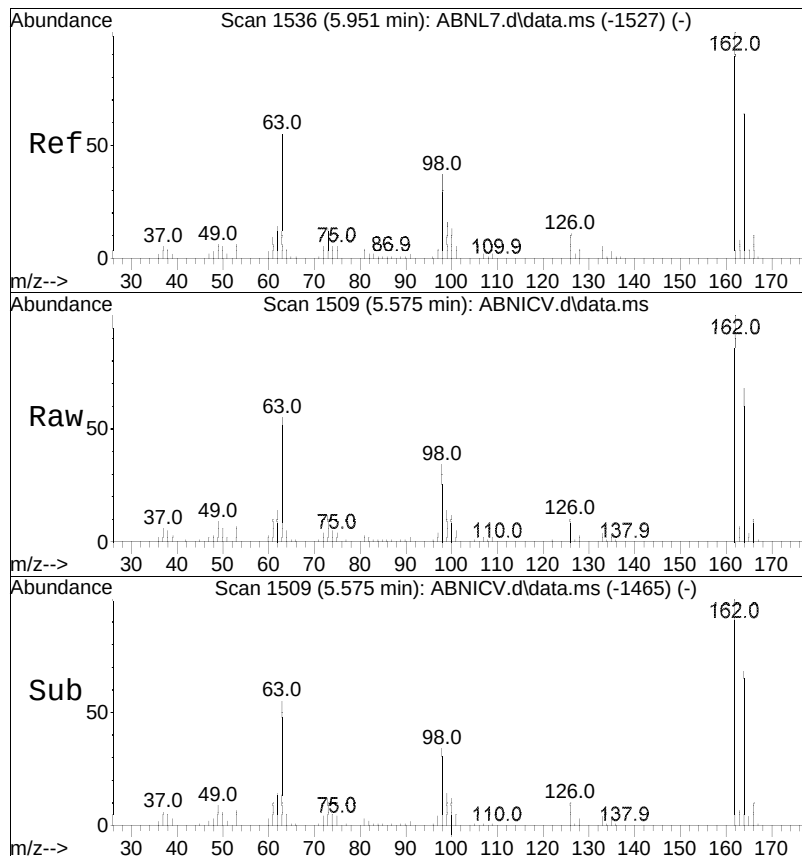




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 54.13 ug/ml  
 RT: 5.498 min Scan# 1482  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

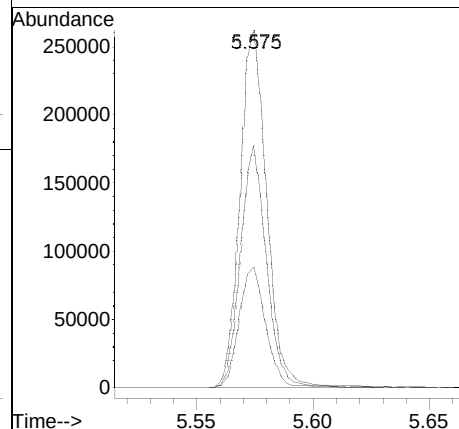
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 285099 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 31.5  | 26.1  | 39.1   |
| 123       | 11.2  | 9.8   | 14.8   |

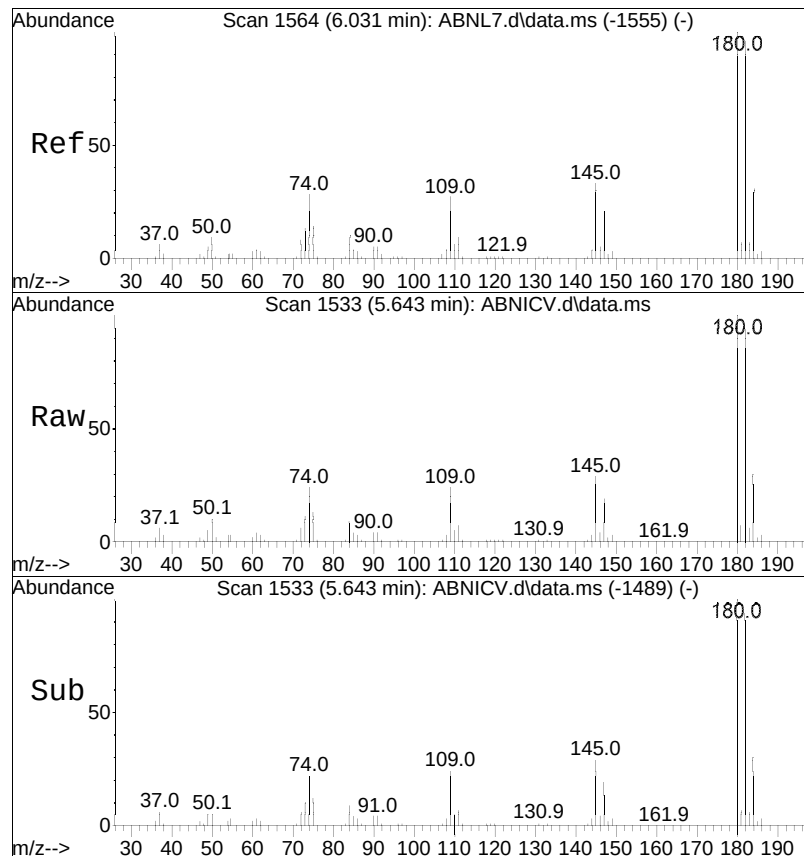




#25  
 2,4-Dichlorophenol  
 Concen: 51.11 ug/ml  
 RT: 5.575 min Scan# 1509  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

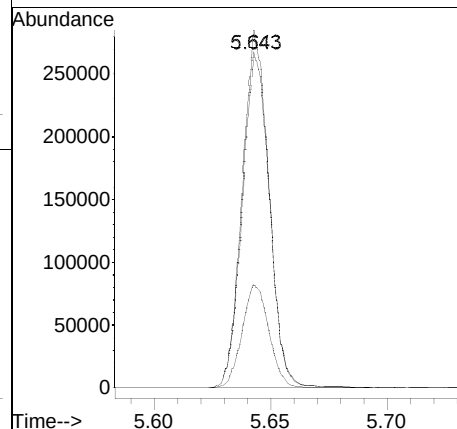
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 65.7  | 50.4  | 75.6  |
| 98      | 34.1  | 31.6  | 47.4  |

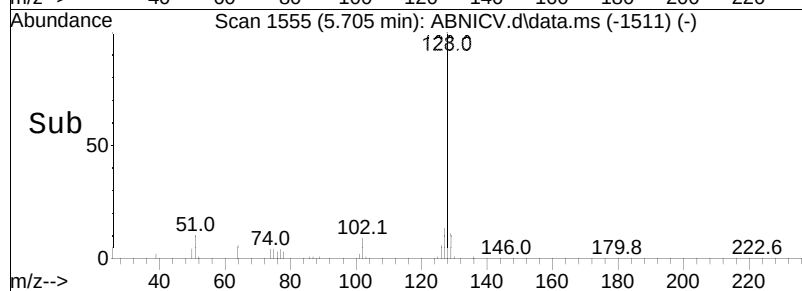
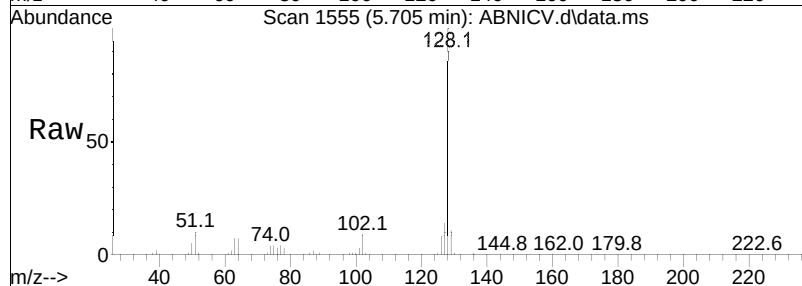
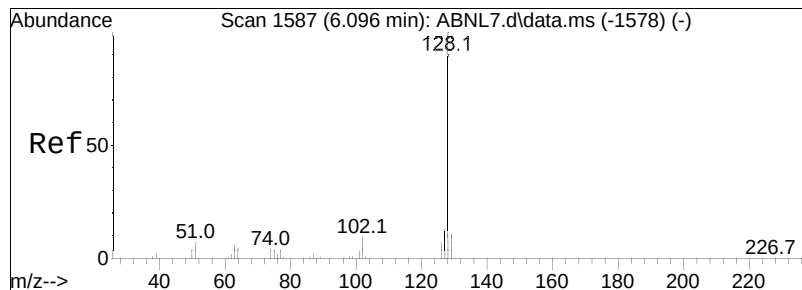




#26  
 1,2,4-Trichlorobenzene  
 Concen: 50.66 ug/ml  
 RT: 5.643 min Scan# 1533  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

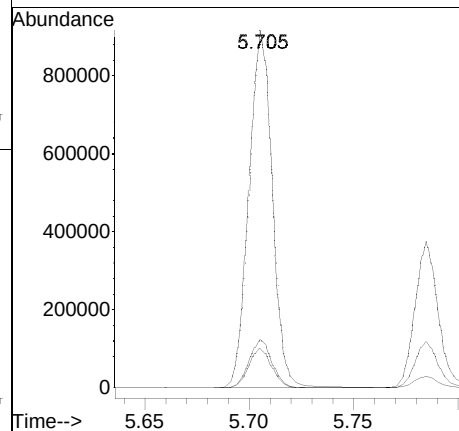
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 225643 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.9  | 74.7  | 112.1  |
| 145       | 29.3  | 26.6  | 39.8   |

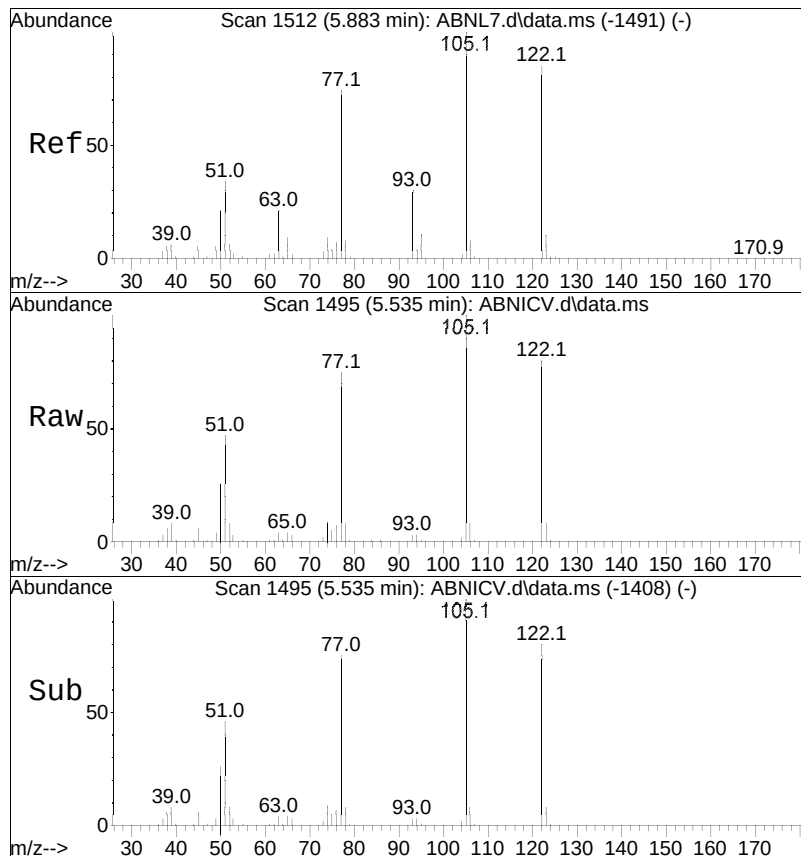




#36  
 Naphthalene  
 Concen: 49.54 ug/ml  
 RT: 5.705 min Scan# 1555  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

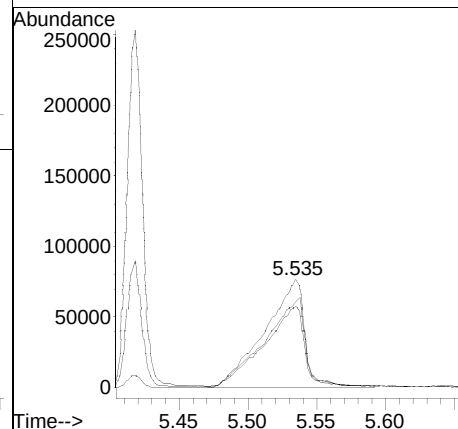
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.7   | 13.1  |
| 127     | 13.4  | 10.7  | 16.1  |

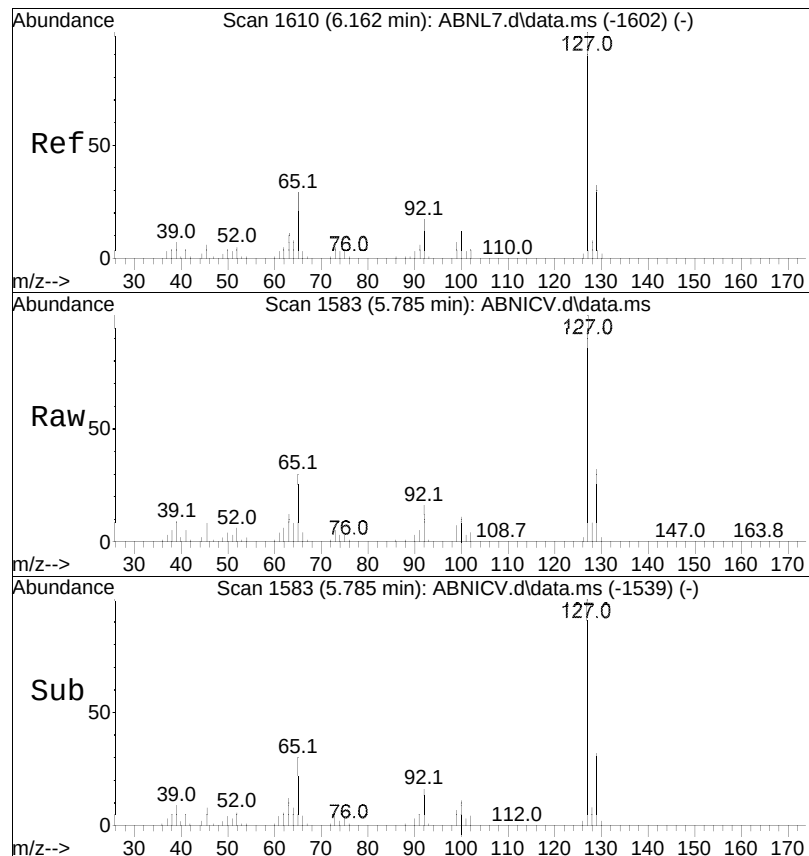




#37  
 Benzoic Acid  
 Concen: 49.29 ug/ml  
 RT: 5.535 min Scan# 1495  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

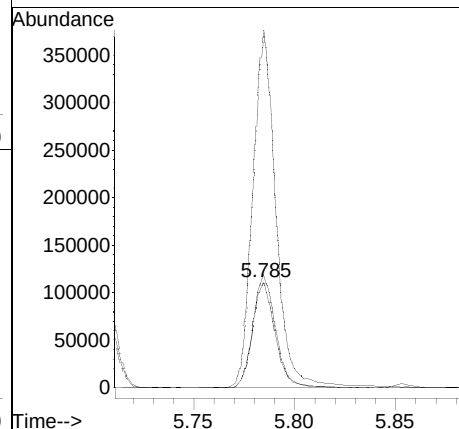
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 159142 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 122       | 81.7  | 61.8  | 92.6   |
| 77        | 73.6  | 62.2  | 93.4   |

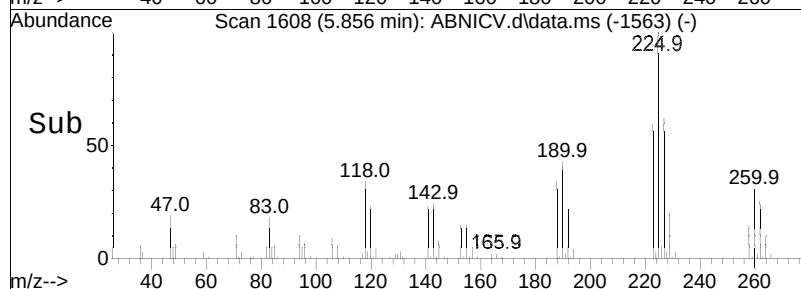
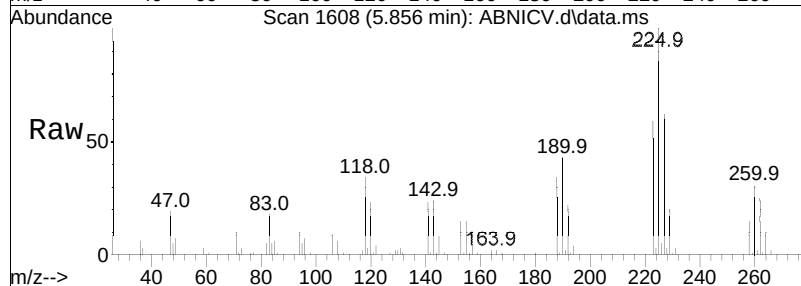
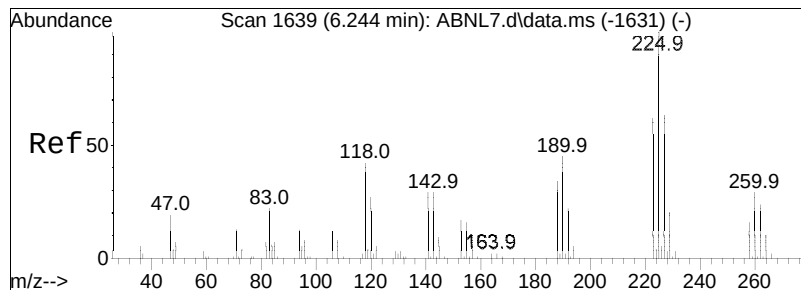




#38  
 4-Chloroaniline  
 Concen: 51.77 ug/ml  
 RT: 5.785 min Scan# 1583  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

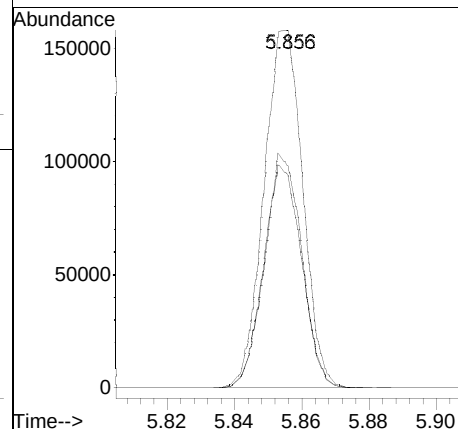
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 127     | 329.7 | 233.2 | 349.8 |
| 129     | 105.1 | 74.6  | 111.8 |

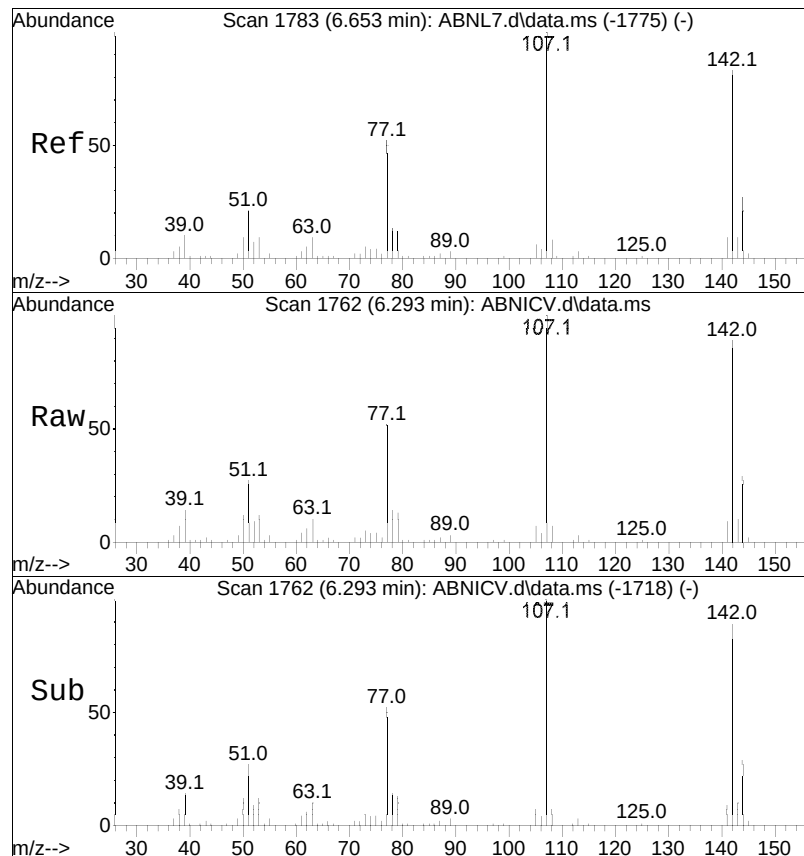




#39  
 Hexachlorobutadiene  
 Concen: 51.24 ug/ml  
 RT: 5.856 min Scan# 1608  
 Delta R.T. 0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

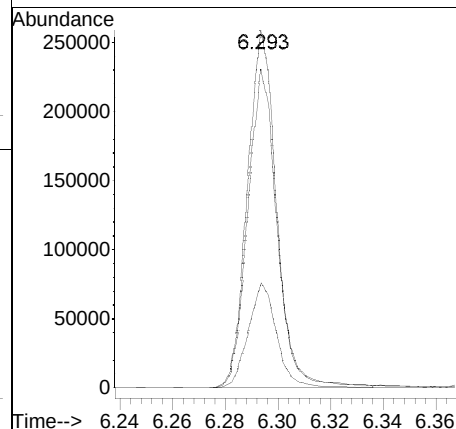
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 225 | 100  |       | 125189 |       |       |
| 223 | 61.4 | 49.4  |        | 74.0  |       |
| 227 | 63.1 | 50.8  |        | 76.2  |       |



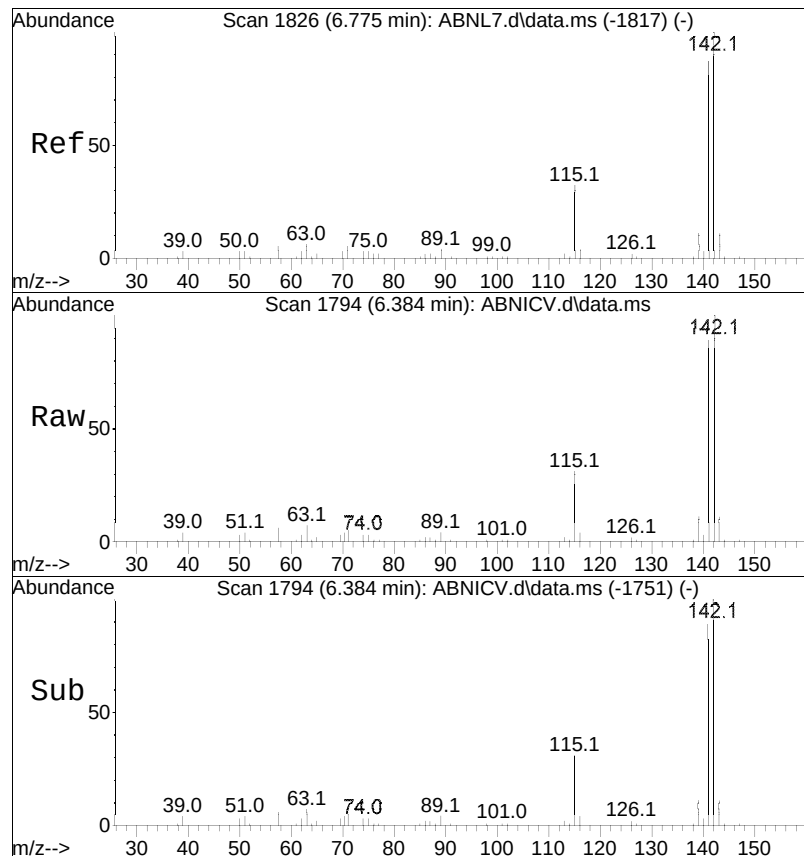


#40  
 p-Chloro-m-cresol  
 Concen: 50.10 ug/ml  
 RT: 6.293 min Scan# 1762  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 198598 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 28.8  | 19.6  | 29.4   |
| 142       | 89.7  | 62.2  | 93.4   |

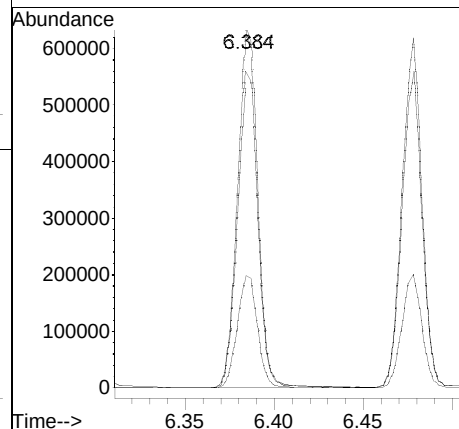


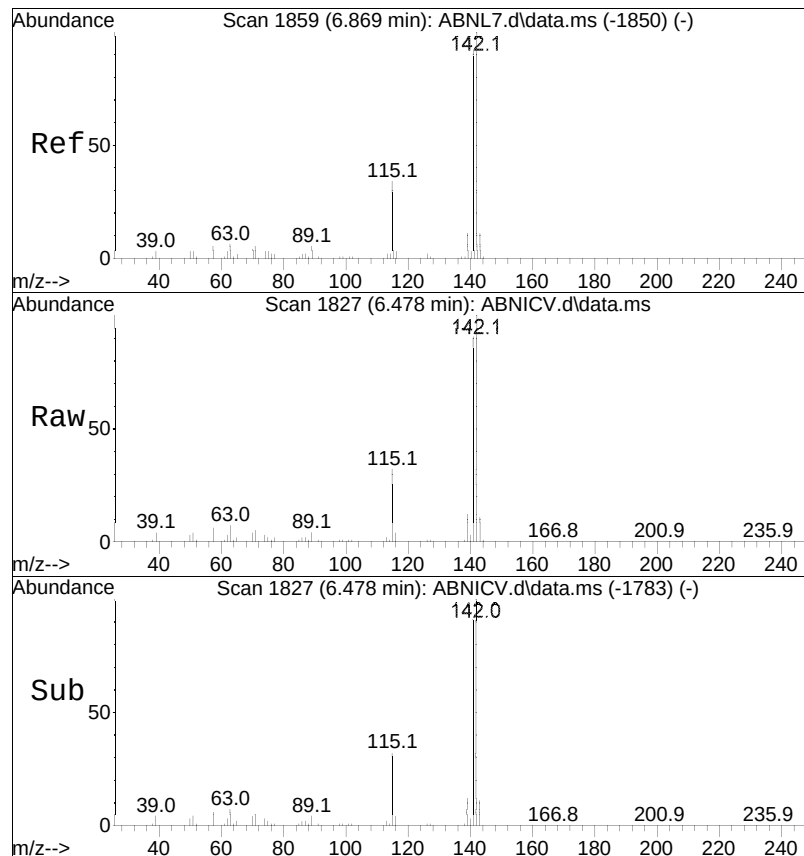




#41  
 2-Methylnaphthalene  
 Concen: 50.62 ug/ml  
 RT: 6.384 min Scan# 1794  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

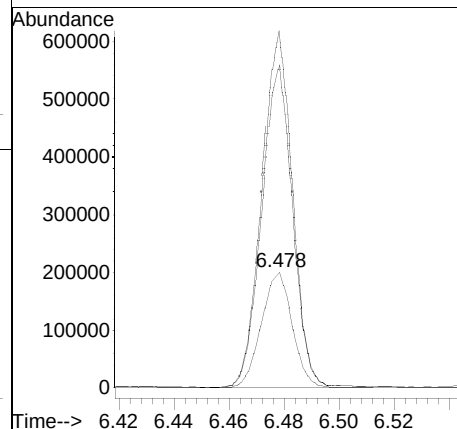
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.2  | 71.8  | 107.8 |
| 115     | 31.3  | 29.1  | 43.7  |

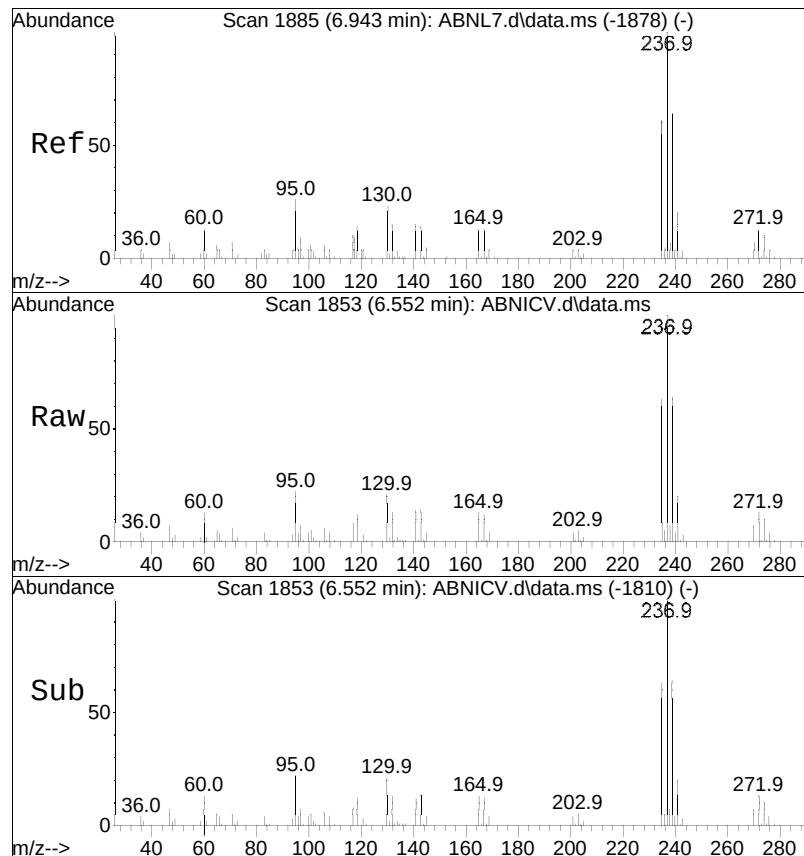




#42  
 1-Methylnaphthalene  
 Concen: 49.45 ug/ml  
 RT: 6.478 min Scan# 1827  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

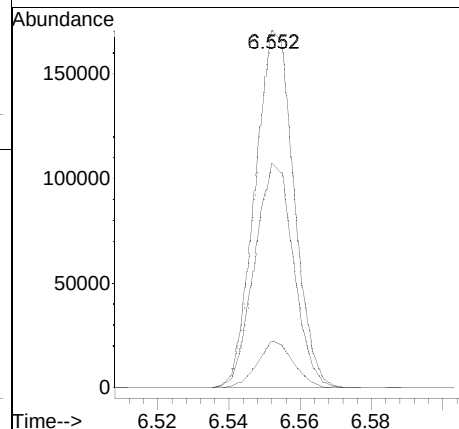
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 115   | Resp: | 156035 |
| Ion Ratio | Lower | Upper |        |
| 115       | 100   |       |        |
| 141       | 278.6 | 196.6 | 294.8  |
| 142       | 305.5 | 209.2 | 313.8  |

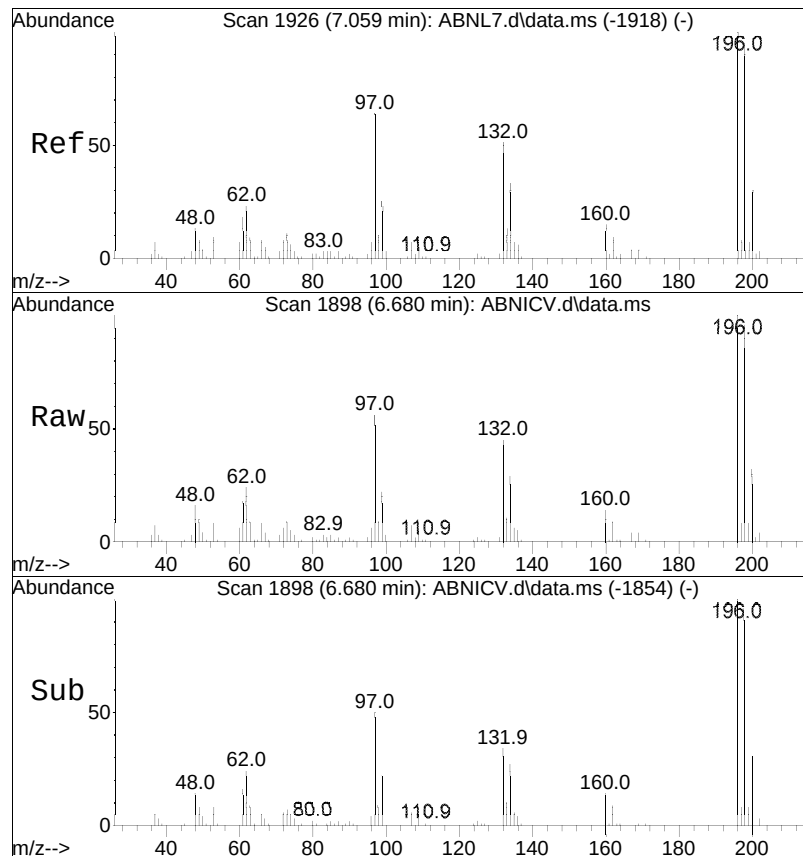




#43  
 Hexachlorocyclopentadiene  
 Concen: 48.07 ug/ml  
 RT: 6.552 min Scan# 1853  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

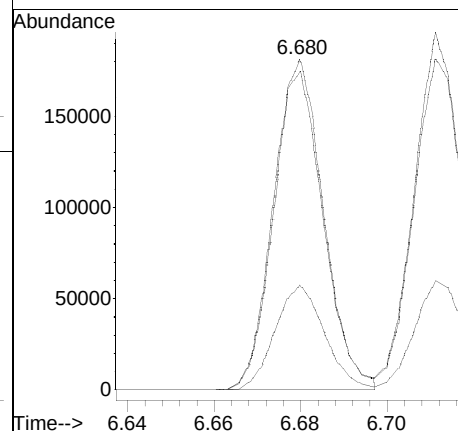
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 237     | 100   |       |       |
| 235     | 63.1  | 47.8  | 71.6  |
| 272     | 12.1  | 10.4  | 15.6  |

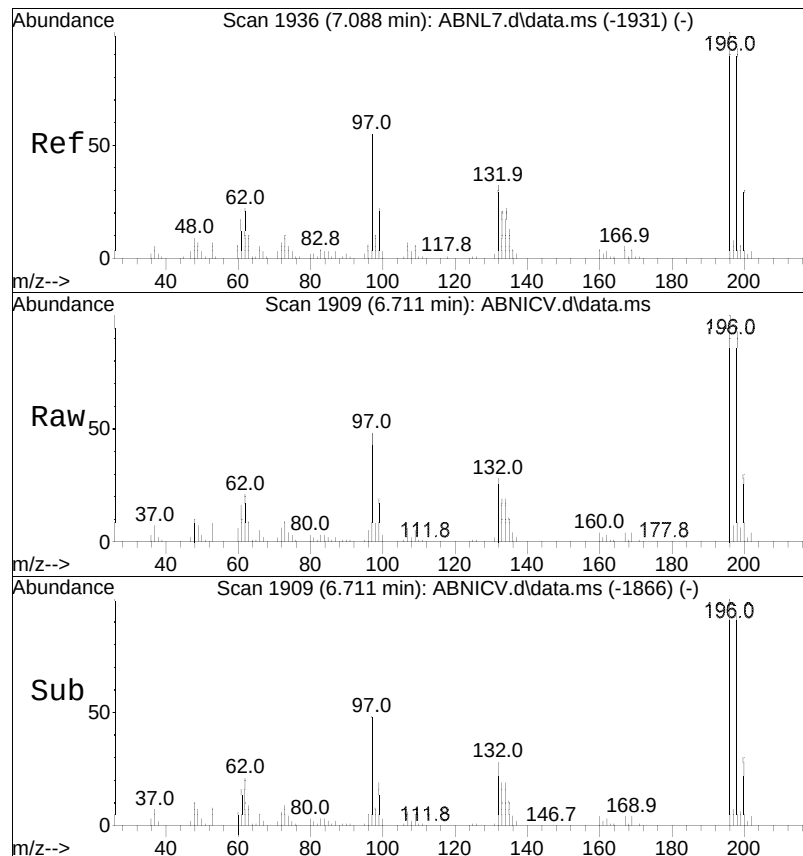




#44  
 2,4,6-Trichlorophenol  
 Concen: 49.07 ug/ml  
 RT: 6.680 min Scan# 1898  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

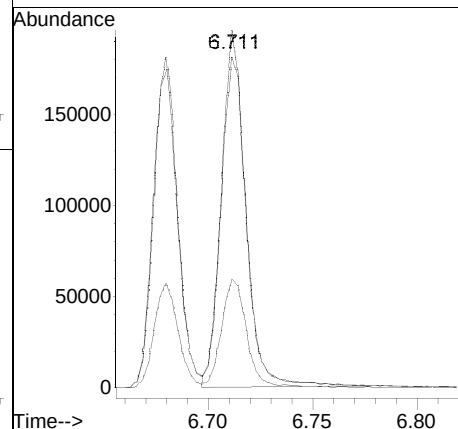
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 145773 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 95.6  | 81.5  | 122.3  |
| 200       | 31.3  | 26.2  | 39.2   |

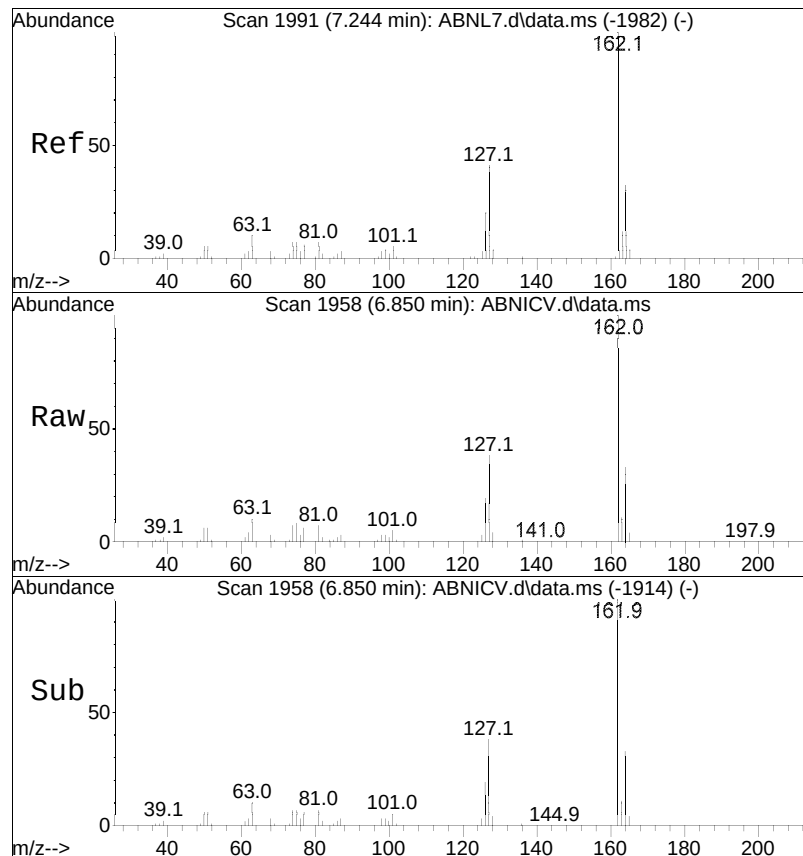




#45  
 2,4,5-Trichlorophenol  
 Concen: 50.08 ug/ml  
 RT: 6.711 min Scan# 1909  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

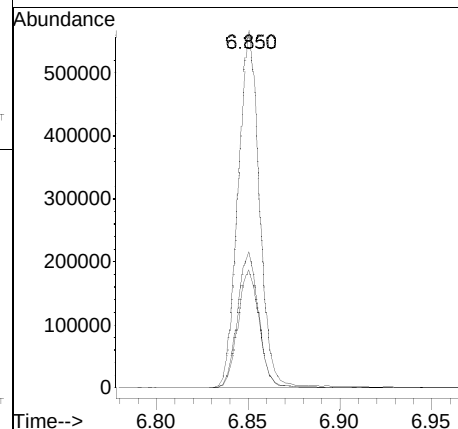
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 158718 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 31.3  | 25.5  | 38.3   |
| 198       | 96.0  | 79.2  | 118.8  |

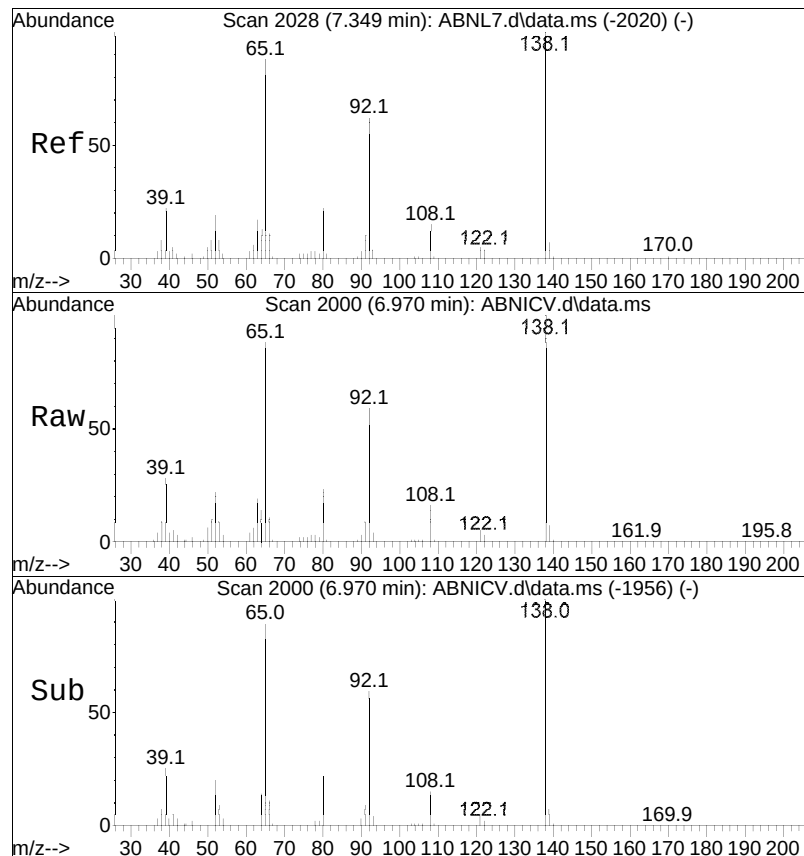




#47  
 2-Chloronaphthalene  
 Concen: 50.24 ug/ml  
 RT: 6.850 min Scan# 1958  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

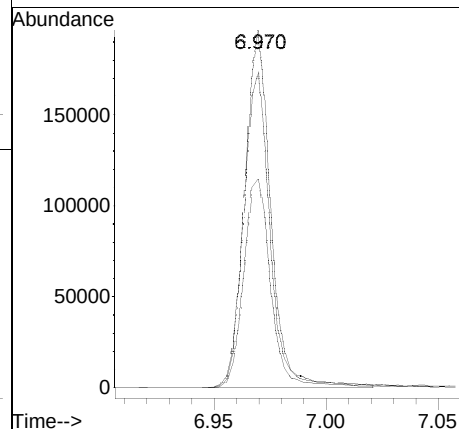
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 460267 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 37.3  | 33.6  | 50.4   |
| 164       | 33.1  | 25.8  | 38.8   |

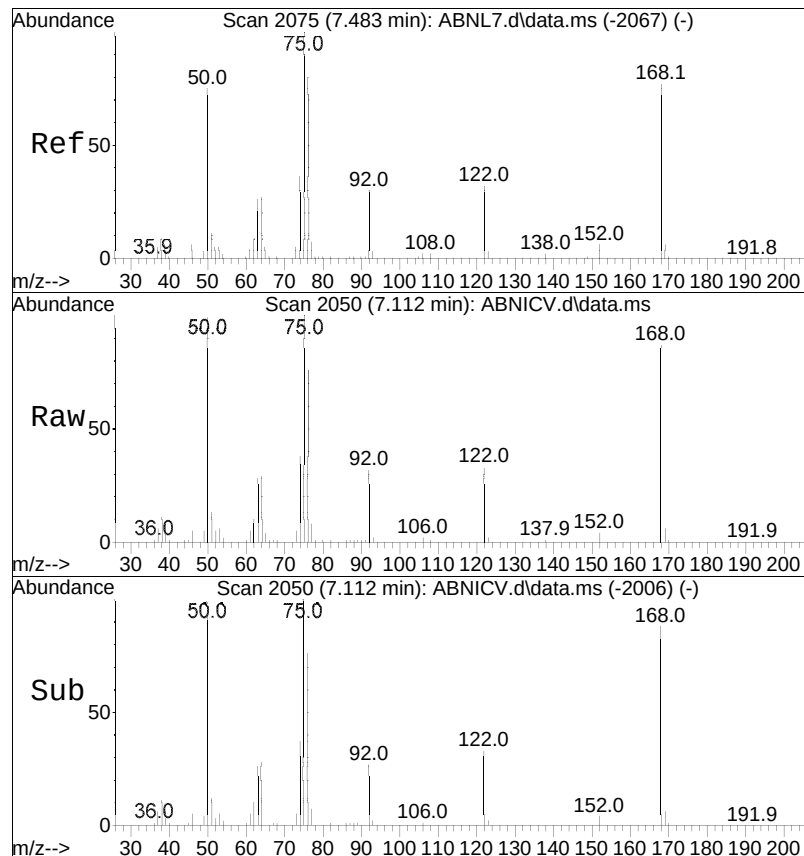




#48  
 2-Nitroaniline  
 Concen: 51.13 ug/ml  
 RT: 6.970 min Scan# 2000  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

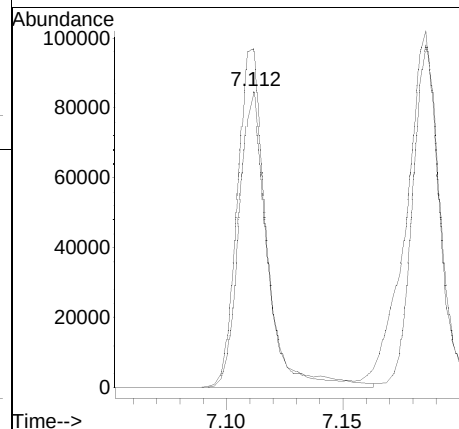
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 158216 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 60.9  | 54.2  | 81.2   |
| 65        | 89.3  | 82.8  | 124.2  |



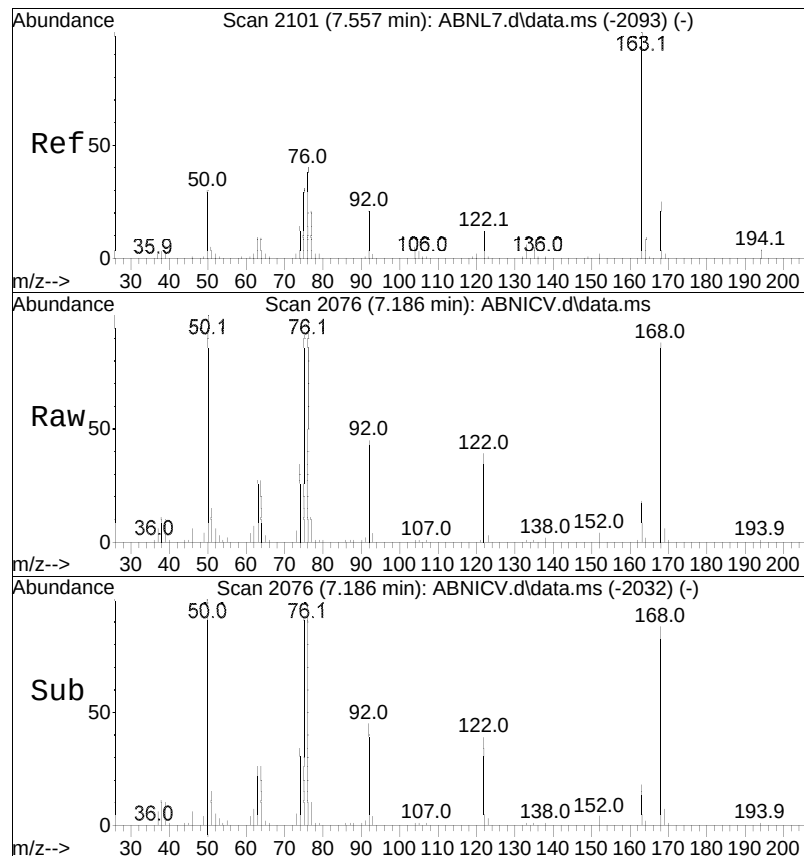


#49  
 1,4-Dinitrobenzene  
 Concen: 48.95 ug/ml  
 RT: 7.112 min Scan# 2050  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 168     | 100   |       |        |
| 75      | 118.2 | 120.1 | 180.1# |

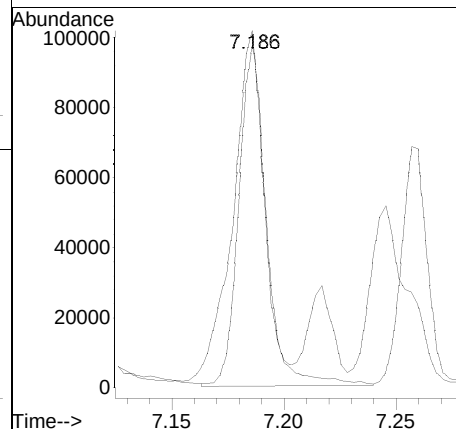


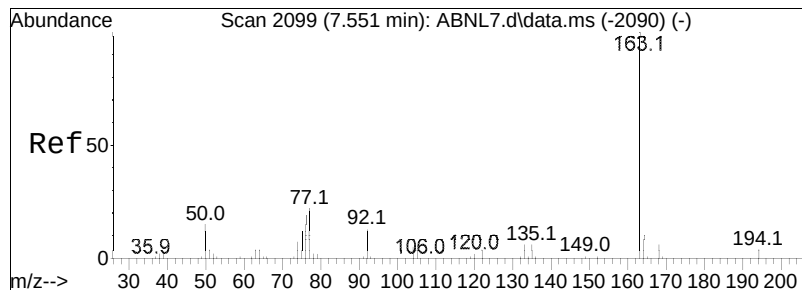




#50  
 1,3-Dinitrobenzene  
 Concen: 51.58 ug/ml  
 RT: 7.186 min Scan# 2076  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

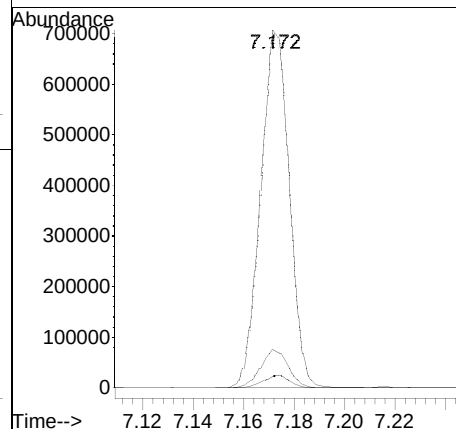
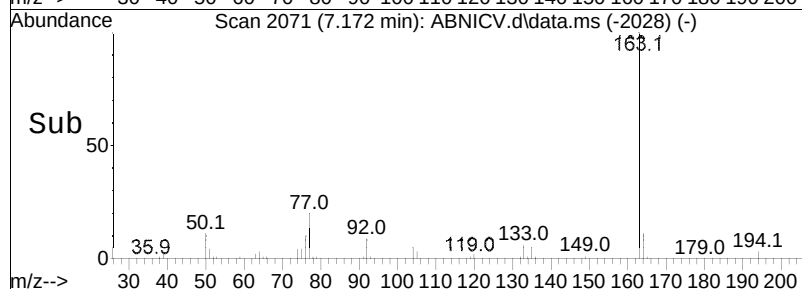
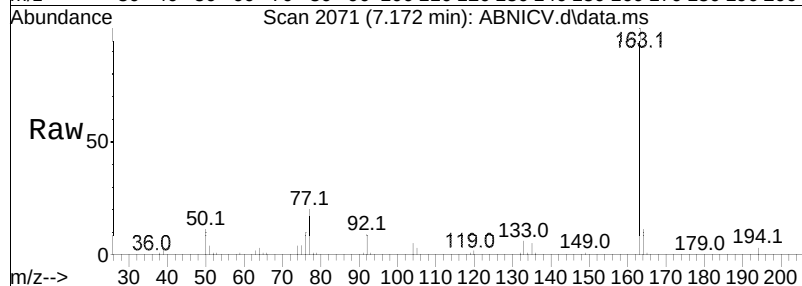
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 168     | 100   |       |        |
| 75      | 119.1 | 123.2 | 184.8# |

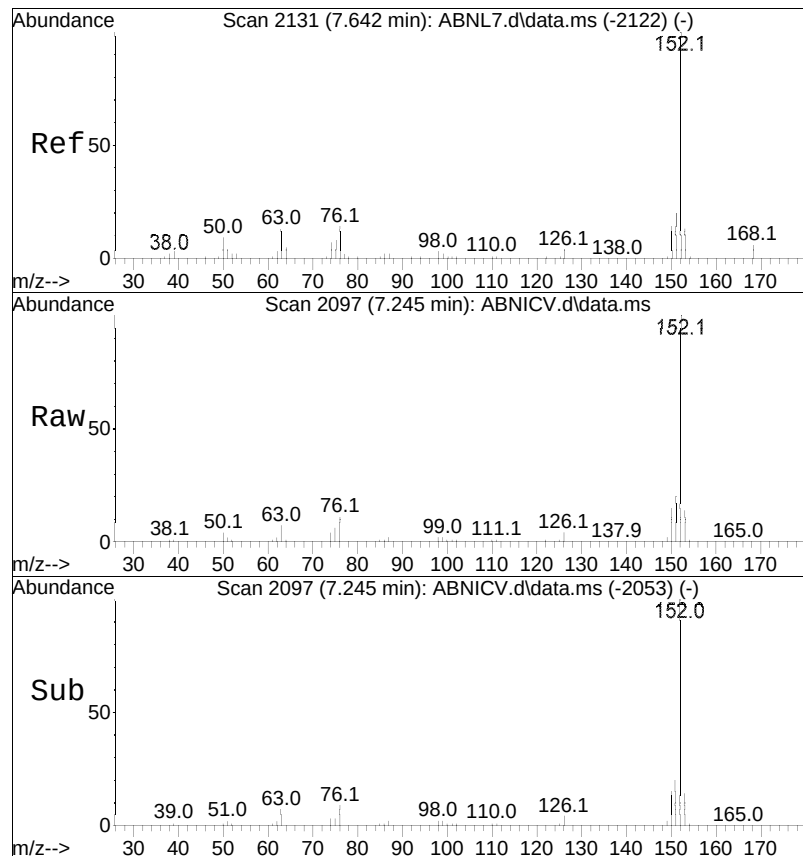




#51  
 Dimethyl phthalate  
 Concen: 48.76 ug/ml  
 RT: 7.172 min Scan# 2071  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

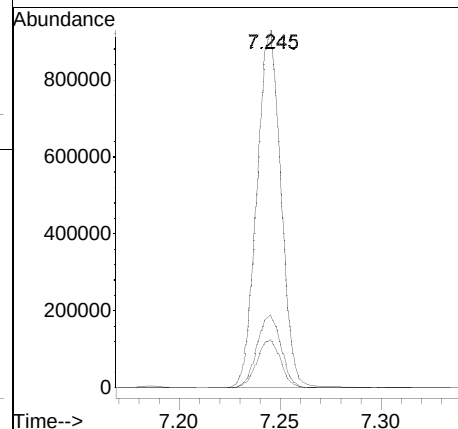
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 2.6   | 4.0   |
| 164     | 10.5  | 8.2   | 12.4  |

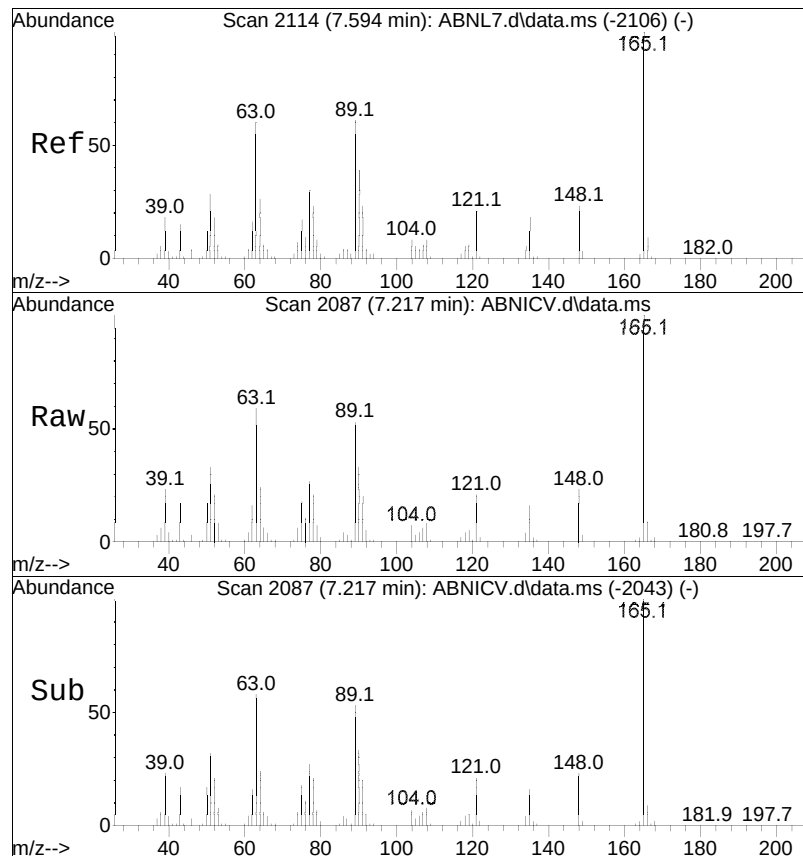




#52  
 Acenaphthylene  
 Concen: 49.44 ug/ml  
 RT: 7.245 min Scan# 2097  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

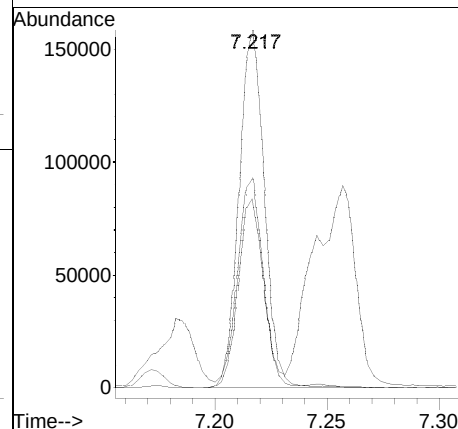
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 762199 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.7  | 16.4  | 24.6   |
| 153       | 13.4  | 11.0  | 16.6   |

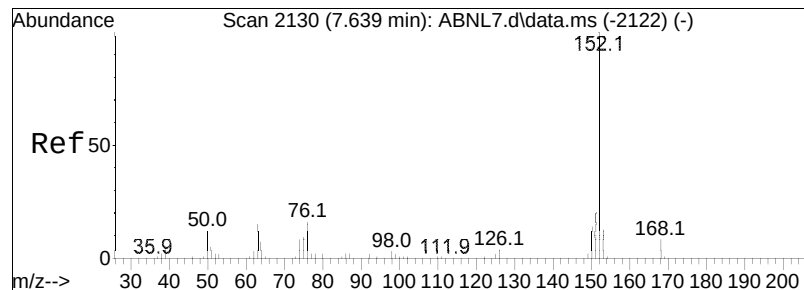




#53  
 2,6-Dinitrotoluene  
 Concen: 51.28 ug/ml  
 RT: 7.217 min Scan# 2087  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

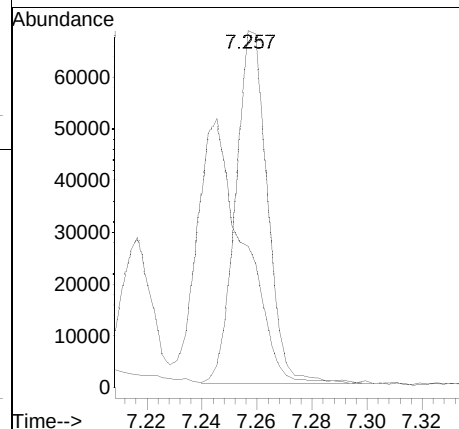
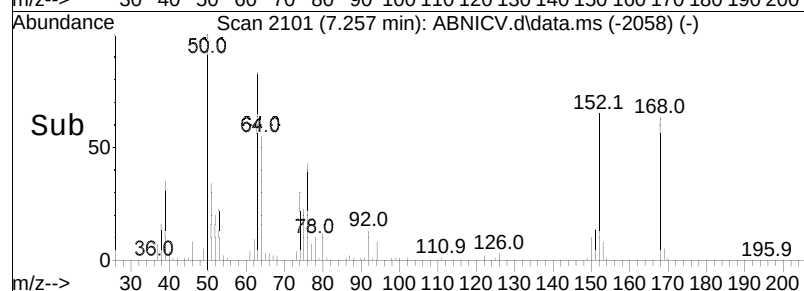
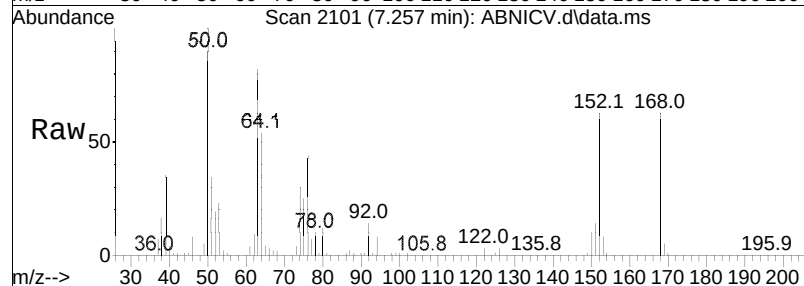
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 125380 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 89        | 53.0  | 50.4  | 75.6   |
| 63        | 58.4  | 56.9  | 85.3   |

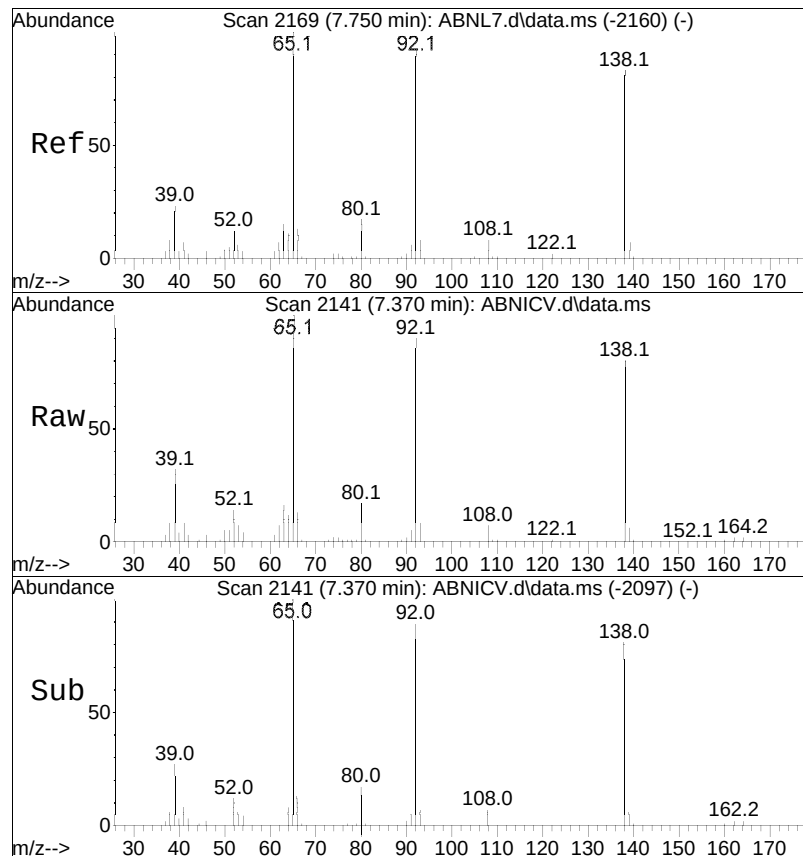




#54  
 1,2-Dinitrobenzene  
 Concen: 51.27 ug/ml  
 RT: 7.257 min Scan# 2101  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

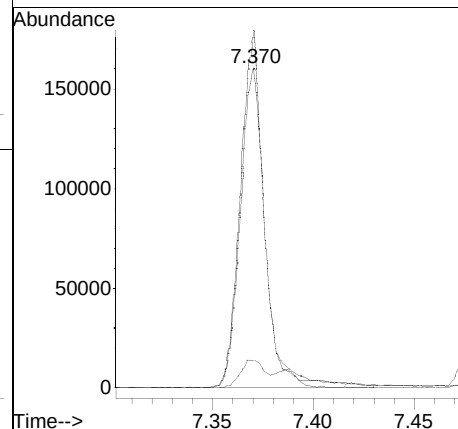
Tgt Ion:168 Resp: 54819  
 Ion Ratio Lower Upper  
 168 100  
 75 110.5 105.0 157.6

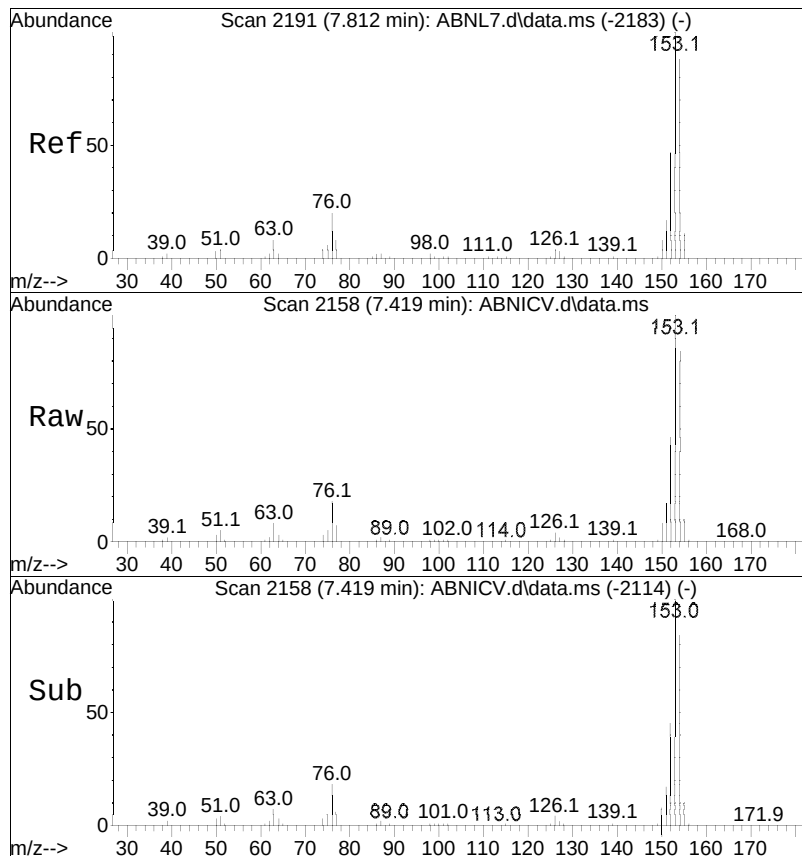




#64  
 3-Nitroaniline  
 Concen: 52.84 ug/ml  
 RT: 7.370 min Scan# 2141  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

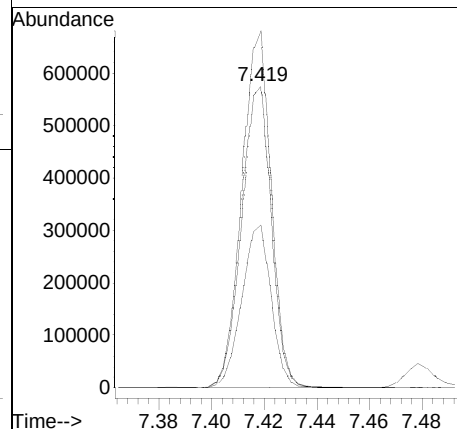
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 138532 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 107.9 | 95.4  | 143.2  |
| 108       | 8.7   | 8.6   | 12.8   |

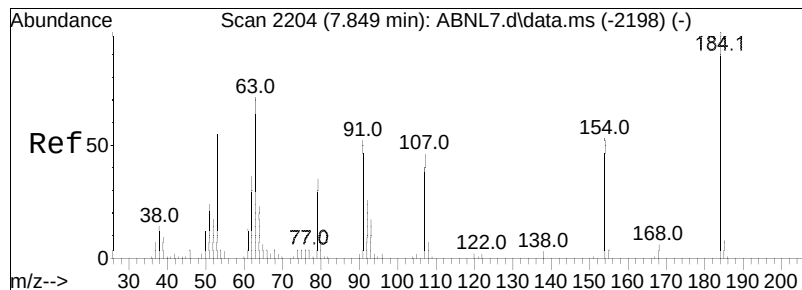




#65  
 Acenaphthene  
 Concen: 49.55 ug/ml  
 RT: 7.419 min Scan# 2158  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 451983 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 116.8 | 91.3  | 136.9  |
| 152       | 53.5  | 41.0  | 61.4   |





#66

2,4-Dinitrophenol

Concen: 45.85 ug/ml

RT: 7.478 min Scan# 2179

Delta R.T. -0.003 min

Lab File: ABNICV.d

Acq: 1 Dec 2019 7:34 pm

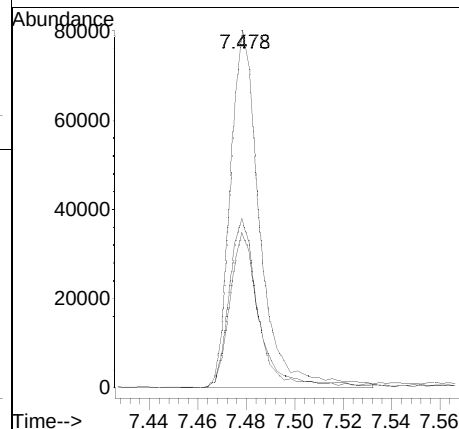
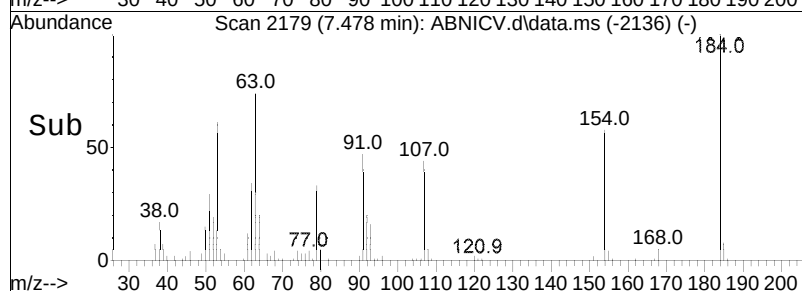
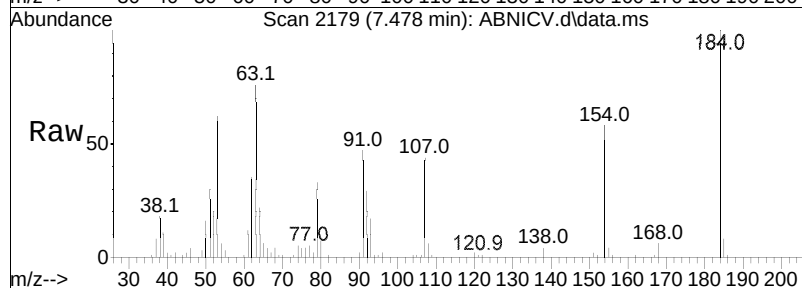
Tgt Ion:184 Resp: 68160

Ion Ratio Lower Upper

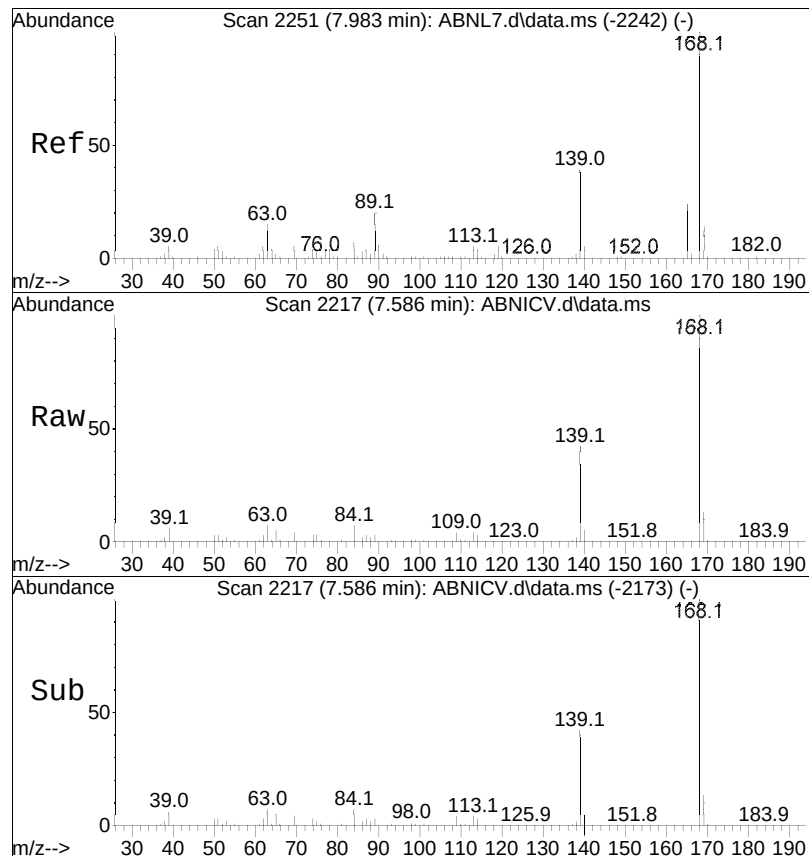
184 100

107 42.2 41.8 62.6

91 46.5 46.1 69.1

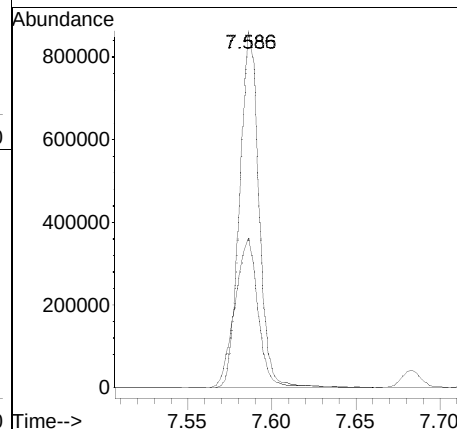


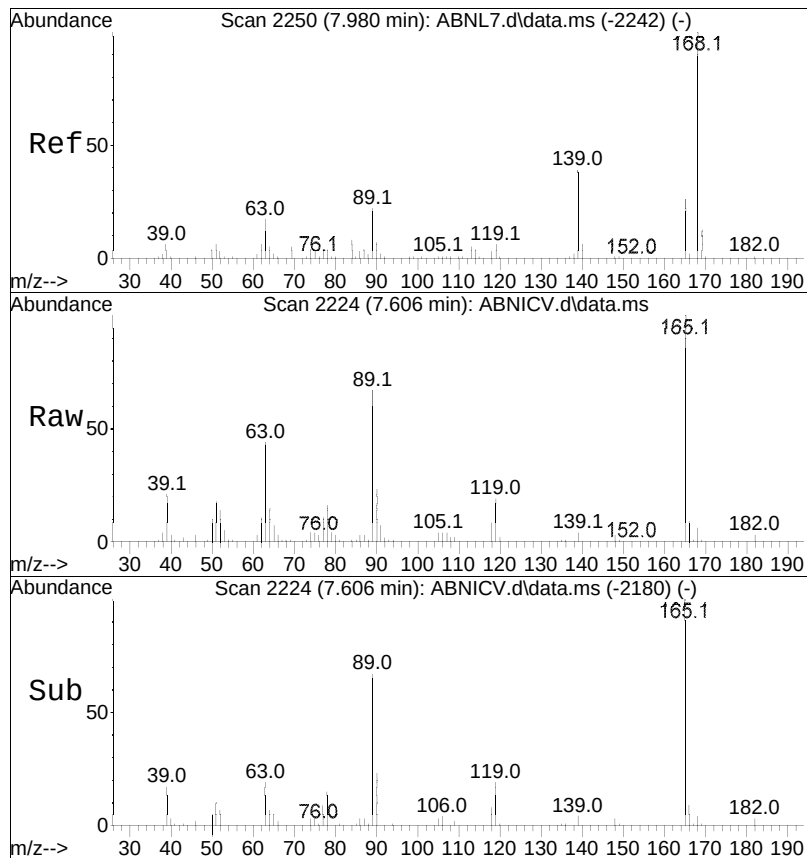




#67  
 Dibenzofuran  
 Concen: 50.51 ug/ml  
 RT: 7.586 min Scan# 2217  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

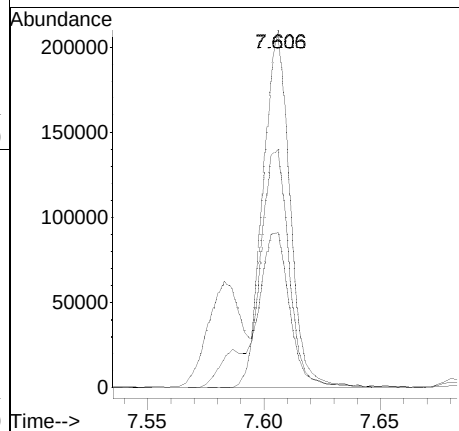
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 51.4  | 33.2  | 49.8# |

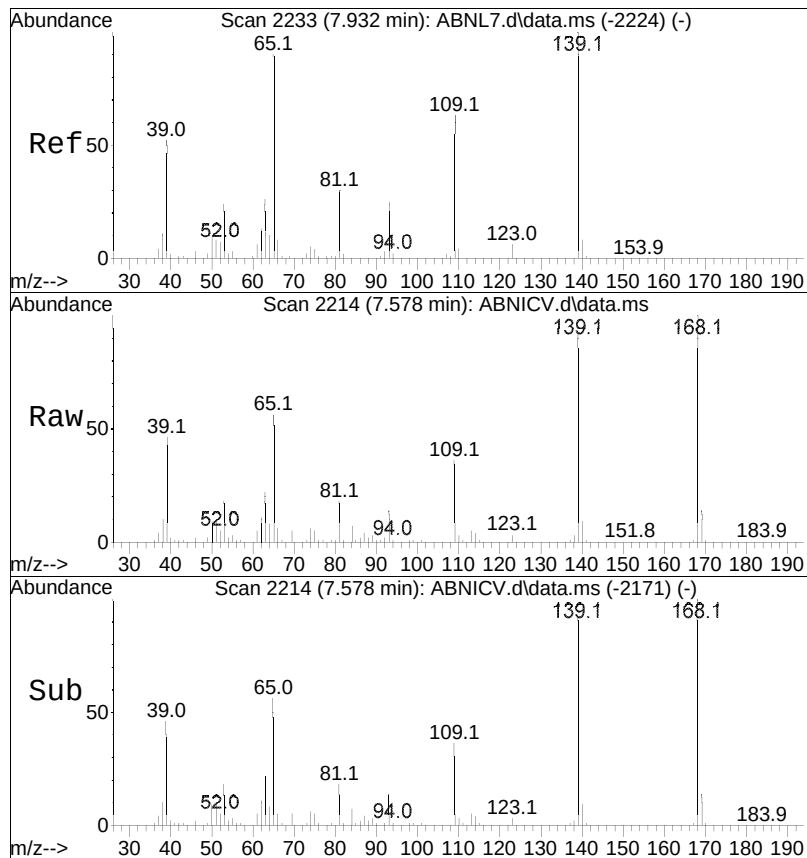




#68  
 2,4-Dinitrotoluene  
 Concen: 52.21 ug/ml  
 RT: 7.606 min Scan# 2224  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

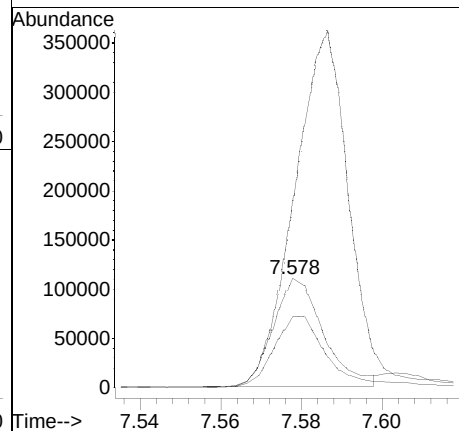
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 168851 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 89        | 79.2  | 75.7  | 113.5  |
| 63        | 44.0  | 62.6  | 94.0#  |

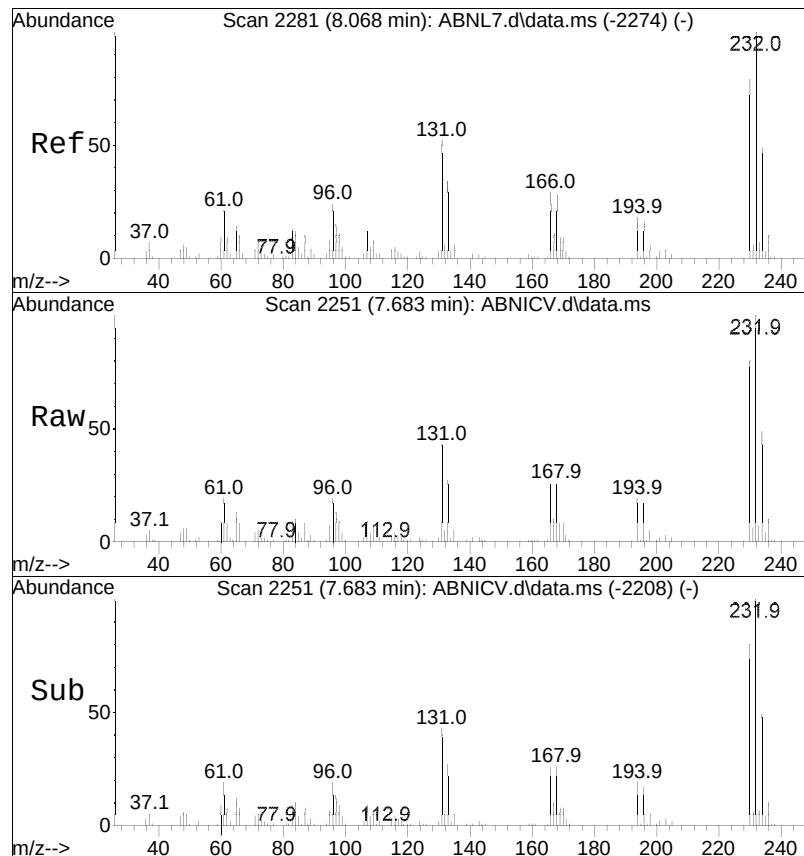




#69  
 4-Nitrophenol  
 Concen: 49.53 ug/ml  
 RT: 7.578 min Scan# 2214  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

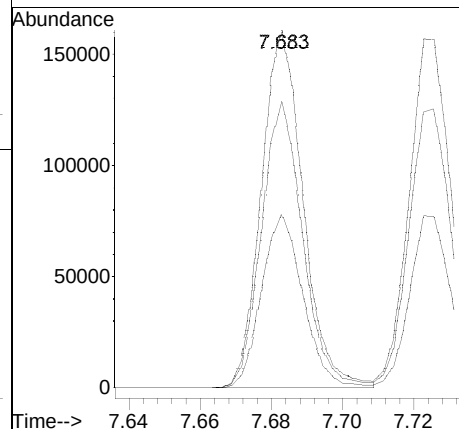
| Tgt Ion: | 65    | 109  | 139   | Ratio | Lower | Upper  |
|----------|-------|------|-------|-------|-------|--------|
| Resp:    | 95899 |      |       |       |       |        |
| Ion      | 65    | 109  | 139   | 100   |       |        |
| Ratio    |       | 70.8 | 365.0 |       | 55.4  | 109.3# |

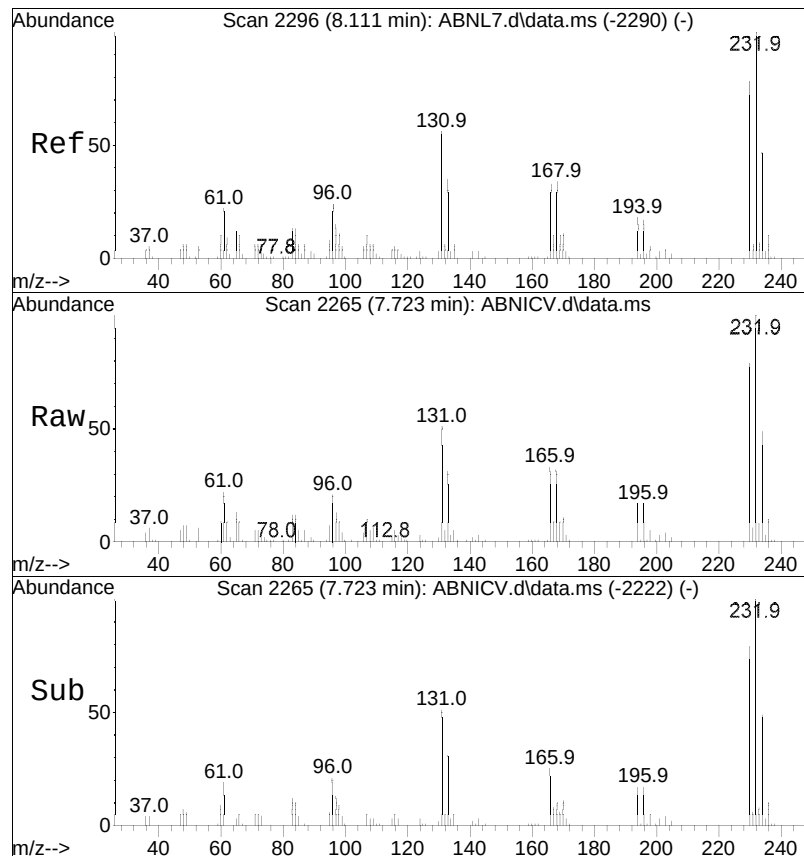




#70  
 2,3,5,6-Tetrachlorophenol  
 Concen: 50.64 ug/ml  
 RT: 7.683 min Scan# 2251  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

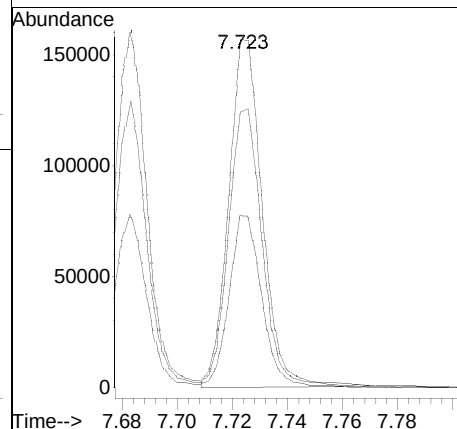
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:232 | Resp: | 130932 |
| Ion | Ratio   | Lower | Upper  |
| 232 | 100     |       |        |
| 230 | 79.4    | 65.0  | 97.6   |
| 234 | 48.2    | 37.8  | 56.8   |

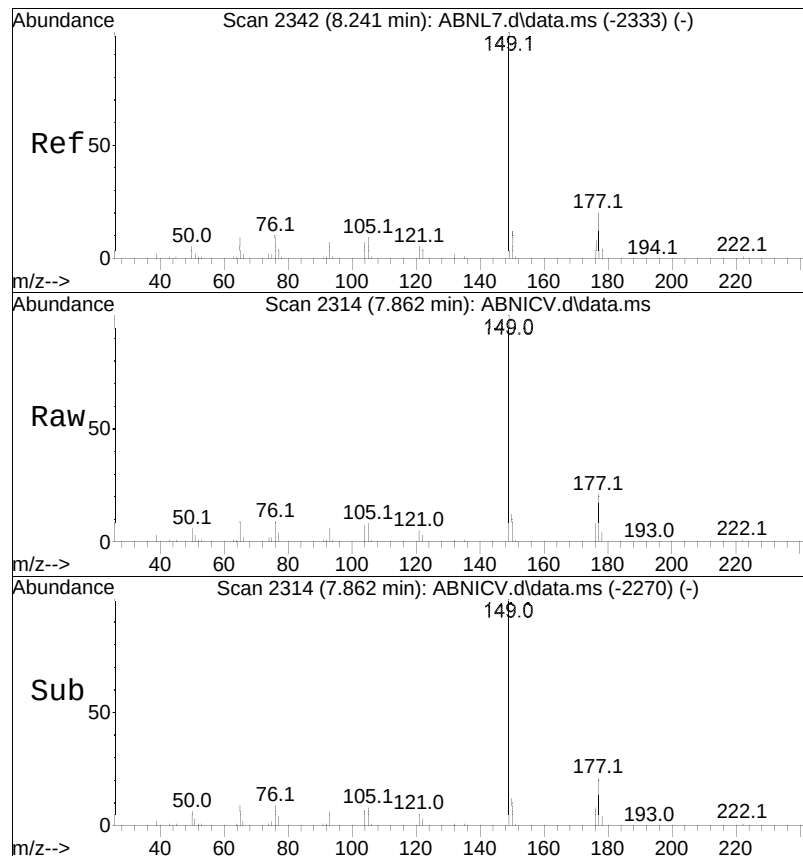




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 49.28 ug/ml  
 RT: 7.723 min Scan# 2265  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

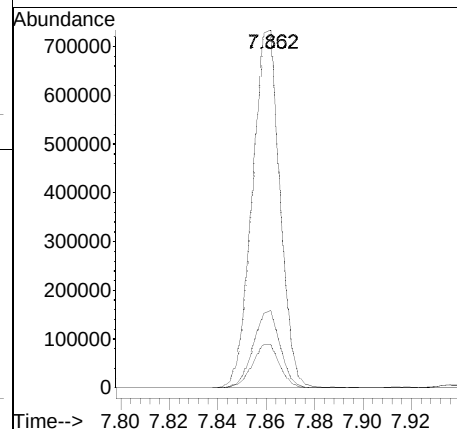
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 232     | 100   | 132384 |       |       |
| 230     | 79.3  |        | 63.7  | 95.5  |
| 234     | 49.3  |        | 38.4  | 57.6  |

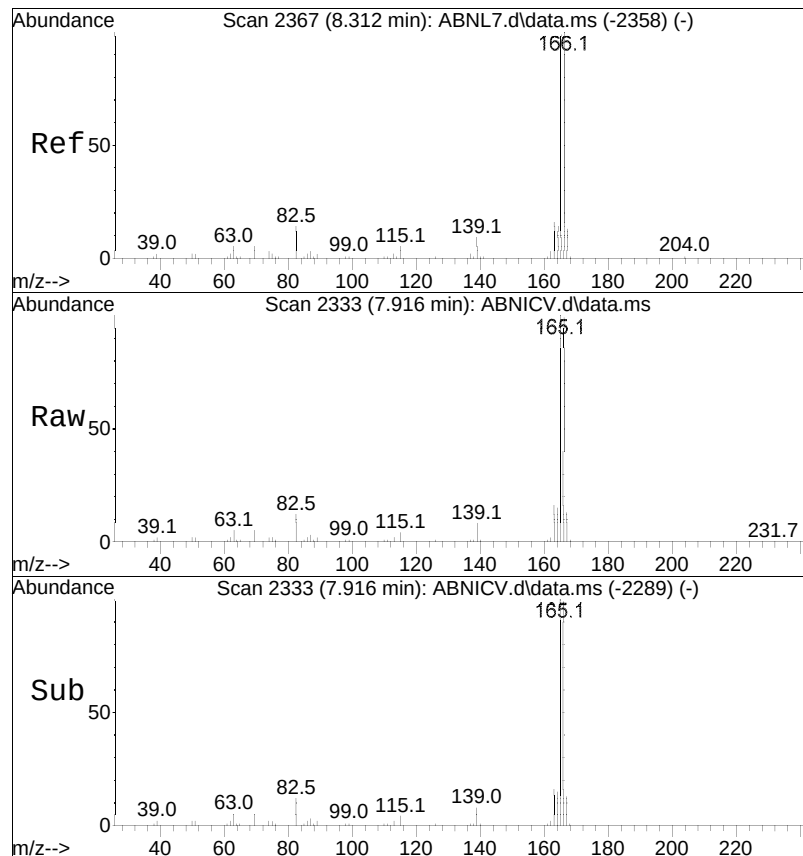




#72  
 Diethyl phthalate  
 Concen: 49.78 ug/ml  
 RT: 7.862 min Scan# 2314  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

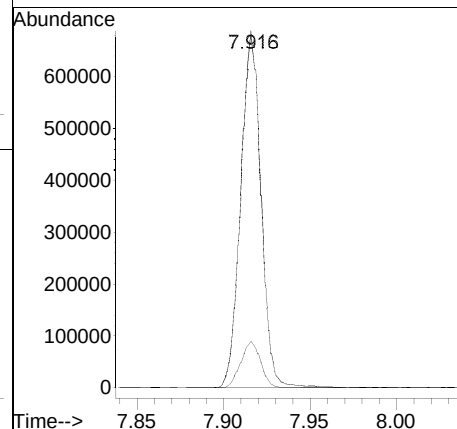
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 149 | 100  |       | 574936 |       |       |
| 177 | 21.1 | 15.5  |        | 23.3  |       |
| 150 | 12.1 | 9.5   |        | 14.3  |       |

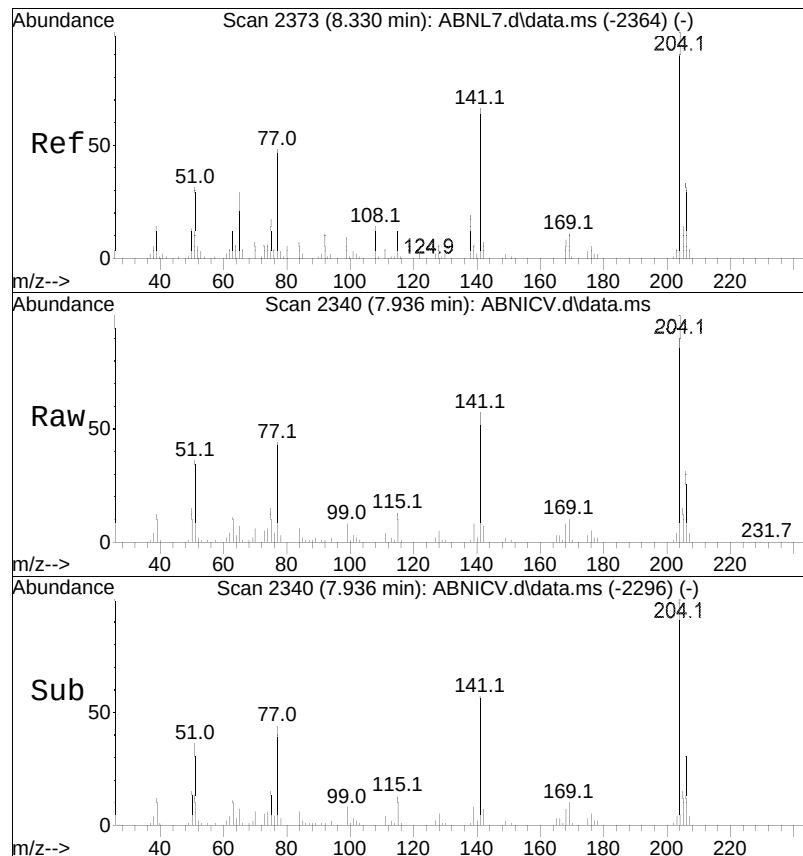




#73  
 Fluorene  
 Concen: 50.81 ug/ml  
 RT: 7.916 min Scan# 2333  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

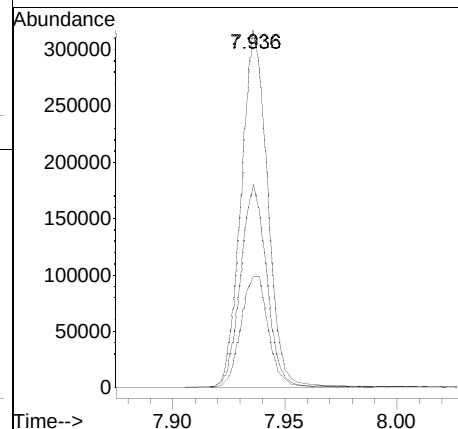
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 166 | 100   |       |       |       |
| 165 | 100.9 | 79.3  | 118.9 |       |
| 167 | 13.3  | 10.6  | 16.0  |       |



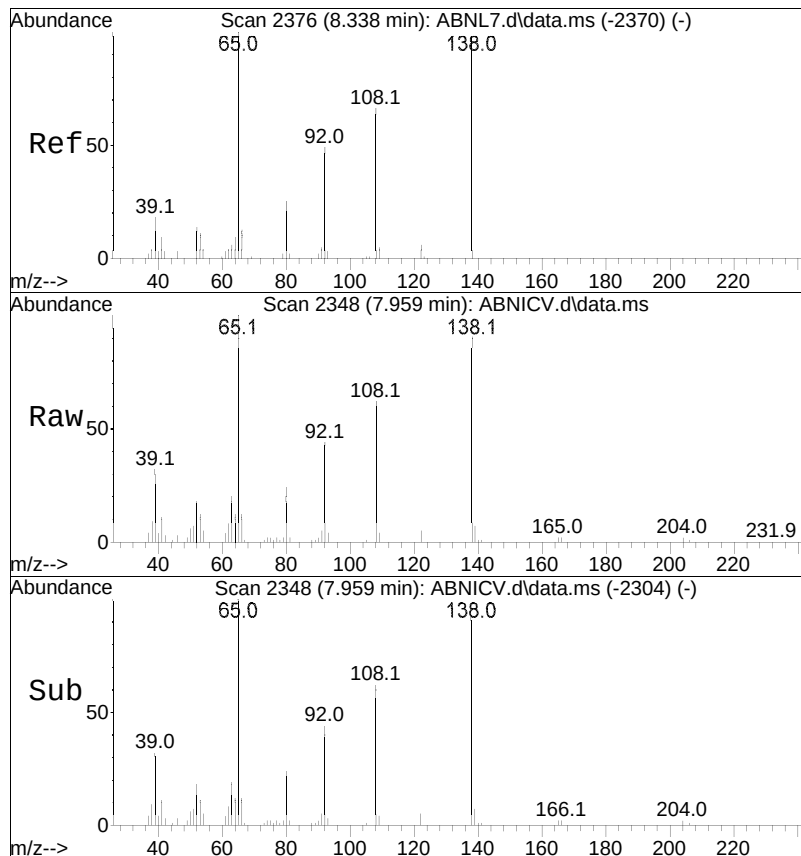


#74  
 4-Chlorophenyl phenyl ether  
 Concen: 49.65 ug/ml  
 RT: 7.936 min Scan# 2340  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 257784 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 32.6  | 26.2  | 39.4   |
| 141       | 56.5  | 57.2  | 85.8#  |

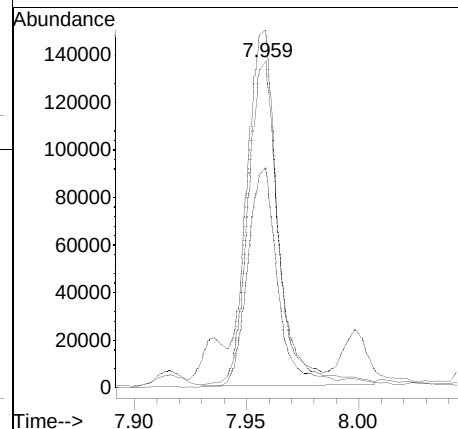


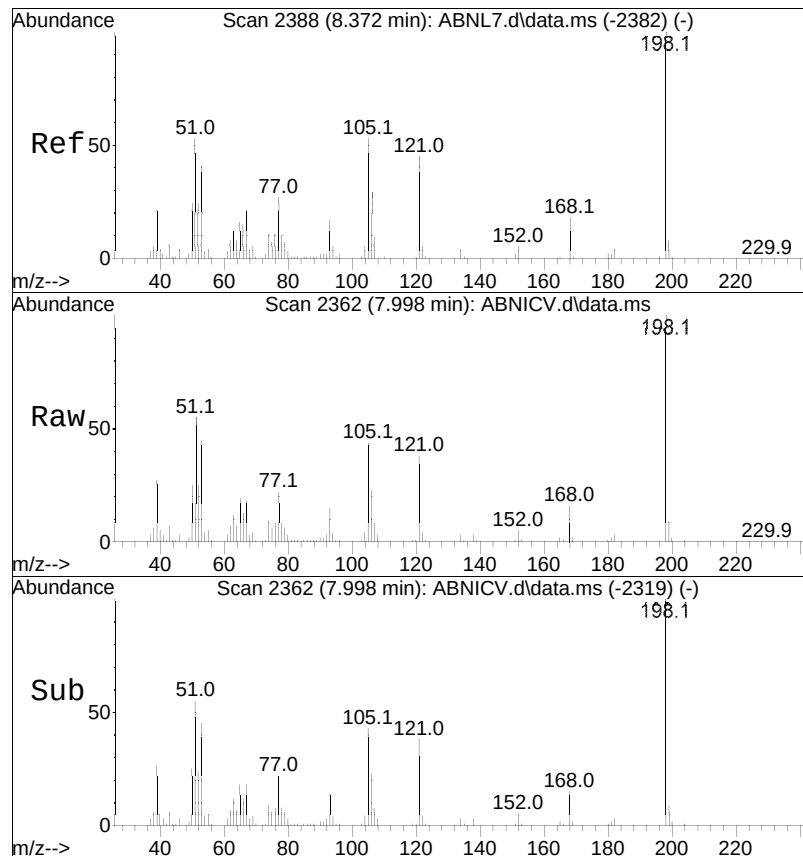




#75  
 4-Nitroaniline  
 Concen: 50.96 ug/ml  
 RT: 7.959 min Scan# 2348  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

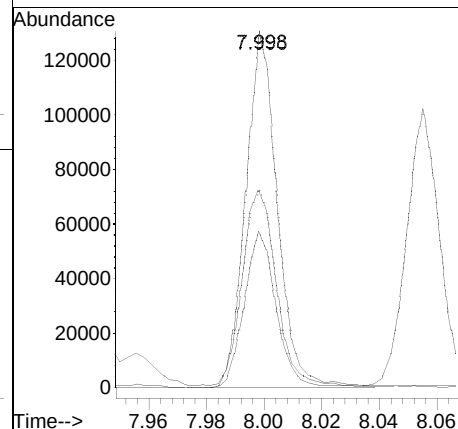
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 129730 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 67.4  | 62.7  | 94.1   |
| 65        | 106.4 | 107.8 | 161.6# |

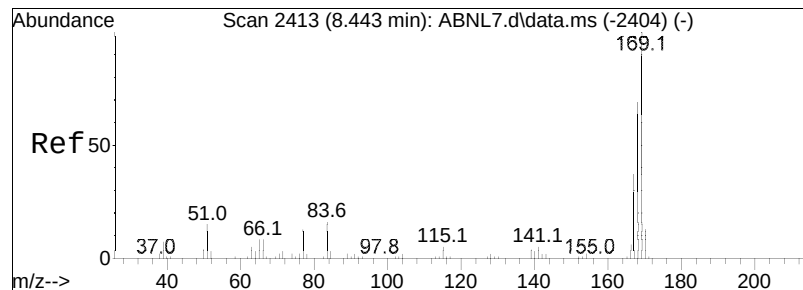




#76  
 4,6-Dinitro-o-cresol  
 Concen: 51.77 ug/ml  
 RT: 7.998 min Scan# 2362  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 57.8  | 59.0  | 88.4# |
| 105     | 44.6  | 45.0  | 67.6# |





#77

NDPA/DPA

Concen: 54.28 ug/ml

RT: 8.055 min Scan# 2382

Delta R.T. -0.003 min

Lab File: ABNICV.d

Acq: 1 Dec 2019 7:34 pm

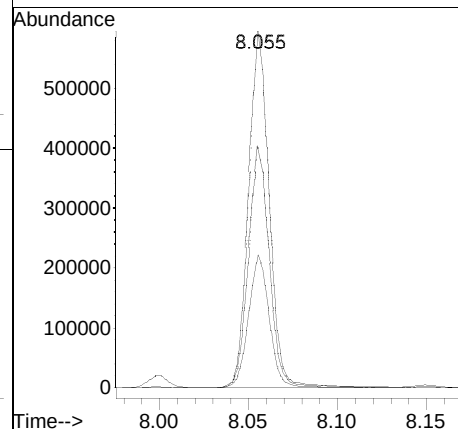
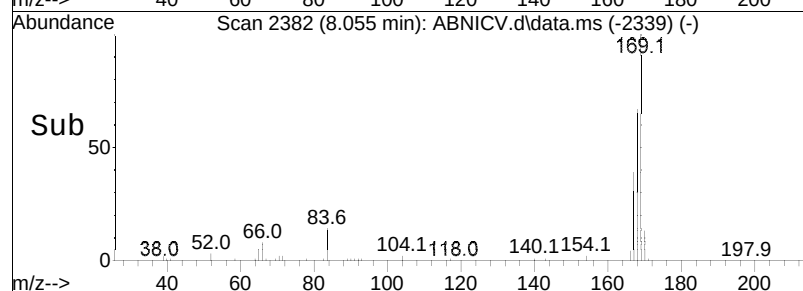
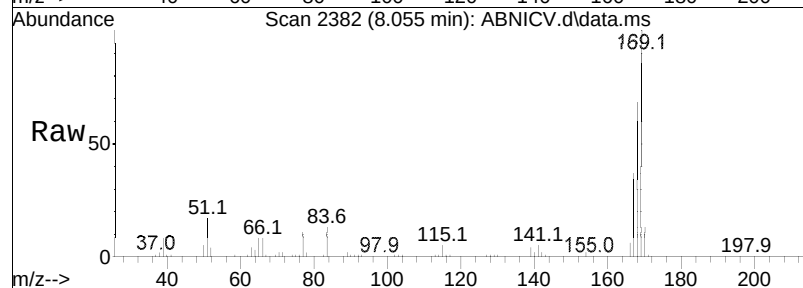
Tgt Ion:169 Resp: 480450

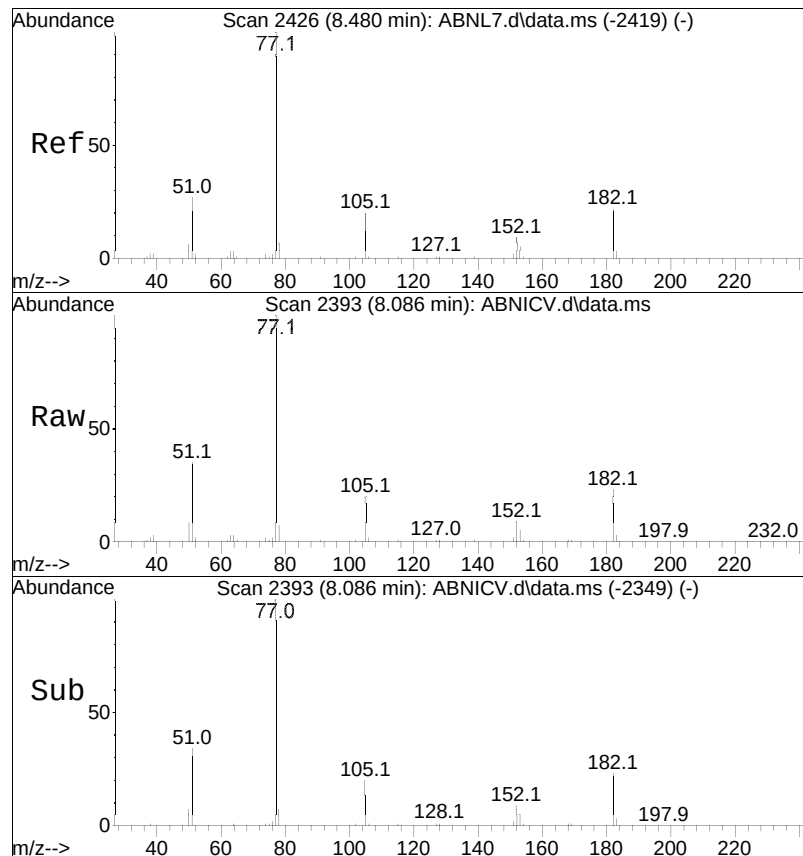
Ion Ratio Lower Upper

169 100

168 68.2 55.4 83.0

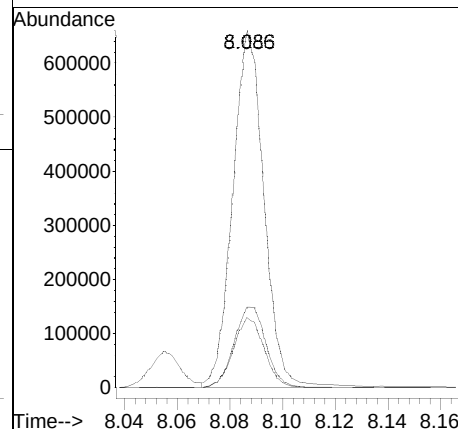
167 37.7 30.3 45.5

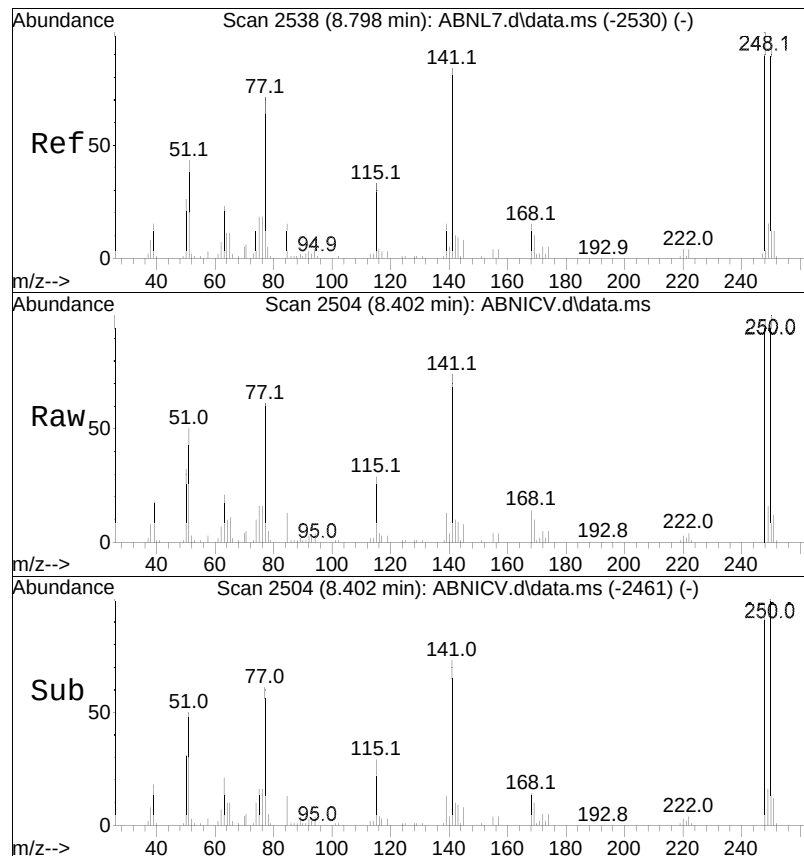




#78  
 Azobenzene  
 Concen: 51.36 ug/ml  
 RT: 8.086 min Scan# 2393  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

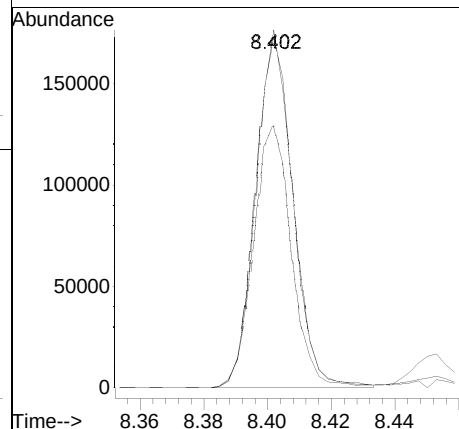
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 23.9  | 16.0  | 24.0  |
| 105     | 20.0  | 15.6  | 23.4  |

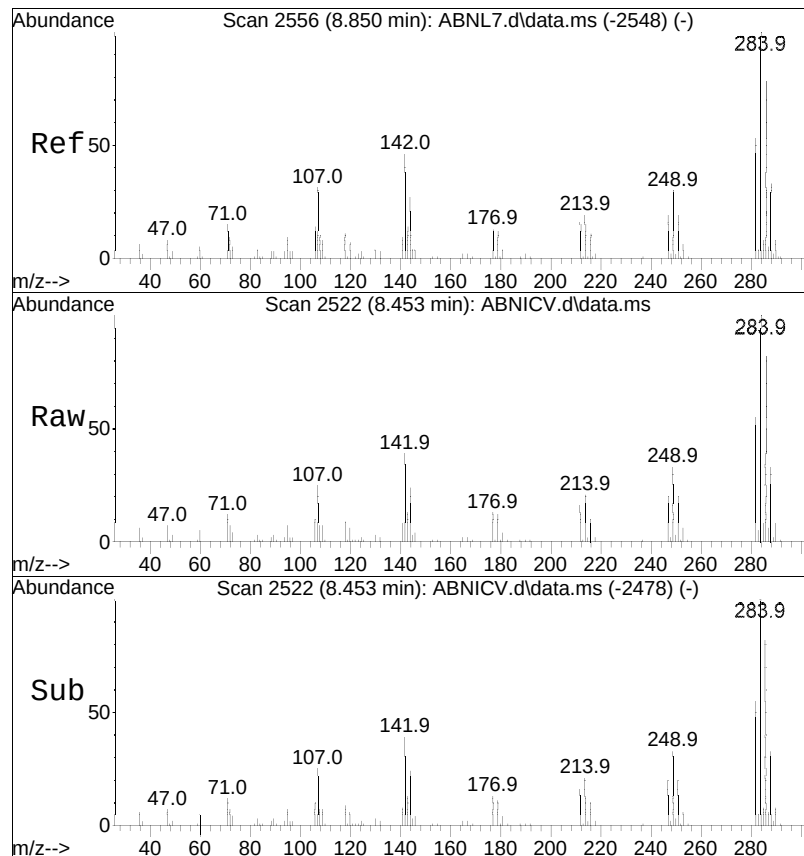




#80  
 4-Bromophenyl phenyl ether  
 Concen: 49.22 ug/ml  
 RT: 8.402 min Scan# 2504  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

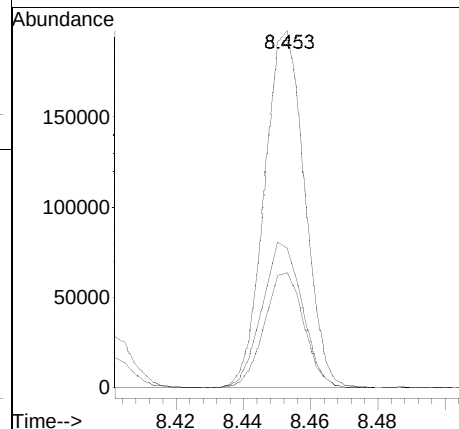
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 141868 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 74.8  | 76.8  | 115.2# |
| 250       | 98.6  | 79.7  | 119.5  |

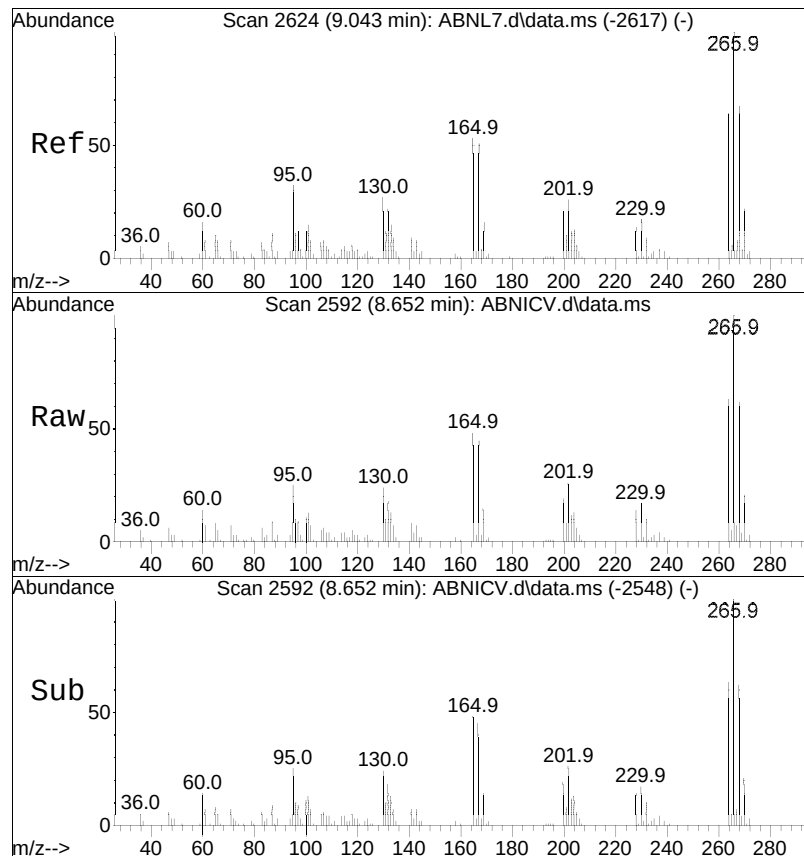




#81  
 Hexachlorobenzene  
 Concen: 50.91 ug/ml  
 RT: 8.453 min Scan# 2522  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

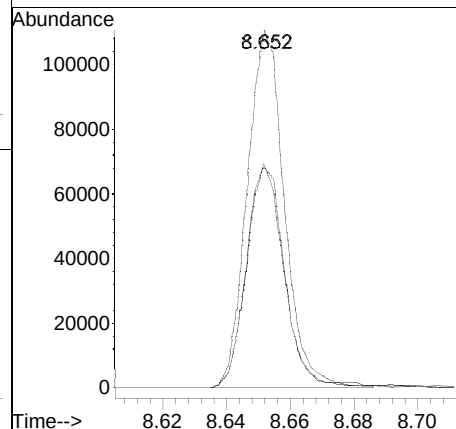
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:284 | Resp: | 164027 |
| Ion | Ratio   | Lower | Upper  |
| 284 | 100     |       |        |
| 142 | 41.1    | 35.8  | 53.6   |
| 249 | 31.9    | 24.7  | 37.1   |

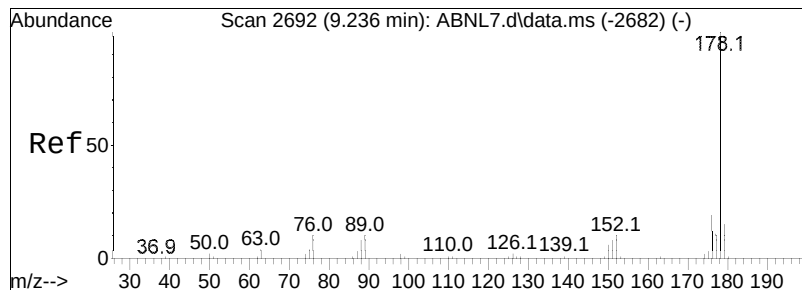




#82  
 Pentachlorophenol  
 Concen: 59.62 ug/ml  
 RT: 8.652 min Scan# 2592  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

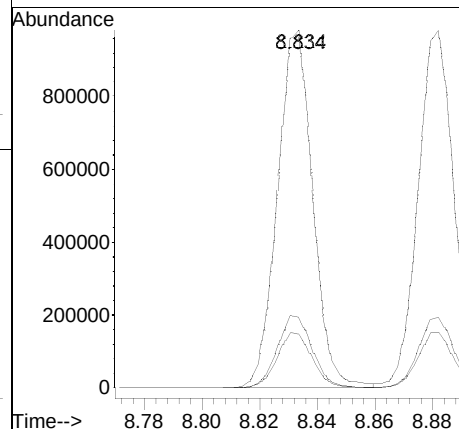
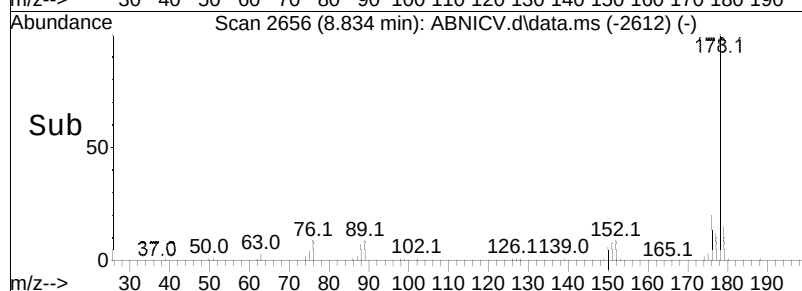
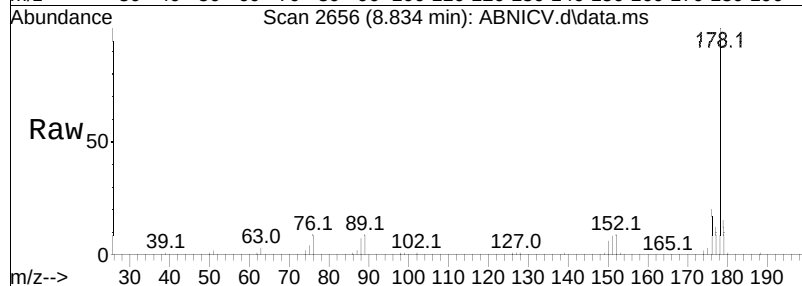
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 266     | 100   | 89510 |       |       |
| 264     | 62.6  |       | 51.8  | 77.6  |
| 268     | 64.0  |       | 49.8  | 74.8  |



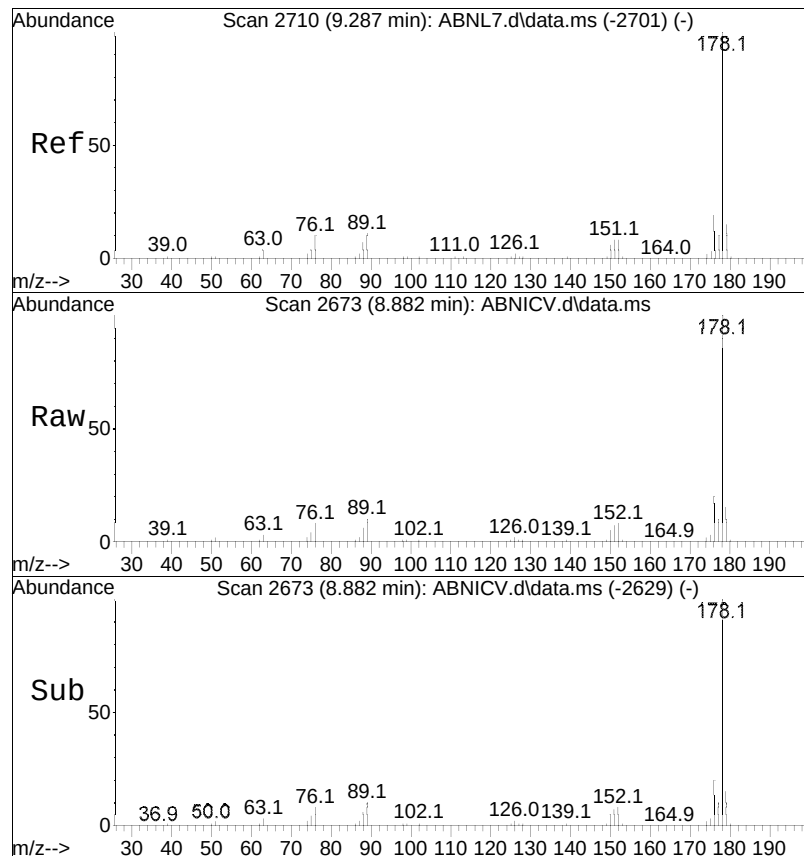


#89  
 Phenanthrene  
 Concen: 49.73 ug/ml  
 RT: 8.834 min Scan# 2656  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 12.2  | 18.2  |
| 176     | 20.1  | 15.4  | 23.2  |

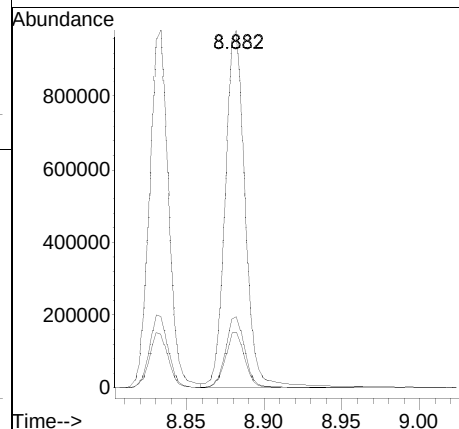


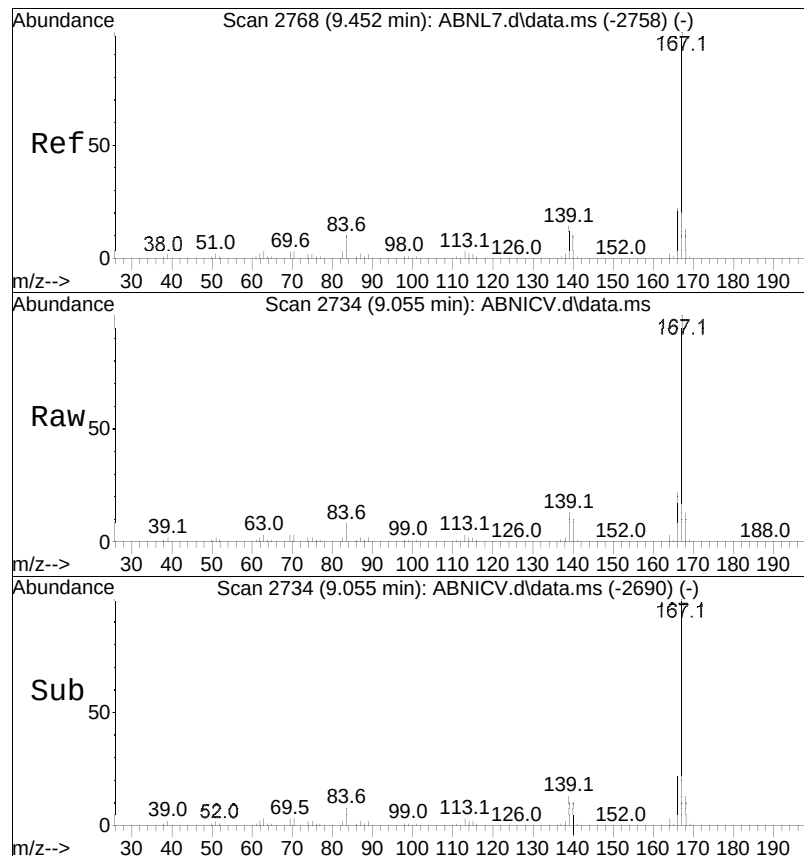




#90  
 Anthracene  
 Concen: 51.47 ug/ml  
 RT: 8.882 min Scan# 2673  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

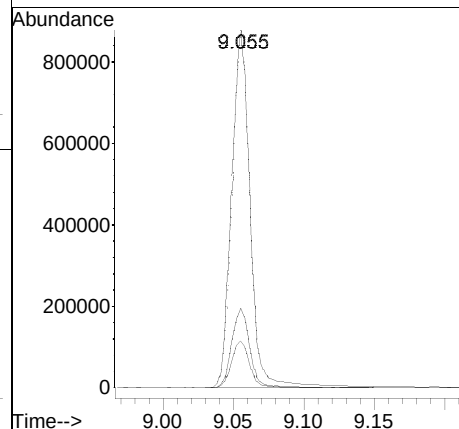
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 12.1  | 18.1  |
| 176     | 19.5  | 14.8  | 22.2  |

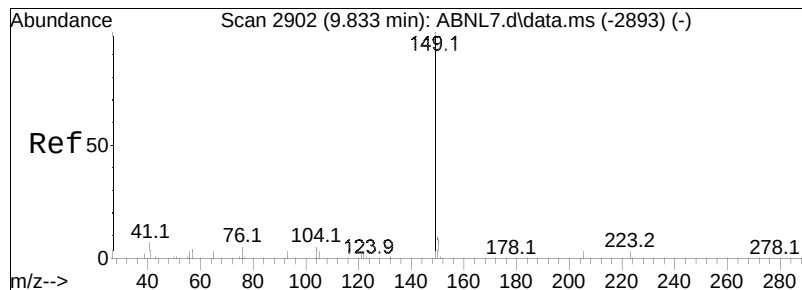




#91  
 Carbazole  
 Concen: 51.64 ug/ml  
 RT: 9.055 min Scan# 2734  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 789667 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 168       | 13.2  | 10.6  | 15.8   |
| 166       | 22.4  | 17.7  | 26.5   |





#92

Di-n-butylphthalate

Concen: 50.73 ug/ml

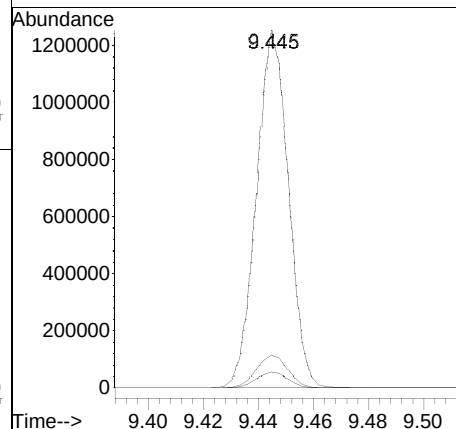
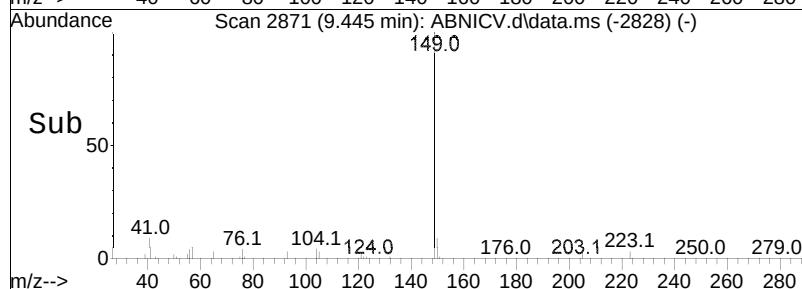
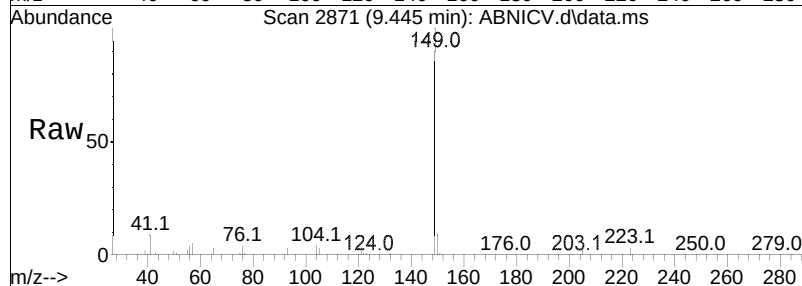
RT: 9.445 min Scan# 2871

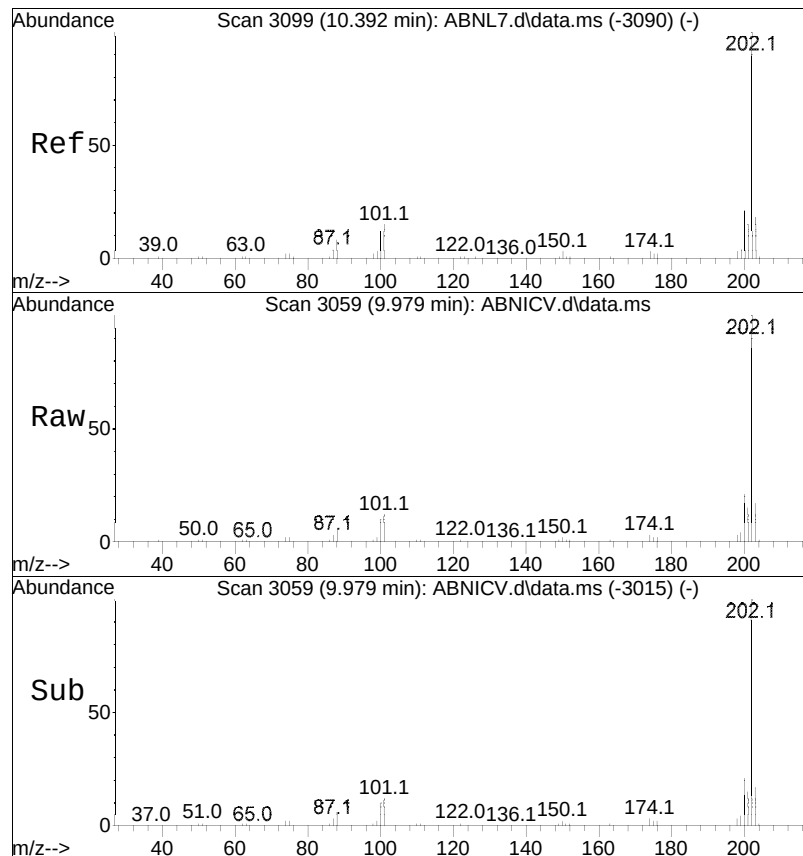
Delta R.T. -0.002 min

Lab File: ABNICV.d

Acq: 1 Dec 2019 7:34 pm

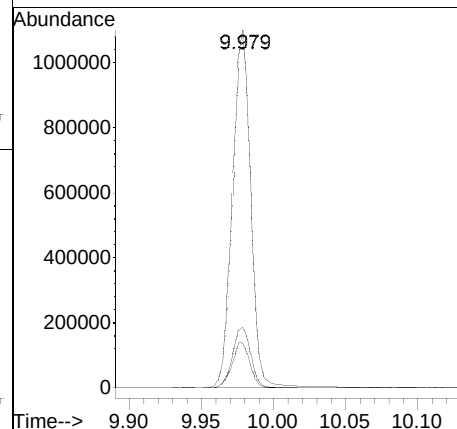
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 996861 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 9.1   | 7.4   | 11.0   |
| 104       | 4.4   | 4.2   | 6.2    |

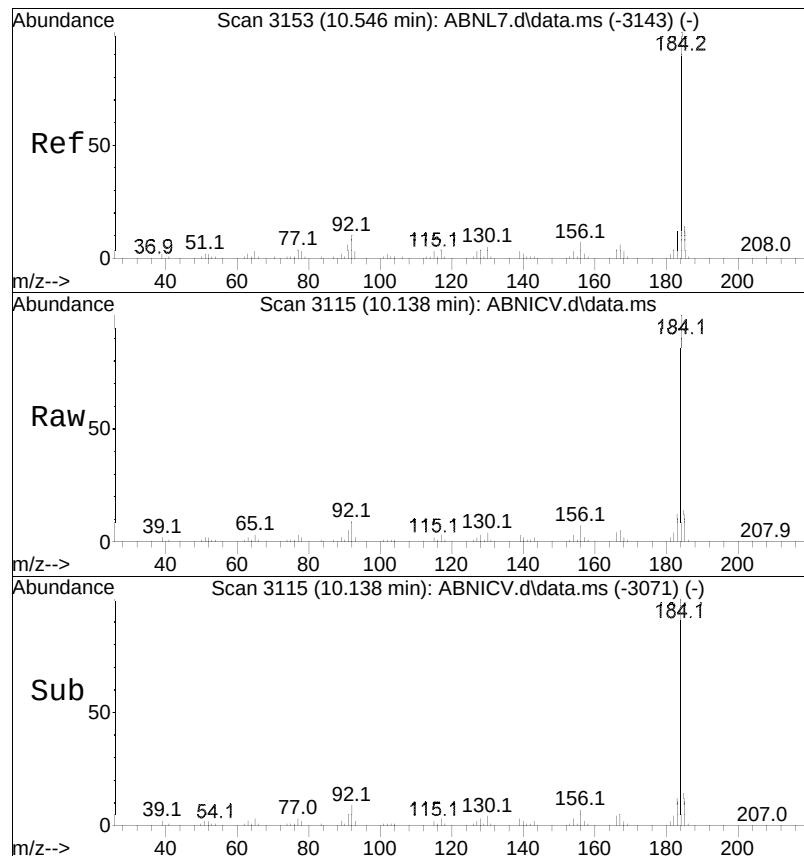




#93  
 Fluoranthene  
 Concen: 51.42 ug/ml  
 RT: 9.979 min Scan# 3059  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

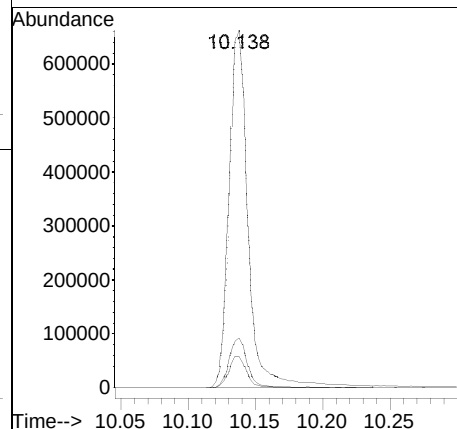
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 949014 |       |       |
| 101     | 12.8  |        | 11.4  | 17.0  |
| 203     | 17.2  |        | 13.9  | 20.9  |

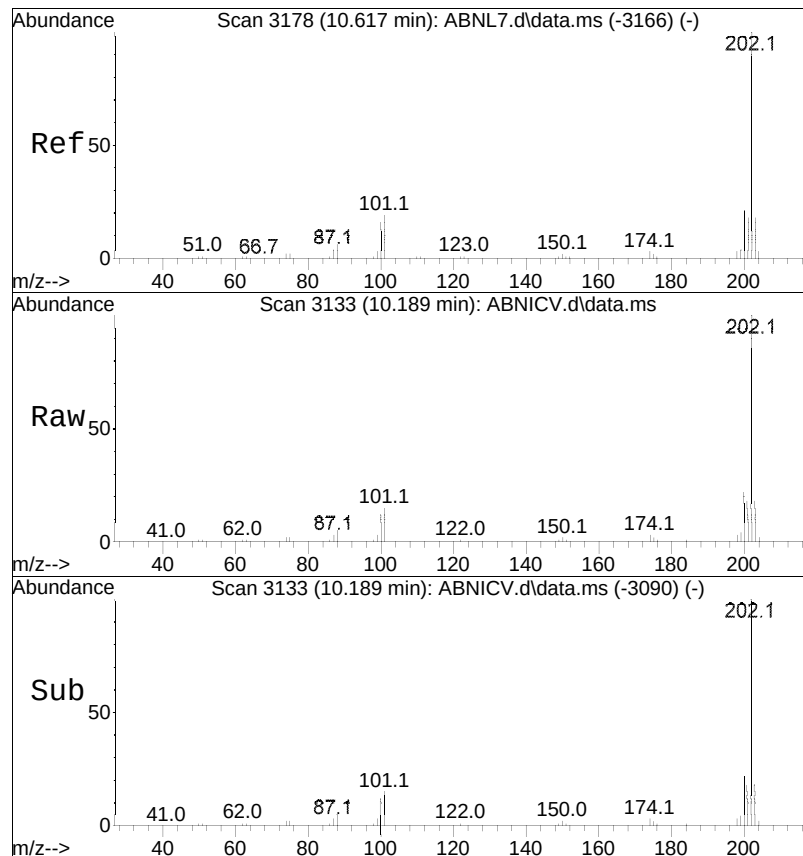




#94  
 Benzidine  
 Concen: 53.12 ug/ml  
 RT: 10.138 min Scan# 3115  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

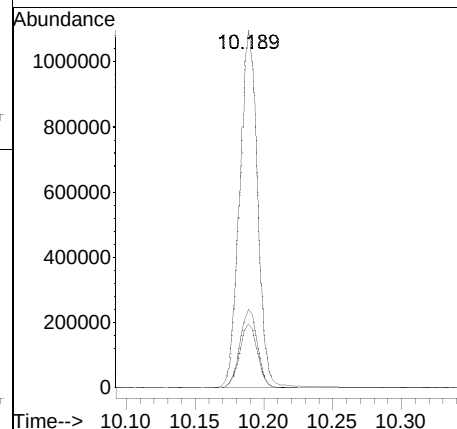
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 184   | Resp: | 648272 |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 92        | 8.6   | 7.6   | 11.4   |
| 185       | 13.7  | 11.5  | 17.3   |

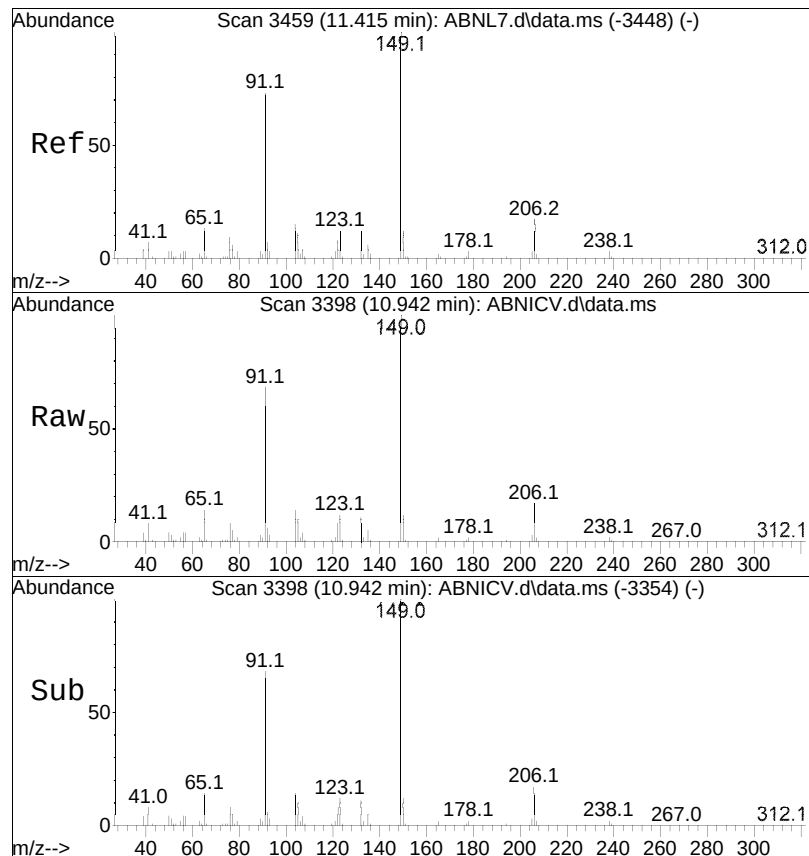




#95  
 Pyrene  
 Concen: 50.65 ug/ml  
 RT: 10.189 min Scan# 3133  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

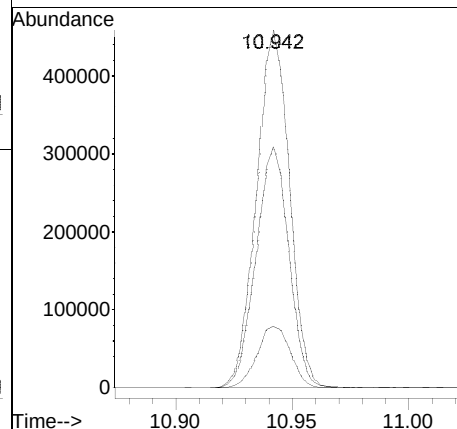
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 983180 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.9  | 17.0  | 25.4   |
| 203       | 18.0  | 14.2  | 21.2   |

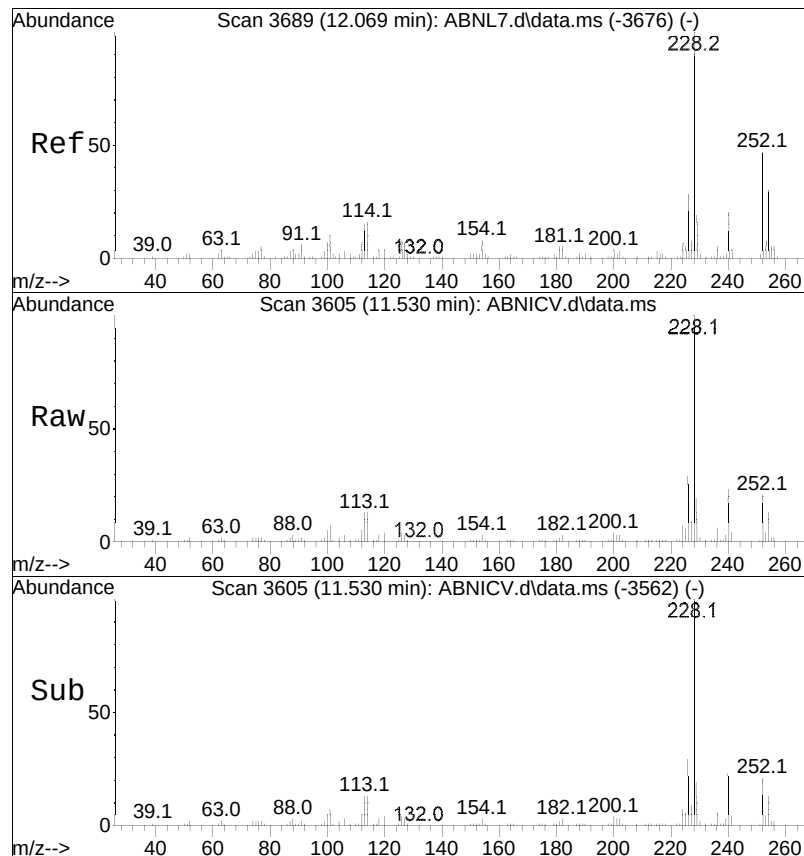




#97  
 Butyl benzyl phthalate  
 Concen: 51.34 ug/ml  
 RT: 10.942 min Scan# 3398  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

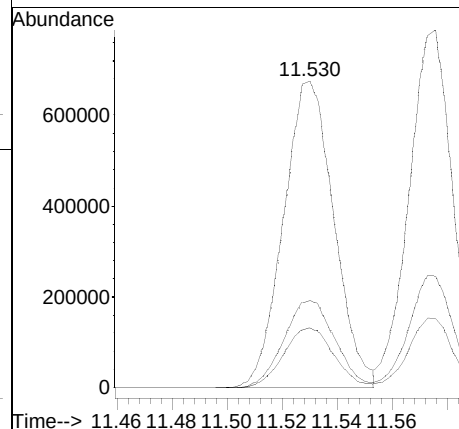
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 447628 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 67.2  | 61.2  | 91.8   |
| 206       | 17.6  | 12.5  | 18.7   |



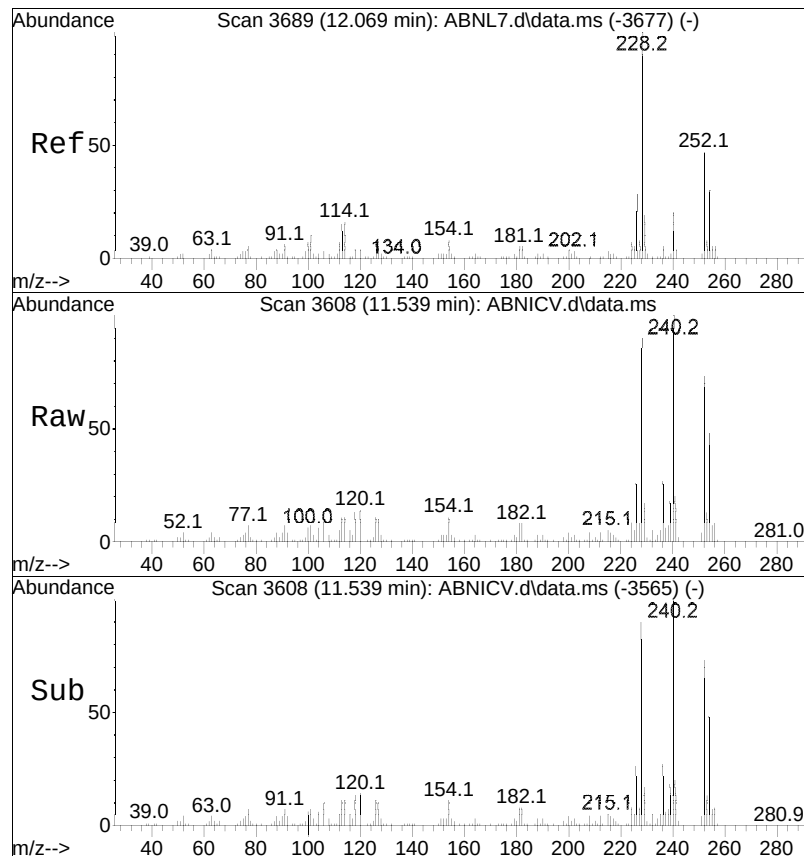


#105  
 Benzo(a)anthracene  
 Concen: 50.69 ug/ml  
 RT: 11.530 min Scan# 3605  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 22.2  | 33.2  |
| 229     | 19.6  | 15.6  | 23.4  |

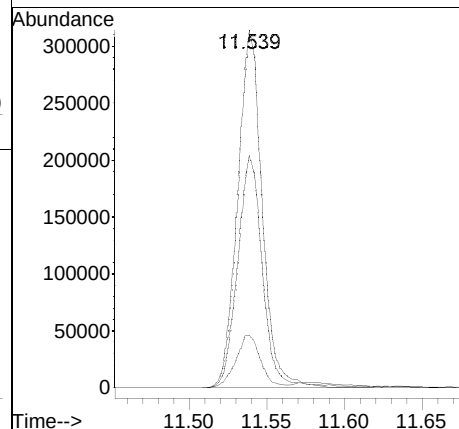


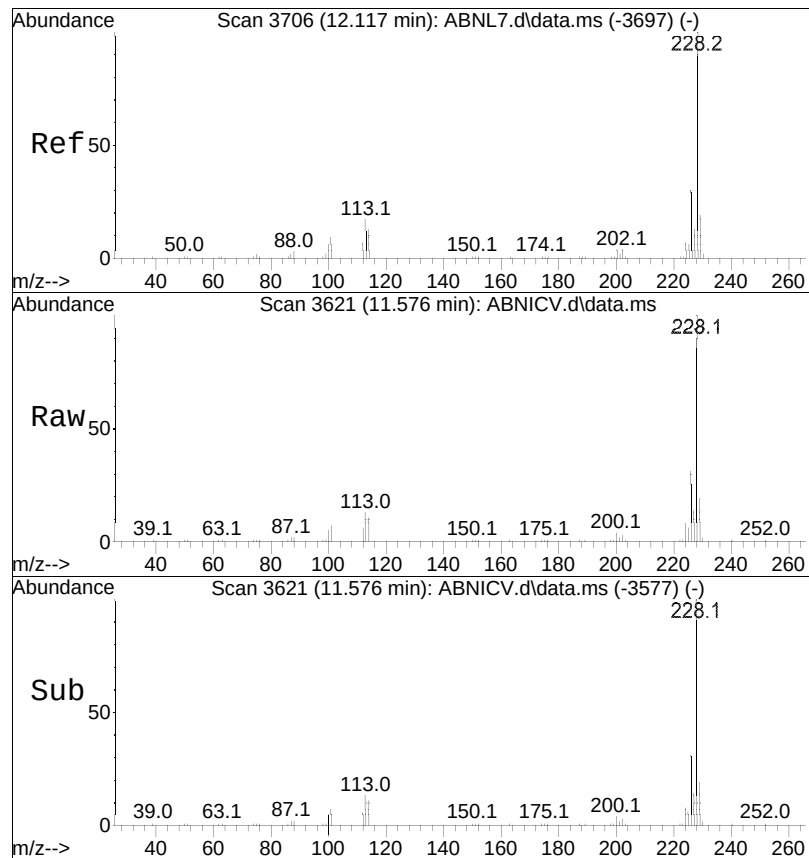




#106  
 3,3'-Dichlorobenzidine  
 Concen: 53.85 ug/ml  
 RT: 11.539 min Scan# 3608  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

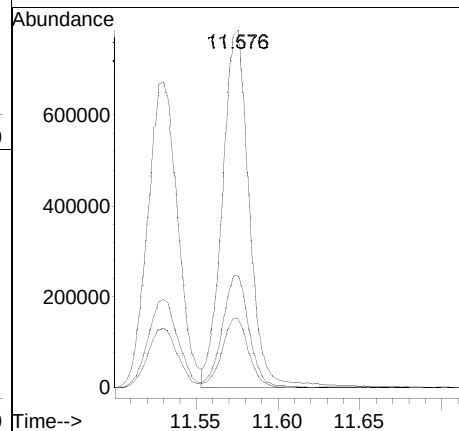
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 347015 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 126       | 15.0  | 13.8  | 20.6   |
| 254       | 64.9  | 53.0  | 79.6   |

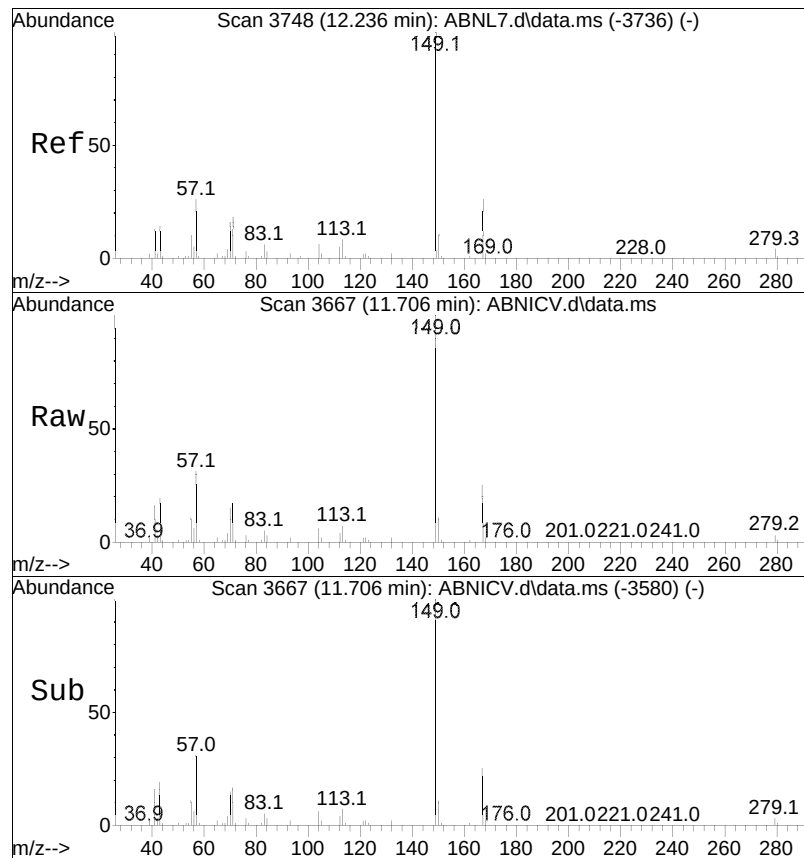




#107  
 Chrysene  
 Concen: 51.24 ug/ml  
 RT: 11.576 min Scan# 3621  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

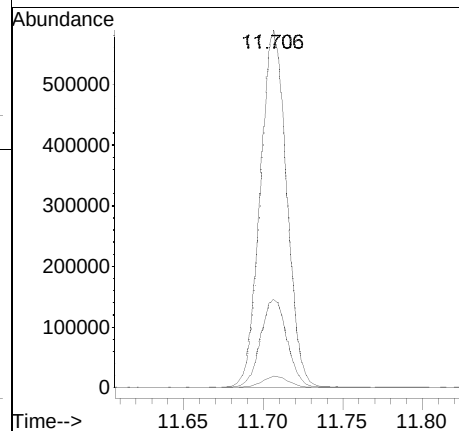
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 24.6  | 37.0  |
| 229     | 19.4  | 15.8  | 23.6  |

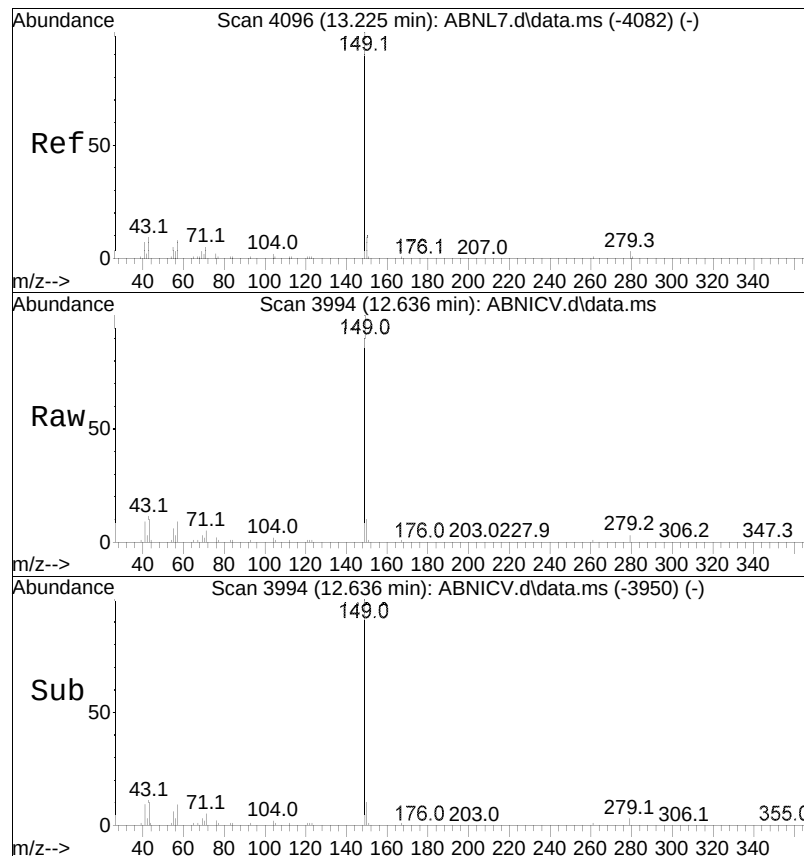




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 51.65 ug/ml  
 RT: 11.706 min Scan# 3667  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

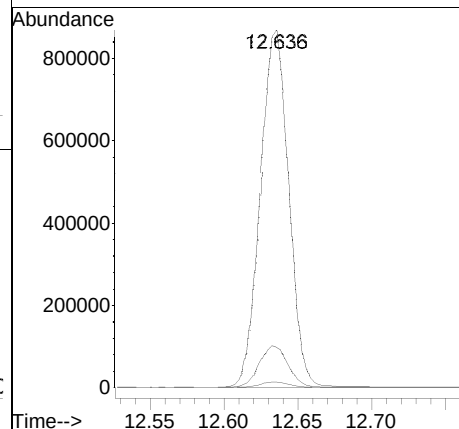
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 672188 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 25.0  | 19.4  | 29.0   |
| 279       | 2.9   | 2.3   | 3.5    |

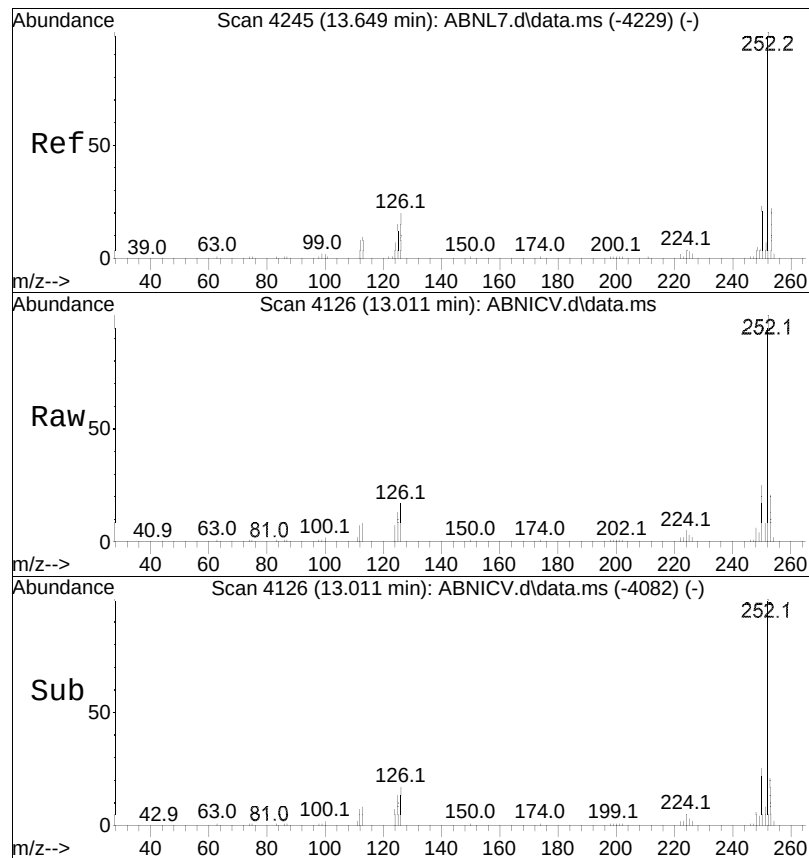




#109  
 Di-n-octylphthalate  
 Concen: 50.63 ug/ml  
 RT: 12.636 min Scan# 3994  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

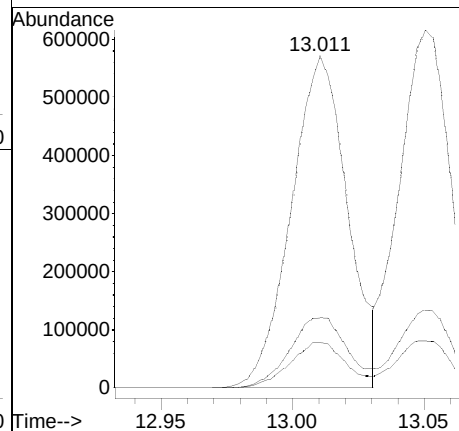
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 1145529 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 43        | 11.9  | 10.1  | 15.1    |
| 167       | 1.4   | 1.1   | 1.7     |

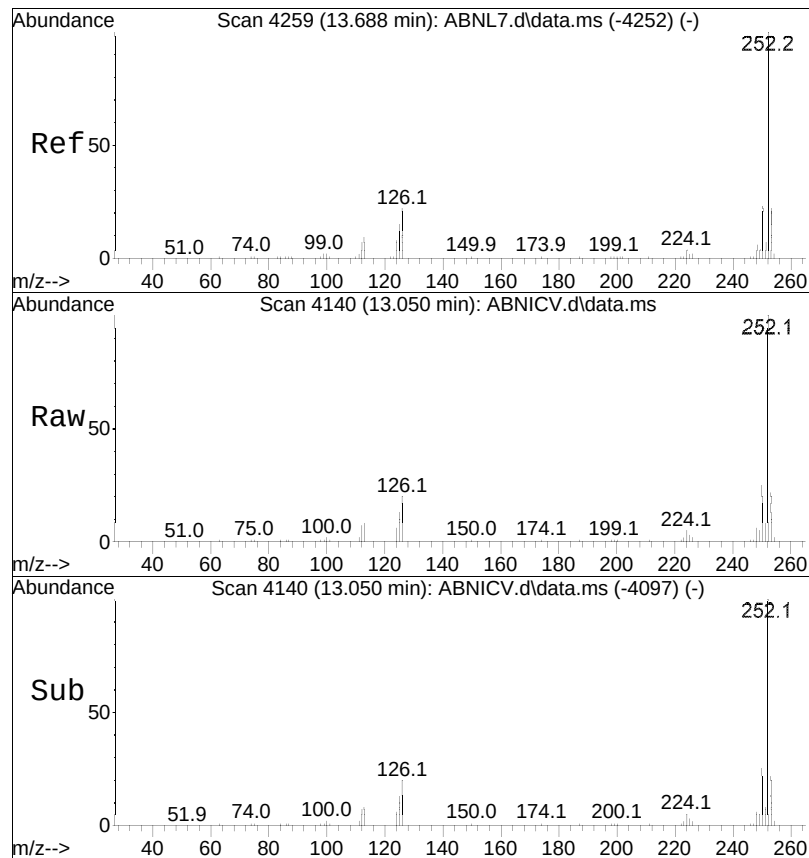




#110  
 Benzo(b)fluoranthene  
 Concen: 54.71 ug/ml  
 RT: 13.011 min Scan# 4126  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

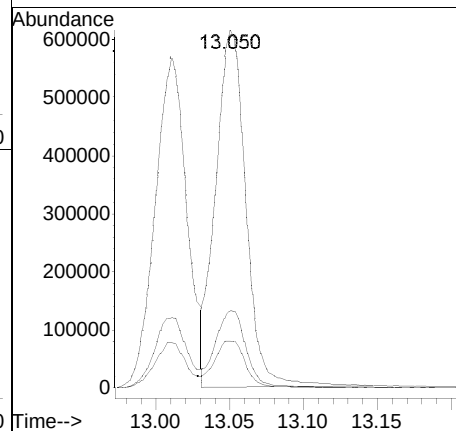
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 13.8  | 11.6  | 17.4  |
| 253     | 21.3  | 17.4  | 26.0  |

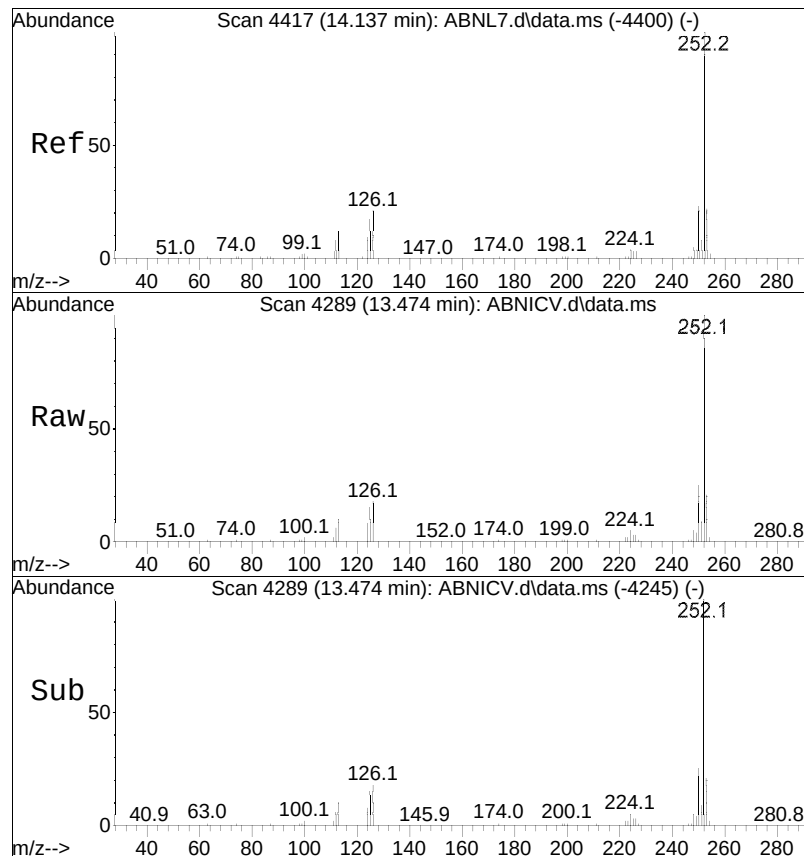




#111  
 Benzo(k)fluoranthene  
 Concen: 54.25 ug/ml  
 RT: 13.050 min Scan# 4140  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

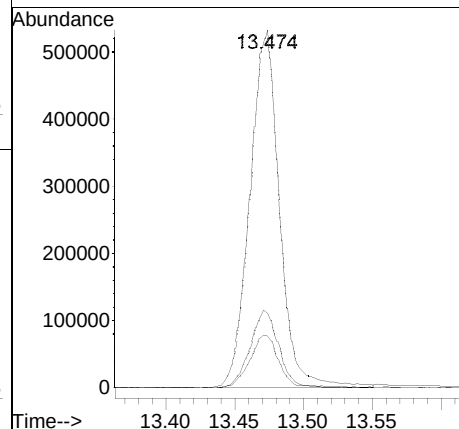
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 13.1  | 11.4  | 17.0  |
| 253     | 21.7  | 17.2  | 25.8  |

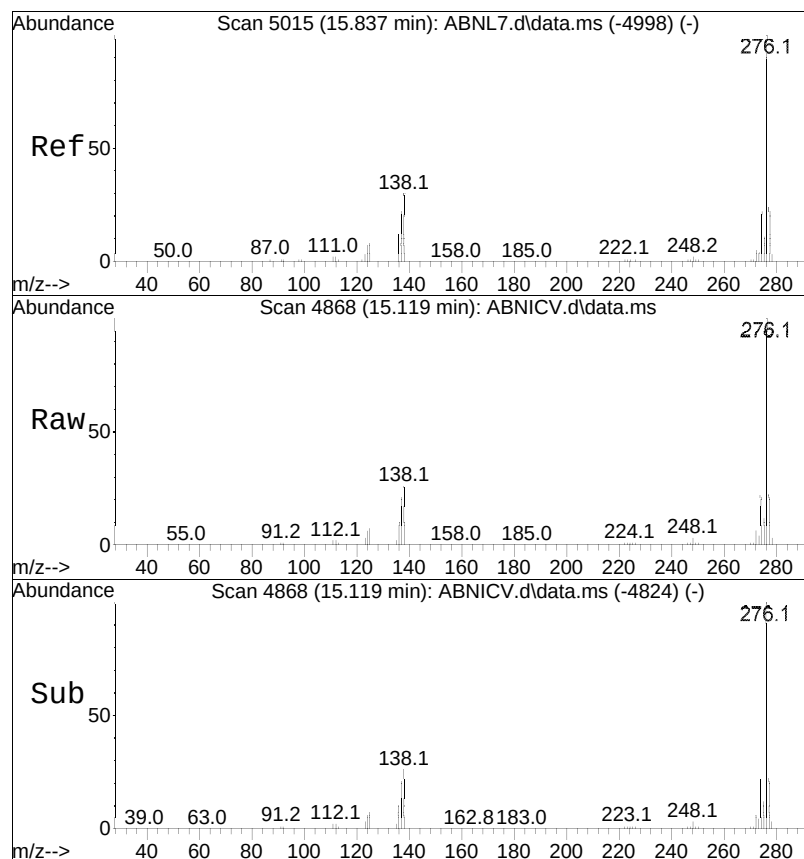




#112  
 Benzo(a)pyrene  
 Concen: 54.23 ug/ml  
 RT: 13.474 min Scan# 4289  
 Delta R.T. -0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

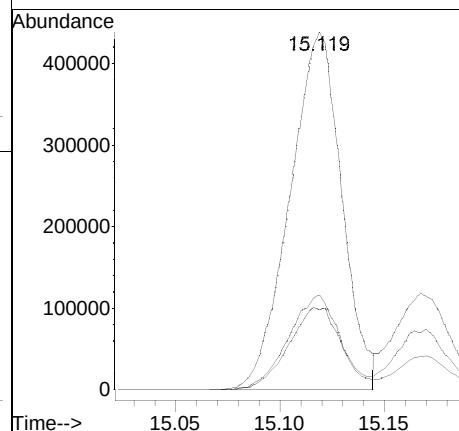
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 791384 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 125       | 14.6  | 12.6  | 18.8   |
| 253       | 21.4  | 16.9  | 25.3   |



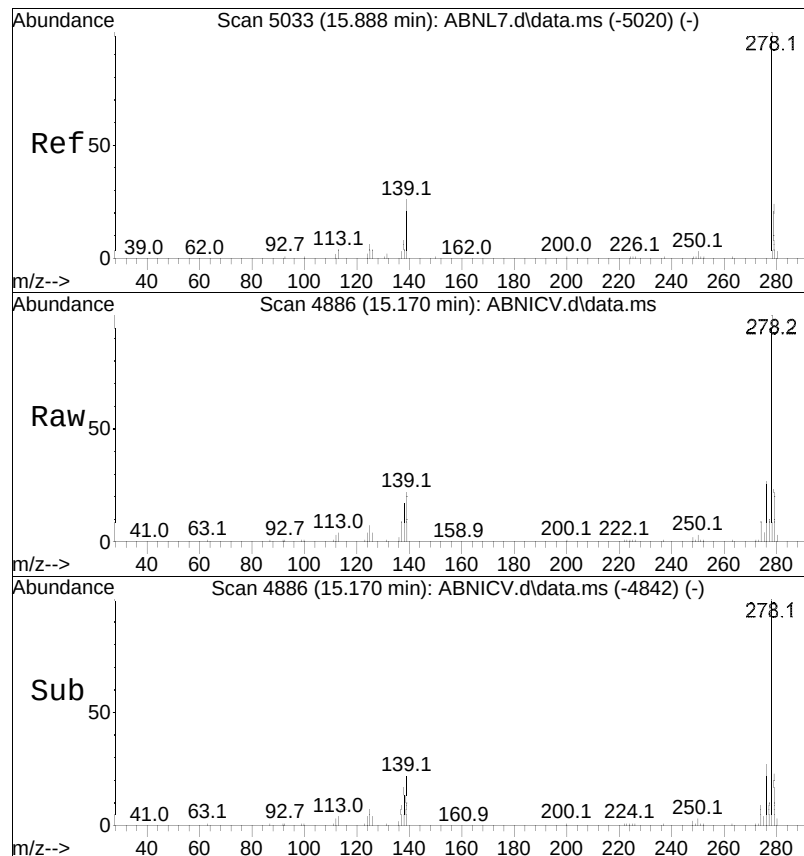


#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 49.47 ug/mL  
 RT: 15.119 min Scan# 4868  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 753237 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.5  | 21.4  | 32.0   |
| 277       | 23.8  | 19.2  | 28.8   |

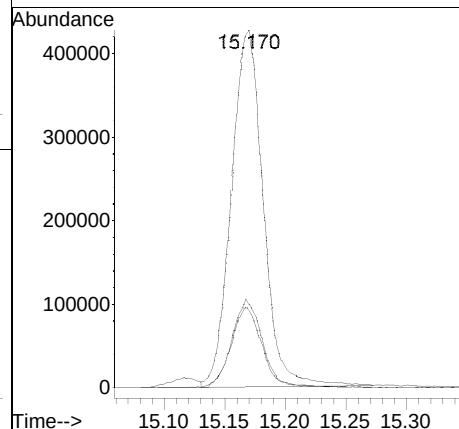


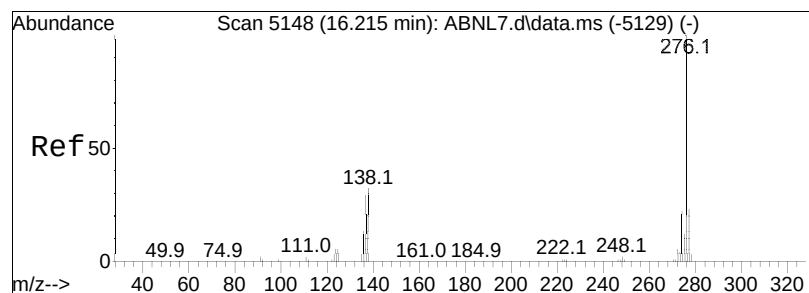




#115  
 Dibenzo(a,h)anthracene  
 Concen: 52.84 ug/ml  
 RT: 15.170 min Scan# 4886  
 Delta R.T. 0.000 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

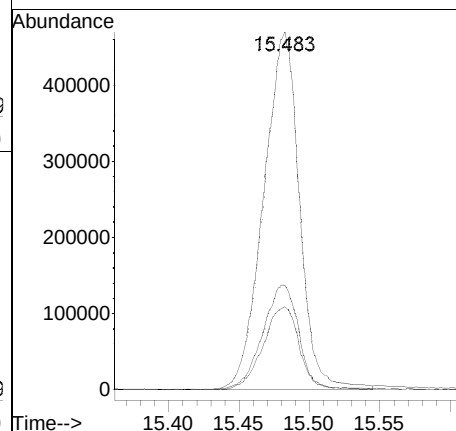
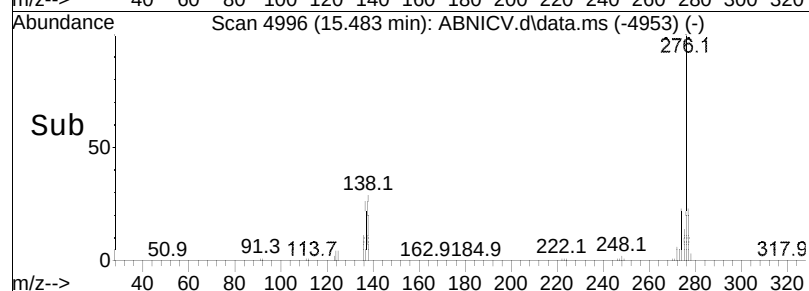
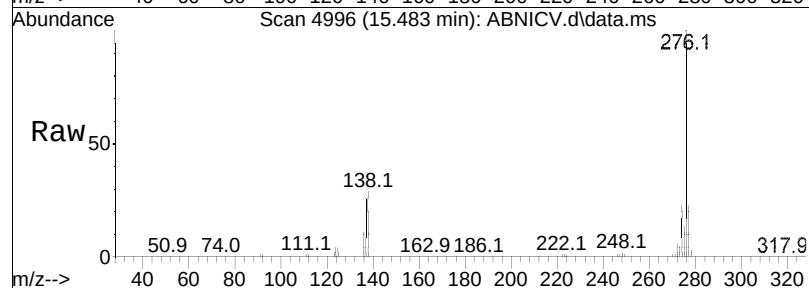
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 775148 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 21.9  | 17.1  | 25.7   |
| 279       | 24.0  | 19.3  | 28.9   |





#116  
 Benzo(ghi)perylene  
 Concen: 49.45 ug/ml  
 RT: 15.483 min Scan# 4996  
 Delta R.T. -0.003 min  
 Lab File: ABNICV.d  
 Acq: 1 Dec 2019 7:34 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.4  | 26.7  | 40.1  |
| 277     | 23.7  | 19.4  | 29.2  |



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ABNICV.d Operator : SV103:als  
Date Inj'd : 12/1/2019 7:34 pm Instrument : SV103  
Sample : CQICV1,32,,ABN ICV Lot#852 Quant Date : 12/3/2019 11:11 am

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9ICV.d  
 Acq On : 1 Dec 2019 7:58 pm  
 Operator : SV103:als  
 Sample : CQICV2,32,,AP9 ICV Lot#8516  
 Misc : WG1316163,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 03 11:22:41 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:22:32 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| ----- |                            |       |       |      |       |          |
| 27 I  | IS2_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 28 T  | Benzaldehyde               | 1.048 | 1.127 | -7.5 | 99    | 0.00     |
| 29 T  | Acetophenone               | 1.807 | 1.873 | -3.7 | 93    | 0.00     |
| 30 T  | m-Toluidine                | 1.911 | 1.986 | -3.9 | 96    | 0.00     |
| 31 T  | 2-Chloroaniline            | 1.744 | 1.797 | -3.0 | 96    | 0.00     |
|       |                            |       |       |      |       |          |
| 55 I  | IS2_Naphthalene-d8         | 1.000 | 1.000 | 0.0  | 95    | 0.00     |
| 56 T  | a-Terpineol                | 0.363 | 0.362 | 0.3  | 94    | 0.00     |
| 57 T  | 3-Chloroaniline            | 0.136 | 0.142 | -4.4 | 96    | 0.00     |
| 58 T  | 2,6-Dichlorophenol         | 0.297 | 0.306 | -3.0 | 96    | 0.00     |
| 59 T  | 1-chloro-2-nitrobenzene    | 0.141 | 0.146 | -3.5 | 98    | 0.00     |
| 60 T  | Caprolactam                | 0.215 | 0.218 | -1.4 | 95    | 0.00     |
| 61 T  | 1,2,4,5-Tetrachlorobenzene | 0.329 | 0.333 | -1.2 | 97    | 0.00     |
| 62 T  | Biphenyl                   | 0.851 | 0.865 | -1.6 | 95    | 0.00     |
|       |                            |       |       |      |       |          |
| 83 I  | IS2_Acenaphthene-d10       | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 84 T  | Dichloran                  | 0.184 | 0.187 | -1.6 | 96    | 0.00     |
| 85 T  | Pentachloronitrobenzene    | 0.168 | 0.171 | -1.8 | 95    | 0.00     |
|       |                            |       |       |      |       |          |
| 98 I  | IS2_Phenanthrene-d10       | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 99 T  | Diphenamid                 | 0.537 | 0.532 | 0.9  | 95    | 0.00     |
| ----- |                            |       |       |      |       |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9ICV.d  
 Acq On : 1 Dec 2019 7:58 pm  
 Operator : SV103:als  
 Sample : CQICV2,32,,AP9 ICV Lot#8516  
 Misc : WG1316163,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 03 11:22:41 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:22:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\AP9L7.d  
 Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.444 | 152  | 135212   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 141335      |       |      | Recovery | =      | 95.67% |          |
| 55) IS2_Naphthalene-d8        | 5.685 | 136  | 558348   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 585372      |       |      | Recovery | =      | 95.38% |          |
| 83) IS2_Acenaphthene-d10      | 7.384 | 164  | 327029   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 341329      |       |      | Recovery | =      | 95.81% |          |
| 98) IS2_Phenanthrene-d10      | 8.811 | 188  | 634338   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 657626      |       |      | Recovery | =      | 96.46% |          |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 4.006 | 105  | 190527   | 53.772 | ug/ml  | 90     |
| 29) Acetophenone              | 4.853 | 105  | 316609   | 51.831 | ug/ml  | 93     |
| 30) m-Toluidine               | 4.938 | 106  | 335656   | 51.960 | ug/ml  | 98     |
| 31) 2-Chloroaniline           | 5.296 | 127  | 303671   | 51.517 | ug/ml  | 96     |
| 56) a-Terpineol               | 5.748 | 59   | 252463   | 49.872 | ug/ml  | 92     |
| 57) 3-Chloroaniline           | 5.768 | 65   | 99006    | 52.131 | ug/ml  | 85     |
| 58) 2,6-Dichlorophenol        | 5.790 | 162  | 213898   | 51.578 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 6.043 | 111  | 101886   | 51.597 | ug/ml  | 98     |
| 60) Caprolactam               | 6.089 | 55   | 151889   | 50.573 | ug/ml# | 89     |
| 61) 1,2,4,5-Tetrachloroben... | 6.555 | 216  | 232713   | 50.667 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.847 | 154  | 603381   | 50.806 | ug/ml  | 99     |
| 84) Dichloran                 | 8.518 | 206  | 76259    | 50.649 | ug/ml  | 85     |
| 85) Pentachloronitrobenzene   | 8.663 | 237  | 69723    | 50.743 | ug/ml  | 89     |
| 99) Diphenamid                | 9.717 | 167  | 421570   | 49.549 | ug/ml  | 87     |

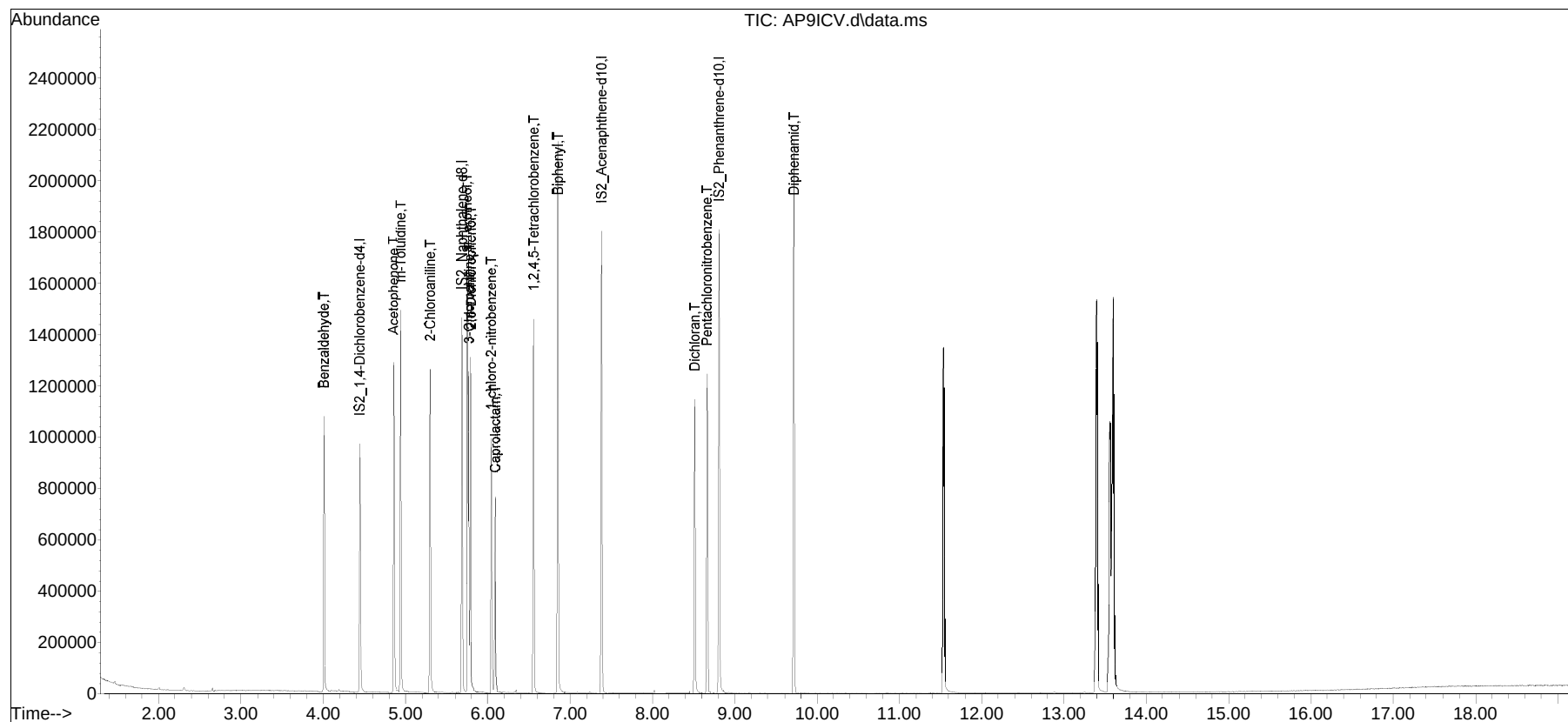
(#) = qualifier out of range (m) = manual integration (+) = signals summed

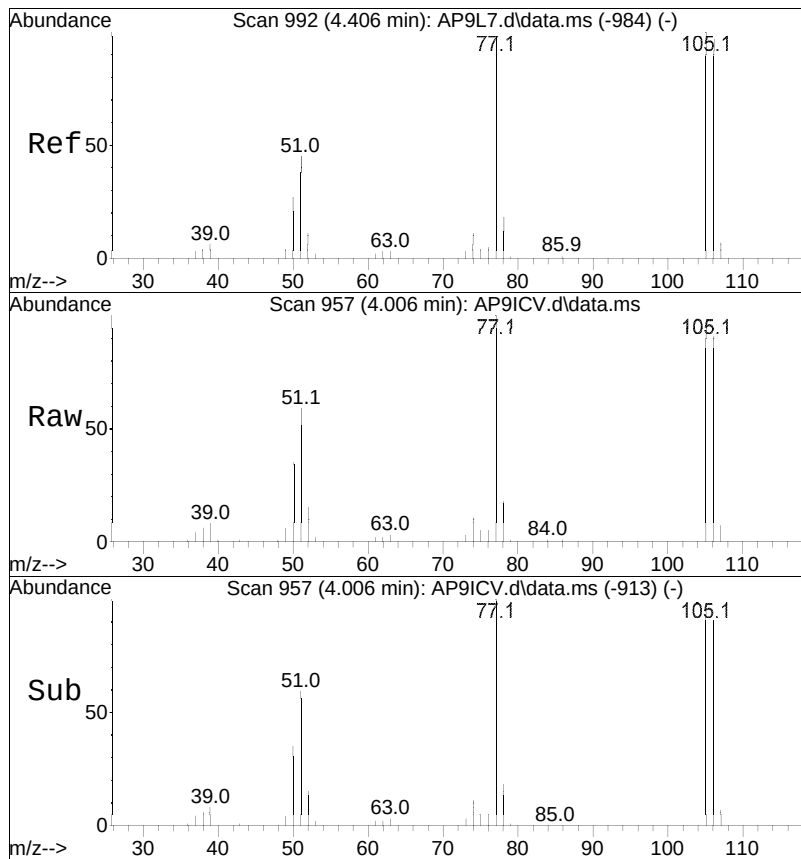
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : AP9ICV.d  
 Acq On : 1 Dec 2019 7:58 pm  
 Operator : SV103:als  
 Sample : CQICV2,32,,AP9 ICV Lot#8516  
 Misc : WG1316163,,  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 03 11:22:41 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:22:32 2019  
 Response via : Initial Calibration

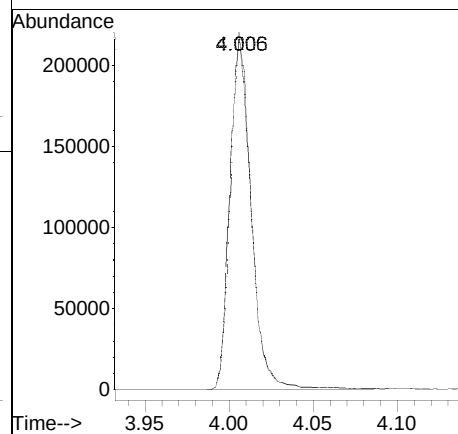
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•

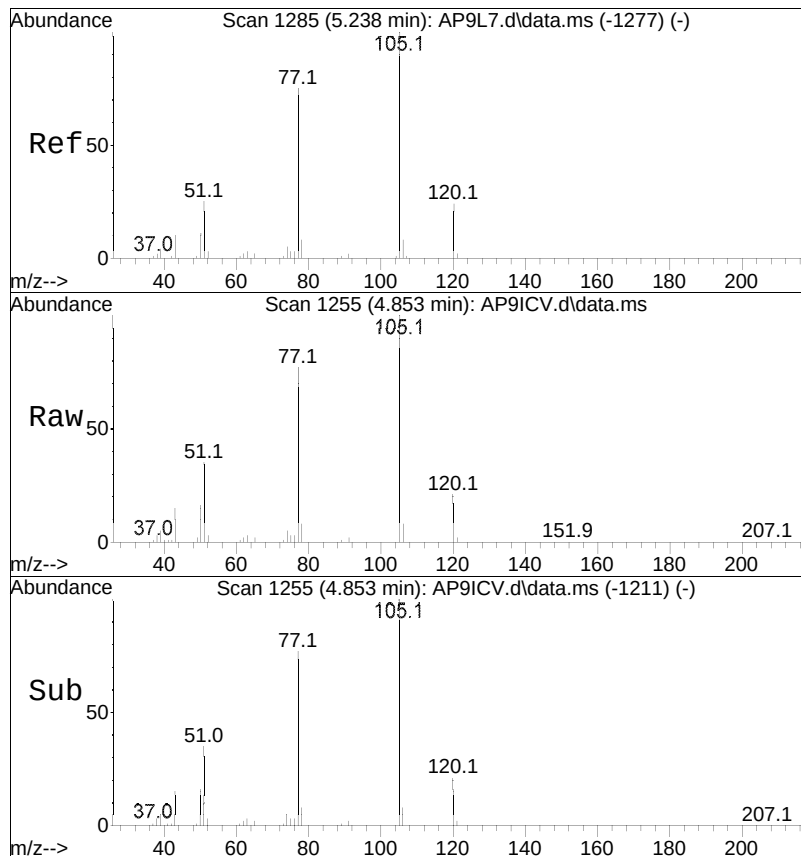




#28  
 Benzaldehyde  
 Concen: 53.77 ug/ml  
 RT: 4.006 min Scan# 957  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

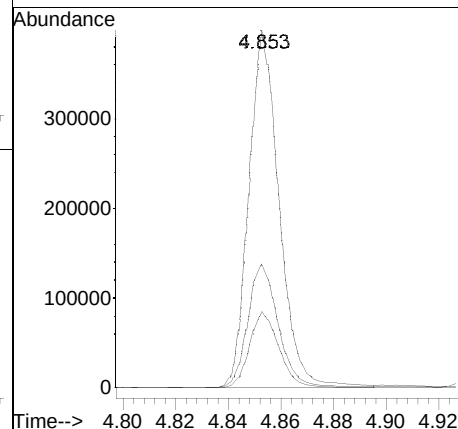
Tgt Ion:105 Resp: 190527  
 Ion Ratio Lower Upper  
 105 100  
 77 99.1 72.0 108.0



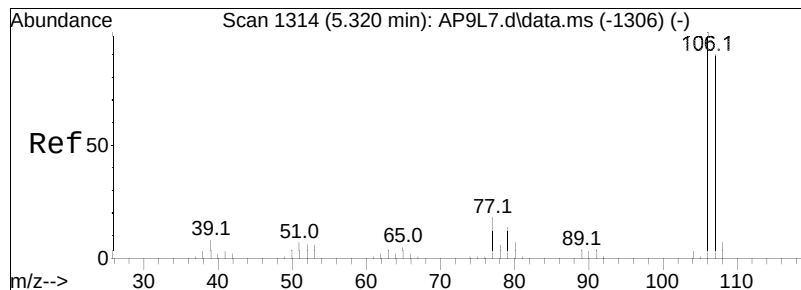


#29  
 Acetophenone  
 Concen: 51.83 ug/ml  
 RT: 4.853 min Scan# 1255  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 316609 |       |       |
| 120     | 21.1  |        | 18.0  | 27.0  |
| 51      | 34.7  |        | 23.8  | 35.6  |

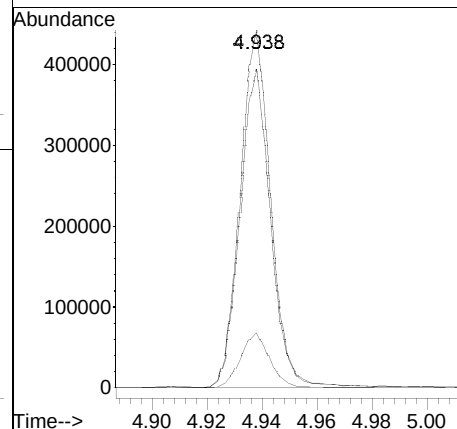
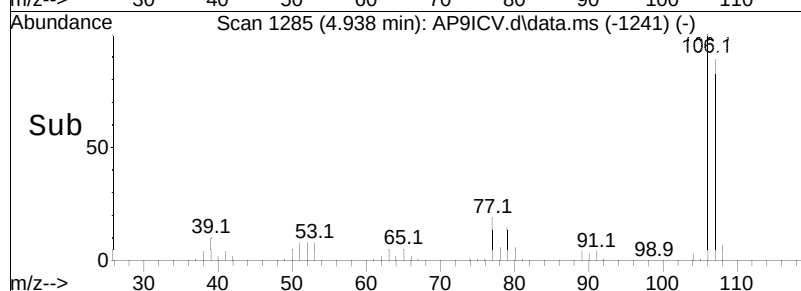
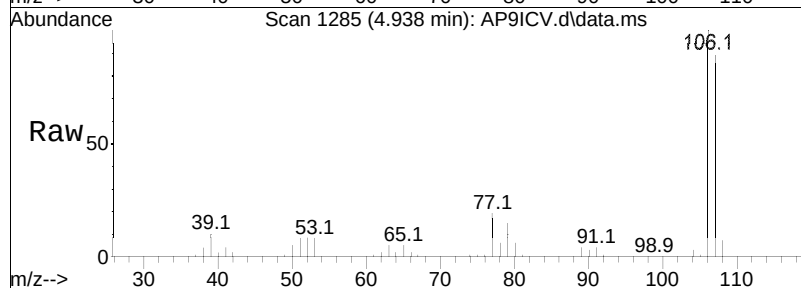


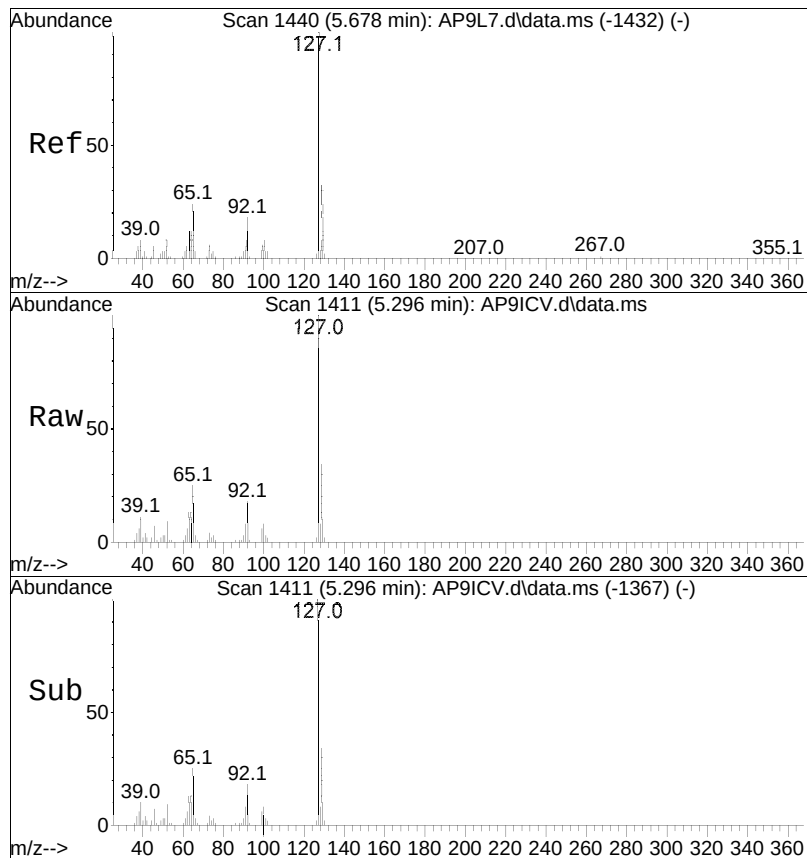




#30  
 m-Toluidine  
 Concen: 51.96 ug/ml  
 RT: 4.938 min Scan# 1285  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

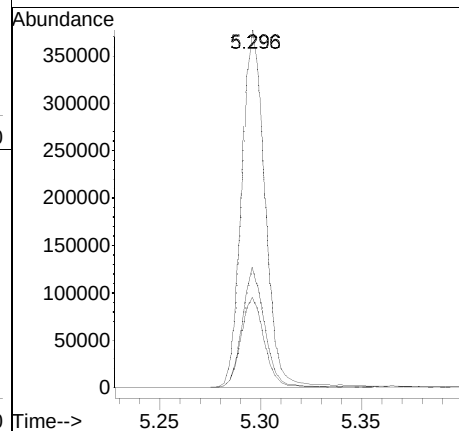
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 107     | 90.5  | 71.1  | 106.7 |
| 79      | 15.2  | 10.5  | 15.7  |

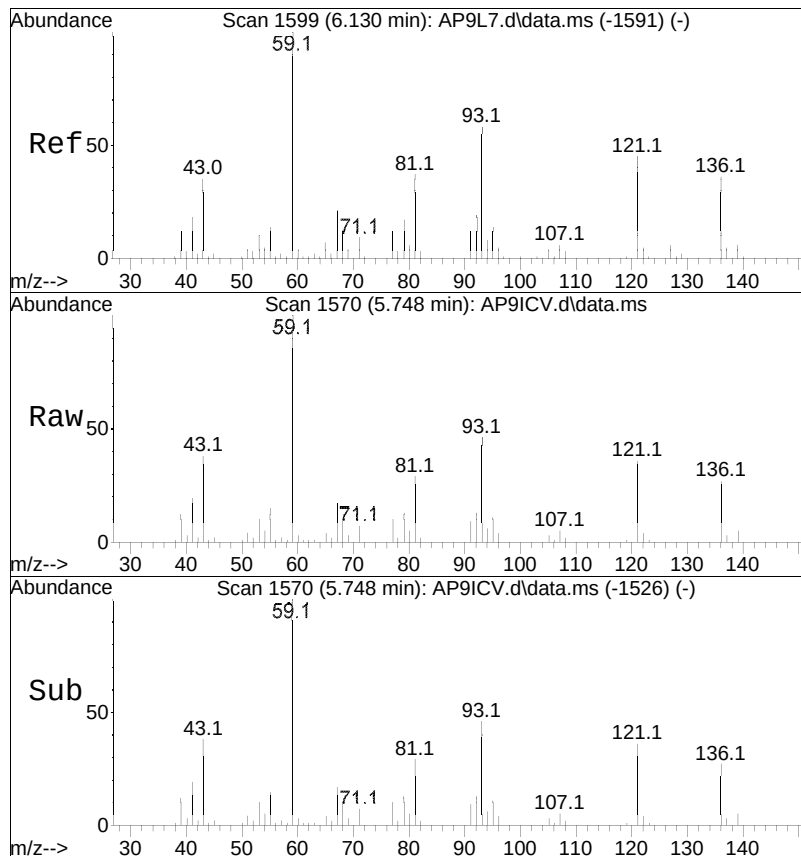




#31  
 2-Chloroaniline  
 Concen: 51.52 ug/ml  
 RT: 5.296 min Scan# 1411  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

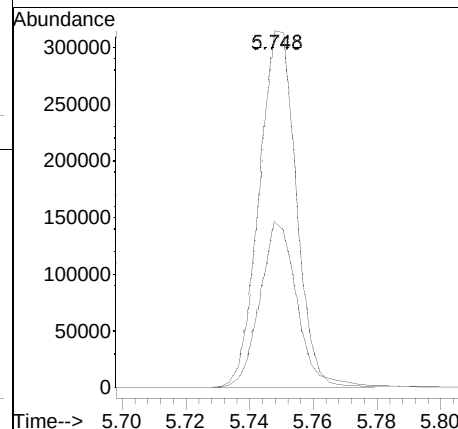
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 31.9  | 25.9  | 38.9  |
| 65      | 25.0  | 17.1  | 25.7  |

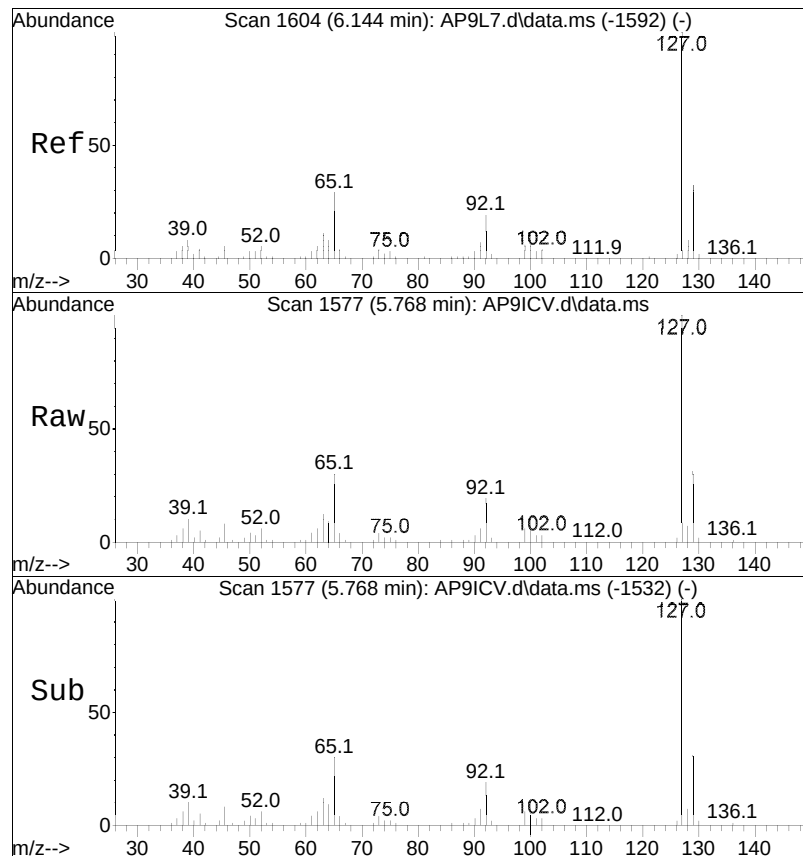




#56  
a-Terpineol  
Concen: 49.87 ug/ml  
RT: 5.748 min Scan# 1570  
Delta R.T. -0.000 min  
Lab File: AP9ICV.d  
Acq: 1 Dec 2019 7:58 pm

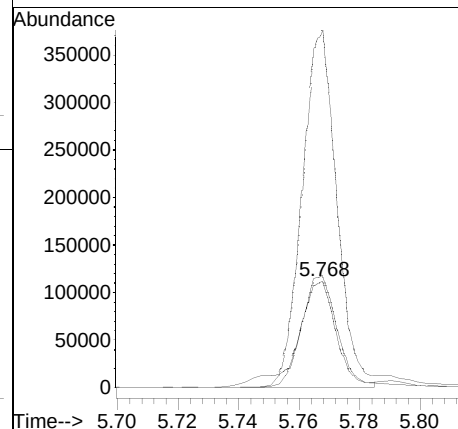
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 93      | 47.3  | 42.2  | 63.4  |

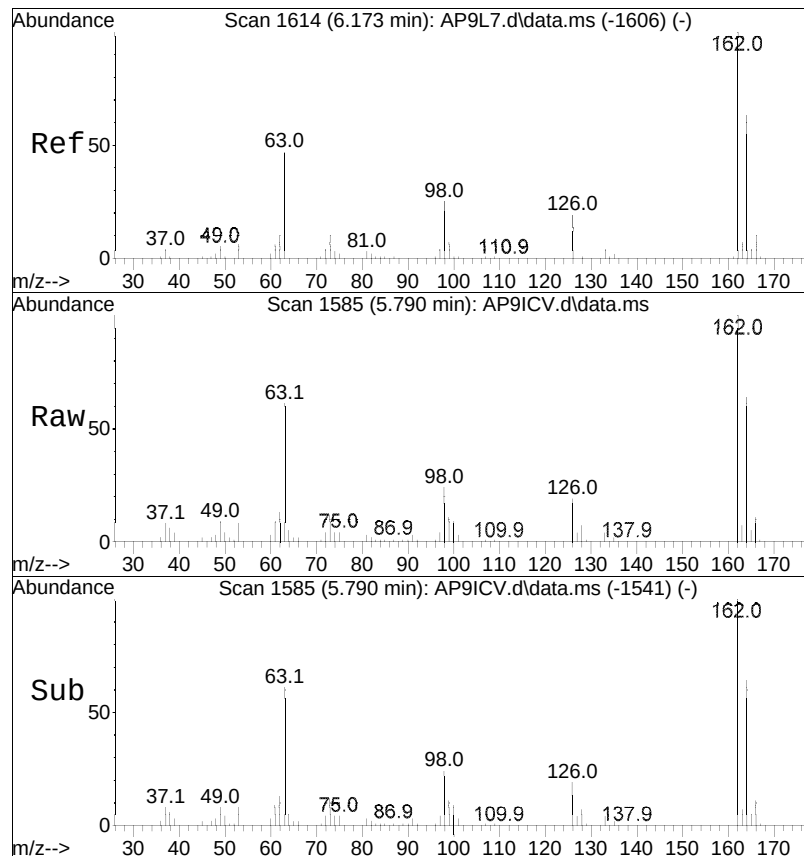




#57  
 3-Chloroaniline  
 Concen: 52.13 ug/ml  
 RT: 5.768 min Scan# 1577  
 Delta R.T. 0.003 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

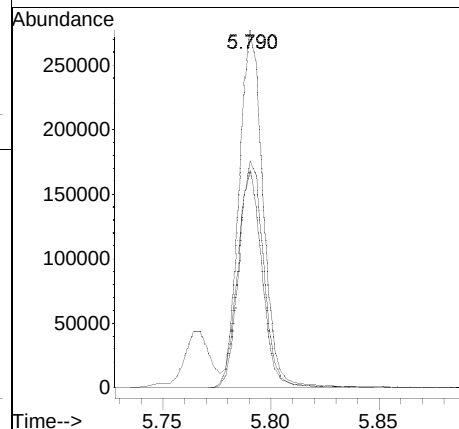
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 65  | 100   |       |       |       |
| 127 | 311.9 | 278.4 | 417.6 |       |
| 129 | 99.6  | 88.9  | 133.3 |       |

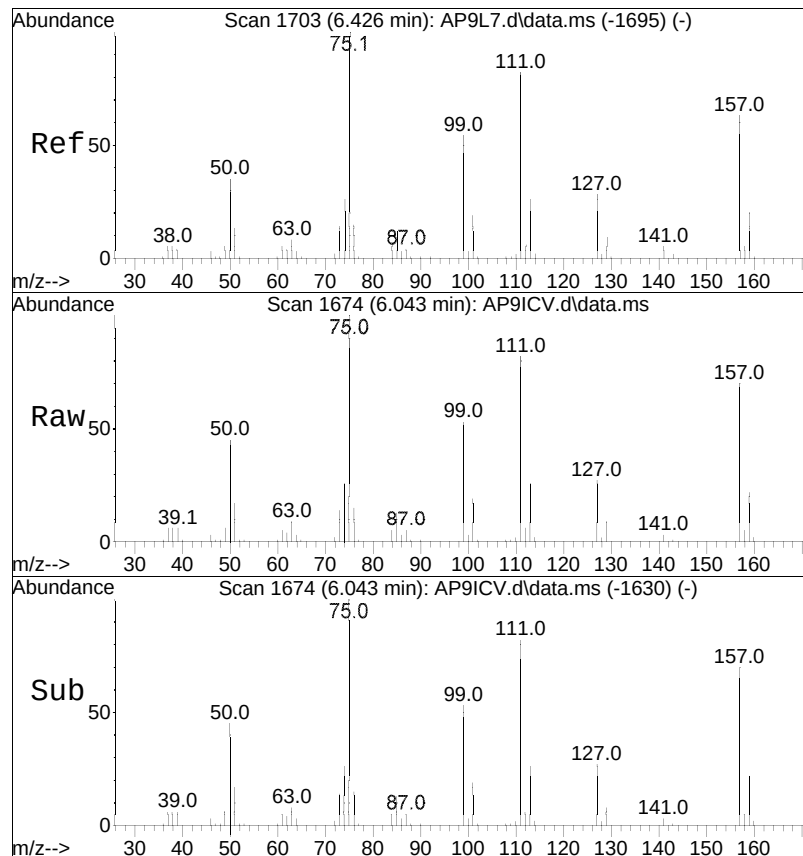




#58  
 2,6-Dichlorophenol  
 Concen: 51.58 ug/ml  
 RT: 5.790 min Scan# 1585  
 Delta R.T. -0.001 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

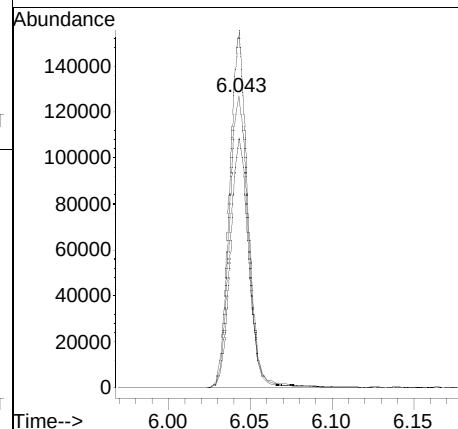
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 213898 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 64.4  | 50.8  | 76.2   |
| 63        | 60.5  | 47.4  | 71.0   |

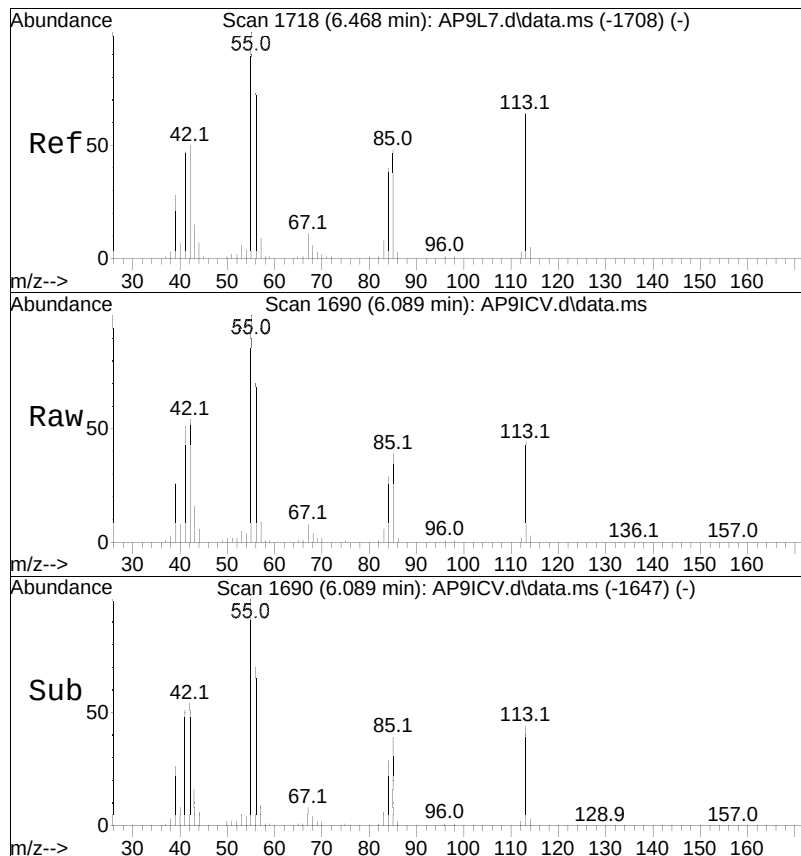




#59  
 1-chloro-2-nitrobenzene  
 Concen: 51.60 ug/ml  
 RT: 6.043 min Scan# 1674  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

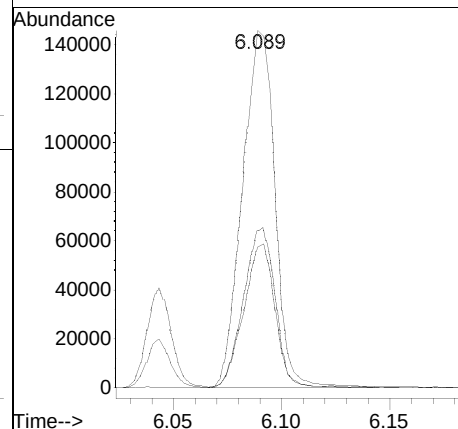
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 111   | Resp: | 101886 |
| Ion Ratio | Lower | Upper |        |
| 111       | 100   |       |        |
| 157       | 81.5  | 62.6  | 94.0   |
| 75        | 117.0 | 93.0  | 139.6  |

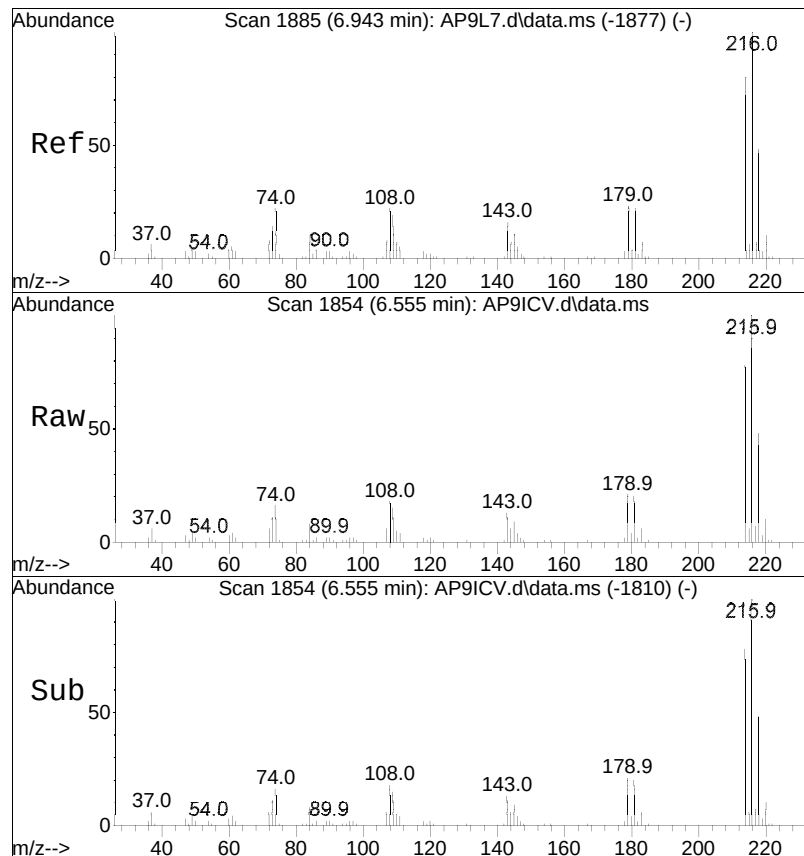




#60  
 Caprolactam  
 Concen: 50.57 ug/ml  
 RT: 6.089 min Scan# 1690  
 Delta R.T. -0.003 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

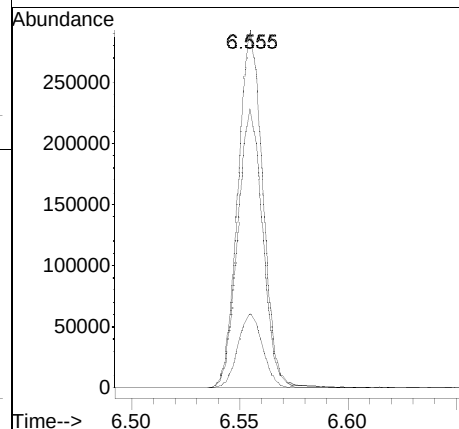
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 55    | Resp: | 151889 |
| Ion Ratio | Lower | Upper |        |
| 55        | 100   |       |        |
| 85        | 38.7  | 32.6  | 48.8   |
| 113       | 43.2  | 44.6  | 66.8#  |



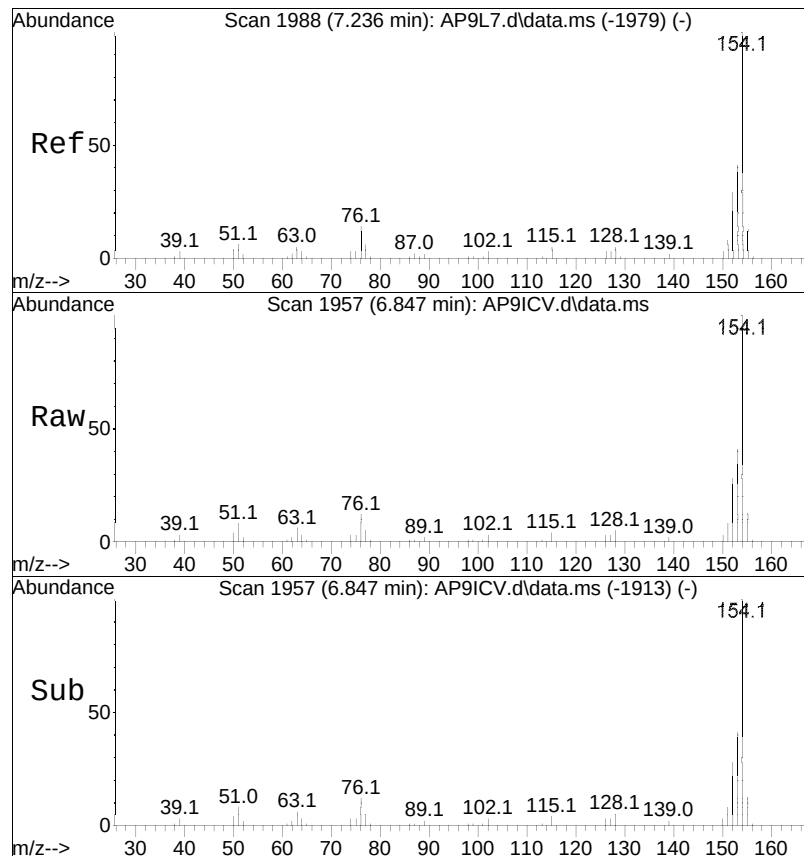


#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 50.67 ug/ml  
 RT: 6.555 min Scan# 1854  
 Delta R.T. -0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 232713 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 78.5  | 63.0  | 94.6   |
| 179       | 20.7  | 17.4  | 26.2   |

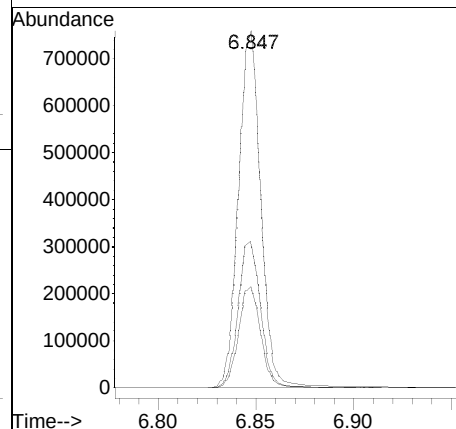


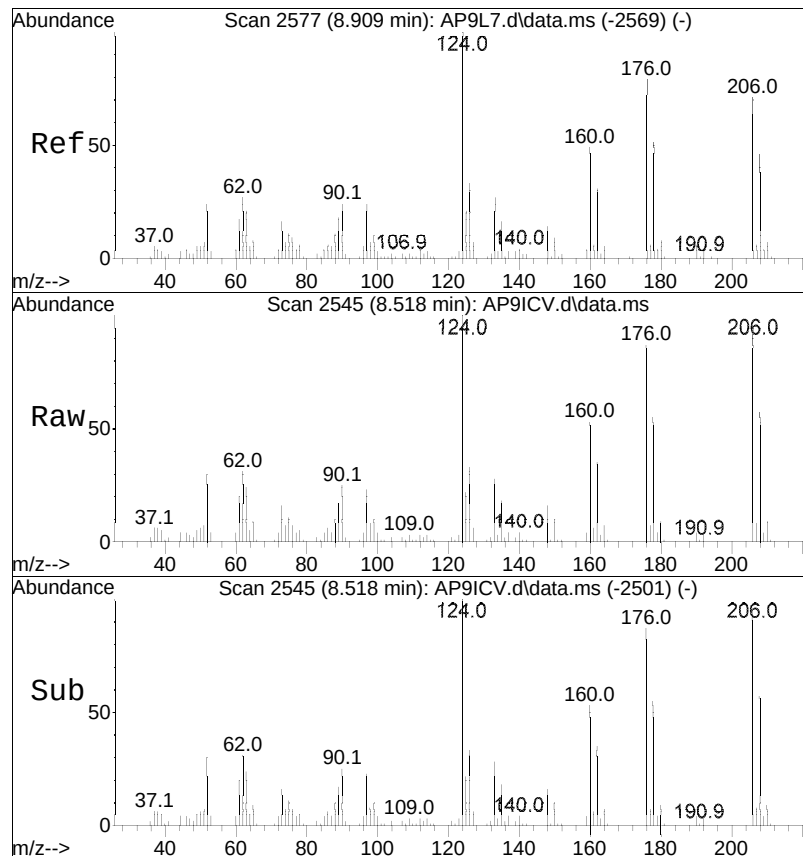




#62  
 Biphenyl  
 Concen: 50.81 ug/ml  
 RT: 6.847 min Scan# 1957  
 Delta R.T. -0.001 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

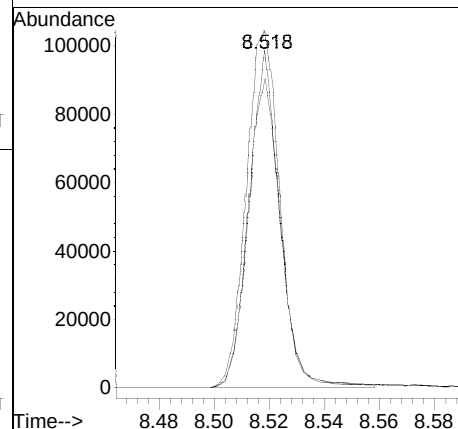
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.4  | 33.5  | 50.3  |
| 152     | 28.5  | 22.6  | 34.0  |

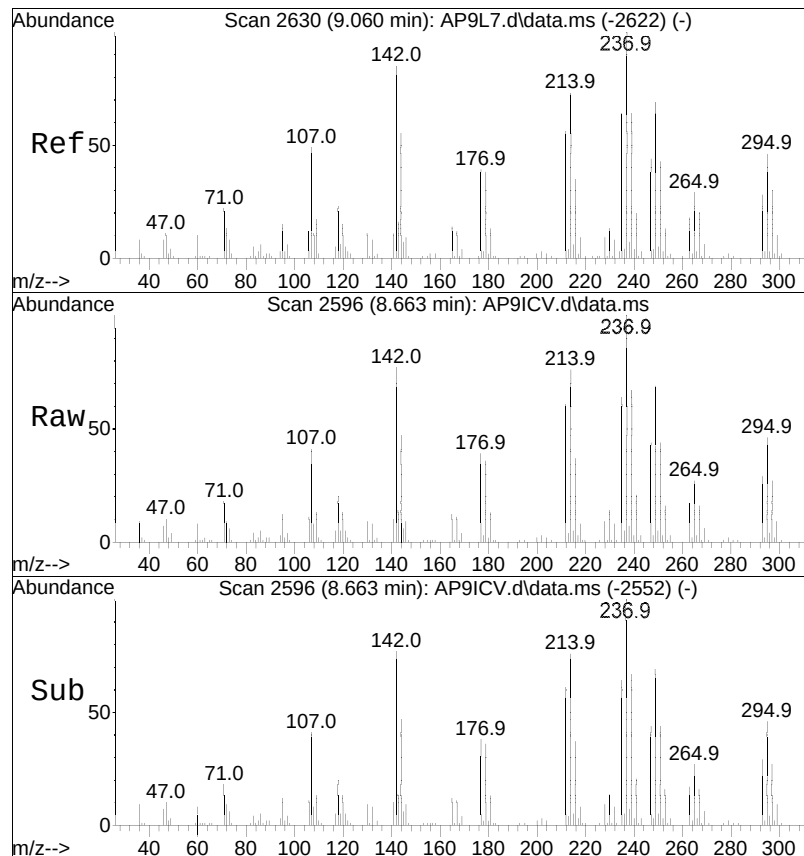




#84  
 Dichloran  
 Concen: 50.65 ug/ml  
 RT: 8.518 min Scan# 2545  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

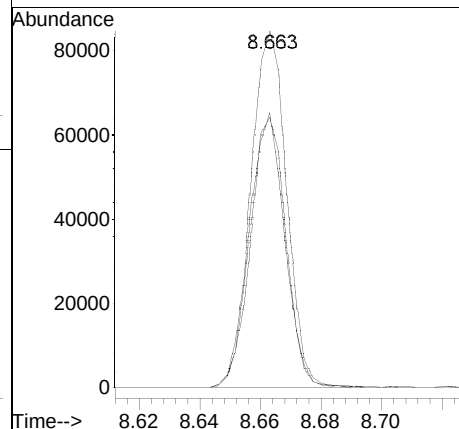
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 206   | Resp: | 76259 |
| Ion Ratio | Lower | Upper |       |
| 206       | 100   |       |       |
| 176       | 97.1  | 72.3  | 108.5 |
| 124       | 117.7 | 114.0 | 171.0 |

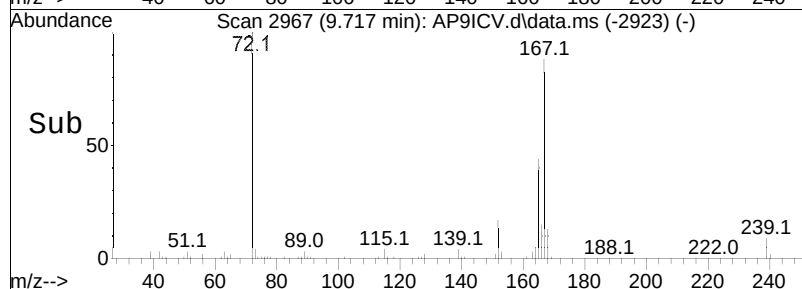
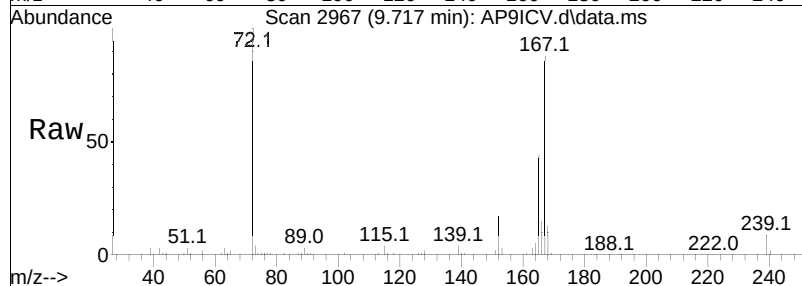
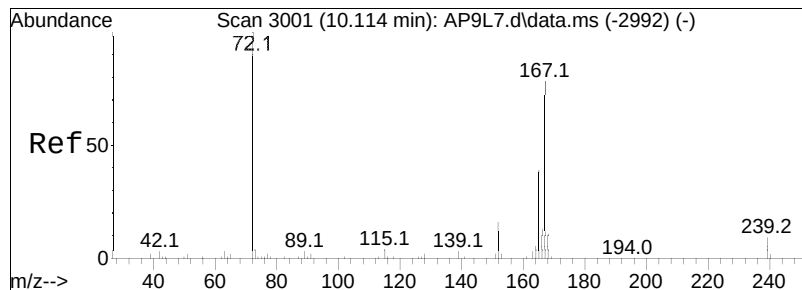




#85  
 Pentachloronitrobenzene  
 Concen: 50.74 ug/ml  
 RT: 8.663 min Scan# 2596  
 Delta R.T. 0.000 min  
 Lab File: AP9ICV.d  
 Acq: 1 Dec 2019 7:58 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 237     | 100   |       |       |
| 142     | 75.4  | 75.2  | 112.8 |
| 214     | 74.9  | 60.5  | 90.7  |





#99

Diphenamid

Concen: 49.55 ug/ml

RT: 9.717 min Scan# 2967

Delta R.T. 0.000 min

Lab File: AP9ICV.d

Acq: 1 Dec 2019 7:58 pm

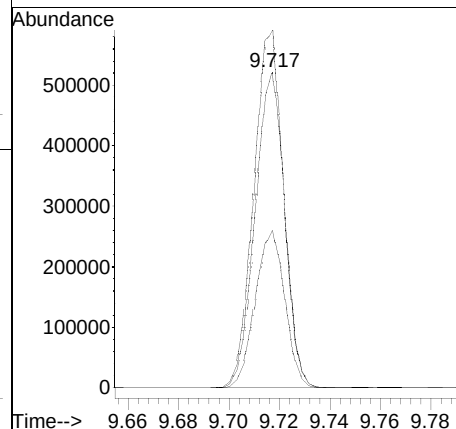
Tgt Ion:167 Resp: 421570

Ion Ratio Lower Upper

167 100

72 113.5 105.4 158.2

165 50.0 36.2 54.4



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : AP9ICV.d Operator : SV103:als  
Date Inj'd : 12/1/2019 7:58 pm Instrument : SV103  
Sample : CQICV2,32,,AP9 ICV Lot#851Quant Date : 12/3/2019 11:22 am

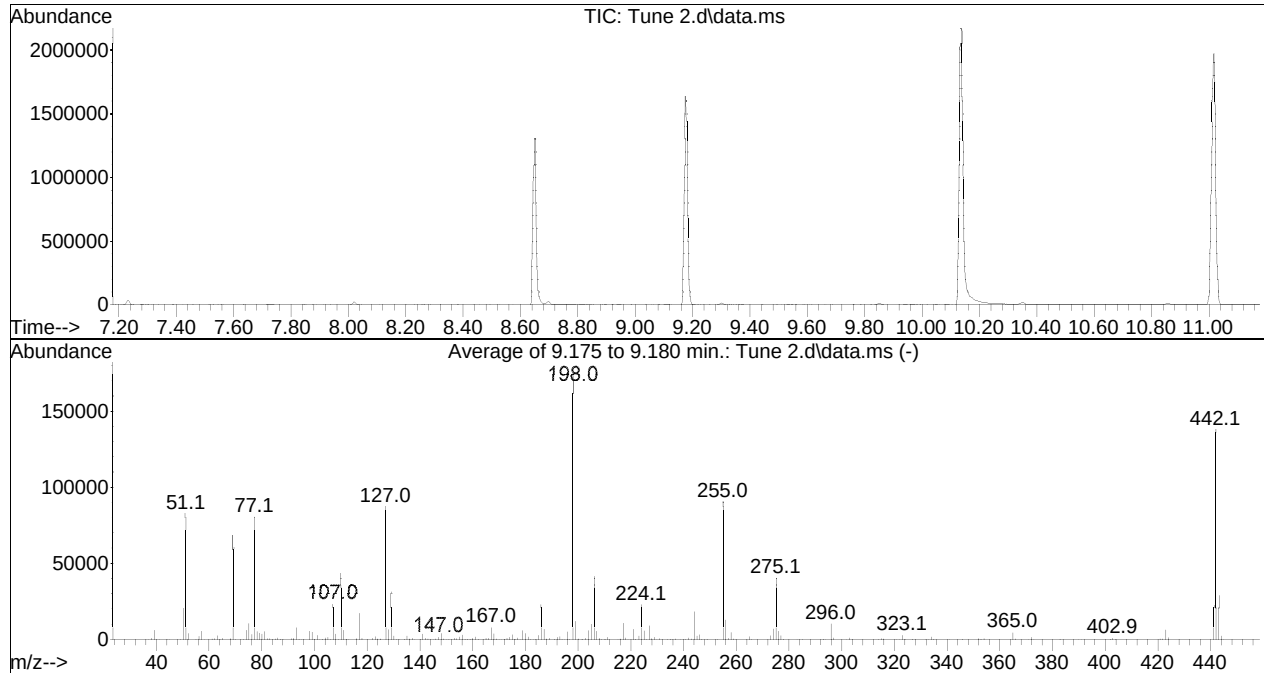
There are no manual integrations or false positives in this file.

# DFTPP

Data Path : I:\8270\SV103\191201ical\  
 Data File : Tune 2.d  
 Acq On : 1 Dec 2019 8:22 pm  
 Operator : SV103:als  
 Sample : Tune2  
 Misc : WG1316163,,  
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Mon Dec 02 16:52:12 2019

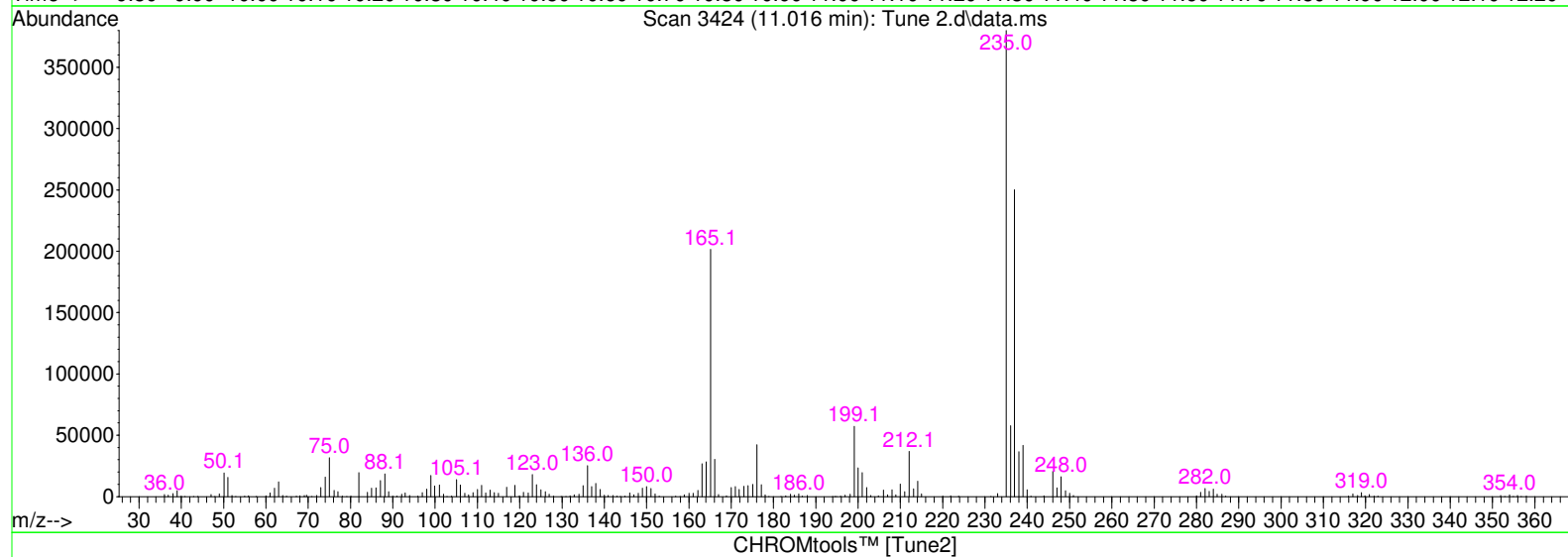
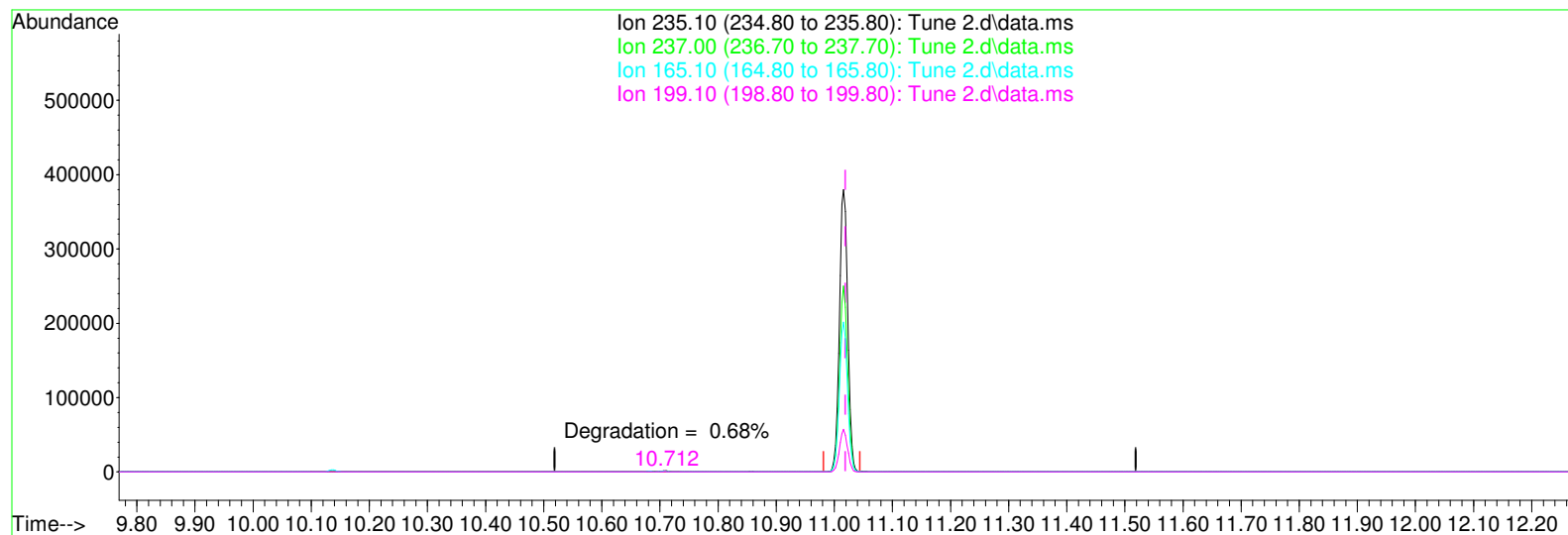


Spectrum Information: Average of 9.175 to 9.180 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 47.7      | 82651   | PASS             |
| 68          | 69           | 0.00         | 2            | 1.5       | 1060    | PASS             |
| 70          | 69           | 0.00         | 2            | 0.6       | 385     | PASS             |
| 127         | 198          | 10           | 80           | 50.3      | 87200   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.3       | 513     | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 173440  | PASS             |
| 199         | 198          | 5            | 9            | 6.8       | 11792   | PASS             |
| 275         | 198          | 10           | 60           | 23.4      | 40600   | PASS             |
| 365         | 198          | 1            | 100          | 2.7       | 4621    | PASS             |
| 441         | 442          | 0.01         | 24           | 16.3      | 22496   | PASS             |
| 442         | 198          | 50           | 100          | 79.5      | 137837  | PASS             |
| 443         | 442          | 15           | 24           | 20.7      | 28507   | PASS             |

Data Path : I:\8270\SV103\191201ical\  
Data File : Tune 2.d  
Acq On : 1 Dec 2019 8:22 pm  
Operator : SV103:  
Sample : Tune2  
Misc :  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 02 13:39:44 2019  
Quant Method : I:\8270\SV103\191201ical\dftppsV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(6) ddt (T)

11.016min (-0.003) 0.00

response 378343

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |

|        |       |       |
|--------|-------|-------|
| 237.00 | 64.20 | 64.51 |
|--------|-------|-------|

|        |       |       |
|--------|-------|-------|
| 165.10 | 50.50 | 52.24 |
|--------|-------|-------|

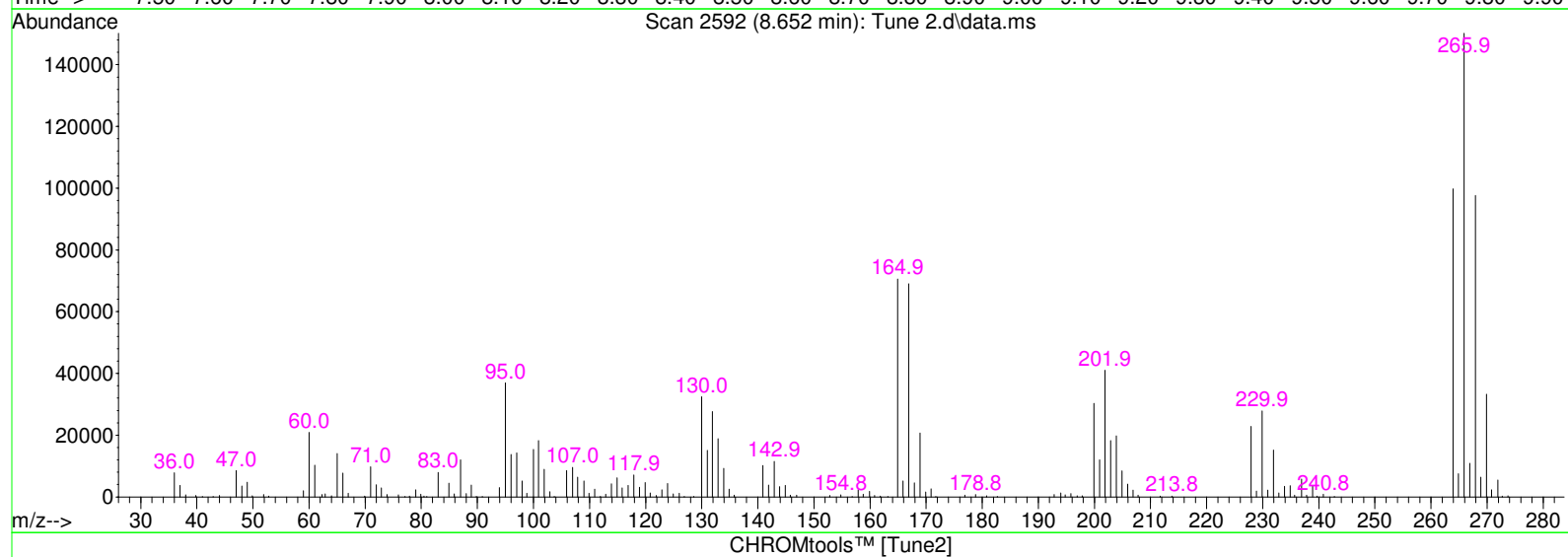
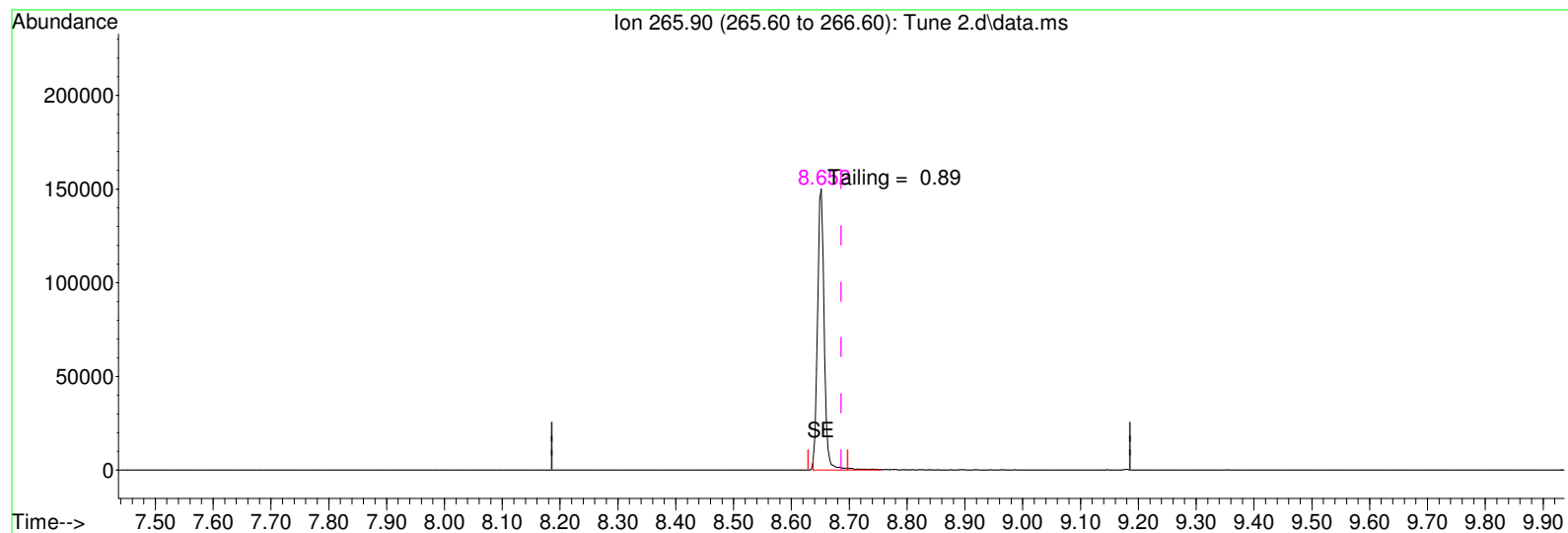
|        |       |       |
|--------|-------|-------|
| 199.10 | 15.20 | 14.65 |
|--------|-------|-------|

Duplicate Retention Times

(5) DDD 235.00

Data Path : I:\8270\SV103\191201ical\  
Data File : Tune 2.d  
Acq On : 1 Dec 2019 8:22 pm  
Operator : SV103:  
Sample : Tune2  
Misc :  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 02 13:39:44 2019  
Quant Method : I:\8270\SV103\191201ical\dftppSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(1) pentachlorophenol (T)

8.652min (-0.034) 0.00

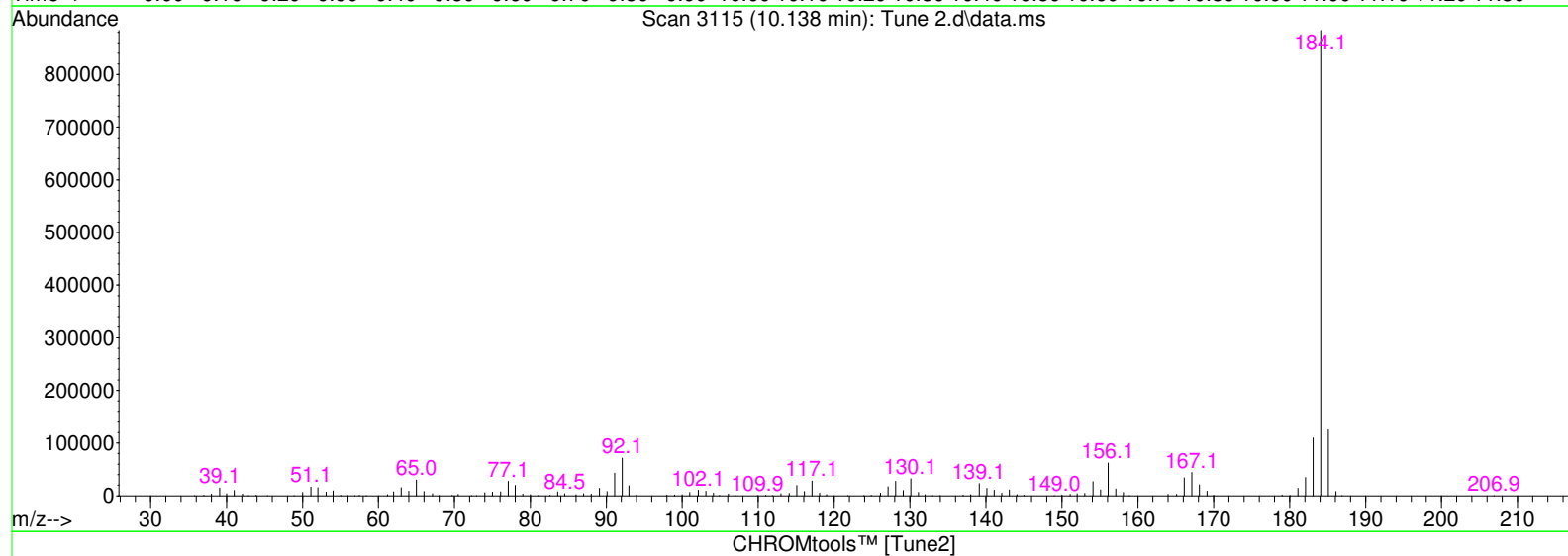
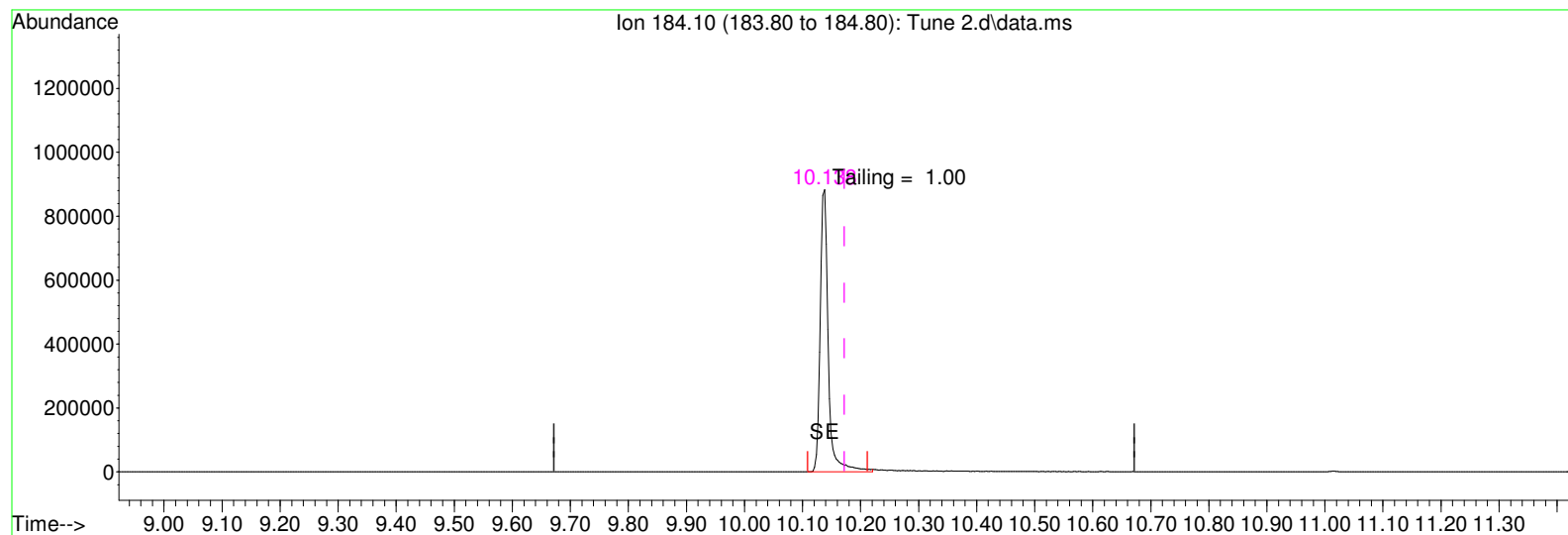
response 119792

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |



Data Path : I:\8270\SV103\191201ical\  
Data File : Tune 2.d  
Acq On : 1 Dec 2019 8:22 pm  
Operator : SV103:  
Sample : Tune2  
Misc :  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 02 13:39:44 2019  
Quant Method : I:\8270\SV103\191201ical\dftppSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(3) benzidine (T)

10.138min (-0.034) 0.00

response 853896

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL10.d  
 Acq On : 1 Dec 2019 8:47 pm  
 Operator : SV103:als  
 Sample : IL21,32,,ADPL200 Lot#8495  
 Misc : WG1316163,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 02 16:25:55 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 134260   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 101.67% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 306436   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 95.10%  |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 594669   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 93.28%  |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|--------|------|----------|---------|--------|--------|
| 33) 1,4-Dioxane             | 1.514  | 88   | 343845   | 194.396 | ug/ml# | 64     |
| 34) n-Decane                | 4.339  | 57   | 1217908  | 195.040 | ug/ml  | 97     |
| 87) Atrazine                | 8.606  | 200  | 602949   | 207.065 | ug/ml  | 96     |
| 101) n-Octadecane           | 8.802  | 57   | 1753136  | 197.816 | ug/ml  | 97     |
| 102) Parathion              | 9.604  | 109  | 478371   | 232.021 | ug/ml# | 96     |
| 103) 3,3'-Dimethylbenzidine | 10.905 | 212  | 2476035  | 225.607 | ug/ml  | 99     |

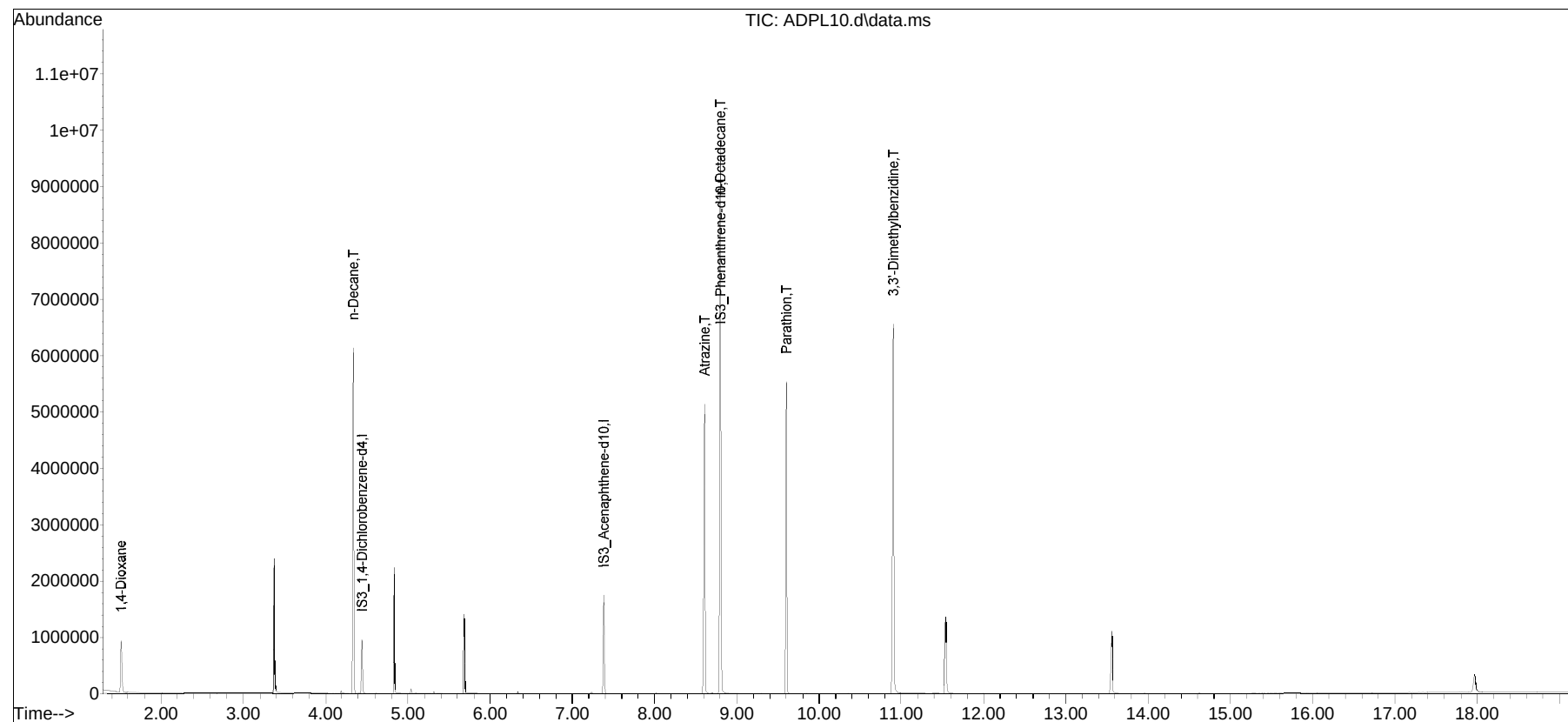
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL10.d  
 Acq On : 1 Dec 2019 8:47 pm  
 Operator : SV103:als  
 Sample : IL21,32,,ADPL200 Lot#8495  
 Misc : WG1316163,,  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 02 16:25:55 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL10.d Operator : SV103:als  
Date Inj'd : 12/1/2019 8:47 pm Instrument : SV103  
Sample : IL21,32,,ADPL200 Lot#8495 Quant Date : 12/2/2019 2:09 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL9.d  
 Acq On : 1 Dec 2019 9:11 pm  
 Operator : SV103:als  
 Sample : IL22,32,,ADPL150 Lot#8504  
 Misc : WG1316163,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 02 16:32:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 139288   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 105.47% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 317726   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 98.60%  |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 621644   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 97.51%  |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|--------|------|----------|---------|--------|--------|
| 33) 1,4-Dioxane             | 1.517  | 88   | 271137   | 147.756 | ug/ml# | 63     |
| 34) n-Decane                | 4.339  | 57   | 962135   | 148.518 | ug/ml  | 97     |
| 87) Atrazine                | 8.604  | 200  | 465173   | 154.073 | ug/ml  | 97     |
| 101) n-Octadecane           | 8.802  | 57   | 1343545  | 145.021 | ug/ml  | 97     |
| 102) Parathion              | 9.601  | 109  | 362783   | 168.323 | ug/ml# | 96     |
| 103) 3,3'-Dimethylbenzidine | 10.902 | 212  | 1873800  | 163.325 | ug/ml  | 99     |
| -----                       |        |      |          |         |        |        |

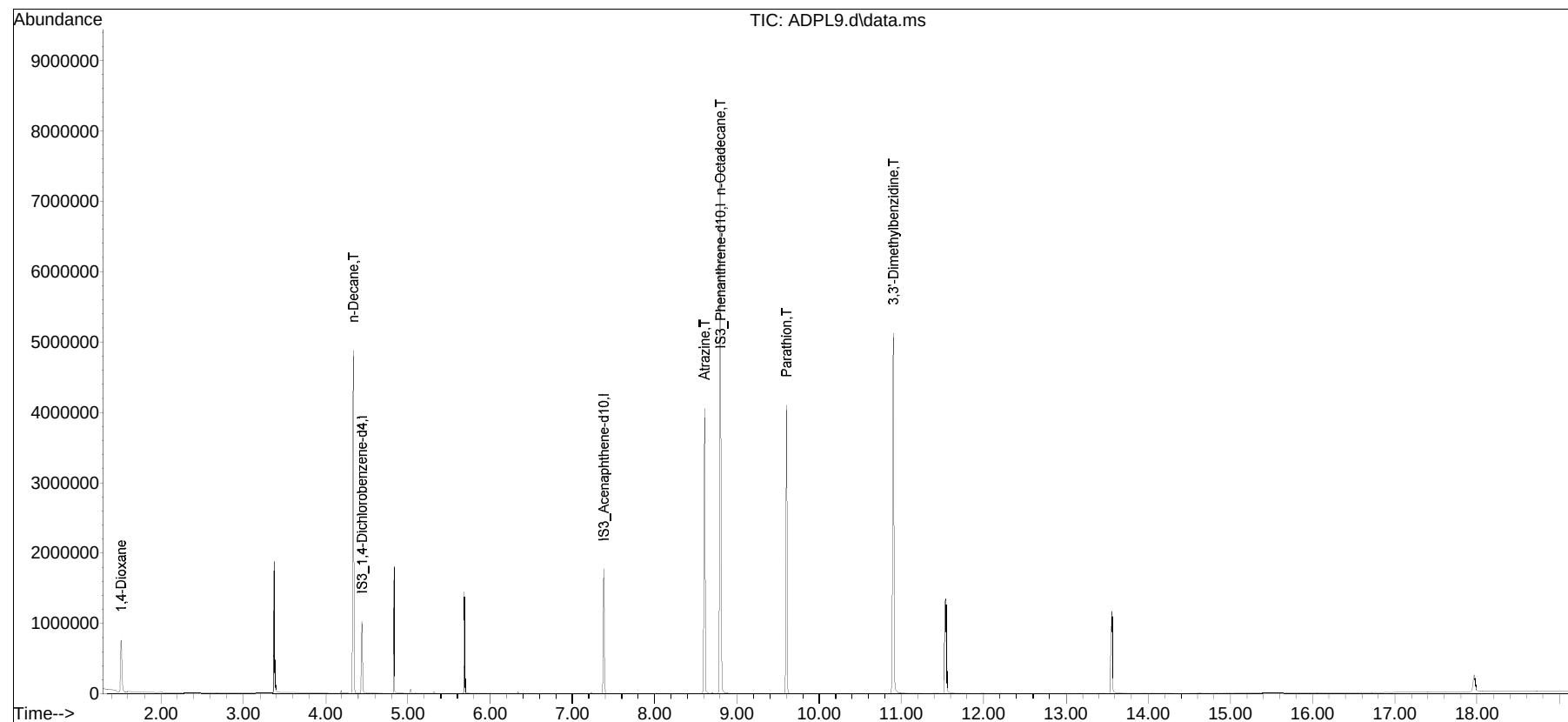
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL9.d  
 Acq On : 1 Dec 2019 9:11 pm  
 Operator : SV103:als  
 Sample : IL22,32,,ADPL150 Lot#8504  
 Misc : WG1316163,,  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 02 16:32:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL9.d Operator : SV103:als  
Date Inj'd : 12/1/2019 9:11 pm Instrument : SV103  
Sample : IL22,32,,ADPL150 Lot#8504 Quant Date : 12/2/2019 2:09 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL8.d  
 Acq On : 1 Dec 2019 9:35 pm  
 Operator : SV103:als  
 Sample : IL23,32,,ADPL100 Lot#8503  
 Misc : WG1316163,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 02 16:32:07 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 135521   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 102.62% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 313174   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 97.19%  |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 614076   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 96.32%  |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc    | Units  | Qvalue |
|-----------------------------|--------|------|----------|---------|--------|--------|
| 33) 1,4-Dioxane             | 1.511  | 88   | 170765   | 95.645  | ug/ml# | 63     |
| 34) n-Decane                | 4.336  | 57   | 620031   | 98.370  | ug/ml  | 95     |
| 87) Atrazine                | 8.601  | 200  | 302448   | 101.632 | ug/ml  | 96     |
| 101) n-Octadecane           | 8.800  | 57   | 922704   | 100.823 | ug/ml  | 97     |
| 102) Parathion              | 9.601  | 109  | 231725   | 108.840 | ug/ml# | 96     |
| 103) 3,3'-Dimethylbenzidine | 10.899 | 212  | 1191311  | 105.117 | ug/ml  | 99     |

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

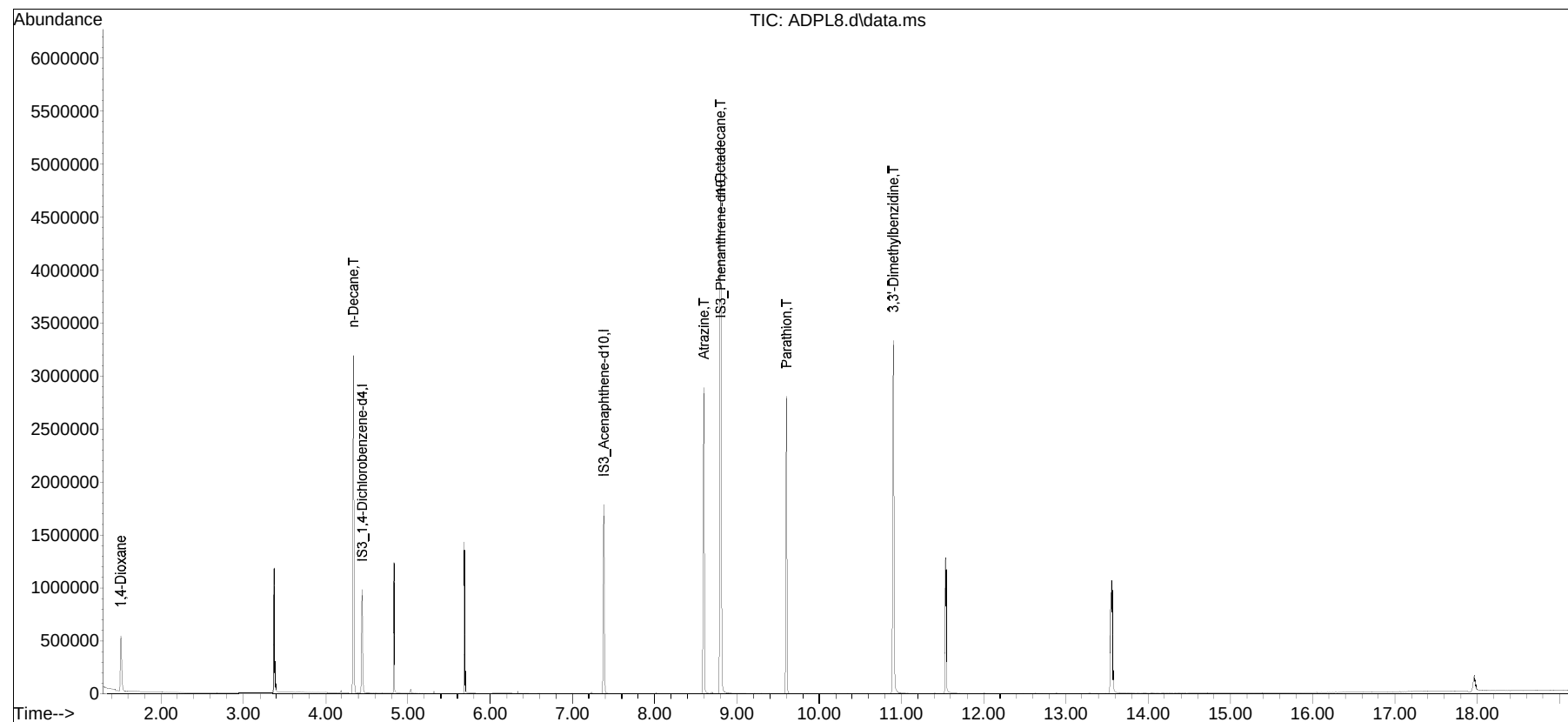


# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL8.d  
 Acq On : 1 Dec 2019 9:35 pm  
 Operator : SV103:als  
 Sample : IL23,32,,ADPL100 Lot#8503  
 Misc : WG1316163,,  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 02 16:32:07 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL8.d Operator : SV103:als  
Date Inj'd : 12/1/2019 9:35 pm Instrument : SV103  
Sample : IL23,32,,ADPL100 Lot#8503 Quant Date : 12/2/2019 2:09 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL7.d  
 Acq On : 1 Dec 2019 9:59 pm  
 Operator : SV103:als  
 Sample : IL24,32,,ADPL50 Lot#8502  
 Misc : WG1316163,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 02 13:58:26 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:57:36 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 132058   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 100.00% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 322221   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 100.00% |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 637530   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 100.00% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|--------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.511  | 88   | 86989    | 50.000 | ug/ml# | 64     |
| 34) n-Decane                | 4.336  | 57   | 307099   | 50.000 | ug/ml  | 96     |
| 87) Atrazine                | 8.598  | 200  | 153094   | 50.000 | ug/ml  | 96     |
| 101) n-Octadecane           | 8.800  | 57   | 475061   | 50.000 | ug/ml  | 96     |
| 102) Parathion              | 9.598  | 109  | 110518   | 50.000 | ug/ml# | 95     |
| 103) 3,3'-Dimethylbenzidine | 10.897 | 212  | 588300   | 50.000 | ug/ml  | 99     |
| -----                       |        |      |          |        |        |        |

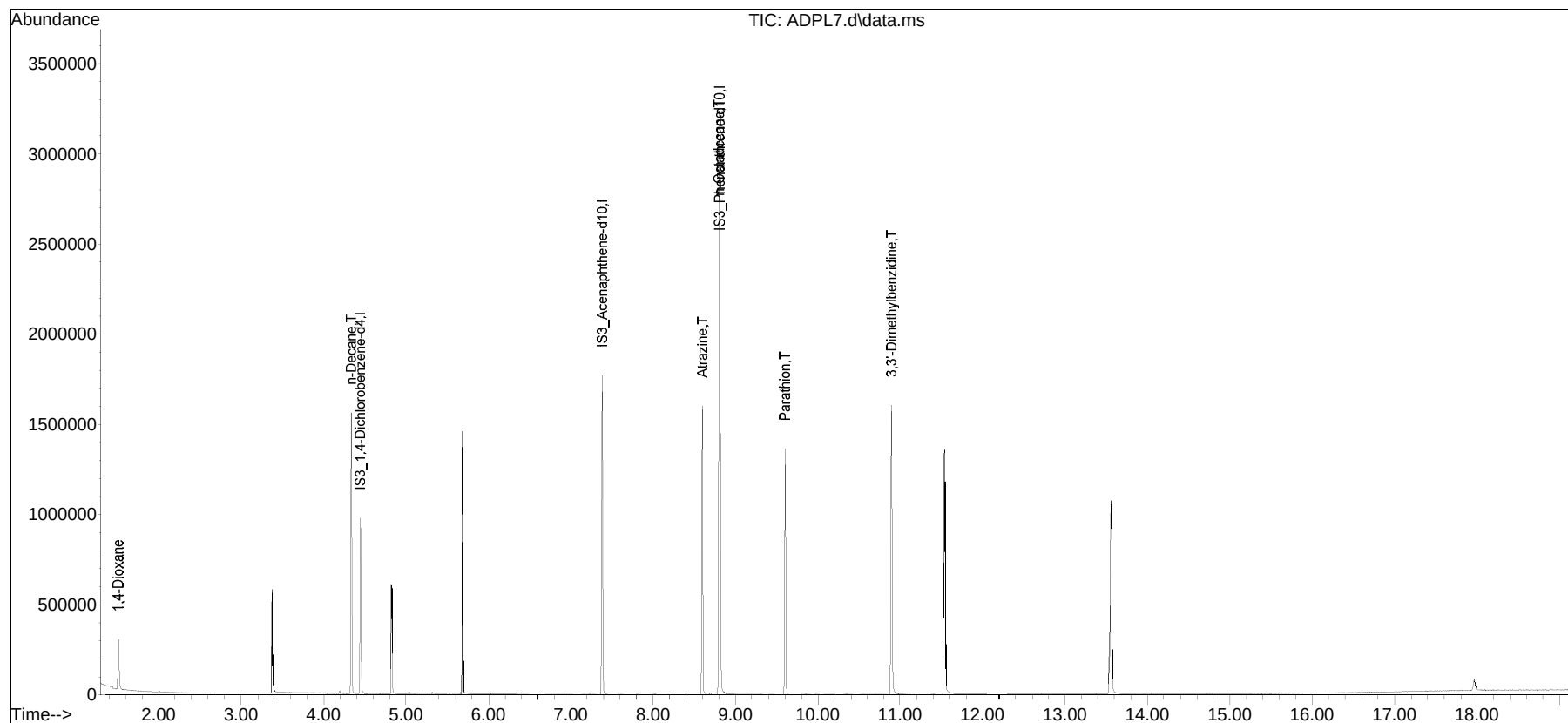
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL7.d  
 Acq On : 1 Dec 2019 9:59 pm  
 Operator : SV103:als  
 Sample : IL24,32,,ADPL50 Lot#8502  
 Misc : WG1316163,,  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 02 13:58:26 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 13:57:36 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL7.d Operator : SV103:als  
Date Inj'd : 12/1/2019 9:59 pm Instrument : SV103  
Sample : IL24,32,,ADPL50 Lot#8502 Quant Date : 12/2/2019 1:58 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL6.d  
 Acq On : 1 Dec 2019 10:23 pm  
 Operator : SV103:als  
 Sample : IL25,32,,ADPL20 Lot#8501  
 Misc : WG1316163,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 02 16:29:50 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 129772   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 98.27% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 307961   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 95.57% |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 600770   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 94.23% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|--------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.517  | 88   | 33884    | 19.819 | ug/ml# | 60     |
| 34) n-Decane                | 4.336  | 57   | 122794   | 20.345 | ug/ml  | 95     |
| 87) Atrazine                | 8.595  | 200  | 57836    | 19.764 | ug/ml  | 95     |
| 101) n-Octadecane           | 8.800  | 57   | 182066   | 20.335 | ug/ml  | 95     |
| 102) Parathion              | 9.598  | 109  | 38517    | 18.492 | ug/ml  | 94     |
| 103) 3,3'-Dimethylbenzidine | 10.894 | 212  | 212871   | 19.199 | ug/ml  | 100    |
| -----                       |        |      |          |        |        |        |

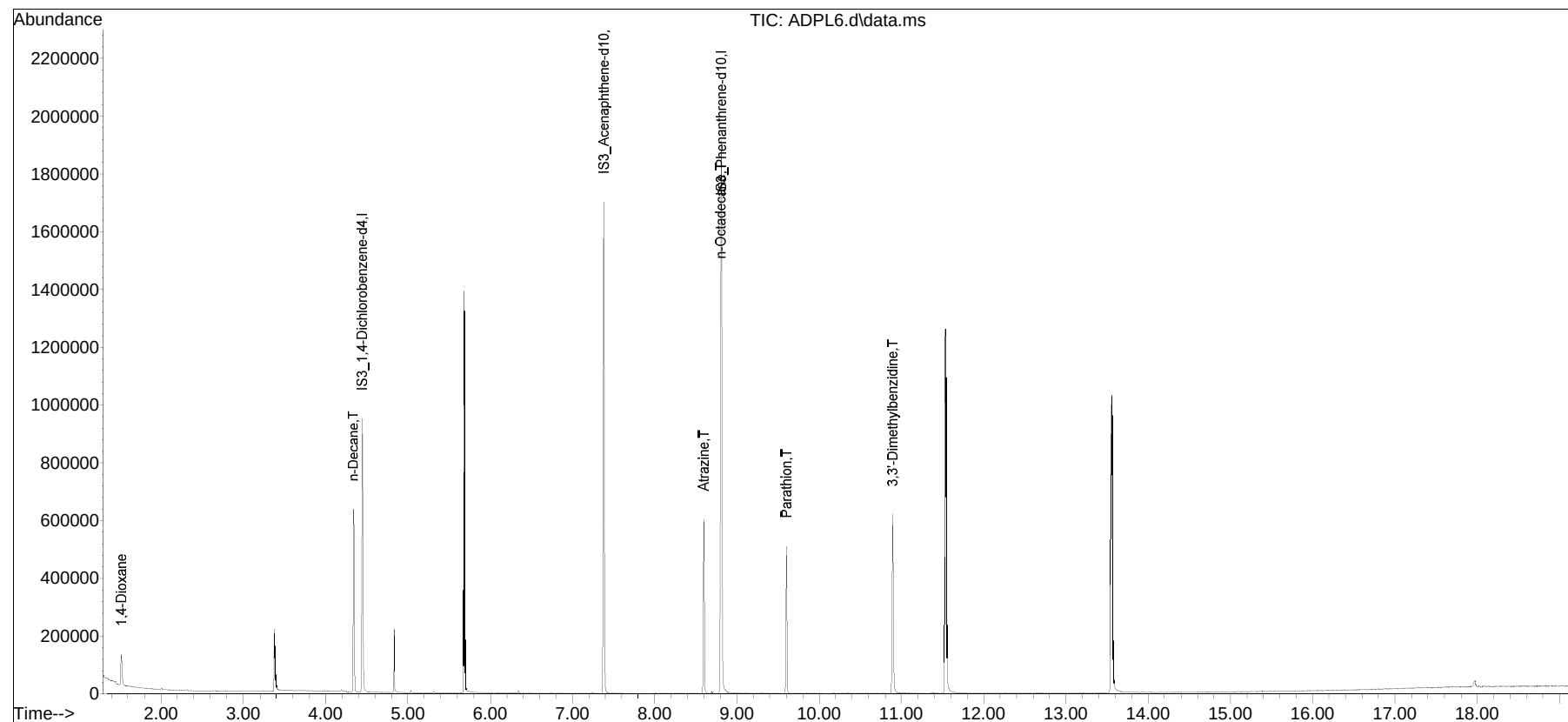
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL6.d  
 Acq On : 1 Dec 2019 10:23 pm  
 Operator : SV103:als  
 Sample : IL25,32,,ADPL20 Lot#8501  
 Misc : WG1316163,,  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 02 16:29:50 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL6.d Operator : SV103:als  
Date Inj'd : 12/1/2019 10:23 pm Instrument : SV103  
Sample : IL25,32,,ADPL20 Lot#8501 Quant Date : 12/2/2019 2:09 pm

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL5.d  
 Acq On : 1 Dec 2019 10:48 pm  
 Operator : SV103:als  
 Sample : IL26,32,,ADPL10 Lot#8500  
 Misc : WG1316163,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 02 16:29:08 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 129927   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 98.39% |          |
| 86) IS3_Acenaphthene-d10      | 7.384 | 164  | 301952   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 93.71% |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 588036   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 92.24% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|--------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.520  | 88   | 17970    | 10.498 | ug/ml# | 66     |
| 34) n-Decane                | 4.336  | 57   | 60389    | 9.993  | ug/ml  | 95     |
| 87) Atrazine                | 8.595  | 200  | 26432    | 9.212  | ug/ml  | 95     |
| 101) n-Octadecane           | 8.800  | 57   | 83545    | 9.533  | ug/ml  | 95     |
| 102) Parathion              | 9.598  | 109  | 16671    | 8.177  | ug/ml  | 95     |
| 103) 3,3'-Dimethylbenzidine | 10.894 | 212  | 100103   | 9.224  | ug/ml  | 99     |

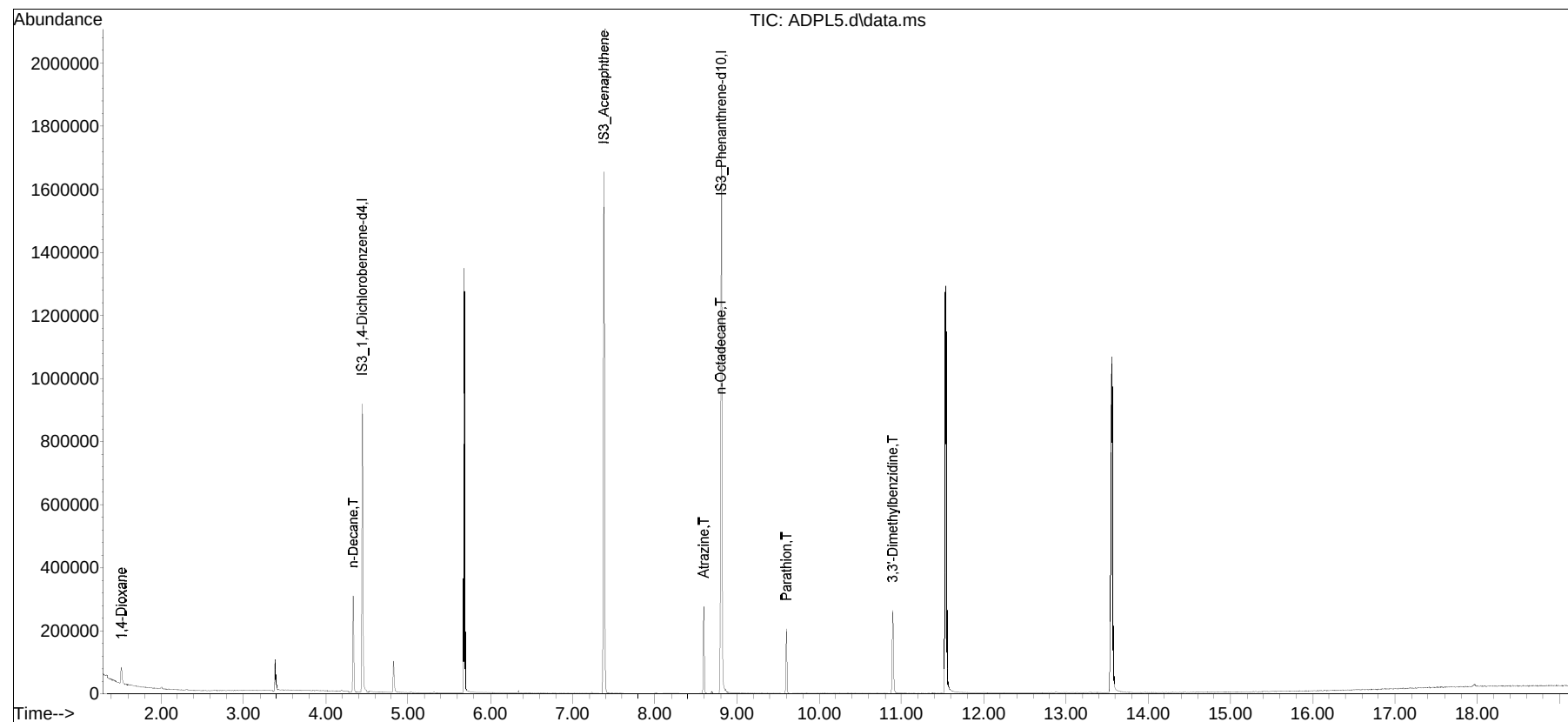
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL5.d  
 Acq On : 1 Dec 2019 10:48 pm  
 Operator : SV103:als  
 Sample : IL26,32,,ADPL10 Lot#8500  
 Misc : WG1316163,,  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 02 16:29:08 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL5.d Operator : SV103:als  
Date Inj'd : 12/1/2019 10:48 pm Instrument : SV103  
Sample : IL26,32,,ADPL10 Lot#8500 Quant Date : 12/2/2019 2:09 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL4.d  
 Acq On : 1 Dec 2019 11:12 pm  
 Operator : SV103:als  
 Sample : IL27,32,,ADPL5 Lot#8499  
 Misc : WG1316163,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 02 16:28:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 134627   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 101.95% |          |
| 86) IS3_Acenaphthene-d10      | 7.384 | 164  | 315074   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 97.78%  |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 619881   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 97.23%  |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.517  | 88   | 9014     | 5.082 | ug/ml# | 67     |
| 34) n-Decane                | 4.336  | 57   | 31107    | 4.968 | ug/ml  | 97     |
| 87) Atrazine                | 8.592  | 200  | 13716    | 4.581 | ug/ml  | 98     |
| 101) n-Octadecane           | 8.797  | 57   | 42628    | 4.614 | ug/ml  | 95     |
| 102) Parathion              | 9.598  | 109  | 7932     | 3.691 | ug/ml  | 94     |
| 103) 3,3'-Dimethylbenzidine | 10.896 | 212  | 46690    | 4.081 | ug/ml  | 98     |

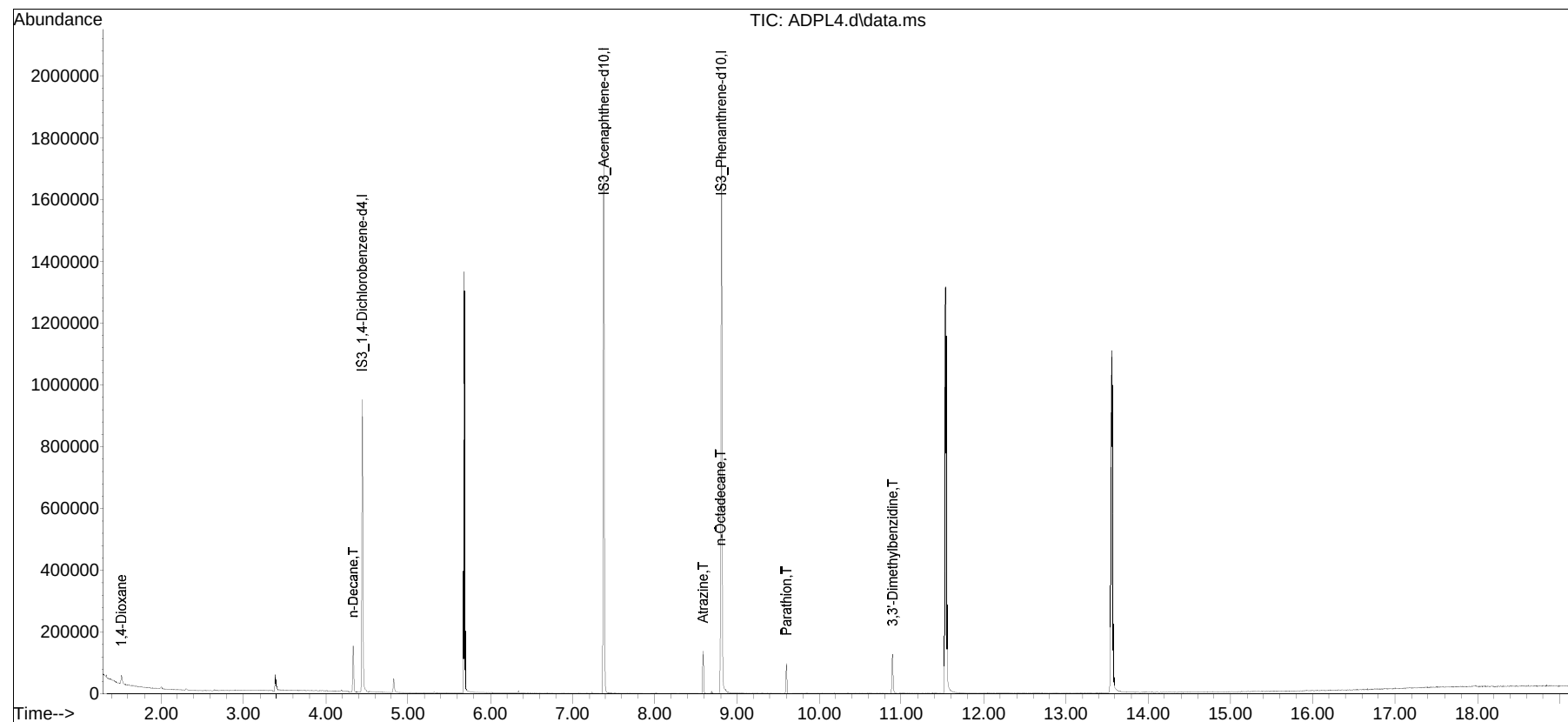
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL4.d  
 Acq On : 1 Dec 2019 11:12 pm  
 Operator : SV103:als  
 Sample : IL27,32,,ADPL5 Lot#8499  
 Misc : WG1316163,,  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 02 16:28:20 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\SV103\191201ical\ | QMethod    | : FS191201SV103.m   |
| Data File  | : ADPL4.d                   | Operator   | : SV103:als         |
| Date Inj'd | : 12/1/2019 11:12 pm        | Instrument | : SV103             |
| Sample     | : IL27,32,,ADPL5 Lot#8499   | Quant Date | : 12/2/2019 2:09 pm |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL3.d  
 Acq On : 1 Dec 2019 11:36 pm  
 Operator : SV103:als  
 Sample : IL28,32,,ADPL3 Lot#8498  
 Misc : WG1316163,,  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 02 16:27:36 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 130521   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 98.84% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 303450   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 94.17% |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 597470   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 93.72% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.523  | 88   | 4800     | 2.791 | ug/ml# | 49     |
| 34) n-Decane                | 4.336  | 57   | 18059    | 2.975 | ug/ml  | 94     |
| 87) Atrazine                | 8.592  | 200  | 7786     | 2.700 | ug/ml  | 97     |
| 101) n-Octadecane           | 8.797  | 57   | 24342    | 2.734 | ug/ml  | 96     |
| 102) Parathion              | 9.598  | 109  | 4448     | 2.147 | ug/ml# | 95     |
| 103) 3,3'-Dimethylbenzidine | 10.894 | 212  | 26474    | 2.401 | ug/ml  | 99     |

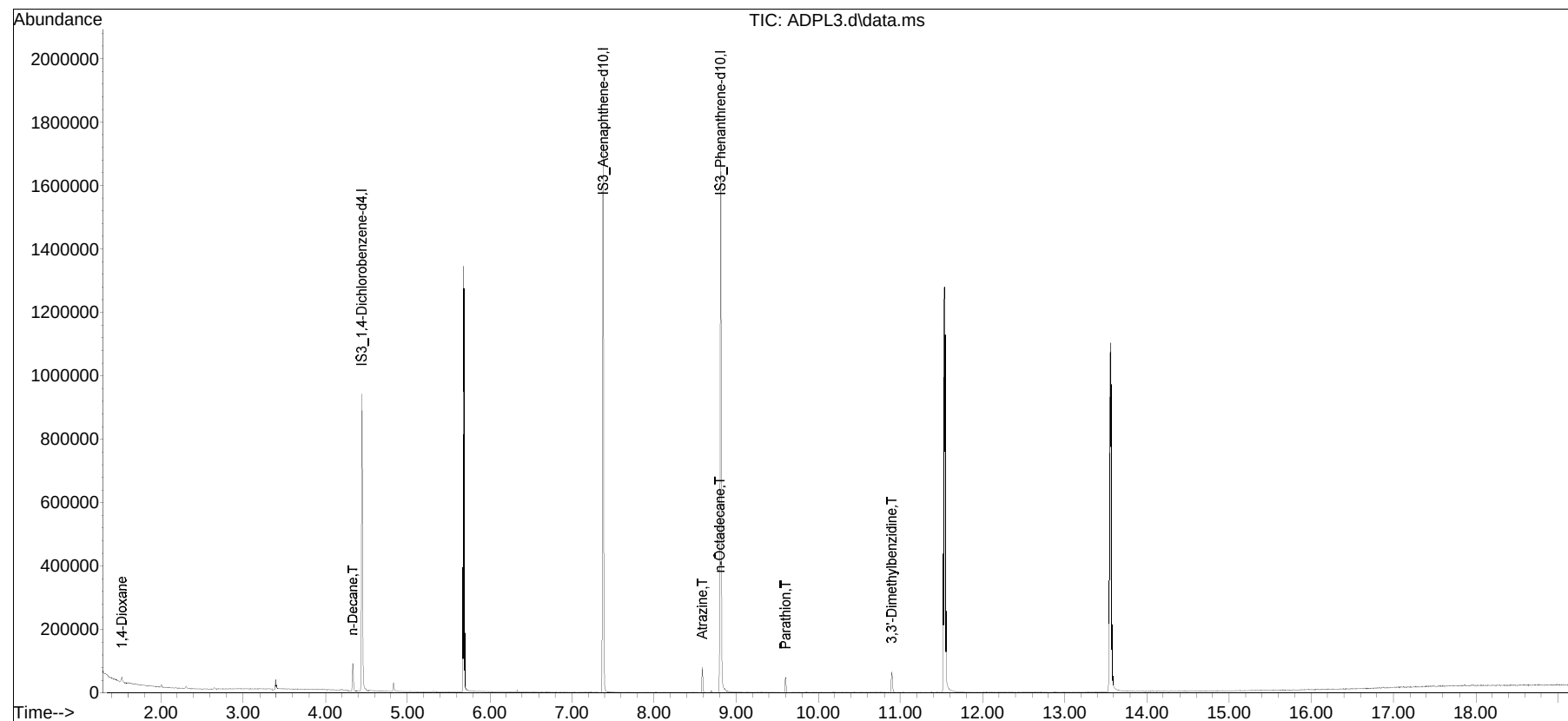
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL3.d  
 Acq On : 1 Dec 2019 11:36 pm  
 Operator : SV103:als  
 Sample : IL28,32,,ADPL3 Lot#8498  
 Misc : WG1316163,,  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 02 16:27:36 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•





# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\SV103\191201ical\ | QMethod    | : FS191201SV103.m   |
| Data File  | : ADPL3.d                   | Operator   | : SV103:als         |
| Date Inj'd | : 12/1/2019 11:36 pm        | Instrument | : SV103             |
| Sample     | : IL28,32,,ADPL3 Lot#8498   | Quant Date | : 12/2/2019 2:09 pm |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL2.d  
 Acq On : 2 Dec 2019 12:00 am  
 Operator : SV103:als  
 Sample : IL29,32,,ADPL2 Lot#8497  
 Misc : WG1316163,,  
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 02 16:26:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 126954   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 96.14% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 299830   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 93.05% |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 590910   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 92.69% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.520  | 88   | 3770     | 2.254 | ug/ml# | 59     |
| 34) n-Decane                | 4.336  | 57   | 11878    | 2.012 | ug/ml  | 97     |
| 87) Atrazine                | 8.592  | 200  | 4969     | 1.744 | ug/ml  | 98     |
| 101) n-Octadecane           | 8.800  | 57   | 15624    | 1.774 | ug/ml  | 96     |
| 102) Parathion              | 9.595  | 109  | 2867     | 1.399 | ug/ml  | 95     |
| 103) 3,3'-Dimethylbenzidine | 10.894 | 212  | 16497    | 1.513 | ug/ml  | 99     |

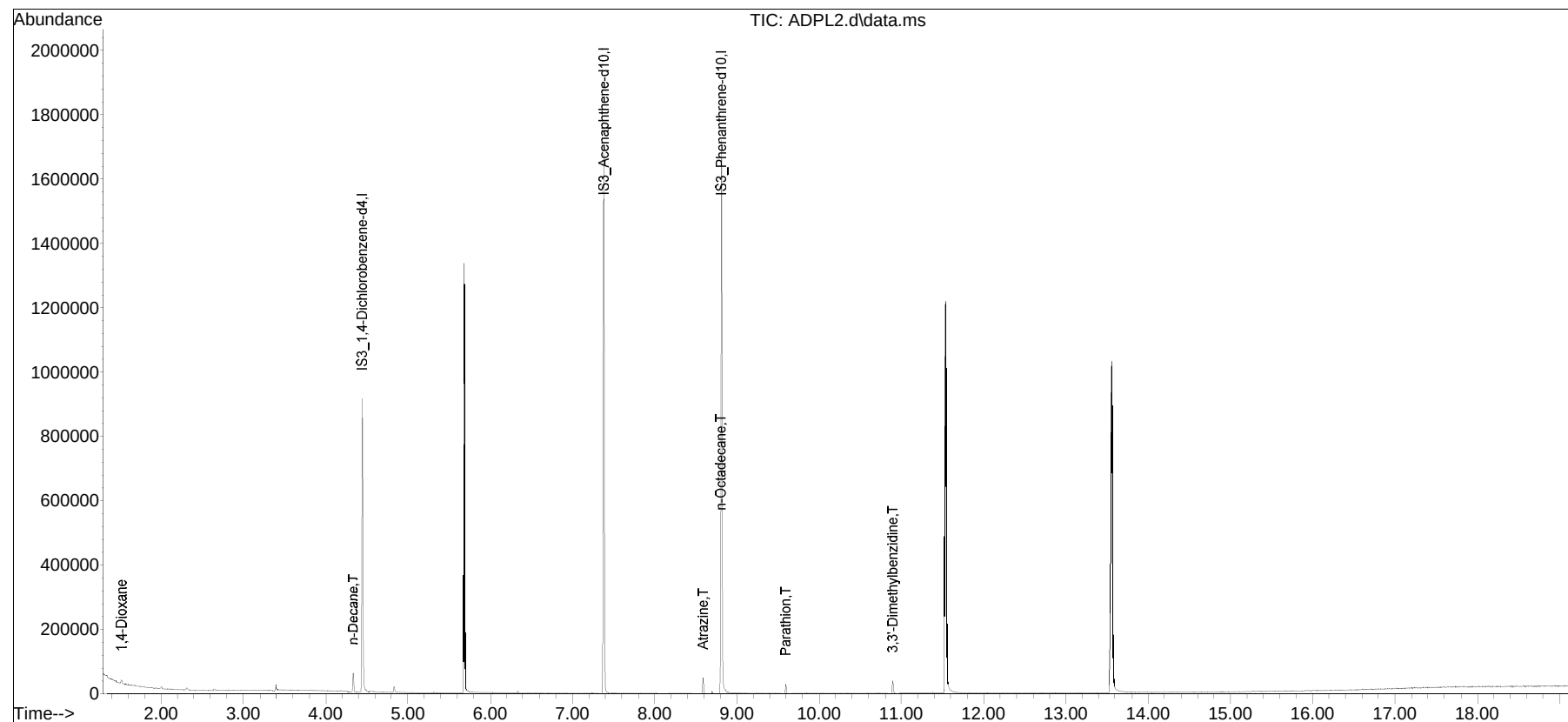
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL2.d  
 Acq On : 2 Dec 2019 12:00 am  
 Operator : SV103:als  
 Sample : IL29,32,,ADPL2 Lot#8497  
 Misc : WG1316163,,  
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 02 16:26:49 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPL2.d Operator : SV103:als  
Date Inj'd : 12/2/2019 12:00 am Instrument : SV103  
Sample : IL29,32,,ADPL2 Lot#8497 Quant Date : 12/2/2019 2:09 pm

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL1.d  
 Acq On : 2 Dec 2019 12:25 am  
 Operator : SV103:als  
 Sample : IL30,32,,ADPL1 Lot#8496  
 Misc : WG1316163,,  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 02 16:24:54 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| -----                         |       |      |          |        |        |          |
| Internal Standards            |       |      |          |        |        |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 129515   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 98.07% |          |
| 86) IS3_Acenaphthene-d10      | 7.384 | 164  | 308865   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 95.86% |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 605533   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 94.98% |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------------|--------|------|----------|-------|--------|--------|
| 33) 1,4-Dioxane             | 1.525  | 88   | 989      | 0.580 | ug/ml# | 58     |
| 34) n-Decane                | 4.336  | 57   | 3011     | 0.500 | ug/ml# | 86     |
| 87) Atrazine                | 8.598  | 200  | 1217     | 0.415 | ug/ml# | 38     |
| 101) n-Octadecane           | 8.799  | 57   | 4055     | 0.449 | ug/ml  | 94     |
| 102) Parathion              | 9.595  | 109  | 636      | 0.303 | ug/ml# | 80     |
| 103) 3,3'-Dimethylbenzidine | 10.894 | 212  | 3750     | 0.336 | ug/ml# | 78     |
| -----                       |        |      |          |       |        |        |

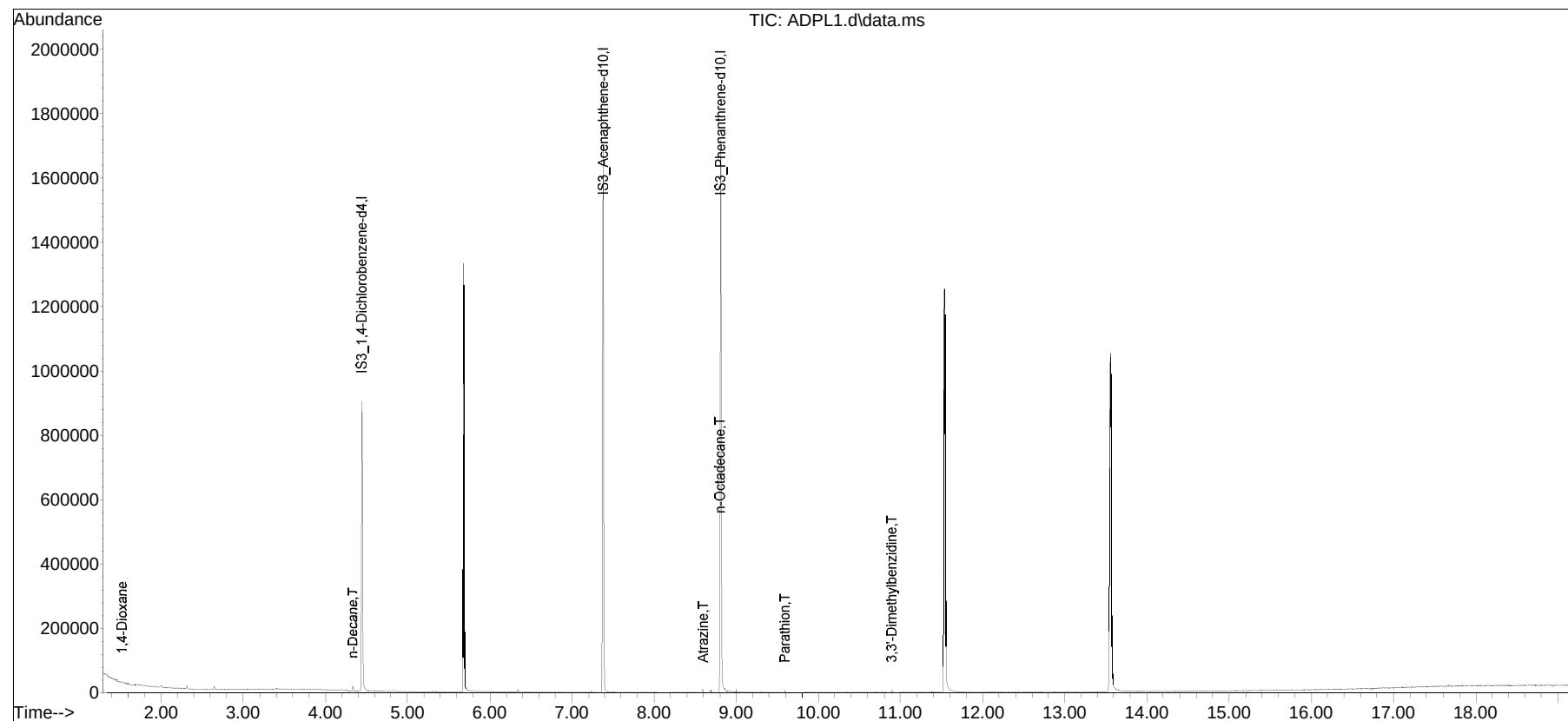
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPL1.d  
 Acq On : 2 Dec 2019 12:25 am  
 Operator : SV103:als  
 Sample : IL30,32,,ADPL1 Lot#8496  
 Misc : WG1316163,,  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 02 16:24:54 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 02 14:07:20 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•



# Manual Integration Report

|            |                             |            |                     |
|------------|-----------------------------|------------|---------------------|
| Data Path  | : I:\8270\SV103\191201ical\ | QMethod    | : FS191201SV103.m   |
| Data File  | : ADPL1.d                   | Operator   | : SV103:als         |
| Date Inj'd | : 12/2/2019 12:25 am        | Instrument | : SV103             |
| Sample     | : IL30,32,,ADPL1 Lot#8496   | Quant Date | : 12/2/2019 2:09 pm |

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPICV.d  
 Acq On : 2 Dec 2019 12:49 am  
 Operator : SV103:als  
 Sample : CQICV3,32,,ADP ICV Lot#8505  
 Misc : WG1316163,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 03 11:16:24 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:16:15 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| 32 I  | IS3_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 33    | 1,4-Dioxane                | 0.537 | 0.503 | 6.3  | 96    | 0.00     |
| 34 T  | n-Decane                   | 1.852 | 1.838 | 0.8  | 100   | 0.00     |
| 86 I  | IS3_Acenaphthene-d10       | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 87 T  | Atrazine                   | 0.371 | 0.359 | 3.2  | 90    | 0.00     |
| 100 I | IS3_Phenanthrene-d10       | 1.000 | 1.000 | 0.0  | 96    | 0.00     |
| 101 T | n-Octadecane               | 0.579 | 0.582 | -0.5 | 93    | 0.00     |
| 102 T | Parathion                  | 0.136 | 0.136 | 0.0  | 94    | 0.00     |
| 103 T | 3,3'-Dimethylbenzidine     | 0.699 | 0.687 | 1.7  | 89    | 0.00     |

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



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPICV.d  
 Acq On : 2 Dec 2019 12:49 am  
 Operator : SV103:als  
 Sample : CQICV3,32,,ADP ICV Lot#8505  
 Misc : WG1316163,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 03 11:16:24 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:16:15 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\191201ical\ADPL7.d  
 Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.444 | 152  | 133021   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 132058      |       |      | Recovery | =      | 100.73% |          |
| 86) IS3_Acenaphthene-d10      | 7.385 | 164  | 308118   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 322221      |       |      | Recovery | =      | 95.62%  |          |
| 100) IS3_Phenanthrene-d10     | 8.808 | 188  | 609416   | 40.000 | ug/ml   | 0.00     |
| Standard Area 1 = 637530      |       |      | Recovery | =      | 95.59%  |          |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|--------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.517  | 88   | 83565    | 46.807 | ug/ml# | 65     |
| 34) n-Decane                | 4.336  | 57   | 305667   | 49.623 | ug/ml  | 95     |
| 87) Atrazine                | 8.598  | 200  | 138126   | 48.358 | ug/ml  | 97     |
| 101) n-Octadecane           | 8.800  | 57   | 443172   | 50.251 | ug/ml  | 96     |
| 102) Parathion              | 9.598  | 109  | 103537   | 50.068 | ug/ml# | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.897 | 212  | 523682   | 49.166 | ug/ml  | 99     |

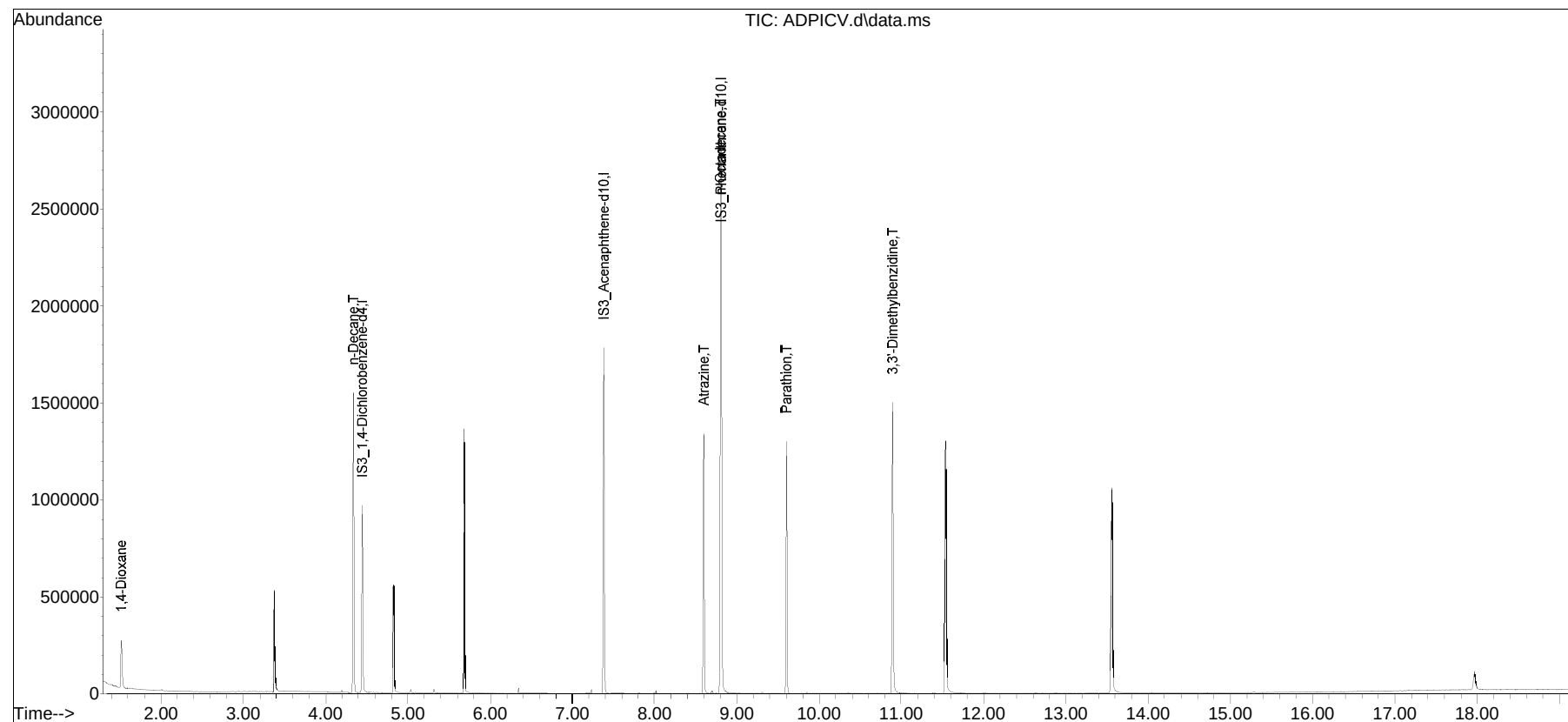
(#) = qualifier out of range (m) = manual integration (+) = signals summed

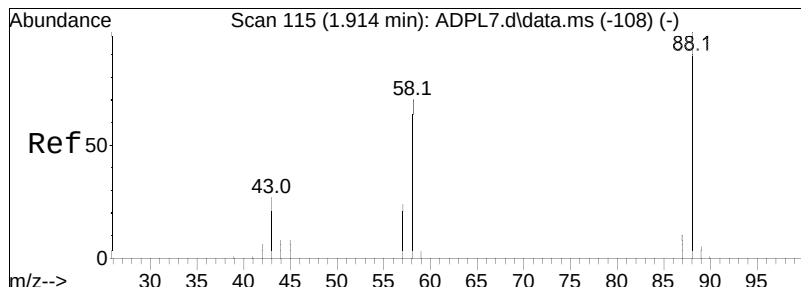
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191201ical\  
 Data File : ADPICV.d  
 Acq On : 2 Dec 2019 12:49 am  
 Operator : SV103:als  
 Sample : CQICV3,32,,ADP ICV Lot#8505  
 Misc : WG1316163,,  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 03 11:16:24 2019  
 Quant Method : I:\8270\SV103\191201ical\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 03 11:16:15 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublistal\ADPL7.d•





#33

1,4-Dioxane

Concen: 46.81 ug/ml

RT: 1.517 min Scan# 81

Delta R.T. 0.006 min

Lab File: ADPICV.d

Acq: 2 Dec 2019 12:49 am

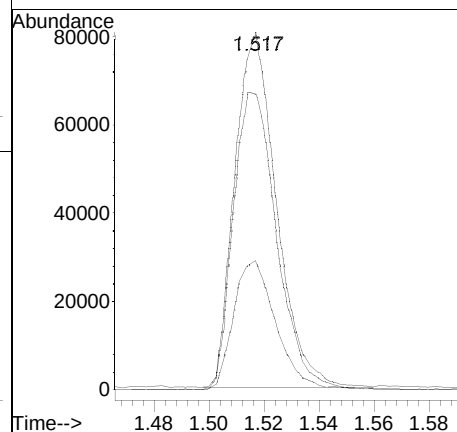
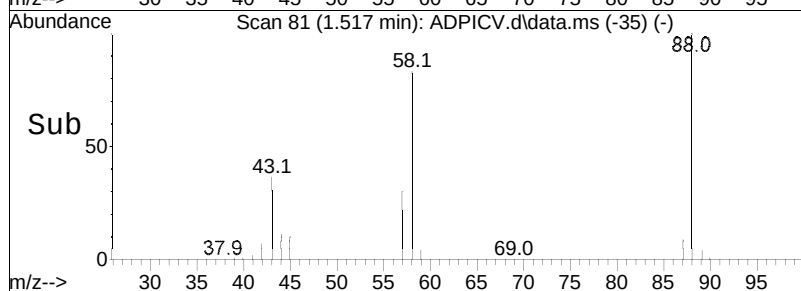
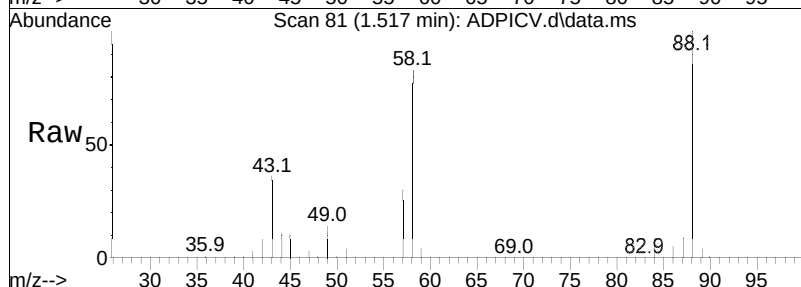
Tgt Ion: 88 Resp: 83565

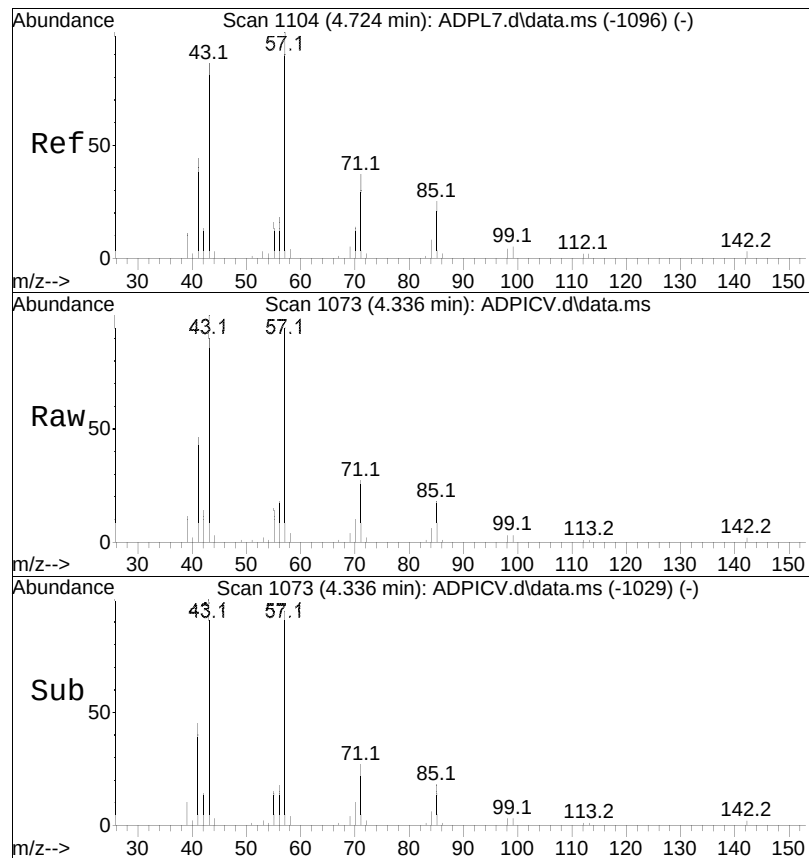
Ion Ratio Lower Upper

88 100

58 87.5 44.8 67.2#

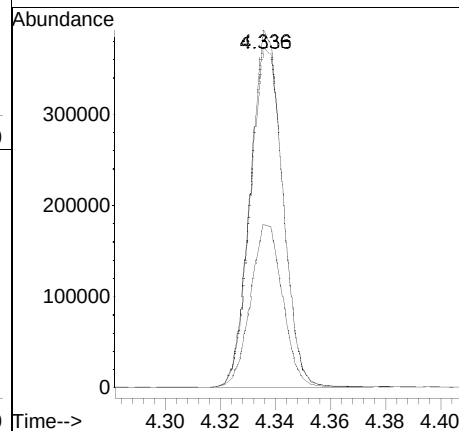
43 37.8 22.4 33.6#

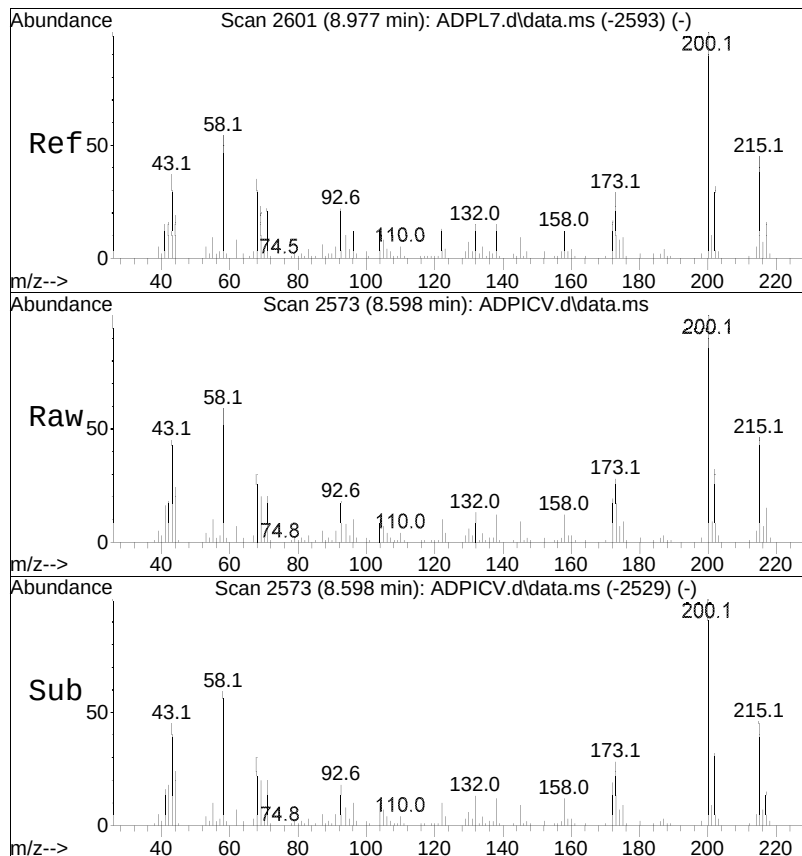




#34  
 n-Decane  
 Concen: 49.62 ug/ml  
 RT: 4.336 min Scan# 1073  
 Delta R.T. -0.000 min  
 Lab File: ADPICV.d  
 Acq: 2 Dec 2019 12:49 am

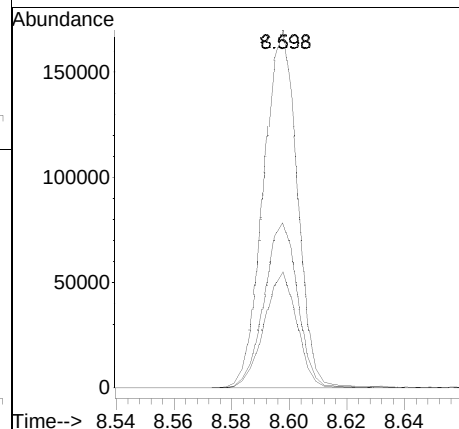
| Tgt Ion:  | 57    | Resp: | 305667 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 43        | 103.3 | 77.9  | 116.9  |
| 41        | 47.3  | 36.9  | 55.3   |

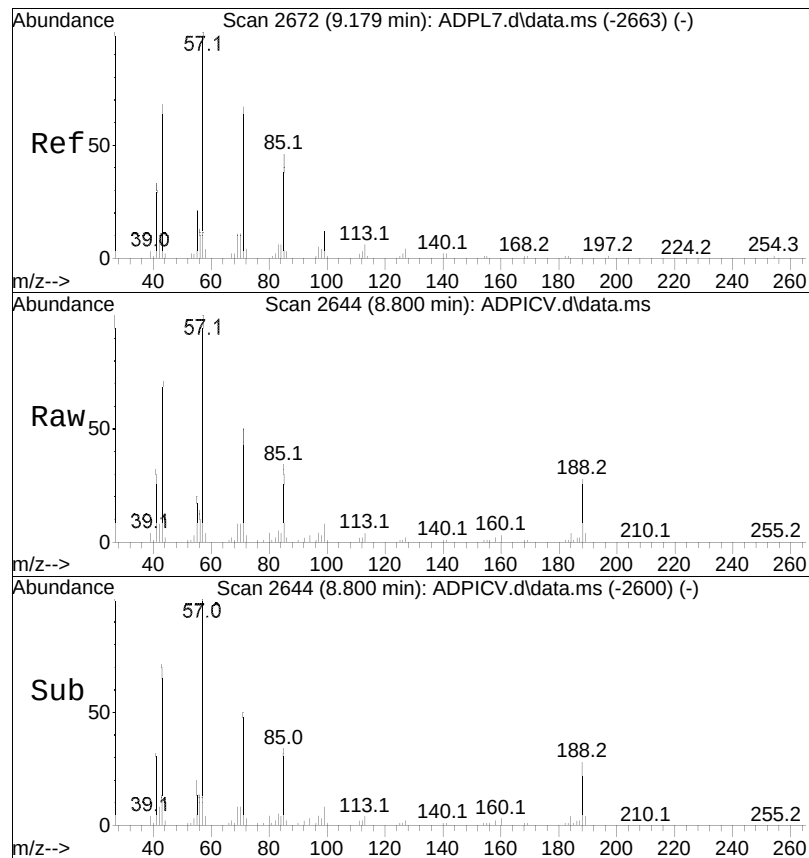




#87  
 Atrazine  
 Concen: 48.36 ug/ml  
 RT: 8.598 min Scan# 2573  
 Delta R.T. -0.000 min  
 Lab File: ADPICV.d  
 Acq: 2 Dec 2019 12:49 am

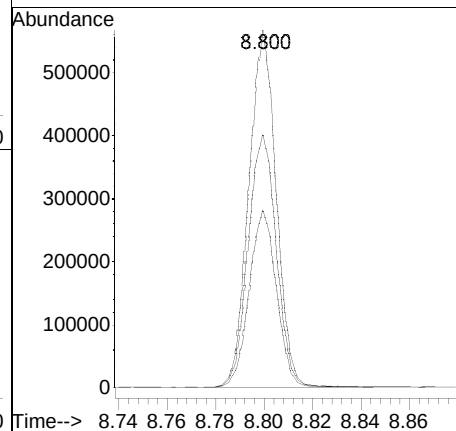
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 200   | Resp: | 138126 |
| Ion Ratio | Lower | Upper |        |
| 200       | 100   |       |        |
| 202       | 31.5  | 24.9  | 37.3   |
| 215       | 45.5  | 34.0  | 51.0   |

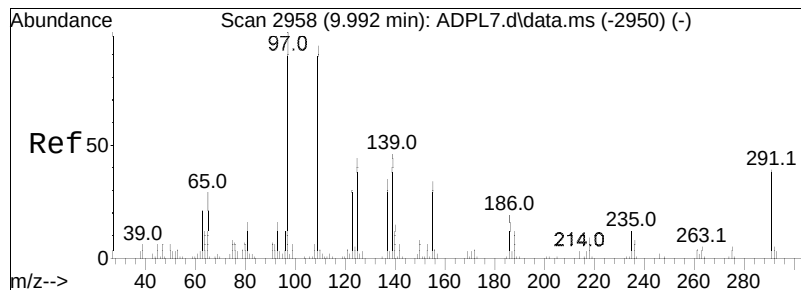




#101  
n-Octadecane  
Concen: 50.25 ug/ml  
RT: 8.800 min Scan# 2644  
Delta R.T. -0.000 min  
Lab File: ADPICV.d  
Acq: 2 Dec 2019 12:49 am

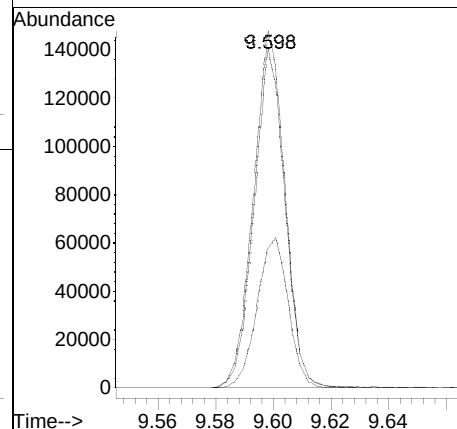
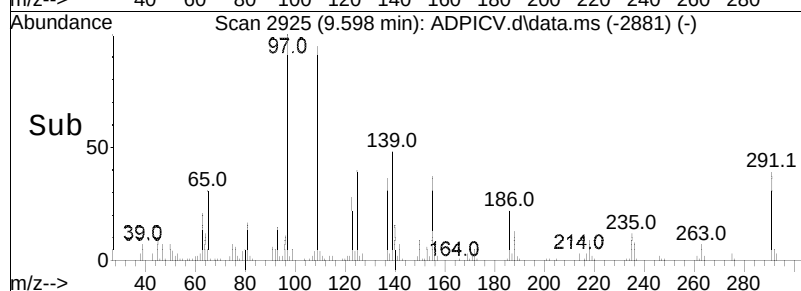
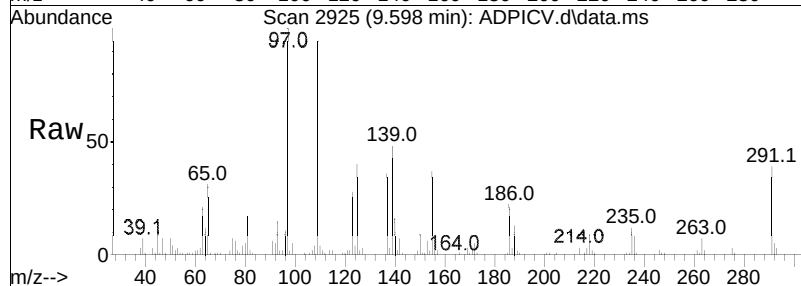
| Tgt | Ion   | Resp  | 443172 |
|-----|-------|-------|--------|
| Ion | Ratio | Lower | Upper  |
| 57  | 100   |       |        |
| 43  | 72.8  | 56.7  | 85.1   |
| 71  | 49.7  | 42.8  | 64.2   |

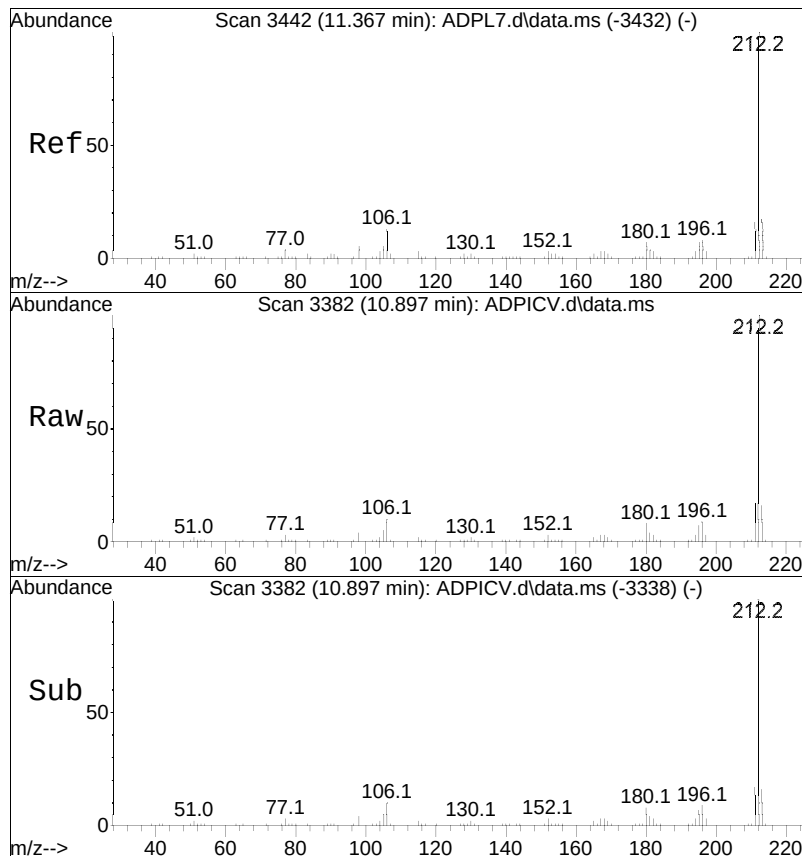




#102  
 Parathion  
 Concen: 50.07 ug/ml  
 RT: 9.598 min Scan# 2925  
 Delta R.T. -0.000 min  
 Lab File: ADPICV.d  
 Acq: 2 Dec 2019 12:49 am

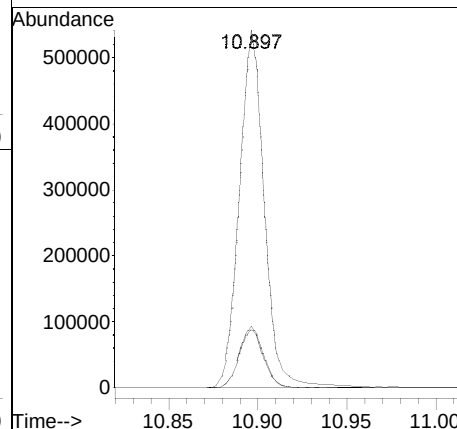
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 109     | 100   |       |       |
| 97      | 107.4 | 85.8  | 128.8 |
| 291     | 45.0  | 29.8  | 44.8# |





#103  
 3,3'-Dimethylbenzidine  
 Concen: 49.17 ug/ml  
 RT: 10.897 min Scan# 3382  
 Delta R.T. -0.000 min  
 Lab File: ADPICV.d  
 Acq: 2 Dec 2019 12:49 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 212   | Resp: | 523682 |
| Ion Ratio | Lower | Upper |        |
| 212       | 100   |       |        |
| 211       | 17.2  | 13.5  | 20.3   |
| 213       | 16.2  | 13.4  | 20.0   |





# Manual Integration Report

Data Path : I:\8270\SV103\191201ical\ QMethod : FS191201SV103.m  
Data File : ADPICV.d Operator : SV103:als  
Date Inj'd : 12/2/2019 12:49 am Instrument : SV103  
Sample : CQICV3,32,,ADP ICV Lot#850Quant Date : 12/3/2019 11:16 am

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

# **Continuing Calibration**

# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Lab File ID : ABN1223N  
 Sample No : WG1324233-3  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/23/19 23:08  
 Init. Calib. Date(s) : 10/06/19 10/07/19  
 Init. Calib. Times : 18:00 11:31

| Compound                   | Ave. RRF | RRF    | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|-------|--------|-------|----------|
| IS1_1,4-Dichlorobenzene-d4 | 1        | 1      | -       | 0     | 20     | 123   | 0        |
| n-Nitrosodimethylamine     | 0.773    | 0.68   | -       | 12    | 20     | 113   | 0        |
| Pyridine                   | 1.313    | 1.194  | -       | 9.1   | 20     | 117   | 0        |
| 2-Fluorophenol             | 1.298    | 1.277  | -       | 1.6   | 20     | 123   | 0        |
| Aniline                    | 2.067    | 1.957  | -       | 5.3   | 20     | 120   | 0        |
| 2-Chlorophenol             | 1.43     | 1.457  | -       | -1.9  | 20     | 127   | 0        |
| Phenol-d6                  | 1.545    | 1.585  | -       | -2.6  | 20     | 130   | 0        |
| Phenol                     | 1.784    | 1.717  | -       | 3.8   | 20     | 121   | 0        |
| Bis(2-chloroethyl)ether    | 1.253    | 1.192  | -       | 4.9   | 20     | 124   | 0        |
| 1,3-Dichlorobenzene        | 1.607    | 1.562  | -       | 2.8   | 20     | 123   | 0        |
| 1,4-Dichlorobenzene        | 1.66     | 1.614  | -       | 2.8   | 20     | 125   | 0        |
| 1,2-Dichlorobenzene        | 1.604    | 1.513  | -       | 5.7   | 20     | 123   | 0        |
| Benzyl alcohol             | 1.026    | 0.973  | -       | 5.2   | 20     | 120   | 0        |
| Bis(2-chloroisopropyl)ethe | 1.715    | 1.958  | -       | -14.2 | 20     | 145   | 0        |
| 2-Methylphenol             | 1.258    | 1.208  | -       | 4     | 20     | 121   | 0        |
| Hexachloroethane           | 0.63     | 0.612  | -       | 2.9   | 20     | 125   | 0        |
| n-Nitrosodi-n-propylamine  | 0.886    | 0.807  | -       | 8.9   | 20     | 114   | 0        |
| 3-Methylphenol/4-Methylphe | 1.325    | 1.289  | -       | 2.7   | 20     | 121   | 0        |
| Nitrobenzene-d5            | 50       | 38.698 | -       | 22.6* | 20     | 98    | 0        |
| Nitrobenzene               | 1.329    | 1.239  | -       | 6.8   | 20     | 117   | 0        |
| Isophorone                 | 2.469    | 2.349  | -       | 4.9   | 20     | 119   | 0        |
| 2-Nitrophenol              | 0.68     | 0.778  | -       | -14.4 | 20     | 133   | 0        |
| 2,4-Dimethylphenol         | 1.317    | 1.037  | -       | 21.3* | 20     | 100   | 0        |
| Bis(2-chloroethoxy)methane | 1.662    | 1.486  | -       | 10.6  | 20     | 112   | 0        |
| 2,4-Dichlorophenol         | 1.194    | 1.194  | -       | 0     | 20     | 121   | 0        |
| 1,2,4-Trichlorobenzene     | 1.31     | 1.221  | -       | 6.8   | 20     | 120   | 0        |
| IS1_Naphthalene-d8         | 1        | 1      | -       | 0     | 20     | 120   | 0        |
| Naphthalene                | 1.088    | 1.058  | -       | 2.8   | 20     | 119   | 0        |
| Benzoic Acid               | 50       | 50.207 | -       | -0.4  | 20     | 126   | 0        |
| 4-Chloroaniline            | 0.113    | 0.103  | -       | 8.8   | 20     | 113   | 0        |
| Hexachlorobutadiene        | 0.175    | 0.156  | -       | 10.9  | 20     | 113   | 0        |
| p-Chloro-m-cresol          | 0.286    | 0.281  | -       | 1.7   | 20     | 116   | 0        |
| 2-Methylnaphthalene        | 0.72     | 0.705  | -       | 2.1   | 20     | 118   | 0        |
| 1-Methylnaphthalene        | 0.214    | 0.212  | -       | 0.9   | 20     | 123   | 0        |
| Hexachlorocyclopentadiene  | 0.22     | 0.14   | -       | 36.4* | 20     | 75    | 0        |
| 2,4,6-Trichlorophenol      | 0.212    | 0.195  | -       | 8     | 20     | 108   | 0        |
| 2,4,5-Trichlorophenol      | 0.224    | 0.217  | -       | 3.1   | 20     | 113   | 0        |
| 2-Fluorobiphenyl           | 0.978    | 0.738  | -       | 24.5* | 20     | 93    | 0        |
| 2-Chloronaphthalene        | 0.686    | 0.633  | -       | 7.7   | 20     | 112   | 0        |
| 2-Nitroaniline             | 0.225    | 0.239  | -       | -6.2  | 20     | 121   | 0        |
| 1,4-Dinitrobenzene         | 0.093    | 0.098  | -       | -5.4  | 20     | 122   | 0        |
| 1,3-Dinitrobenzene         | 0.11     | 0.11   | -       | 0     | 20     | 117   | 0        |
| Dimethyl phthalate         | 0.807    | 0.757  | -       | 6.2   | 20     | 110   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Lab File ID : ABN1223N  
 Sample No : WG1324233-3  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/23/19 23:08  
 Init. Calib. Date(s) : 10/06/19 10/07/19  
 Init. Calib. Times : 18:00 11:31

| Compound                   | Ave. RRF | RRF    | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|-------|--------|-------|----------|
| Acenaphthylene             | 1.118    | 1.084  | -       | 3     | 20     | 114   | 0        |
| 2,6-Dinitrotoluene         | 0.169    | 0.172  | -       | -1.8  | 20     | 114   | 0        |
| 1,2-Dinitrobenzene         | 0.067    | 0.071  | -       | -6    | 20     | 120   | 0        |
| IS1_Acenaphthene-d10       | 1        | 1      | -       | 0     | 20     | 112   | 0        |
| 3-Nitroaniline             | 0.365    | 0.382  | -       | -4.7  | 20     | 113   | 0        |
| Acenaphthene               | 1.22     | 1.156  | -       | 5.2   | 20     | 112   | 0        |
| 2,4-Dinitrophenol          | 50       | 51.479 | -       | -3    | 20     | 125   | 0        |
| Dibenzofuran               | 1.832    | 1.74   | -       | 5     | 20     | 110   | 0        |
| 2,4-Dinitrotoluene         | 0.401    | 0.436  | -       | -8.7  | 20     | 115   | 0        |
| 4-Nitrophenol              | 0.243    | 0.253  | -       | -4.1  | 20     | 116   | 0        |
| 2,3,5,6-Tetrachlorophenol  | 0.351    | 0.313  | -       | 10.8  | 20     | 99    | 0        |
| 2,3,4,6-Tetrachlorophenol  | 0.357    | 0.335  | -       | 6.2   | 20     | 106   | 0        |
| Diethyl phthalate          | 1.53     | 1.446  | -       | 5.5   | 20     | 107   | 0        |
| Fluorene                   | 1.471    | 1.409  | -       | 4.2   | 20     | 109   | 0        |
| 4-Chlorophenyl phenyl ethe | 0.673    | 0.613  | -       | 8.9   | 20     | 104   | 0        |
| 4-Nitroaniline             | 0.415    | 0.379  | -       | 8.7   | 20     | 97    | 0        |
| 4,6-Dinitro-o-cresol       | 50       | 50.195 | -       | -0.4  | 20     | 118   | 0        |
| NDPA/DPA                   | 1.272    | 1.209  | -       | 5     | 20     | 109   | 0        |
| Azobenzene                 | 1.363    | 1.244  | -       | 8.7   | 20     | 104   | 0        |
| 2,4,6-Tribromophenol       | 0.234    | 0.254  | -       | -8.5  | 20     | 117   | 0        |
| 4-Bromophenyl phenyl ether | 0.409    | 0.382  | -       | 6.6   | 20     | 104   | 0        |
| Hexachlorobenzene          | 0.491    | 0.475  | -       | 3.3   | 20     | 112   | 0        |
| Pentachlorophenol          | 0.292    | 0.244  | -       | 16.4  | 20     | 87    | 0        |
| IS1_Phenanthrene-d10       | 1        | 1      | -       | 0     | 20     | 107   | 0        |
| Phenanthrene               | 1.169    | 1.092  | -       | 6.6   | 20     | 105   | 0        |
| Anthracene                 | 1.171    | 1.151  | -       | 1.7   | 20     | 107   | 0        |
| Carbazole                  | 1.117    | 1.087  | -       | 2.7   | 20     | 106   | 0        |
| Di-n-butylphthalate        | 1.358    | 1.393  | -       | -2.6  | 20     | 106   | 0        |
| Fluoranthene               | 1.294    | 1.243  | -       | 3.9   | 20     | 105   | 0        |
| Benzidine                  | 0.895    | 0.825  | -       | 7.8   | 20     | 98    | 0        |
| Pyrene                     | 1.368    | 1.312  | -       | 4.1   | 20     | 105   | 0        |
| 4-Terphenyl-d14            | 1.114    | 0.854  | -       | 23.3* | 20     | 83    | 0        |
| Butyl benzyl phthalate     | 0.622    | 0.65   | -       | -4.5  | 20     | 106   | 0        |
| IS1_Chrysene-d12           | 1        | 1      | -       | 0     | 20     | 112   | 0        |
| Benzo(a)anthracene         | 1.319    | 1.195  | -       | 9.4   | 20     | 103   | 0        |
| 3,3'-Dichlorobenzidine     | 0.518    | 0.524  | -       | -1.2  | 20     | 110   | 0        |
| Chrysene                   | 1.313    | 1.16   | -       | 11.7  | 20     | 102   | 0        |
| Bis(2-ethylhexyl)phthalate | 0.949    | 0.946  | -       | 0.3   | 20     | 101   | 0        |
| Di-n-octylphthalate        | 1.676    | 1.701  | -       | -1.5  | 20     | 106   | 0        |
| Benzo(b)fluoranthene       | 1.381    | 1.207  | -       | 12.6  | 20     | 98    | 0        |
| Benzo(k)fluoranthene       | 1.37     | 1.344  | -       | 1.9   | 20     | 111   | 0        |
| Benzo(a)pyrene             | 1.333    | 1.201  | -       | 9.9   | 20     | 99    | 0        |
| IS1_Perylene-d12           | 1        | 1      | -       | 0     | 20     | 103   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Instrument ID</b> : BUFFY<br><b>Lab File ID</b> : ABN1223N<br><b>Sample No</b> : WG1324233-3<br><b>Channel</b> : | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Calibration Date</b> : 12/23/19 23:08<br><b>Init. Calib. Date(s)</b> : 10/06/19      10/07/19<br><b>Init. Calib. Times</b> : 18:00      11:31 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound               | Ave. RRF | RRF   | Min RRF | %D   | Max %D | Area% | Dev(min) |
|------------------------|----------|-------|---------|------|--------|-------|----------|
| Indeno(1,2,3-cd)pyrene | 1.107    | 1.109 | -       | -0.2 | 20     | 101   | 0        |
| Dibenzo(a,h)anthracene | 1.11     | 1.196 | -       | -7.7 | 20     | 110   | 0        |
| Benzo(ghi)perylene     | 1.159    | 1.215 | -       | -4.8 | 20     | 107   | 0        |

---

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : BUFFY  
 Lab File ID : AP91223N  
 Sample No : WG1324233-4  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/23/19 23:31  
 Init. Calib. Date(s) : 10/06/19 10/07/19  
 Init. Calib. Times : 18:00 11:31

| Compound                   | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|-------|--------|-------|----------|
| IS2_1,4-Dichlorobenzene-d4 | 1        | 1     | -       | 0     | 20     | 154   | 0        |
| Benzaldehyde               | 1.217    | 1.188 | -       | 2.4   | 20     | 160   | 0        |
| Acetophenone               | 1.935    | 1.881 | -       | 2.8   | 20     | 160   | 0        |
| m-Toluidine                | 1.988    | 2.039 | -       | -2.6  | 20     | 166   | 0        |
| 2-Chloroaniline            | 1.857    | 1.909 | -       | -2.8  | 20     | 168   | 0        |
| IS2_Naphthalene-d8         | 1        | 1     | -       | 0     | 20     | 152   | 0        |
| a-Terpineol                | 0.249    | 0.265 | -       | -6.4  | 20     | 173   | 0        |
| 3-Chloroaniline            | 0.132    | 0.128 | -       | 3     | 20     | 159   | 0        |
| 2,6-Dichlorophenol         | 0.294    | 0.308 | -       | -4.8  | 20     | 166   | 0        |
| 1-chloro-2-nitrobenzene    | 0.136    | 0.143 | -       | -5.1  | 20     | 169   | 0        |
| Caprolactam                | 0.143    | 0.155 | -       | -8.4  | 20     | 171   | 0        |
| 1,2,4,5-Tetrachlorobenzene | 0.321    | 0.289 | -       | 10    | 20     | 147   | 0        |
| Biphenyl                   | 0.873    | 0.837 | -       | 4.1   | 20     | 157   | 0        |
| IS2_Acenaphthene-d10       | 1        | 1     | -       | 0     | 20     | 151   | 0        |
| Dichloran                  | 0.169    | 0.188 | -       | -11.2 | 20     | 171   | 0        |
| Pentachloronitrobenzene    | 0.157    | 0.161 | -       | -2.5  | 20     | 154   | 0        |
| IS2_Phenanthrene-d10       | 1        | 1     | -       | 0     | 20     | 142   | 0        |
| Diphenamid                 | 0.553    | 0.561 | -       | -1.4  | 20     | 148   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Instrument ID</b> : BUFFY<br><b>Lab File ID</b> : ADP1223N<br><b>Sample No</b> : WG1324233-5<br><b>Channel</b> : | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Calibration Date</b> : 12/23/19 23:54<br><b>Init. Calib. Date(s)</b> : 10/06/19      10/07/19<br><b>Init. Calib. Times</b> : 18:00      11:31 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound                   | Ave. RRF | RRF   | Min RRF | %D   | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|------|--------|-------|----------|
| IS3_1,4-Dichlorobenzene-d4 | 1        | 1     | -       | 0    | 20     | 107   | 0        |
| 1,4-Dioxane                | 0.52     | 0.457 | -       | 12.1 | 20     | 99    | 0        |
| n-Decane                   | 1.328    | 1.293 | -       | 2.6  | 20     | 110   | 0        |
| IS3_Acenaphthene-d10       | 1        | 1     | -       | 0    | 20     | 105   | 0        |
| Atrazine                   | 0.36     | 0.34  | -       | 5.6  | 20     | 98    | 0        |
| IS3_Phenanthrene-d10       | 1        | 1     | -       | 0    | 20     | 104   | 0        |
| n-Octadecane               | 0.434    | 0.455 | -       | -4.8 | 20     | 107   | 0        |
| Parathion                  | 0.126    | 0.16  | -       | -27* | 20     | 128   | 0        |
| 3,3'-Dimethylbenzidine     | 0.783    | 0.747 | -       | 4.6  | 20     | 96    | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Lab File ID : ABN1223N  
 Sample No : WG1324236-3  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/24/19 00:38  
 Init. Calib. Date(s) : 06/09/19 06/10/19  
 Init. Calib. Times : 14:39 04:22

| Compound                   | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|--------|--------|-------|----------|
| IS1_1,4-Dichlorobenzene-d4 | 1        | 1      | -       | 0      | 20     | 117   | 0        |
| n-Nitrosodimethylamine     | 0.714    | 0.755  | -       | -5.7   | 20     | 125   | 0        |
| Pyridine                   | 1.267    | 1.171  | -       | 7.6    | 20     | 107   | 0        |
| 2-Fluorophenol             | 1.106    | 1.205  | -       | -9     | 20     | 127   | 0        |
| Aniline                    | 1.797    | 1.823  | -       | -1.4   | 20     | 123   | 0        |
| 2-Chlorophenol             | 1.244    | 1.361  | -       | -9.4   | 20     | 127   | 0        |
| Phenol-d6                  | 1.339    | 1.451  | -       | -8.4   | 20     | 128   | 0        |
| Phenol                     | 1.568    | 1.483  | -       | 5.4    | 20     | 112   | 0        |
| Bis(2-chloroethyl)ether    | 1.062    | 0.987  | -       | 7.1    | 20     | 113   | 0        |
| 1,3-Dichlorobenzene        | 1.524    | 1.52   | -       | 0.3    | 20     | 122   | 0        |
| 1,4-Dichlorobenzene        | 1.528    | 1.541  | -       | -0.9   | 20     | 123   | 0        |
| 1,2-Dichlorobenzene        | 1.426    | 1.483  | -       | -4     | 20     | 125   | 0        |
| Benzyl alcohol             | 0.914    | 0.899  | -       | 1.6    | 20     | 112   | 0        |
| Bis(2-chloroisopropyl)ethe | 1.856    | 1.439  | -       | 22.5*  | 20     | 94    | 0        |
| 2-Methylphenol             | 1.072    | 1.11   | -       | -3.5   | 20     | 117   | 0        |
| Hexachloroethane           | 0.577    | 0.548  | -       | 5      | 20     | 112   | 0        |
| n-Nitrosodi-n-propylamine  | 0.824    | 0.771  | -       | 6.4    | 20     | 105   | 0        |
| 3-Methylphenol/4-Methylphe | 1.162    | 1.167  | -       | -0.4   | 20     | 115   | 0        |
| Nitrobenzene-d5            | 1.2      | 1.18   | -       | 1.7    | 20     | 110   | 0        |
| Nitrobenzene               | 1.231    | 1.148  | -       | 6.7    | 20     | 107   | 0        |
| Isophorone                 | 2.161    | 2.074  | -       | 4      | 20     | 110   | 0        |
| 2-Nitrophenol              | 0.646    | 0.757  | -       | -17.2  | 20     | 133   | 0        |
| 2,4-Dimethylphenol         | 1.2      | 0.932  | -       | 22.3*  | 20     | 88    | 0        |
| Bis(2-chloroethoxy)methane | 1.48     | 1.357  | -       | 8.3    | 20     | 110   | 0        |
| 2,4-Dichlorophenol         | 1.192    | 1.263  | -       | -6     | 20     | 117   | 0        |
| 1,2,4-Trichlorobenzene     | 1.424    | 1.367  | -       | 4      | 20     | 117   | 0        |
| IS1_Naphthalene-d8         | 1        | 1      | -       | 0      | 20     | 115   | 0        |
| Naphthalene                | 1.015    | 1.015  | -       | 0      | 20     | 119   | 0        |
| Benzoic Acid               | 50       | 56.165 | -       | -12.3  | 20     | 131   | 0        |
| 4-Chloroaniline            | 0.125    | 0.104  | -       | 16.8   | 20     | 99    | 0        |
| Hexachlorobutadiene        | 0.22     | 0.212  | -       | 3.6    | 20     | 113   | 0        |
| p-Chloro-m-cresol          | 0.281    | 0.289  | -       | -2.8   | 20     | 109   | 0        |
| 2-Methylnaphthalene        | 0.739    | 0.727  | -       | 1.6    | 20     | 114   | 0        |
| 1-Methylnaphthalene        | 0.244    | 0.204  | -       | 16.4   | 20     | 100   | 0        |
| Hexachlorocyclopentadiene  | 0.277    | 0.258  | -       | 6.9    | 20     | 102   | 0        |
| 2,4,6-Trichlorophenol      | 0.249    | 0.274  | -       | -10    | 20     | 120   | 0        |
| 2,4,5-Trichlorophenol      | 0.264    | 0.292  | -       | -10.6  | 20     | 120   | 0        |
| 2-Fluorobiphenyl           | 0.862    | 0.818  | -       | 5.1    | 20     | 113   | 0        |
| 2-Chloronaphthalene        | 0.747    | 0.718  | -       | 3.9    | 20     | 113   | 0        |
| 2-Nitroaniline             | 0.223    | 0.265  | -       | -18.8  | 20     | 127   | 0        |
| 1,4-Dinitrobenzene         | 0.093    | 0.112  | -       | -20.4* | 20     | 128   | 0        |
| 1,3-Dinitrobenzene         | 0.104    | 0.123  | -       | -18.3  | 20     | 131   | 0        |
| Dimethyl phthalate         | 0.844    | 0.84   | -       | 0.5    | 20     | 116   | 0        |

\* Value outside of QC limits.





# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Lab File ID : ABN1223N  
 Sample No : WG1324236-3  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/24/19 00:38  
 Init. Calib. Date(s) : 06/09/19 06/10/19  
 Init. Calib. Times : 14:39 04:22

| Compound                   | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|--------|--------|-------|----------|
| Acenaphthylene             | 1.151    | 1.136  | -       | 1.3    | 20     | 115   | 0        |
| 2,6-Dinitrotoluene         | 0.174    | 0.196  | -       | -12.6  | 20     | 122   | 0        |
| 1,2-Dinitrobenzene         | 0.063    | 0.067  | -       | -6.3   | 20     | 121   | 0        |
| IS1_Acenaphthene-d10       | 1        | 1      | -       | 0      | 20     | 113   | 0        |
| 3-Nitroaniline             | 0.338    | 0.381  | -       | -12.7  | 20     | 121   | 0        |
| Acenaphthene               | 1.168    | 1.124  | -       | 3.8    | 20     | 117   | 0        |
| 2,4-Dinitrophenol          | 50       | 61.803 | -       | -23.6* | 20     | 148   | 0        |
| Dibenzofuran               | 1.763    | 1.779  | -       | -0.9   | 20     | 121   | 0        |
| 2,4-Dinitrotoluene         | 0.38     | 0.444  | -       | -16.8  | 20     | 125   | 0        |
| 4-Nitrophenol              | 0.241    | 0.235  | -       | 2.5    | 20     | 105   | 0        |
| 2,3,5,6-Tetrachlorophenol  | 0.403    | 0.482  | -       | -19.6  | 20     | 130   | 0        |
| 2,3,4,6-Tetrachlorophenol  | 0.431    | 0.481  | -       | -11.6  | 20     | 125   | 0        |
| Diethyl phthalate          | 1.438    | 1.414  | -       | 1.7    | 20     | 113   | 0        |
| Fluorene                   | 1.4      | 1.409  | -       | -0.6   | 20     | 115   | 0        |
| 4-Chlorophenyl phenyl ethe | 0.714    | 0.672  | -       | 5.9    | 20     | 111   | 0        |
| 4-Nitroaniline             | 0.363    | 0.389  | -       | -7.2   | 20     | 116   | 0        |
| 4,6-Dinitro-o-cresol       | 0.221    | 0.32   | -       | -44.8* | 20     | 152   | 0        |
| NDPA/DPA                   | 1.194    | 1.195  | -       | -0.1   | 20     | 117   | 0        |
| Azobenzene                 | 1.279    | 1.117  | -       | 12.7   | 20     | 100   | 0        |
| 2,4,6-Tribromophenol       | 0.264    | 0.333  | -       | -26.1* | 20     | 135   | 0        |
| 4-Bromophenyl phenyl ether | 0.461    | 0.493  | -       | -6.9   | 20     | 122   | 0        |
| Hexachlorobenzene          | 0.547    | 0.605  | -       | -10.6  | 20     | 131   | 0        |
| Pentachlorophenol          | 50       | 58.493 | -       | -17    | 20     | 135   | 0        |
| IS1_Phenanthrene-d10       | 1        | 1      | -       | 0      | 20     | 123   | 0        |
| Phenanthrene               | 1.139    | 1.033  | -       | 9.3    | 20     | 119   | 0        |
| Anthracene                 | 1.119    | 1.057  | -       | 5.5    | 20     | 117   | 0        |
| Carbazole                  | 1.03     | 1.026  | -       | 0.4    | 20     | 121   | 0        |
| Di-n-butylphthalate        | 1.124    | 1.17   | -       | -4.1   | 20     | 115   | 0        |
| Fluoranthene               | 1.328    | 1.3    | -       | 2.1    | 20     | 119   | 0        |
| Benzidine                  | 0.814    | 0.838  | -       | -2.9   | 20     | 114   | 0        |
| Pyrene                     | 1.434    | 1.336  | -       | 6.8    | 20     | 114   | 0        |
| 4-Terphenyl-d14            | 0.89     | 0.879  | -       | 1.2    | 20     | 120   | 0        |
| Butyl benzyl phthalate     | 0.531    | 0.577  | -       | -8.7   | 20     | 120   | 0        |
| IS1_Chrysene-d12           | 1        | 1      | -       | 0      | 20     | 130   | 0        |
| Benzo(a)anthracene         | 1.244    | 1.248  | -       | -0.3   | 20     | 132   | 0        |
| 3,3'-Dichlorobenzidine     | 0.468    | 0.52   | -       | -11.1  | 20     | 132   | 0        |
| Chrysene                   | 1.327    | 1.131  | -       | 14.8   | 20     | 118   | 0        |
| Bis(2-ethylhexyl)phthalate | 50       | 46.174 | -       | 7.7    | 20     | 114   | 0        |
| Di-n-octylphthalate        | 1.272    | 1.324  | -       | -4.1   | 20     | 122   | 0        |
| Benzo(b)fluoranthene       | 1.365    | 1.478  | -       | -8.3   | 20     | 143   | 0        |
| Benzo(k)fluoranthene       | 1.286    | 1.062  | -       | 17.4   | 20     | 102   | 0        |
| Benzo(a)pyrene             | 1.301    | 1.226  | -       | 5.8    | 20     | 121   | 0        |
| IS1_Perylene-d12           | 1        | 1      | -       | 0      | 20     | 124   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Instrument ID</b> : GCMS5<br><b>Lab File ID</b> : ABN1223N<br><b>Sample No</b> : WG1324236-3<br><b>Channel</b> : | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Calibration Date</b> : 12/24/19 00:38<br><b>Init. Calib. Date(s)</b> : 06/09/19      06/10/19<br><b>Init. Calib. Times</b> : 14:39      04:22 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound               | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|------------------------|----------|-------|---------|-------|--------|-------|----------|
| Indeno(1,2,3-cd)pyrene | 1.053    | 1.202 | -       | -14.2 | 20     | 136   | 0        |
| Dibenzo(a,h)anthracene | 1.035    | 1.133 | -       | -9.5  | 20     | 131   | 0        |
| Benzo(ghi)perylene     | 1.126    | 1.211 | -       | -7.5  | 20     | 129   | 0        |

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\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : GCMS5  
 Lab File ID : AP91223N  
 Sample No : WG1324236-4  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/24/19 01:01  
 Init. Calib. Date(s) : 06/09/19 06/10/19  
 Init. Calib. Times : 14:39 04:22

| Compound                   | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|--------|--------|-------|----------|
| IS2_1,4-Dichlorobenzene-d4 | 1        | 1      | -       | 0      | 20     | 126   | 0        |
| Benzaldehyde               | 0.853    | 1.054  | -       | -23.6* | 20     | 144   | 0        |
| Acetophenone               | 1.611    | 1.68   | -       | -4.3   | 20     | 125   | 0        |
| m-Toluidine                | 1.43     | 1.732  | -       | -21.1* | 20     | 134   | 0        |
| 2-Chloroaniline            | 1.515    | 1.661  | -       | -9.6   | 20     | 131   | 0        |
| IS2_Naphthalene-d8         | 1        | 1      | -       | 0      | 20     | 120   | 0        |
| a-Terpineol                | 0.233    | 0.231  | -       | 0.9    | 20     | 107   | 0        |
| 3-Chloroaniline            | 0.126    | 0.116  | -       | 7.9    | 20     | 108   | 0        |
| 2,6-Dichlorophenol         | 0.289    | 0.338  | -       | -17    | 20     | 127   | 0        |
| 1-chloro-2-nitrobenzene    | 0.127    | 0.138  | -       | -8.7   | 20     | 120   | 0        |
| Caprolactam                | 0.142    | 0.142  | -       | 0      | 20     | 112   | 0        |
| 1,2,4,5-Tetrachlorobenzene | 0.391    | 0.408  | -       | -4.3   | 20     | 124   | 0        |
| Biphenyl                   | 0.845    | 0.858  | -       | -1.5   | 20     | 122   | 0        |
| IS2_Acenaphthene-d10       | 1        | 1      | -       | 0      | 20     | 112   | 0        |
| Dichloran                  | 50       | 61.929 | -       | -23.9* | 20     | 142   | 0        |
| Pentachloronitrobenzene    | 0.183    | 0.198  | -       | -8.2   | 20     | 116   | 0        |
| IS2_Phenanthrene-d10       | 1        | 1      | -       | 0      | 20     | 116   | 0        |
| Diphenamid                 | 0.454    | 0.496  | -       | -9.3   | 20     | 117   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Instrument ID</b> : GCMS5<br><b>Lab File ID</b> : ADP1223N<br><b>Sample No</b> : WG1324236-5<br><b>Channel</b> : | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Calibration Date</b> : 12/24/19 01:23<br><b>Init. Calib. Date(s)</b> : 06/09/19      06/10/19<br><b>Init. Calib. Times</b> : 14:39      04:22 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound                   | Ave. RRF | RRF    | Min RRF | %D   | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|------|--------|-------|----------|
| IS3_1,4-Dichlorobenzene-d4 | 1        | 1      | -       | 0    | 20     | 130   | 0        |
| 1,4-Dioxane                | 0.423    | 0.464  | -       | -9.7 | 20     | 140   | 0        |
| n-Decane                   | 1.099    | 0.891  | -       | 18.9 | 20     | 105   | 0        |
| IS3_Acenaphthene-d10       | 1        | 1      | -       | 0    | 20     | 124   | 0        |
| Atrazine                   | 50       | 53.07  | -       | -6.1 | 20     | 130   | 0        |
| IS3_Phenanthrene-d10       | 1        | 1      | -       | 0    | 20     | 127   | 0        |
| n-Octadecane               | 0.358    | 0.29   | -       | 19   | 20     | 93    | 0        |
| Parathion                  | 50       | 54.592 | -       | -9.2 | 20     | 139   | 0        |
| 3,3'-Dimethylbenzidine     | 50       | 53.583 | -       | -7.2 | 20     | 131   | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Lab File ID : ABN1226  
 Sample No : WG1324867-3  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/26/19 09:52  
 Init. Calib. Date(s) : 12/01/19 12/02/19  
 Init. Calib. Times : 11:31 00:25

| Compound                   | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|-------|--------|-------|----------|
| IS1_1,4-Dichlorobenzene-d4 | 1        | 1     | -       | 0     | 20     | 82    | 0        |
| n-Nitrosodimethylamine     | 0.731    | 0.704 | -       | 3.7   | 20     | 76    | 0        |
| Pyridine                   | 1.183    | 1.118 | -       | 5.5   | 20     | 75    | 0        |
| 2-Fluorophenol             | 1.075    | 1.204 | -       | -12   | 20     | 85    | 0        |
| Aniline                    | 1.865    | 1.845 | -       | 1.1   | 20     | 79    | 0        |
| 2-Chlorophenol             | 1.241    | 1.417 | -       | -14.2 | 20     | 87    | 0        |
| Phenol-d6                  | 1.348    | 1.488 | -       | -10.4 | 20     | 82    | 0        |
| Phenol                     | 1.515    | 1.508 | -       | 0.5   | 20     | 79    | 0        |
| Bis(2-chloroethyl)ether    | 1.119    | 1.181 | -       | -5.5  | 20     | 82    | 0        |
| 1,3-Dichlorobenzene        | 1.46     | 1.597 | -       | -9.4  | 20     | 89    | 0        |
| 1,4-Dichlorobenzene        | 1.496    | 1.611 | -       | -7.7  | 20     | 89    | 0        |
| 1,2-Dichlorobenzene        | 1.451    | 1.55  | -       | -6.8  | 20     | 88    | 0        |
| Benzyl alcohol             | 0.976    | 1.026 | -       | -5.1  | 20     | 81    | 0        |
| Bis(2-chloroisopropyl)ethe | 2.503    | 2.219 | -       | 11.3  | 20     | 73    | 0        |
| 2-Methylphenol             | 1.182    | 1.185 | -       | -0.3  | 20     | 80    | 0        |
| Hexachloroethane           | 0.599    | 0.62  | -       | -3.5  | 20     | 86    | 0        |
| n-Nitrosodi-n-propylamine  | 0.916    | 0.916 | -       | 0     | 20     | 78    | 0        |
| 3-Methylphenol/4-Methylphe | 1.24     | 1.248 | -       | -0.6  | 20     | 80    | 0        |
| Nitrobenzene-d5            | 1.224    | 1.349 | -       | -10.2 | 20     | 83    | 0        |
| Nitrobenzene               | 1.328    | 1.373 | -       | -3.4  | 20     | 82    | 0        |
| Isophorone                 | 2.442    | 2.514 | -       | -2.9  | 20     | 81    | 0        |
| 2-Nitrophenol              | 0.708    | 0.786 | -       | -11   | 20     | 89    | 0        |
| 2,4-Dimethylphenol         | 1.236    | 1.314 | -       | -6.3  | 20     | 84    | 0        |
| Bis(2-chloroethoxy)methane | 1.491    | 1.544 | -       | -3.6  | 20     | 80    | 0        |
| 2,4-Dichlorophenol         | 1.156    | 1.231 | -       | -6.5  | 20     | 85    | 0        |
| 1,2,4-Trichlorobenzene     | 1.261    | 1.345 | -       | -6.7  | 20     | 87    | 0        |
| IS1_Naphthalene-d8         | 1        | 1     | -       | 0     | 20     | 82    | 0        |
| Naphthalene                | 0.977    | 1.022 | -       | -4.6  | 20     | 86    | 0        |
| Benzoic Acid               | 0.22     | 0.248 | -       | -12.7 | 20     | 91    | 0        |
| 4-Chloroaniline            | 0.117    | 0.12  | -       | -2.6  | 20     | 83    | 0        |
| Hexachlorobutadiene        | 0.166    | 0.171 | -       | -3    | 20     | 81    | 0        |
| p-Chloro-m-cresol          | 0.27     | 0.288 | -       | -6.7  | 20     | 85    | 0        |
| 2-Methylnaphthalene        | 0.678    | 0.703 | -       | -3.7  | 20     | 85    | 0        |
| 1-Methylnaphthalene        | 0.215    | 0.228 | -       | -6    | 20     | 88    | 0        |
| Hexachlorocyclopentadiene  | 0.182    | 0.156 | -       | 14.3  | 20     | 69    | 0        |
| 2,4,6-Trichlorophenol      | 0.202    | 0.221 | -       | -9.4  | 20     | 89    | 0        |
| 2,4,5-Trichlorophenol      | 0.216    | 0.232 | -       | -7.4  | 20     | 88    | 0        |
| 2-Fluorobiphenyl           | 0.709    | 0.779 | -       | -9.9  | 20     | 85    | 0        |
| 2-Chloronaphthalene        | 0.624    | 0.673 | -       | -7.9  | 20     | 88    | 0        |
| 2-Nitroaniline             | 0.211    | 0.235 | -       | -11.4 | 20     | 89    | 0        |
| 1,4-Dinitrobenzene         | 0.099    | 0.108 | -       | -9.1  | 20     | 91    | 0        |
| 1,3-Dinitrobenzene         | 0.111    | 0.122 | -       | -9.9  | 20     | 88    | 0        |
| Dimethyl phthalate         | 0.768    | 0.81  | -       | -5.5  | 20     | 88    | 0        |

\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Lab File ID : ABN1226  
 Sample No : WG1324867-3  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/26/19 09:52  
 Init. Calib. Date(s) : 12/01/19 12/02/19  
 Init. Calib. Times : 11:31 00:25

| Compound                   | Ave. RRF | RRF    | Min RRF | %D     | Max %D | Area% | Dev(min) |
|----------------------------|----------|--------|---------|--------|--------|-------|----------|
| Acenaphthylene             | 1.05     | 1.103  | -       | -5     | 20     | 88    | 0        |
| 2,6-Dinitrotoluene         | 0.166    | 0.187  | -       | -12.7  | 20     | 90    | 0        |
| 1,2-Dinitrobenzene         | 0.073    | 0.078  | -       | -6.8   | 20     | 88    | 0        |
| IS1_Acenaphthene-d10       | 1        | 1      | -       | 0      | 20     | 80    | 0        |
| 3-Nitroaniline             | 0.311    | 0.358  | -       | -15.1  | 20     | 92    | 0        |
| Acenaphthene               | 1.084    | 1.141  | -       | -5.3   | 20     | 85    | 0        |
| 2,4-Dinitrophenol          | 50       | 45.956 | -       | 8.1    | 20     | 76    | 0        |
| Dibenzofuran               | 1.601    | 1.769  | -       | -10.5  | 20     | 88    | 0        |
| 2,4-Dinitrotoluene         | 0.384    | 0.443  | -       | -15.4  | 20     | 90    | 0        |
| 4-Nitrophenol              | 0.23     | 0.248  | -       | -7.8   | 20     | 87    | 0        |
| 2,3,5,6-Tetrachlorophenol  | 0.307    | 0.324  | -       | -5.5   | 20     | 83    | 0        |
| 2,3,4,6-Tetrachlorophenol  | 0.319    | 0.331  | -       | -3.8   | 20     | 82    | 0        |
| Diethyl phthalate          | 1.372    | 1.543  | -       | -12.5  | 20     | 90    | 0        |
| Fluorene                   | 1.313    | 1.393  | -       | -6.1   | 20     | 85    | 0        |
| 4-Chlorophenyl phenyl ethe | 0.617    | 0.659  | -       | -6.8   | 20     | 86    | 0        |
| 4-Nitroaniline             | 0.302    | 0.35   | -       | -15.9  | 20     | 92    | 0        |
| 4,6-Dinitro-o-cresol       | 0.23     | 0.261  | -       | -13.5  | 20     | 86    | 0        |
| NDPA/DPA                   | 1.051    | 1.223  | -       | -16.4  | 20     | 87    | 0        |
| Azobenzene                 | 1.242    | 1.37   | -       | -10.3  | 20     | 86    | 0        |
| 2,4,6-Tribromophenol       | 0.182    | 0.193  | -       | -6     | 20     | 84    | 0        |
| 4-Bromophenyl phenyl ether | 0.342    | 0.362  | -       | -5.8   | 20     | 84    | 0        |
| Hexachlorobenzene          | 0.383    | 0.412  | -       | -7.6   | 20     | 85    | 0        |
| Pentachlorophenol          | 0.178    | 0.21   | -       | -18    | 20     | 81    | 0        |
| IS1_Phenanthrene-d10       | 1        | 1      | -       | 0      | 20     | 83    | 0        |
| Phenanthrene               | 1.036    | 1.086  | -       | -4.8   | 20     | 87    | 0        |
| Anthracene                 | 1.045    | 1.126  | -       | -7.8   | 20     | 86    | 0        |
| Carbazole                  | 0.944    | 1.021  | -       | -8.2   | 20     | 86    | 0        |
| Di-n-butylphthalate        | 1.214    | 1.414  | -       | -16.5  | 20     | 92    | 0        |
| Fluoranthene               | 1.14     | 1.221  | -       | -7.1   | 20     | 87    | 0        |
| Benzidine                  | 0.754    | 0.859  | -       | -13.9  | 20     | 88    | 0        |
| Pyrene                     | 1.199    | 1.279  | -       | -6.7   | 20     | 88    | 0        |
| 4-Terphenyl-d14            | 0.692    | 0.792  | -       | -14.5  | 20     | 88    | 0        |
| Butyl benzyl phthalate     | 0.538    | 0.643  | -       | -19.5  | 20     | 94    | 0        |
| IS1_Chrysene-d12           | 1        | 1      | -       | 0      | 20     | 87    | 0        |
| Benzo(a)anthracene         | 1.174    | 1.26   | -       | -7.3   | 20     | 90    | 0        |
| 3,3'-Dichlorobenzidine     | 0.446    | 0.498  | -       | -11.7  | 20     | 88    | 0        |
| Chrysene                   | 1.204    | 1.247  | -       | -3.6   | 20     | 90    | 0        |
| Bis(2-ethylhexyl)phthalate | 0.901    | 1.084  | -       | -20.3* | 20     | 94    | 0        |
| Di-n-octylphthalate        | 1.566    | 1.865  | -       | -19.1  | 20     | 95    | 0        |
| Benzo(b)fluoranthene       | 1.072    | 1.21   | -       | -12.9  | 20     | 92    | 0        |
| Benzo(k)fluoranthene       | 1.116    | 1.272  | -       | -14    | 20     | 91    | 0        |
| Benzo(a)pyrene             | 1.01     | 1.14   | -       | -12.9  | 20     | 92    | 0        |
| IS1_Perylene-d12           | 1        | 1      | -       | 0      | 20     | 84    | 0        |

\* Value outside of QC limits.



**Calibration Verification Summary**  
**Form 7**  
**Semivolatiles**

|               |                             |                      |                     |
|---------------|-----------------------------|----------------------|---------------------|
| Client        | : LaBella Associates, P.C.  | Lab Number           | : L1961284          |
| Project Name  | : FORMER WOLLENSACK OPTICAL | Project Number       | : 2182207           |
| Instrument ID | : SV103                     | Calibration Date     | : 12/26/19 09:52    |
| Lab File ID   | : ABN1226                   | Init. Calib. Date(s) | : 12/01/19 12/02/19 |
| Sample No     | : WG1324867-3               | Init. Calib. Times   | : 11:31 00:25       |
| Channel       | :                           |                      |                     |

| Compound               | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|------------------------|----------|-------|---------|-------|--------|-------|----------|
| Indeno(1,2,3-cd)pyrene | 0.958    | 1.077 | -       | -12.4 | 20     | 93    | 0        |
| Dibenzo(a,h)anthracene | 0.923    | 1.07  | -       | -15.9 | 20     | 91    | 0        |
| Benzo(ghi)perylene     | 1.046    | 1.157 | -       | -10.6 | 20     | 91    | 0        |

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\* Value outside of QC limits.



# Calibration Verification Summary

## Form 7

### Semivolatiles

Client : LaBella Associates, P.C.  
 Project Name : FORMER WOLLENSACK OPTICAL  
 Instrument ID : SV103  
 Lab File ID : AP91226  
 Sample No : WG1324867-4  
 Channel :

Lab Number : L1961284  
 Project Number : 2182207  
 Calibration Date : 12/26/19 10:17  
 Init. Calib. Date(s) : 12/01/19 12/02/19  
 Init. Calib. Times : 11:31 00:25

| Compound                   | Ave. RRF | RRF   | Min RRF | %D   | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|------|--------|-------|----------|
| IS2_1,4-Dichlorobenzene-d4 | 1        | 1     | -       | 0    | 20     | 76    | 0        |
| Benzaldehyde               | 1.048    | 1.122 | -       | -7.1 | 20     | 78    | 0        |
| Acetophenone               | 1.807    | 1.941 | -       | -7.4 | 20     | 77    | 0        |
| m-Toluidine                | 1.911    | 2.025 | -       | -6   | 20     | 78    | 0        |
| 2-Chloroaniline            | 1.744    | 1.877 | -       | -7.6 | 20     | 80    | 0        |
| IS2_Naphthalene-d8         | 1        | 1     | -       | 0    | 20     | 77    | 0        |
| a-Terpineol                | 0.363    | 0.315 | -       | 13.2 | 20     | 66    | 0        |
| 3-Chloroaniline            | 0.136    | 0.145 | -       | -6.6 | 20     | 79    | 0        |
| 2,6-Dichlorophenol         | 0.297    | 0.308 | -       | -3.7 | 20     | 78    | 0        |
| 1-chloro-2-nitrobenzene    | 0.141    | 0.144 | -       | -2.1 | 20     | 78    | 0        |
| Caprolactam                | 0.215    | 0.176 | -       | 18.1 | 20     | 61    | 0        |
| 1,2,4,5-Tetrachlorobenzene | 0.329    | 0.327 | -       | 0.6  | 20     | 76    | 0        |
| Biphenyl                   | 0.851    | 0.875 | -       | -2.8 | 20     | 77    | 0        |
| IS2_Acenaphthene-d10       | 1        | 1     | -       | 0    | 20     | 74    | 0        |
| Dichloran                  | 0.184    | 0.19  | -       | -3.3 | 20     | 76    | 0        |
| Pentachloronitrobenzene    | 0.168    | 0.164 | -       | 2.4  | 20     | 70    | 0        |
| IS2_Phenanthrene-d10       | 1        | 1     | -       | 0    | 20     | 74    | 0        |
| Diphenamid                 | 0.537    | 0.564 | -       | -5   | 20     | 77    | 0        |

\* Value outside of QC limits.





# Calibration Verification Summary

## Form 7

### Semivolatiles

|                                                                                                                                                                                                                   |                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : LaBella Associates, P.C.<br><b>Project Name</b> : FORMER WOLLENSACK OPTICAL<br><b>Instrument ID</b> : SV103<br><b>Lab File ID</b> : ADP1226<br><b>Sample No</b> : WG1324867-5<br><b>Channel</b> : | <b>Lab Number</b> : L1961284<br><b>Project Number</b> : 2182207<br><b>Calibration Date</b> : 12/26/19 10:41<br><b>Init. Calib. Date(s)</b> : 12/01/19      12/02/19<br><b>Init. Calib. Times</b> : 11:31      00:25 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Compound                   | Ave. RRF | RRF   | Min RRF | %D    | Max %D | Area% | Dev(min) |
|----------------------------|----------|-------|---------|-------|--------|-------|----------|
| IS3_1,4-Dichlorobenzene-d4 | 1        | 1     | -       | 0     | 20     | 89    | 0        |
| 1,4-Dioxane                | 0.537    | 0.454 | -       | 15.5  | 20     | 77    | 0        |
| n-Decane                   | 1.852    | 1.454 | -       | 21.5* | 20     | 70    | 0        |
| IS3_Acenaphthene-d10       | 1        | 1     | -       | 0     | 20     | 83    | 0        |
| Atrazine                   | 0.371    | 0.359 | -       | 3.2   | 20     | 79    | 0        |
| IS3_Phenanthrene-d10       | 1        | 1     | -       | 0     | 20     | 81    | 0        |
| n-Octadecane               | 0.579    | 0.51  | -       | 11.9  | 20     | 69    | 0        |
| Parathion                  | 0.136    | 0.151 | -       | -11   | 20     | 88    | 0        |
| 3,3'-Dimethylbenzidine     | 0.699    | 0.777 | -       | -11.2 | 20     | 85    | 0        |

\* Value outside of QC limits.



# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191223n\  
 Data File : ABN1223n.D  
 Acq On : 23 Dec 2019 11:08 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324233,,ical16199  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 23 23:42:39 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|----------|--------|-------|-------|----------|
| 1 I  | IS1_1,4-Dichlorobenzene-d4  | 1.000    | 1.000  | 0.0   | 123   | 0.00     |
| 2 t  | n-Nitrosodimethylamine      | 0.773    | 0.680  | 12.0  | 113   | 0.00     |
| 3 t  | Pyridine                    | 1.313    | 1.194  | 9.1   | 117   | 0.00     |
| 4 S  | 2-Fluorophenol              | 1.298    | 1.277  | 1.6   | 123   | 0.00     |
| 5 T  | Aniline                     | 2.067    | 1.957  | 5.3   | 120   | 0.00     |
| 6 t  | 2-Chlorophenol              | 1.430    | 1.457  | -1.9  | 127   | 0.00     |
| 7 S  | Phenol-d6                   | 1.545    | 1.585  | -2.6  | 130   | 0.00     |
| 8 T  | Phenol                      | 1.784    | 1.717  | 3.8   | 121   | 0.00     |
| 9 T  | Bis(2-chloroethyl)ether     | 1.253    | 1.192  | 4.9   | 124   | 0.00     |
| 10 T | 1,3-Dichlorobenzene         | 1.607    | 1.562  | 2.8   | 123   | 0.00     |
| 11 T | 1,4-Dichlorobenzene         | 1.660    | 1.614  | 2.8   | 125   | 0.00     |
| 12 T | 1,2-Dichlorobenzene         | 1.604    | 1.513  | 5.7   | 123   | 0.00     |
| 13 t | Benzyl alcohol              | 1.026    | 0.973  | 5.2   | 120   | 0.00     |
| 14 T | Bis(2-chloroisopropyl)ether | 1.715    | 1.958  | -14.2 | 145   | 0.00     |
| 15 T | 2-Methylphenol              | 1.258    | 1.208  | 4.0   | 121   | 0.00     |
| 16 T | Hexachloroethane            | 0.630    | 0.612  | 2.9   | 125   | 0.00     |
| 17 T | n-Nitrosodi-n-propylamine   | 0.886    | 0.807  | 8.9   | 114   | 0.00     |
| 18 T | 3-Methylphenol/4-Methylphen | 1.325    | 1.289  | 2.7   | 121   | 0.00     |
| 19 S | Nitrobenzene-d5             | * 50.000 | 38.698 | 22.6# | 98    | 0.00     |
| 20 T | Nitrobenzene                | 1.329    | 1.239  | 6.8   | 117   | 0.00     |
| 21 T | Isophorone                  | 2.469    | 2.349  | 4.9   | 119   | 0.00     |
| 22 T | 2-Nitrophenol               | 0.680    | 0.778  | -14.4 | 133   | 0.00     |
| 23 T | 2,4-Dimethylphenol          | 1.317    | 1.037  | 21.3# | 100   | 0.00     |
| 24 T | Bis(2-chloroethoxy)methane  | 1.662    | 1.486  | 10.6  | 112   | 0.00     |
| 25 T | 2,4-Dichlorophenol          | 1.194    | 1.194  | 0.0   | 121   | 0.00     |
| 26 T | 1,2,4-Trichlorobenzene      | 1.310    | 1.221  | 6.8   | 120   | 0.00     |
| 35 I | IS1_Naphthalene-d8          | 1.000    | 1.000  | 0.0   | 120   | 0.00     |
| 36 T | Naphthalene                 | 1.088    | 1.058  | 2.8   | 119   | 0.00     |
| 37 T | Benzoic Acid                | * 50.000 | 50.207 | -0.4  | 126   | 0.00     |
| 38 T | 4-Chloroaniline             | 0.113    | 0.103  | 8.8   | 113   | 0.00     |
| 39 T | Hexachlorobutadiene         | 0.175    | 0.156  | 10.9  | 113   | 0.00     |
| 40 T | p-Chloro-m-cresol           | 0.286    | 0.281  | 1.7   | 116   | 0.00     |
| 41 T | 2-Methylnaphthalene         | 0.720    | 0.705  | 2.1   | 118   | 0.00     |
| 42 T | 1-Methylnaphthalene         | 0.214    | 0.212  | 0.9   | 123   | 0.00     |
| 43 T | Hexachlorocyclopentadiene   | 0.220    | 0.140  | 36.4# | 75    | 0.00     |
| 44 T | 2,4,6-Trichlorophenol       | 0.212    | 0.195  | 8.0   | 108   | 0.00     |
| 45 T | 2,4,5-Trichlorophenol       | 0.224    | 0.217  | 3.1   | 113   | 0.00     |
| 46 S | 2-Fluorobiphenyl            | 0.978    | 0.738  | 24.5# | 93    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191223n\  
 Data File : ABN1223n.D  
 Acq On : 23 Dec 2019 11:08 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324233,,ical16199  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 23 23:42:39 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|----------|--------|-------|-------|----------|
| 47 T | 2-Chloronaphthalene         | 0.686    | 0.633  | 7.7   | 112   | 0.00     |
| 48 T | 2-Nitroaniline              | 0.225    | 0.239  | -6.2  | 121   | 0.00     |
| 49 T | 1,4-Dinitrobenzene          | 0.093    | 0.098  | -5.4  | 122   | 0.00     |
| 50 T | 1,3-Dinitrobenzene          | 0.110    | 0.110  | 0.0   | 117   | 0.00     |
| 51 T | Dimethyl phthalate          | 0.807    | 0.757  | 6.2   | 110   | 0.00     |
| 52 T | Acenaphthylene              | 1.118    | 1.084  | 3.0   | 114   | 0.00     |
| 53 T | 2,6-Dinitrotoluene          | 0.169    | 0.172  | -1.8  | 114   | 0.00     |
| 54 T | 1,2-Dinitrobenzene          | 0.067    | 0.071  | -6.0  | 120   | 0.00     |
| 63 I | IS1_Acenaphthene-d10        | 1.000    | 1.000  | 0.0   | 112   | 0.00     |
| 64 T | 3-Nitroaniline              | 0.365    | 0.382  | -4.7  | 113   | 0.00     |
| 65 T | Acenaphthene                | 1.220    | 1.156  | 5.2   | 112   | 0.00     |
| 66 T | 2,4-Dinitrophenol           | * 50.000 | 51.479 | -3.0  | 125   | 0.00     |
| 67 T | Dibenzofuran                | 1.832    | 1.740  | 5.0   | 110   | 0.00     |
| 68 T | 2,4-Dinitrotoluene          | 0.401    | 0.436  | -8.7  | 115   | 0.00     |
| 69 T | 4-Nitrophenol               | 0.243    | 0.253  | -4.1  | 116   | 0.00     |
| 70 T | 2,3,5,6-Tetrachlorophenol   | 0.351    | 0.313  | 10.8  | 99    | 0.00     |
| 71 T | 2,3,4,6-Tetrachlorophenol   | 0.357    | 0.335  | 6.2   | 106   | 0.00     |
| 72 T | Diethyl phthalate           | 1.530    | 1.446  | 5.5   | 107   | 0.00     |
| 73 T | Fluorene                    | 1.471    | 1.409  | 4.2   | 109   | 0.00     |
| 74 T | 4-Chlorophenyl phenyl ether | 0.673    | 0.613  | 8.9   | 104   | 0.00     |
| 75 T | 4-Nitroaniline              | 0.415    | 0.379  | 8.7   | 97    | 0.00     |
| 76 T | 4,6-Dinitro-o-cresol        | * 50.000 | 50.195 | -0.4  | 118   | 0.00     |
| 77 T | NDPA/DPA                    | 1.272    | 1.209  | 5.0   | 109   | 0.00     |
| 78 T | Azobenzene                  | 1.363    | 1.244  | 8.7   | 104   | 0.00     |
| 79 S | 2,4,6-Tribromophenol        | 0.234    | 0.254  | -8.5  | 117   | 0.00     |
| 80 T | 4-Bromophenyl phenyl ether  | 0.409    | 0.382  | 6.6   | 104   | 0.00     |
| 81 T | Hexachlorobenzene           | 0.491    | 0.475  | 3.3   | 112   | 0.00     |
| 82 T | Pentachlorophenol           | 0.292    | 0.244  | 16.4  | 87    | 0.00     |
| 88 I | IS1_Phenanthrene-d10        | 1.000    | 1.000  | 0.0   | 107   | 0.00     |
| 89 T | Phenanthrene                | 1.169    | 1.092  | 6.6   | 105   | 0.00     |
| 90 T | Anthracene                  | 1.171    | 1.151  | 1.7   | 107   | 0.00     |
| 91 T | Carbazole                   | 1.117    | 1.087  | 2.7   | 106   | 0.00     |
| 92 T | Di-n-butylphthalate         | 1.358    | 1.393  | -2.6  | 106   | 0.00     |
| 93 T | Fluoranthene                | 1.294    | 1.243  | 3.9   | 105   | 0.00     |
| 94 T | Benzidine                   | 0.895    | 0.825  | 7.8   | 98    | 0.00     |
| 95 T | Pyrene                      | 1.368    | 1.312  | 4.1   | 105   | 0.00     |
| 96 S | 4-Terphenyl-d14             | 1.114    | 0.854  | 23.3# | 83    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191223n\  
 Data File : ABN1223n.D  
 Acq On : 23 Dec 2019 11:08 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324233,,ical16199  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 23 23:42:39 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| 97 T  | Butyl benzyl phthalate     | 0.622 | 0.650 | -4.5 | 106   | 0.00     |
| 104 I | IS1_Chrysene-d12           | 1.000 | 1.000 | 0.0  | 112   | 0.00     |
| 105 T | Benzo(a)anthracene         | 1.319 | 1.195 | 9.4  | 103   | 0.00     |
| 106 T | 3,3'-Dichlorobenzidine     | 0.518 | 0.524 | -1.2 | 110   | 0.00     |
| 107 T | Chrysene                   | 1.313 | 1.160 | 11.7 | 102   | 0.00     |
| 108 T | Bis(2-ethylhexyl)phthalate | 0.949 | 0.946 | 0.3  | 101   | 0.00     |
| 109 T | Di-n-octylphthalate        | 1.676 | 1.701 | -1.5 | 106   | 0.00     |
| 110 T | Benzo(b)fluoranthene       | 1.381 | 1.207 | 12.6 | 98    | 0.00     |
| 111 T | Benzo(k)fluoranthene       | 1.370 | 1.344 | 1.9  | 111   | 0.00     |
| 112 T | Benzo(a)pyrene             | 1.333 | 1.201 | 9.9  | 99    | 0.00     |
| 113 I | IS1_Perylene-d12           | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 114 T | Indeno(1,2,3-cd)pyrene     | 1.107 | 1.109 | -0.2 | 101   | 0.00     |
| 115 T | Dibenzo(a,h)anthracene     | 1.110 | 1.196 | -7.7 | 110   | 0.00     |
| 116 T | Benzo(ghi)perylene         | 1.159 | 1.215 | -4.8 | 107   | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : ABN1223n.D  
 Acq On : 23 Dec 2019 11:08 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324233,,ical16199  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 23 23:42:39 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| -----                         |        |                |          |        |          |          |
| Internal Standards            |        |                |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.990  | 152            | 159664   | 40.000 | ug/ml    | 0.00     |
| 35) IS1_Naphthalene-d8        | 5.059  | 136            | 632580   | 40.000 | ug/ml    | 0.00     |
| 63) IS1_Acenaphthene-d10      | 6.564  | 164            | 336073   | 40.000 | ug/ml    | # 0.00   |
| 88) IS1_Phenanthrene-d10      | 7.839  | 188            | 621349   | 40.000 | ug/ml    | 0.00     |
| 104) IS1_Chrysene-d12         | 10.406 | 240            | 640997   | 40.000 | ug/ml    | 0.00     |
| 113) IS1_Perylene-d12         | 12.492 | 264            | 708691   | 40.000 | ug/ml    | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 4) 2-Fluorophenol             | 2.933  | 112            | 254794   | 49.189 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 98.38%   |          |
| 7) Phenol-d6                  | 3.720  | 99             | 316412   | 51.296 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 102.59%  |          |
| 19) Nitrobenzene-d5           | 4.454  | 82             | 253473   | 38.698 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 154.79%# |          |
| 46) 2-Fluorobiphenyl          | 6.000  | 172            | 583204   | 37.709 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 150.84%# |          |
| 79) 2,4,6-Tribromophenol      | 7.245  | 330            | 106668   | 54.325 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 108.65%  |          |
| 96) 4-Terphenyl-d14           | 9.255  | 244            | 663116   | 38.318 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 153.27%# |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        | Qvalue   |          |
| 2) n-Nitrosodimethylamine     | 1.851  | 74             | 135664   | 43.992 | ug/ml#   | 58       |
| 3) Pyridine                   | 1.875  | 79             | 238386   | 45.478 | ug/ml#   | 68       |
| 5) Aniline                    | 3.720  | 93             | 390517   | 47.341 | ug/ml    | 98       |
| 6) 2-Chlorophenol             | 3.814  | 128            | 290763   | 50.946 | ug/ml    | 95       |
| 8) Phenol                     | 3.732  | 94             | 342731   | 48.126 | ug/ml    | 98       |
| 9) Bis(2-chloroethyl)ether    | 3.785  | 93             | 237885   | 47.557 | ug/ml    | 92       |
| 10) 1,3-Dichlorobenzene       | 3.937  | 146            | 311752   | 48.608 | ug/ml    | 93       |
| 11) 1,4-Dichlorobenzene       | 4.002  | 146            | 322071   | 48.611 | ug/ml    | 94       |
| 12) 1,2-Dichlorobenzene       | 4.125  | 146            | 301922   | 47.149 | ug/ml#   | 94       |
| 13) Benzyl alcohol            | 4.119  | 79             | 194191   | 47.434 | ug/ml    | 95       |
| 14) Bis(2-chloroisopropyl)... | 4.237  | 45             | 390839   | 57.108 | ug/ml#   | 79       |
| 15) 2-Methylphenol            | 4.231  | 108            | 241109   | 48.019 | ug/ml    | 98       |
| 16) Hexachloroethane          | 4.407  | 117            | 122186   | 48.598 | ug/ml#   | 68       |
| 17) n-Nitrosodi-n-propylamine | 4.343  | 70             | 160994   | 45.532 | ug/ml    | 99       |
| 18) 3-Methylphenol/4-Methy... | 4.366  | 108            | 257168   | 48.613 | ug/ml    | 97       |
| 20) Nitrobenzene              | 4.472  | 77             | 247229   | 46.618 | ug/ml    | 91       |
| 21) Isophorone                | 4.678  | 82             | 468742   | 47.572 | ug/ml    | 98       |
| 22) 2-Nitrophenol             | 4.742  | 139            | 155185   | 57.139 | ug/ml    | 89       |

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Data Path : I:\8270\Buffy\191223n\  
 Data File : ABN1223n.D  
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 Operator : Buffy:jg  
 Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324233,,ical16199  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 23 23:42:39 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 23) | 2,4-Dimethylphenol        | 4.807 | 107  | 207015   | 39.368 | ug/ml  | 91       |
| 24) | Bis(2-chloroethoxy)met... | 4.877 | 93   | 296669   | 44.714 | ug/ml# | 97       |
| 25) | 2,4-Dichlorophenol        | 4.960 | 162  | 238299   | 49.994 | ug/ml# | 92       |
| 26) | 1,2,4-Trichlorobenzene    | 5.018 | 180  | 243730   | 46.594 | ug/ml  | 98       |
| 36) | Naphthalene               | 5.077 | 128  | 836318   | 48.596 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 4.924 | 105  | 197768   | 50.207 | ug/ml  | 91       |
| 38) | 4-Chloroaniline           | 5.136 | 65   | 81688    | 45.715 | ug/ml  | 74       |
| 39) | Hexachlorobutadiene       | 5.201 | 225  | 123159   | 44.552 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.577 | 107  | 222348   | 49.096 | ug/ml  | 89       |
| 41) | 2-Methylnaphthalene       | 5.676 | 142  | 557664   | 48.956 | ug/ml  | 93       |
| 42) | 1-Methylnaphthalene       | 5.759 | 115  | 167847   | 49.573 | ug/ml# | 61       |
| 43) | Hexachlorocyclopentadiene | 5.823 | 237  | 110940   | 31.956 | ug/ml  | 99       |
| 44) | 2,4,6-Trichlorophenol     | 5.929 | 196  | 154161   | 45.983 | ug/ml  | 100      |
| 45) | 2,4,5-Trichlorophenol     | 5.958 | 196  | 171428   | 48.437 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.088 | 162  | 500683   | 46.173 | ug/ml  | 96       |
| 48) | 2-Nitroaniline            | 6.188 | 138  | 189259   | 53.098 | ug/ml# | 84       |
| 49) | 1,4-Dinitrobenzene        | 6.311 | 168  | 77501    | 52.905 | ug/ml  | 79       |
| 50) | 1,3-Dinitrobenzene        | 6.382 | 168  | 86613    | 49.991 | ug/ml# | 72       |
| 51) | Dimethyl phthalate        | 6.364 | 163  | 598553   | 46.923 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.440 | 152  | 857186   | 48.473 | ug/ml  | 100      |
| 53) | 2,6-Dinitrotoluene        | 6.405 | 165  | 135665   | 50.821 | ug/ml# | 79       |
| 54) | 1,2-Dinitrobenzene        | 6.446 | 168  | 55762    | 52.905 | ug/ml  | 83       |
| 64) | 3-Nitroaniline            | 6.546 | 138  | 160626   | 52.356 | ug/ml# | 77       |
| 65) | Acenaphthene              | 6.593 | 154  | 485827   | 47.379 | ug/ml  | 94       |
| 66) | 2,4-Dinitrophenol         | 6.640 | 184  | 75884    | 51.479 | ug/ml# | 84       |
| 67) | Dibenzofuran              | 6.746 | 168  | 731018   | 47.501 | ug/ml# | 79       |
| 68) | 2,4-Dinitrotoluene        | 6.752 | 165  | 183182   | 54.402 | ug/ml# | 79       |
| 69) | 4-Nitrophenol             | 6.722 | 65   | 106390   | 52.201 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.828 | 232  | 131609   | 44.657 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.863 | 232  | 140603   | 46.898 | ug/ml  | 100      |
| 72) | Diethyl phthalate         | 6.975 | 149  | 607368   | 47.243 | ug/ml  | 98       |
| 73) | Fluorene                  | 7.040 | 166  | 591797   | 47.868 | ug/ml  | 93       |
| 74) | 4-Chlorophenyl phenyl ... | 7.051 | 204  | 257589   | 45.578 | ug/ml  | 89       |
| 75) | 4-Nitroaniline            | 7.069 | 138  | 159189   | 45.660 | ug/ml  | 89       |
| 76) | 4,6-Dinitro-o-cresol      | 7.104 | 198  | 104825   | 50.195 | ug/ml# | 86       |
| 77) | NDPA/DPA                  | 7.157 | 169  | 508100   | 47.555 | ug/ml  | 97       |
| 78) | Azobenzene                | 7.186 | 77   | 522731   | 45.641 | ug/ml# | 91       |
| 80) | 4-Bromophenyl phenyl e... | 7.468 | 248  | 160412   | 46.686 | ug/ml# | 89       |
| 81) | Hexachlorobenzene         | 7.515 | 284  | 199497   | 48.341 | ug/ml# | 88       |
| 82) | Pentachlorophenol         | 7.692 | 266  | 102599   | 41.801 | ug/ml  | 98       |
| 89) | Phenanthrene              | 7.856 | 178  | 847869   | 46.675 | ug/ml  | 100      |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
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 Operator : Buffy:jg  
 Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324233,,ical16199  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Mon Dec 23 23:42:39 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 90)  | Anthracene                | 7.903  | 178  | 893581   | 49.104 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.050  | 167  | 843951   | 48.661 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.385  | 149  | 1081749  | 51.294 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 8.884  | 202  | 965154   | 48.030 | ug/ml# | 90       |
| 94)  | Benazidine                | 9.020  | 184  | 640758   | 46.103 | ug/ml# | 91       |
| 95)  | Pyrene                    | 9.078  | 202  | 1018925  | 47.939 | ug/ml  | 100      |
| 97)  | Butyl benzyl phthalate    | 9.783  | 149  | 504738   | 52.206 | ug/ml# | 80       |
| 105) | Benzo(a)anthracene        | 10.395 | 228  | 957782   | 45.304 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.395 | 252  | 419543   | 50.535 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.442 | 228  | 929137   | 44.171 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.541 | 149  | 758332   | 49.843 | ug/ml# | 94       |
| 109) | Di-n-octylphthalate       | 11.499 | 149  | 1363122  | 50.750 | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 11.916 | 252  | 967342   | 43.706 | ug/ml# | 95       |
| 111) | Benzo(k)fluoranthene      | 11.957 | 252  | 1076618  | 49.041 | ug/ml# | 95       |
| 112) | Benzo(a)pyrene            | 12.398 | 252  | 961909   | 45.036 | ug/ml# | 94       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.155 | 276  | 982409   | 50.104 | ug/mL# | 90       |
| 115) | Dibenzo(a,h)anthracene    | 14.214 | 278  | 1059826  | 53.895 | ug/ml# | 92       |
| 116) | Benzo(ghi)perylene        | 14.554 | 276  | 1075913  | 52.386 | ug/ml# | 77       |

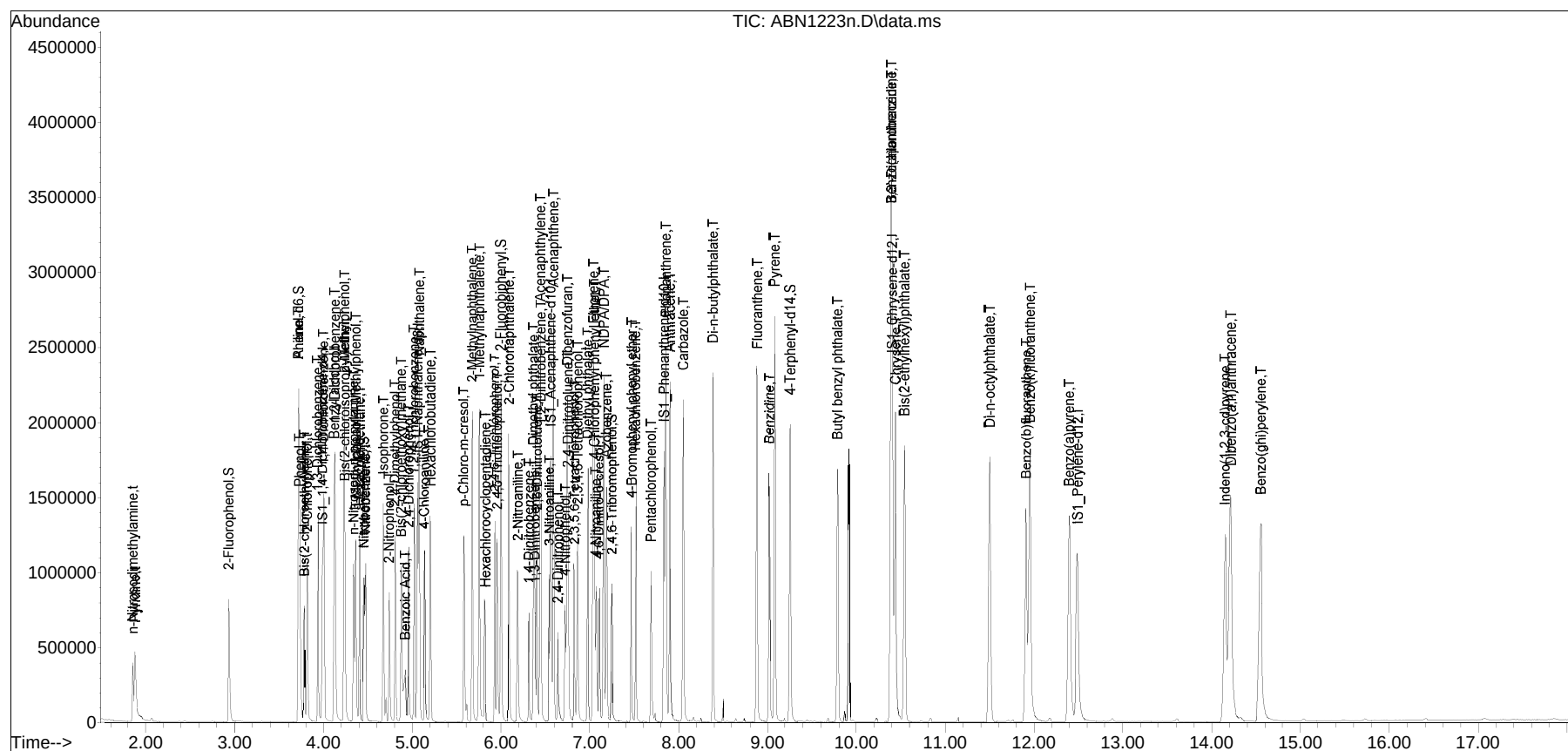
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

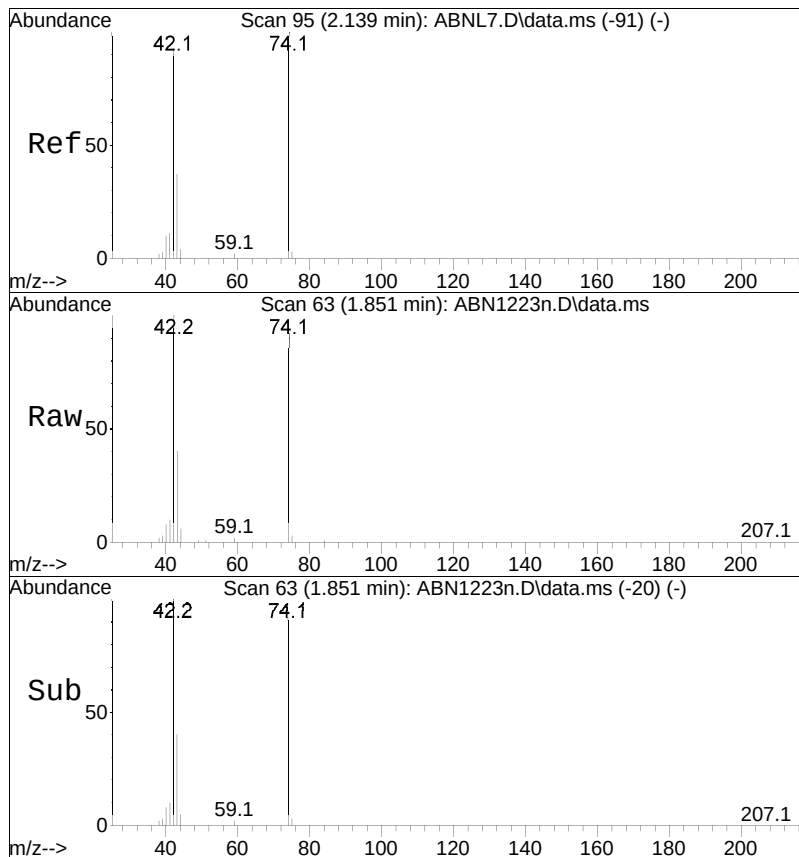
Data Path : I:\8270\Buffy\191223n\  
Data File : ABN1223n.D  
Acq On : 23 Dec 2019 11:08 pm  
Operator : Buffy:jg  
Sample : wg1324233-3,32,,ABN CCV Lot # 8524  
Misc : wg1324233,,ical16199  
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 23 23:43:05 2019  
Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Mon Dec 23 23:42:39 2019  
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

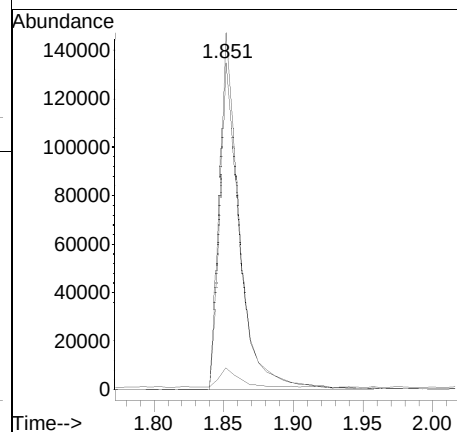


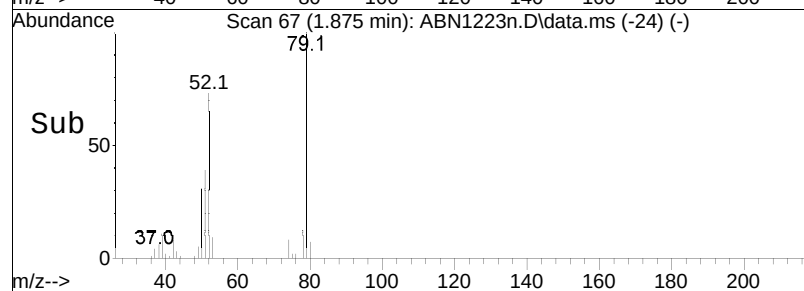
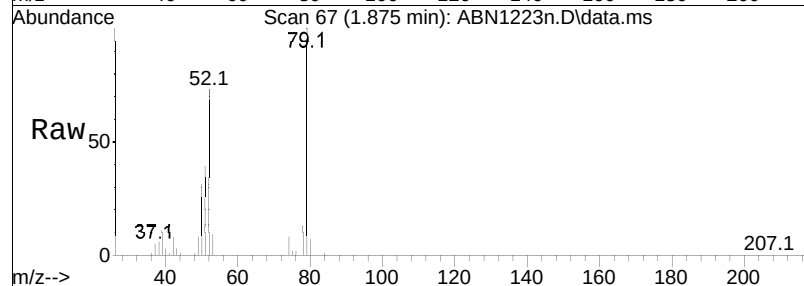
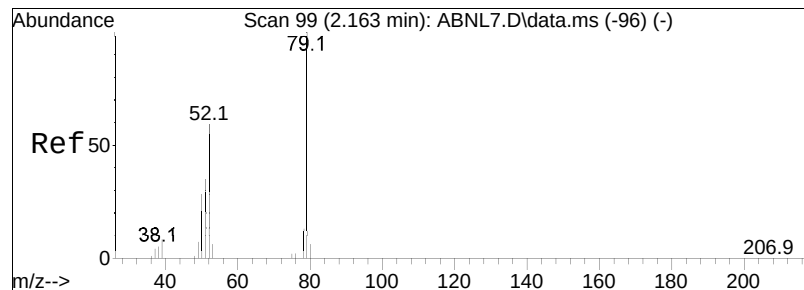




#2  
 n-Nitrosodimethylamine  
 Concen: 43.99 ug/ml  
 RT: 1.851 min Scan# 63  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

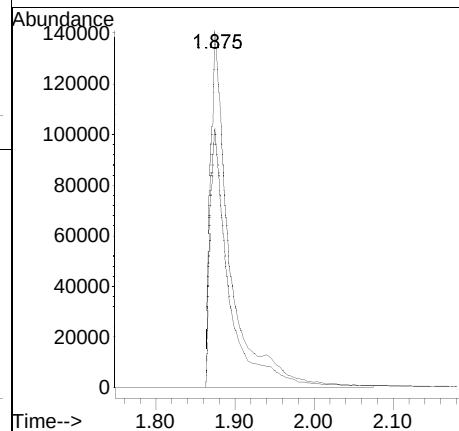
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 74    | Resp: | 135664 |
| Ion Ratio | Lower | Upper |        |
| 74        | 100   |       |        |
| 42        | 108.8 | 57.8  | 86.6#  |
| 44        | 5.7   | 3.2   | 4.8#   |

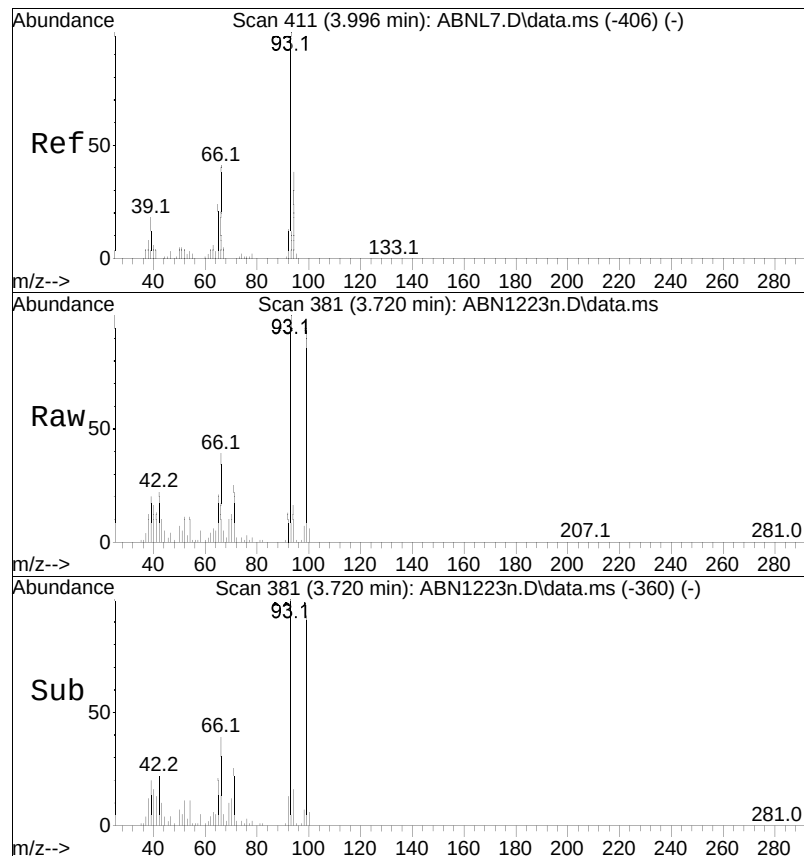




#3  
 Pyridine  
 Concen: 45.48 ug/ml  
 RT: 1.875 min Scan# 67  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

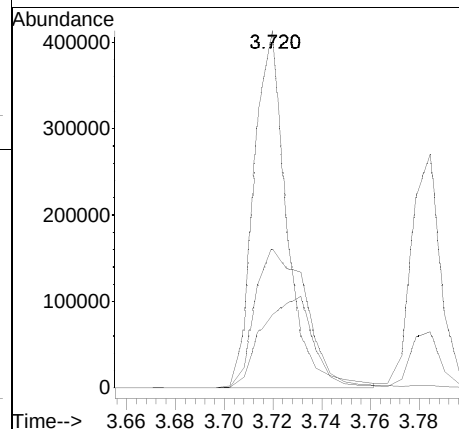
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 72.6  | 40.4  | 60.6  |

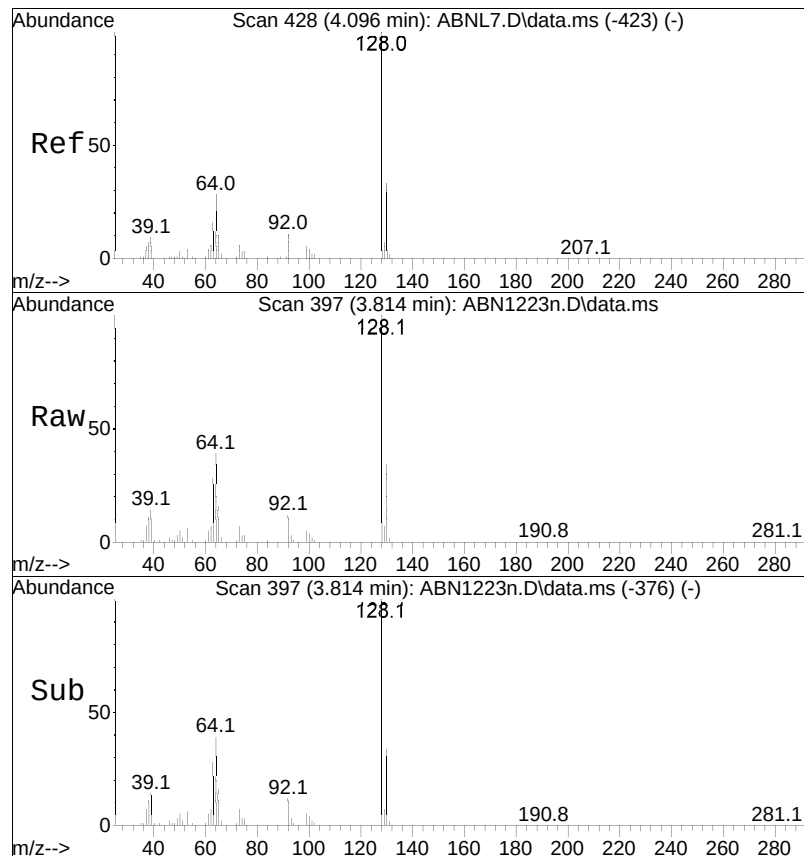




#5  
 Aniline  
 Concen: 47.34 ug/ml  
 RT: 3.720 min Scan# 381  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

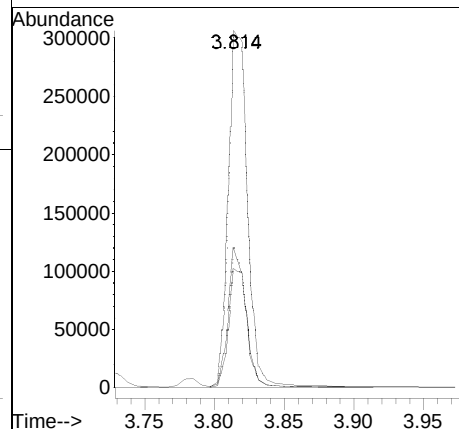
| Tgt Ion:  | 93    | Resp: | 390517 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 66        | 60.4  | 47.2  | 70.8   |
| 65        | 39.0  | 29.7  | 44.5   |

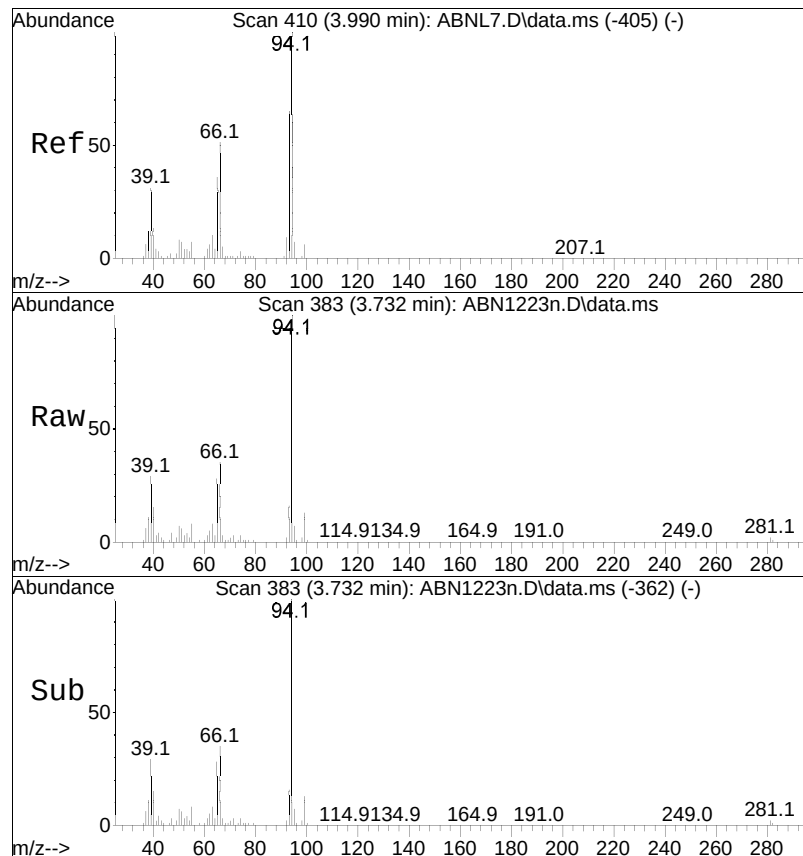




#6  
 2-Chlorophenol  
 Concen: 50.95 ug/ml  
 RT: 3.814 min Scan# 397  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

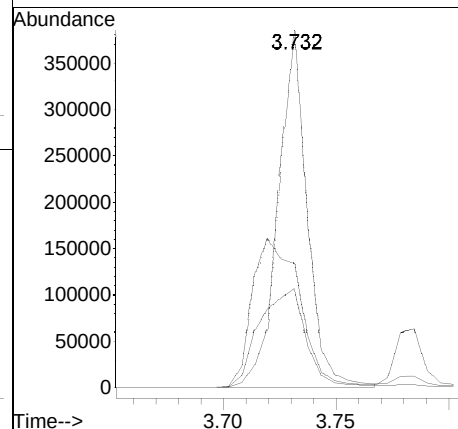
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 290763 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 64        | 36.1  | 32.7  | 49.1   |
| 130       | 33.4  | 26.4  | 39.6   |

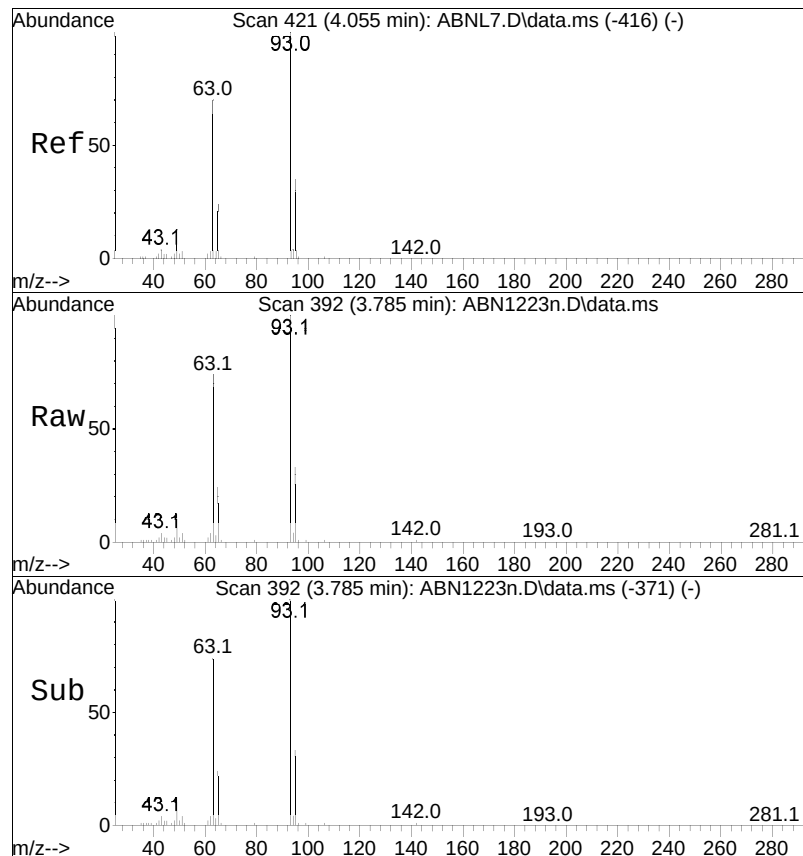




#8  
 Phenol  
 Concen: 48.13 ug/ml  
 RT: 3.732 min Scan# 383  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

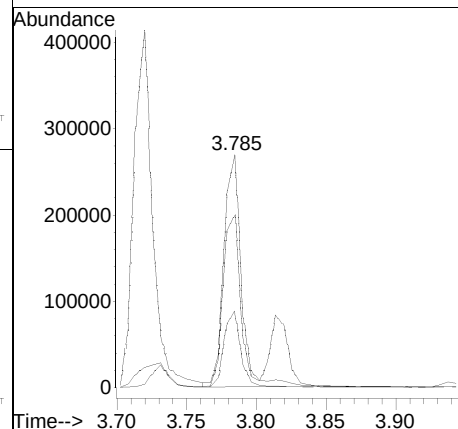
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 44.5  | 34.2  | 51.4  |
| 66      | 68.8  | 54.4  | 81.6  |

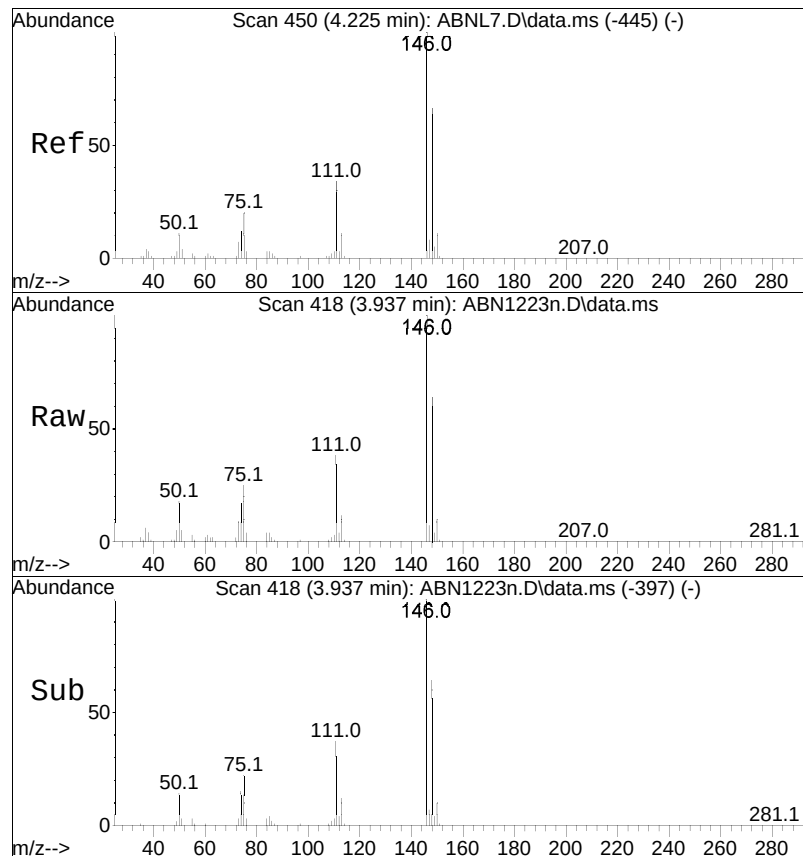




#9  
 Bis(2-chloroethyl)ether  
 Concen: 47.56 ug/ml  
 RT: 3.785 min Scan# 392  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

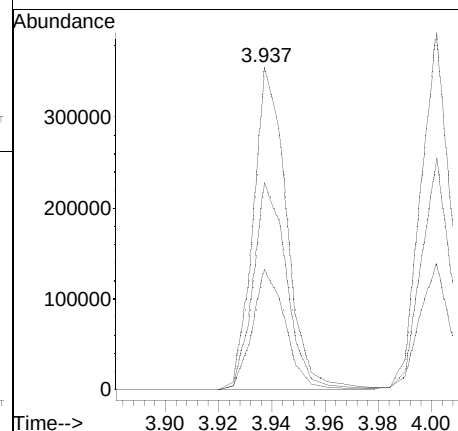
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 237885 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 73.1  | 51.7  | 77.5   |
| 95        | 31.2  | 26.1  | 39.1   |

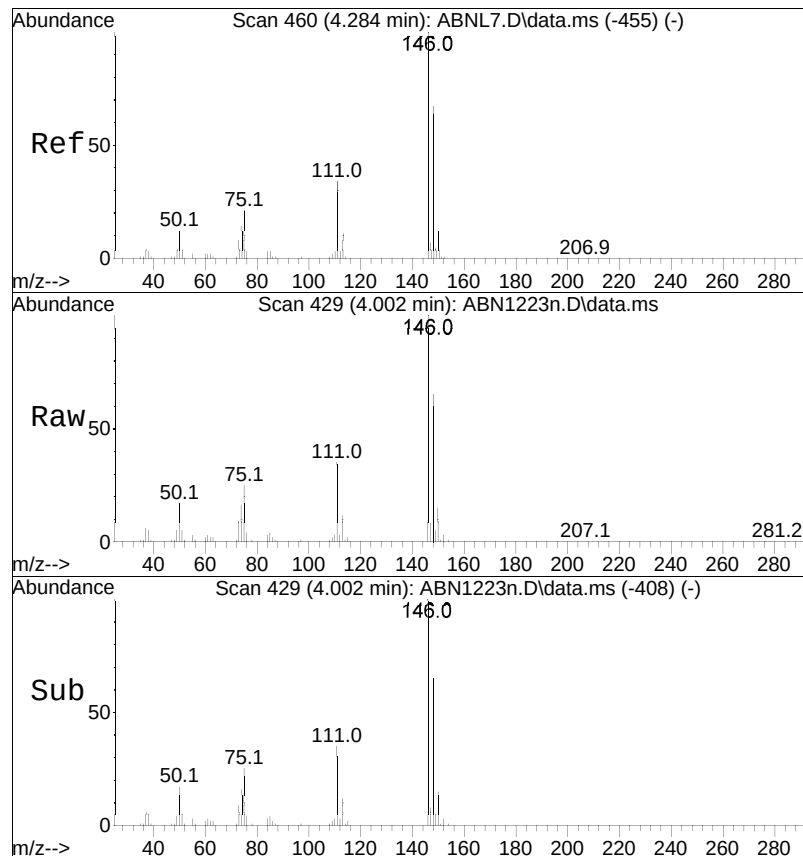




#10  
 1,3-Dichlorobenzene  
 Concen: 48.61 ug/ml  
 RT: 3.937 min Scan# 418  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

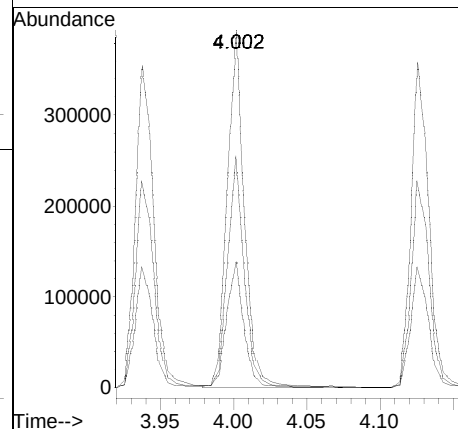
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.8  | 36.0  | 54.0  |
| 148     | 64.4  | 49.8  | 74.6  |



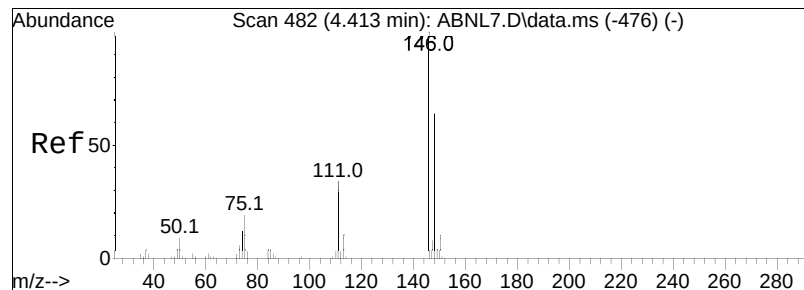


#11  
 1,4-Dichlorobenzene  
 Concen: 48.61 ug/ml  
 RT: 4.002 min Scan# 429  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 322071 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 63.9  | 50.7  | 76.1   |
| 111       | 35.9  | 35.8  | 53.6   |

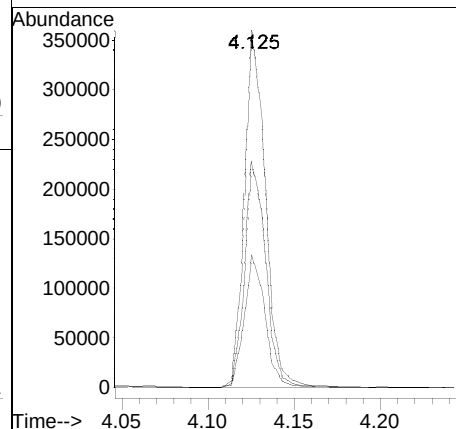
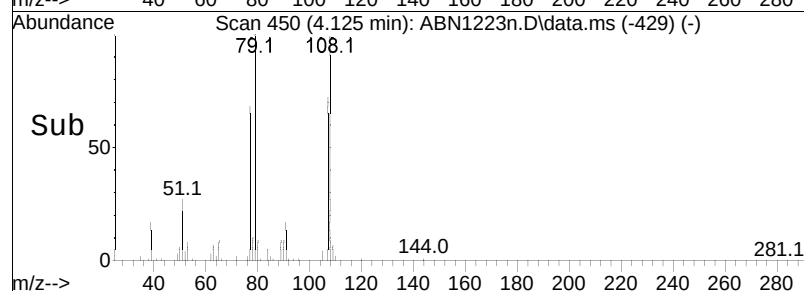
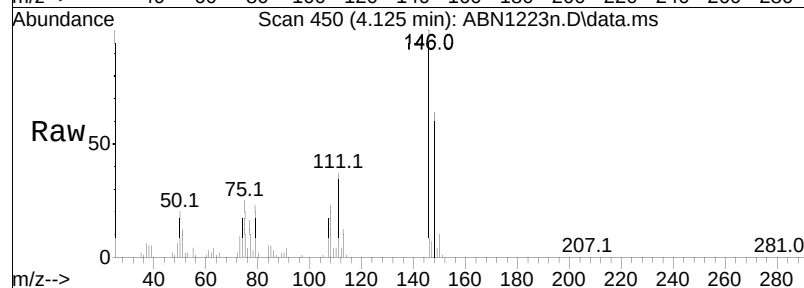


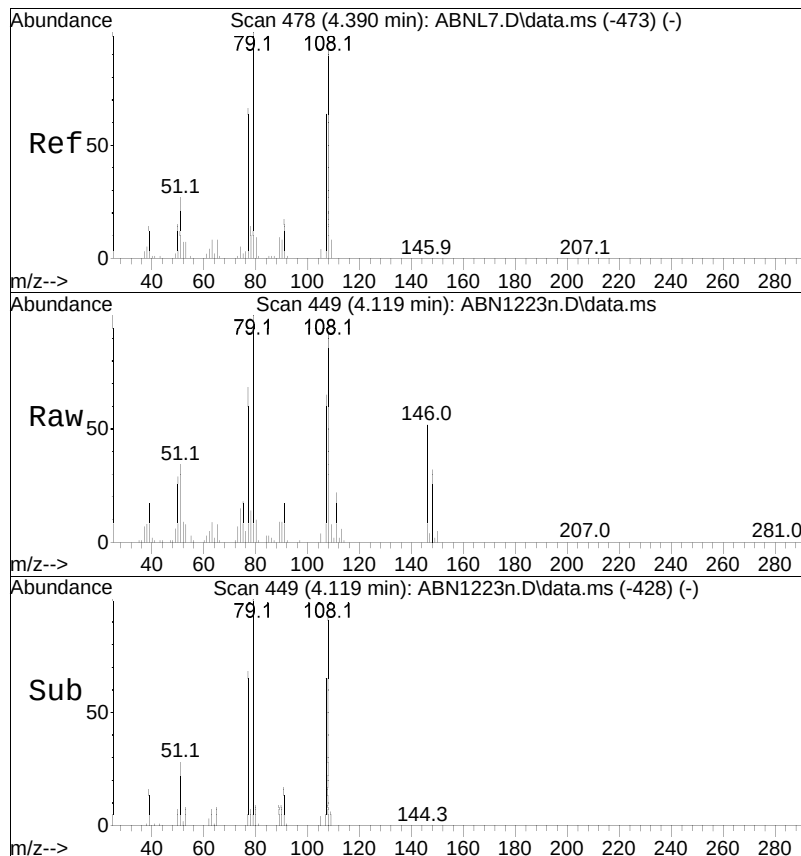




#12  
 1,2-Dichlorobenzene  
 Concen: 47.15 ug/ml  
 RT: 4.125 min Scan# 450  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

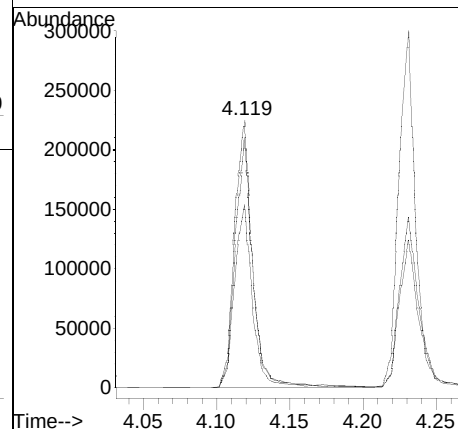
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.6  | 37.6  | 56.4# |
| 148     | 64.2  | 51.2  | 76.8  |

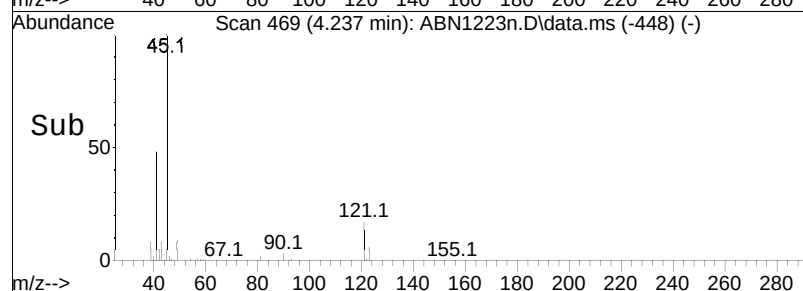
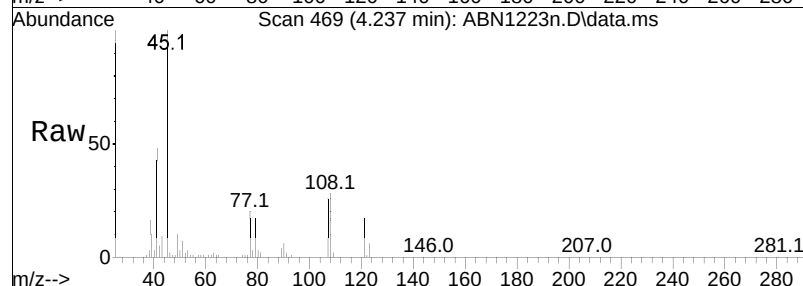
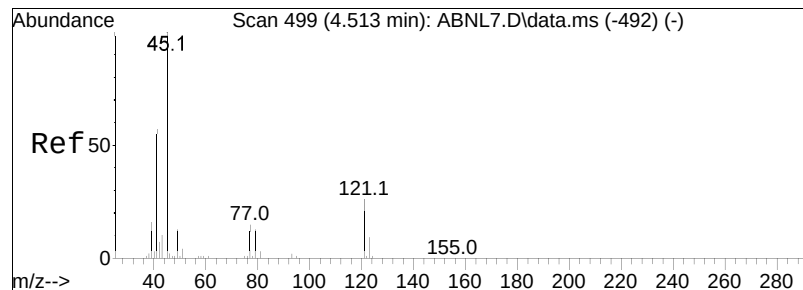




#13  
 Benzyl alcohol  
 Concen: 47.43 ug/ml  
 RT: 4.119 min Scan# 449  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

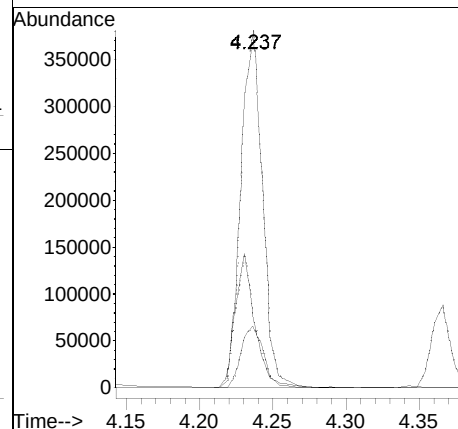
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 194191 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 77        | 69.0  | 53.8  | 80.8   |
| 108       | 90.7  | 67.3  | 100.9  |

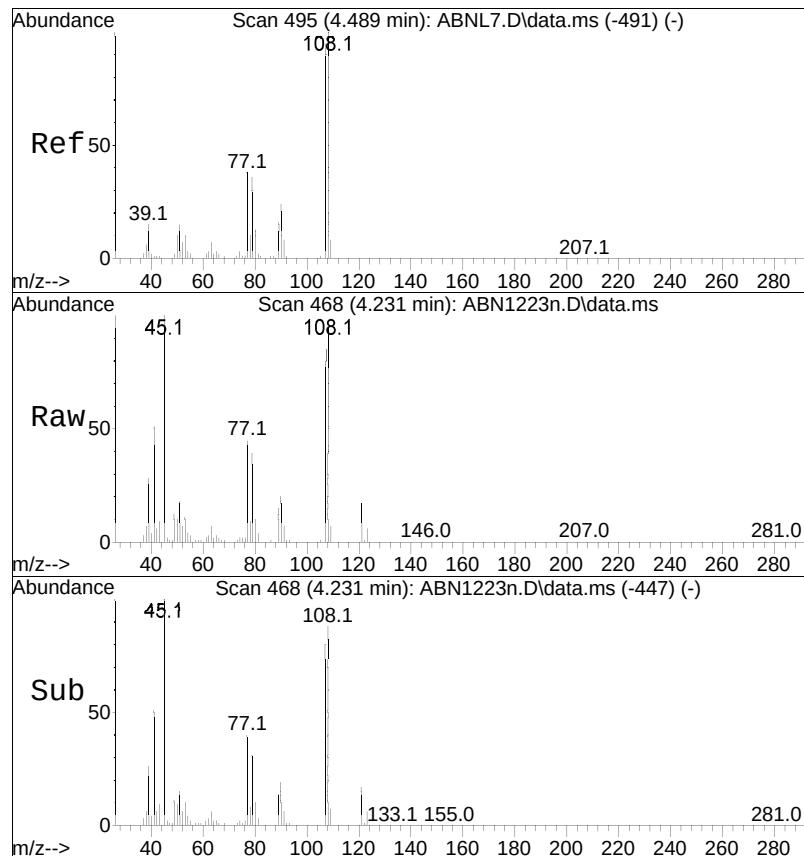




#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 57.11 ug/ml  
 RT: 4.237 min Scan# 469  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

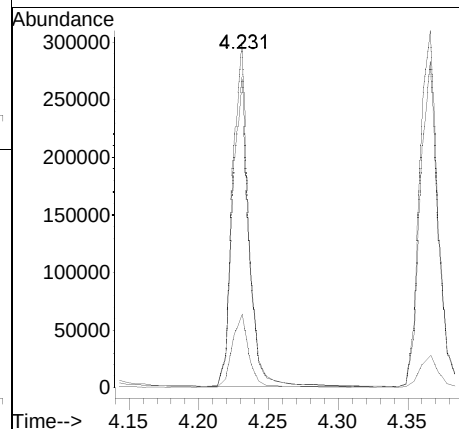
| Tgt Ion:  | 45  | 121   | 77    | Resp: | 390839 | Lower | Upper |
|-----------|-----|-------|-------|-------|--------|-------|-------|
| Ion Ratio | 100 | 18.0  | 33.8  |       |        |       |       |
|           |     | 21.0  | 40.4  |       |        |       |       |
|           |     | 31.6# | 60.6# |       |        |       |       |

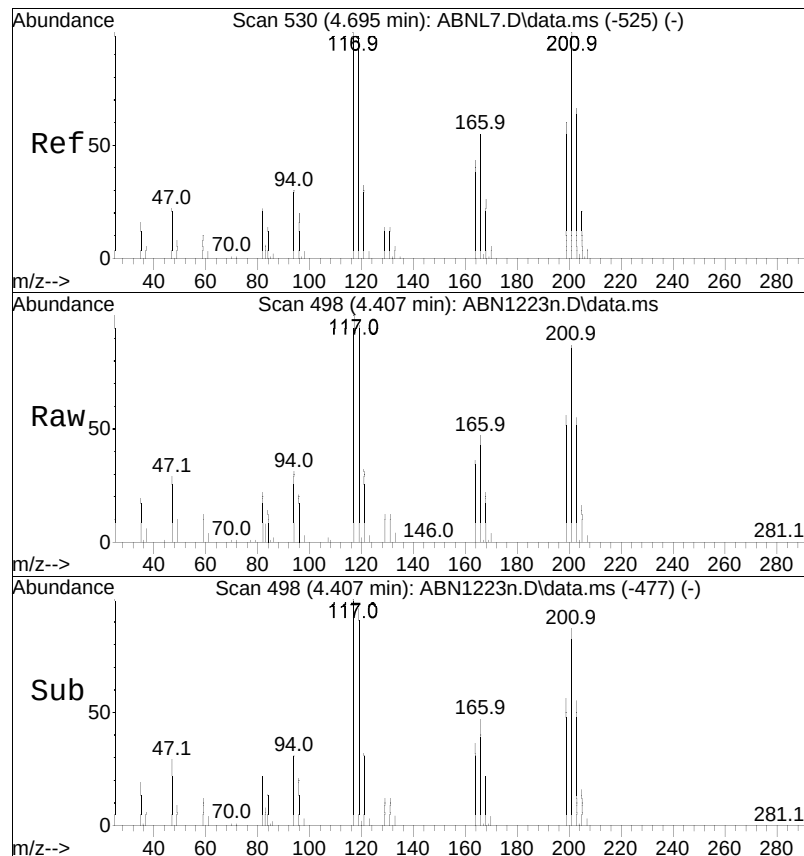




#15  
 2-Methylphenol  
 Concen: 48.02 ug/ml  
 RT: 4.231 min Scan# 468  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

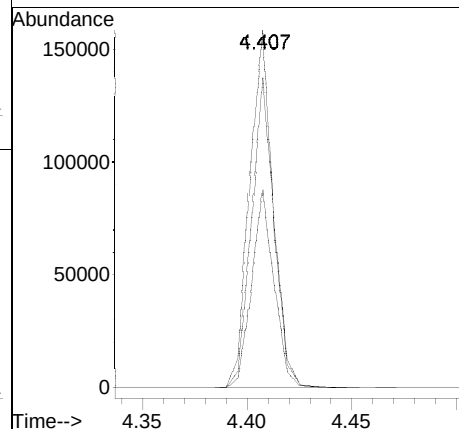
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 91.1  | 71.6  | 107.4 |
| 90      | 22.1  | 18.8  | 28.2  |

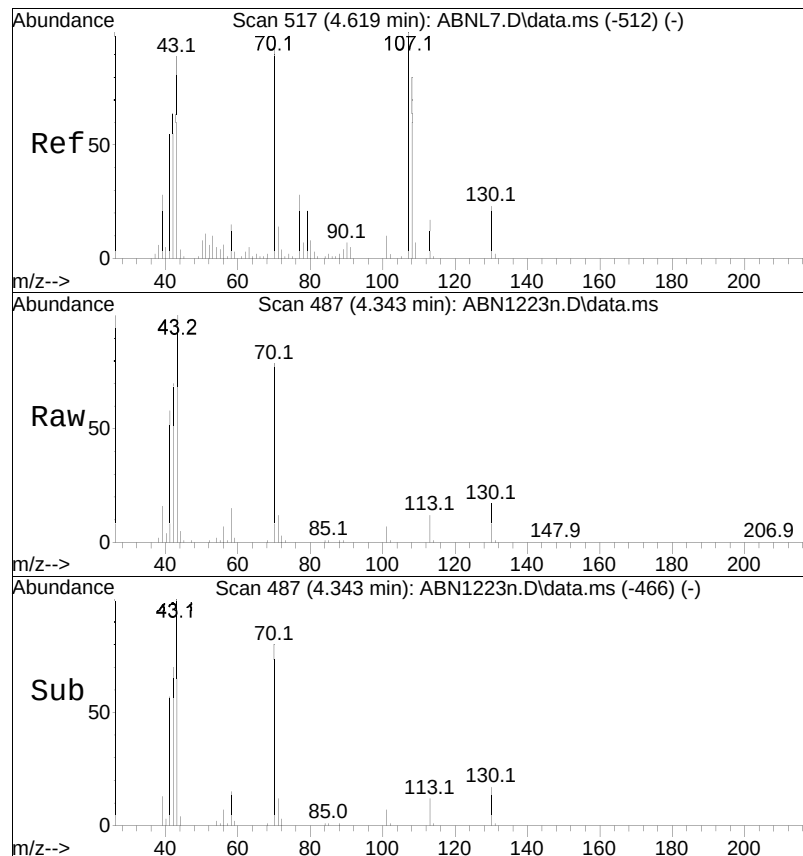




#16  
 Hexachloroethane  
 Concen: 48.60 ug/ml  
 RT: 4.407 min Scan# 498  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

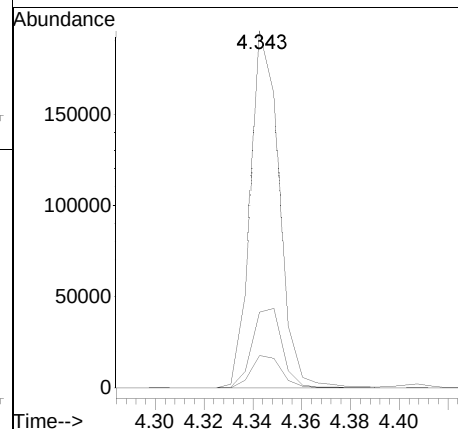
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 122186 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 201       | 85.0  | 47.2  | 70.8#  |
| 199       | 53.3  | 29.8  | 44.6#  |

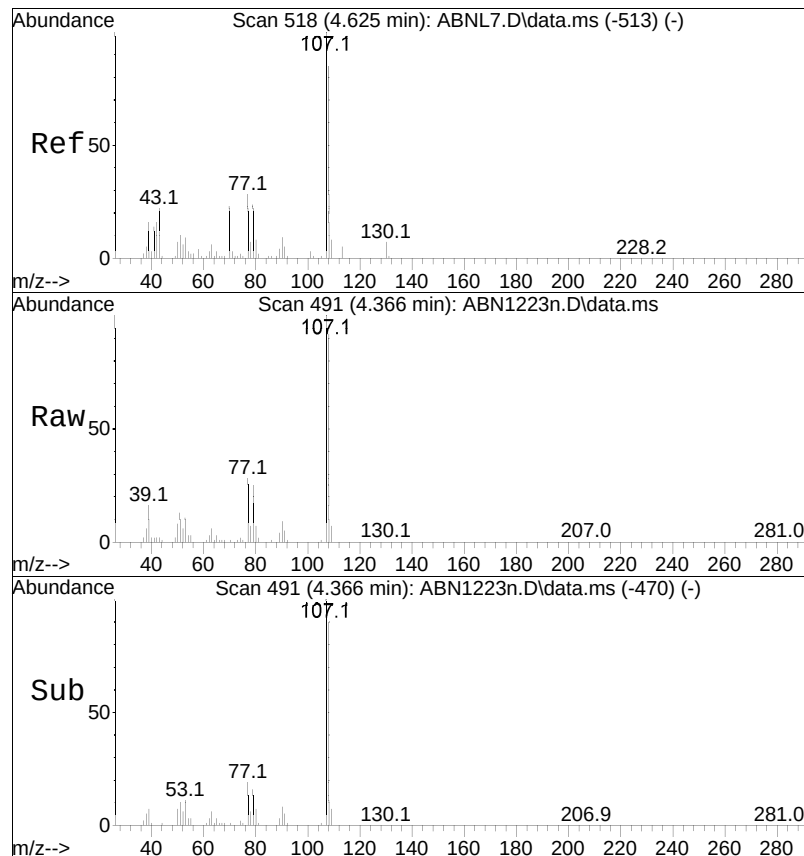




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 45.53 ug/ml  
 RT: 4.343 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

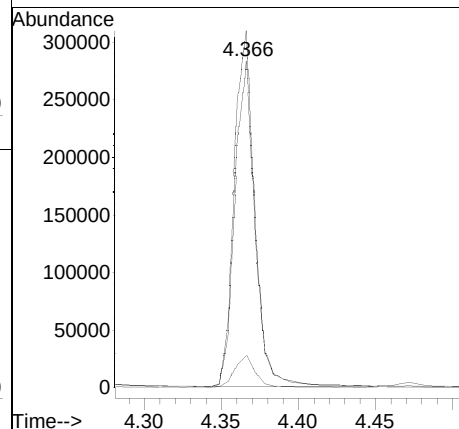
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 160994 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 130       | 23.4  | 18.7  | 28.1   |
| 101       | 9.6   | 8.4   | 12.6   |

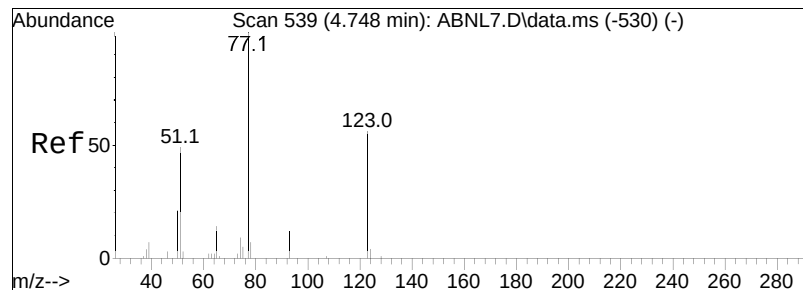




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 48.61 ug/ml  
 RT: 4.366 min Scan# 491  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 257168 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 112.3 | 87.0  | 130.6  |
| 90        | 10.1  | 8.4   | 12.6   |





#20

Nitrobenzene

Concen: 46.62 ug/ml

RT: 4.472 min Scan# 509

Delta R.T. 0.000 min

Lab File: ABN1223n.D

Acq: 23 Dec 2019 11:08 pm

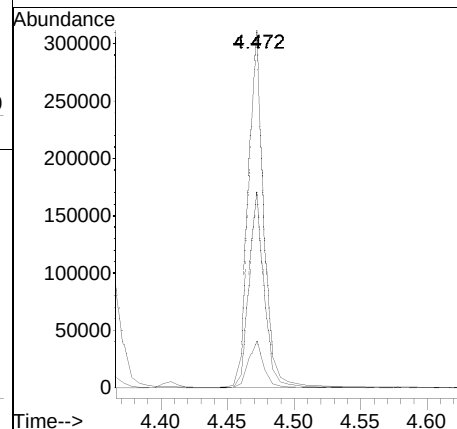
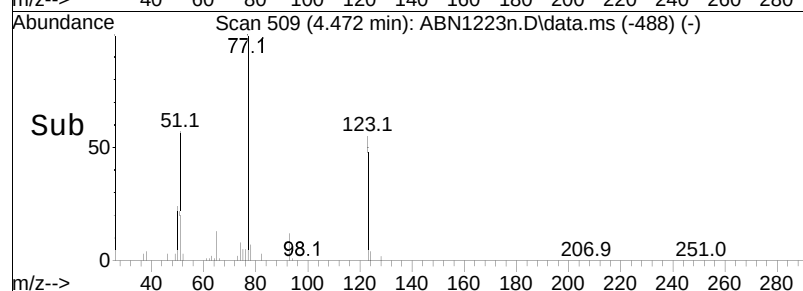
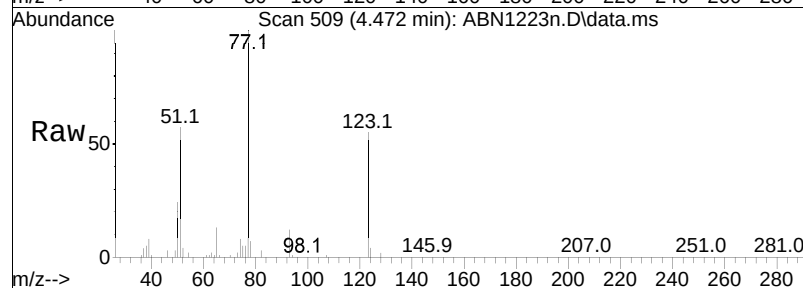
Tgt Ion: 77 Resp: 247229

Ion Ratio Lower Upper

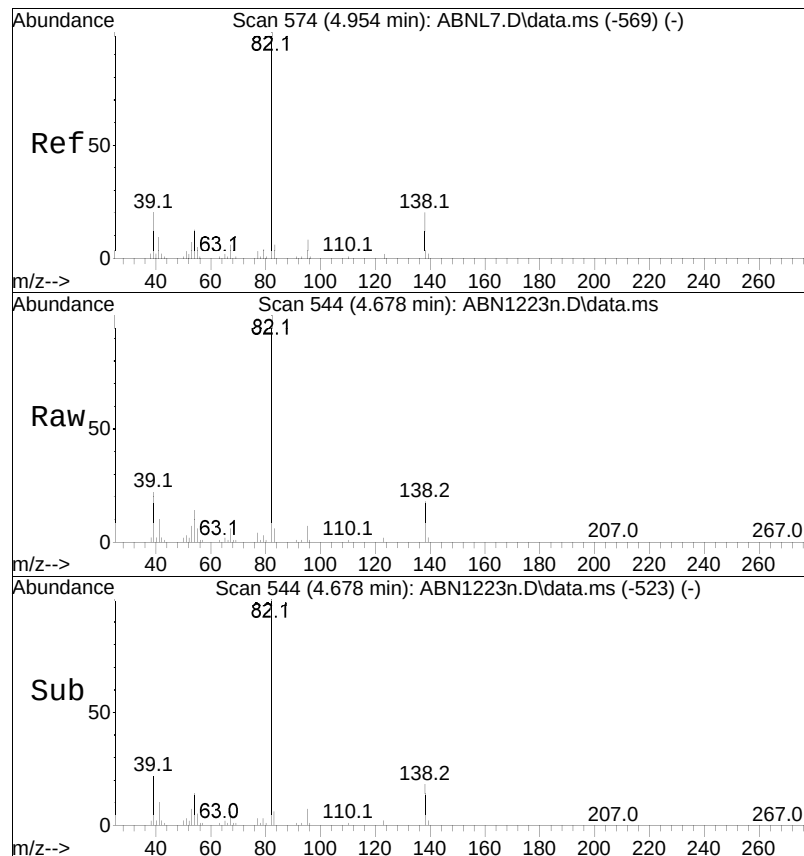
77 100

123 55.2 38.3 57.5

65 13.4 10.3 15.5

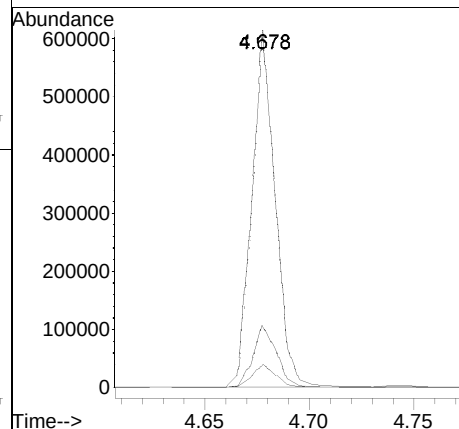


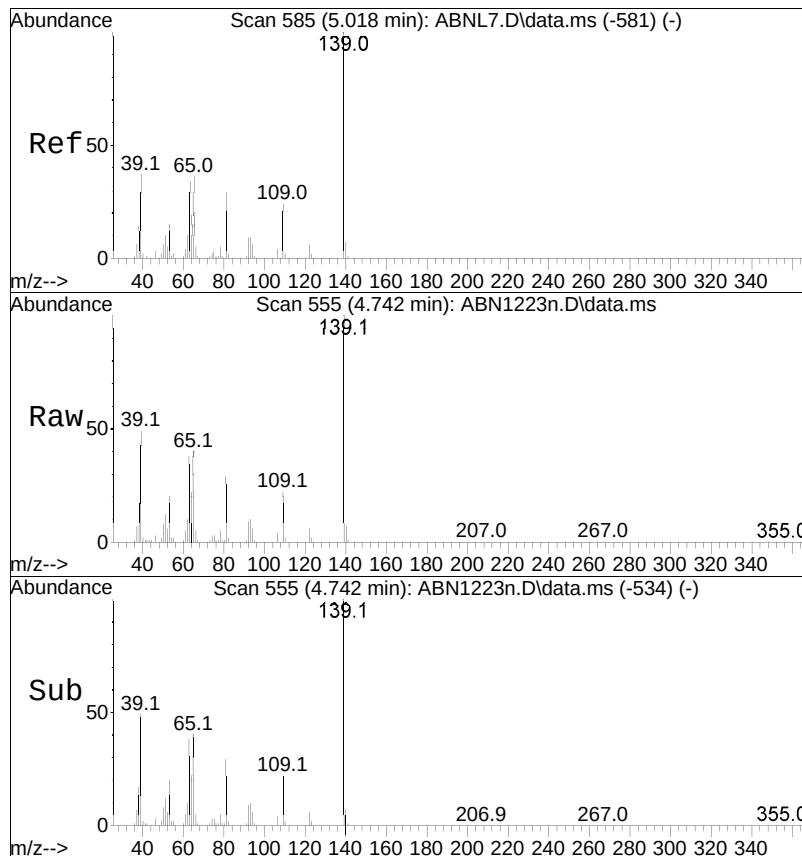




#21  
 Isophorone  
 Concen: 47.57 ug/ml  
 RT: 4.678 min Scan# 544  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

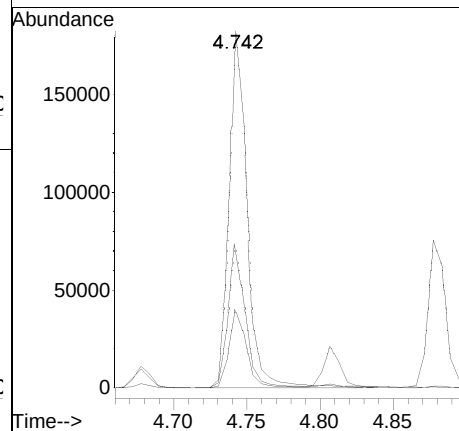
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 468742 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 138       | 17.8  | 13.3  | 19.9   |
| 95        | 6.6   | 5.1   | 7.7    |

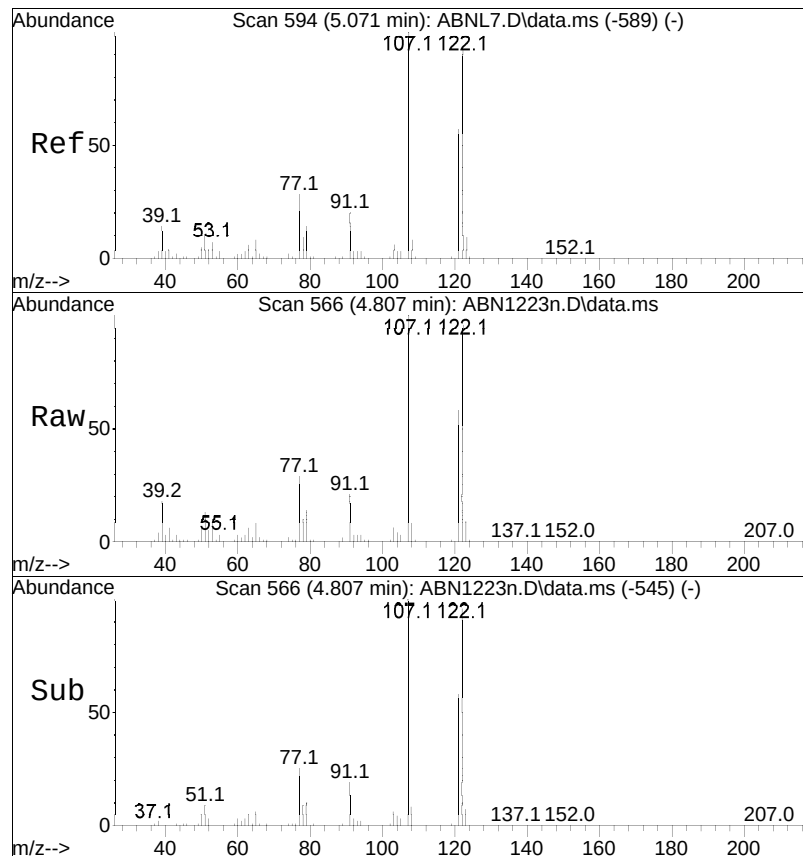




#22  
 2-Nitrophenol  
 Concen: 57.14 ug/ml  
 RT: 4.742 min Scan# 555  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

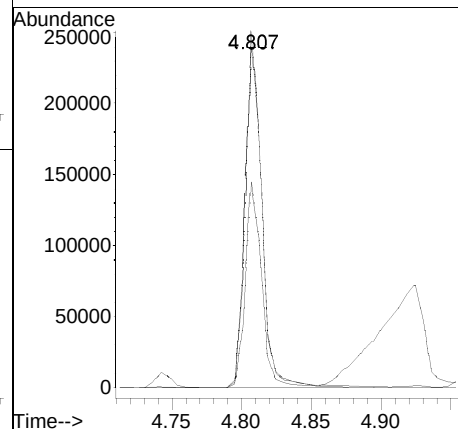
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 139   | Resp: | 155185 |
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 21.4  | 20.1  | 30.1   |
| 65        | 38.9  | 37.8  | 56.8   |

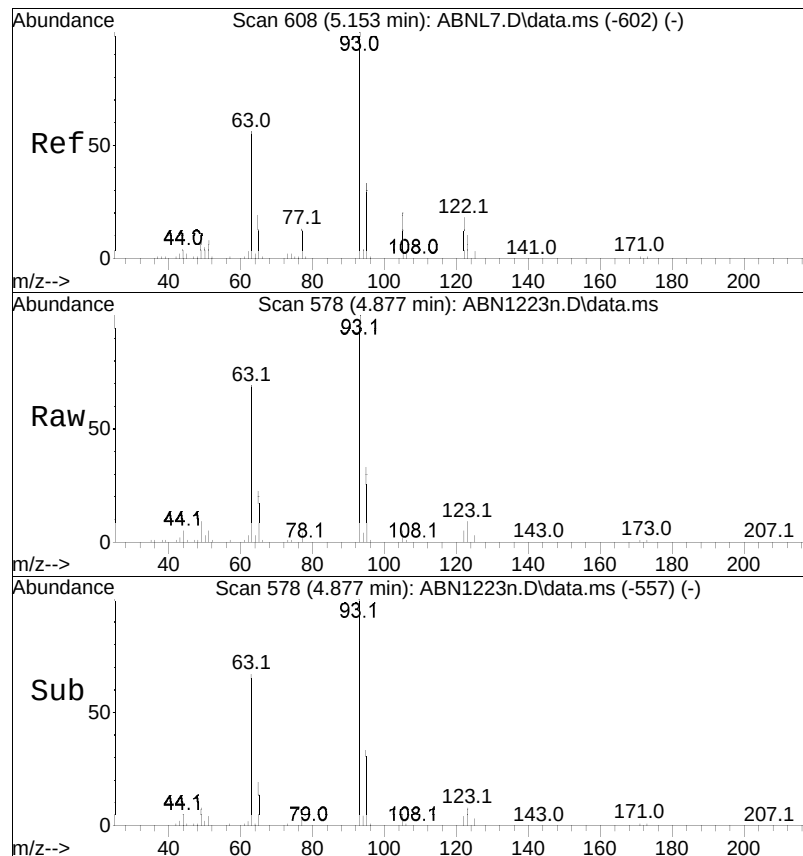




#23  
 2,4-Dimethylphenol  
 Concen: 39.37 ug/ml  
 RT: 4.807 min Scan# 566  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

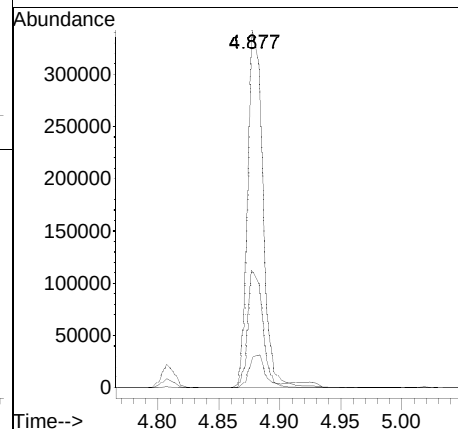
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 207015 |       |       |
| 121     | 56.9  |        | 40.2  | 60.4  |
| 122     | 95.2  |        | 70.2  | 105.4 |

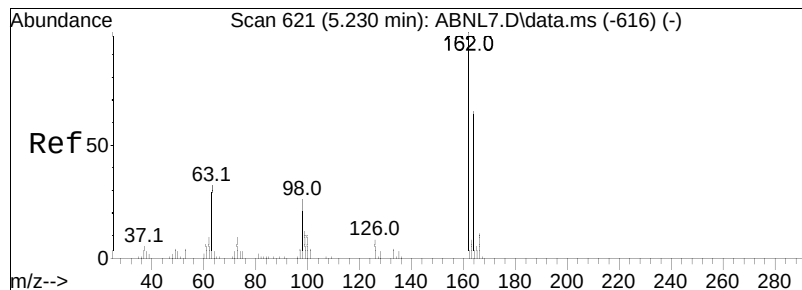




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 44.71 ug/ml  
 RT: 4.877 min Scan# 578  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 296669 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 32.7  | 26.3  | 39.5   |
| 123       | 10.1  | 11.4  | 17.0#  |





#25

2,4-Dichlorophenol

Concen: 49.99 ug/ml

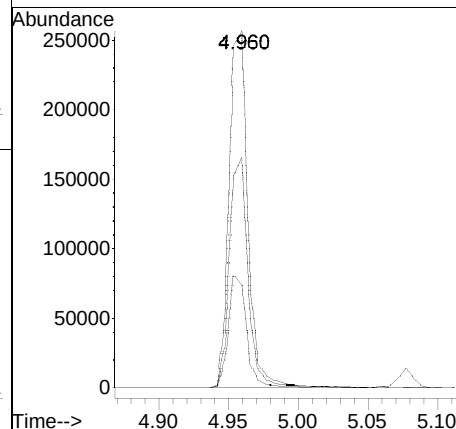
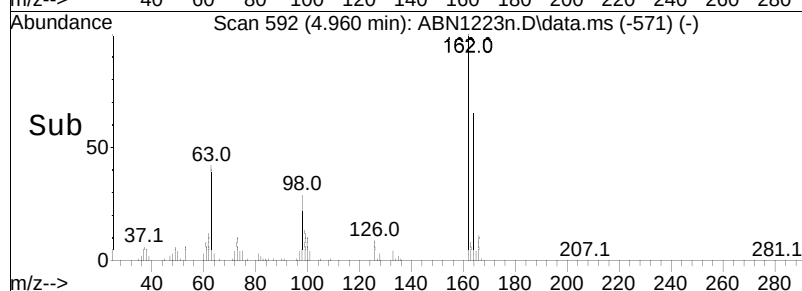
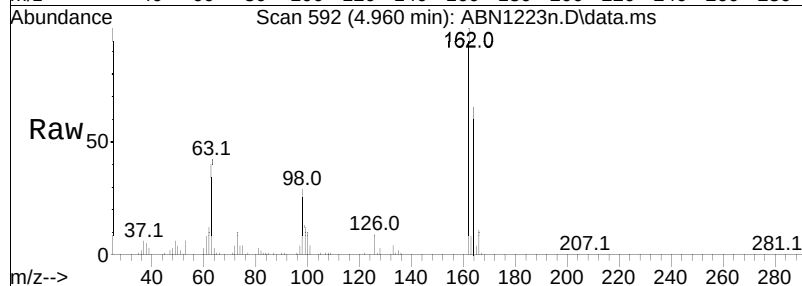
RT: 4.960 min Scan# 592

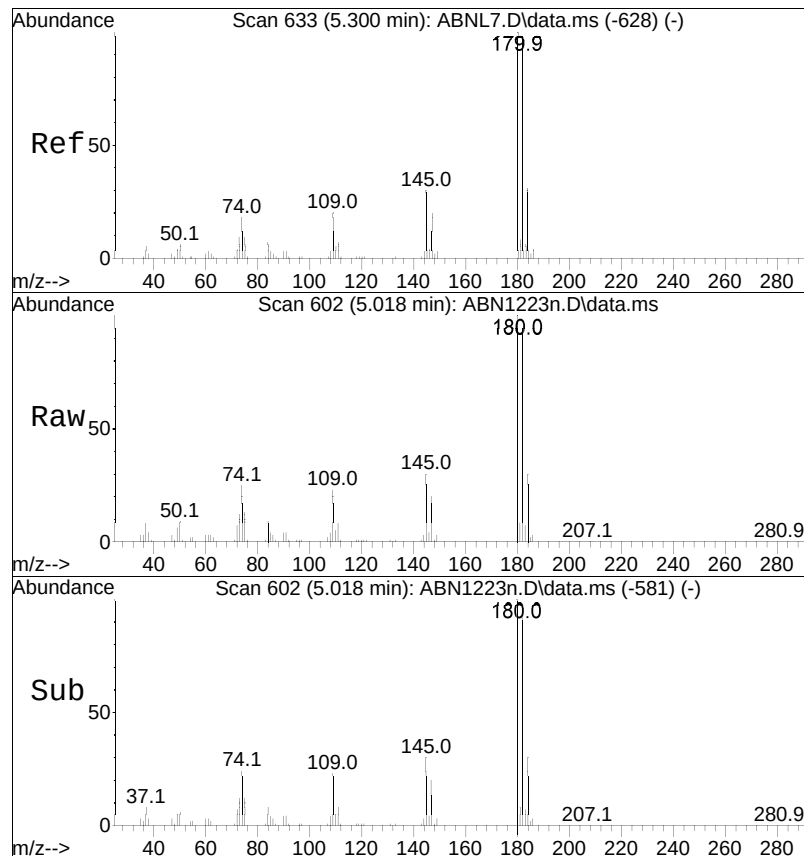
Delta R.T. 0.000 min

Lab File: ABN1223n.D

Acq: 23 Dec 2019 11:08 pm

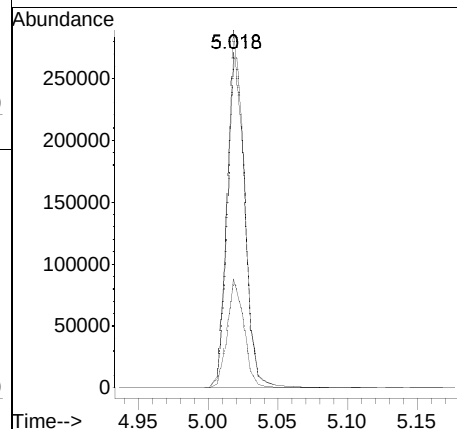
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.0  | 51.2  | 76.8  |
| 98      | 30.7  | 34.6  | 52.0  |

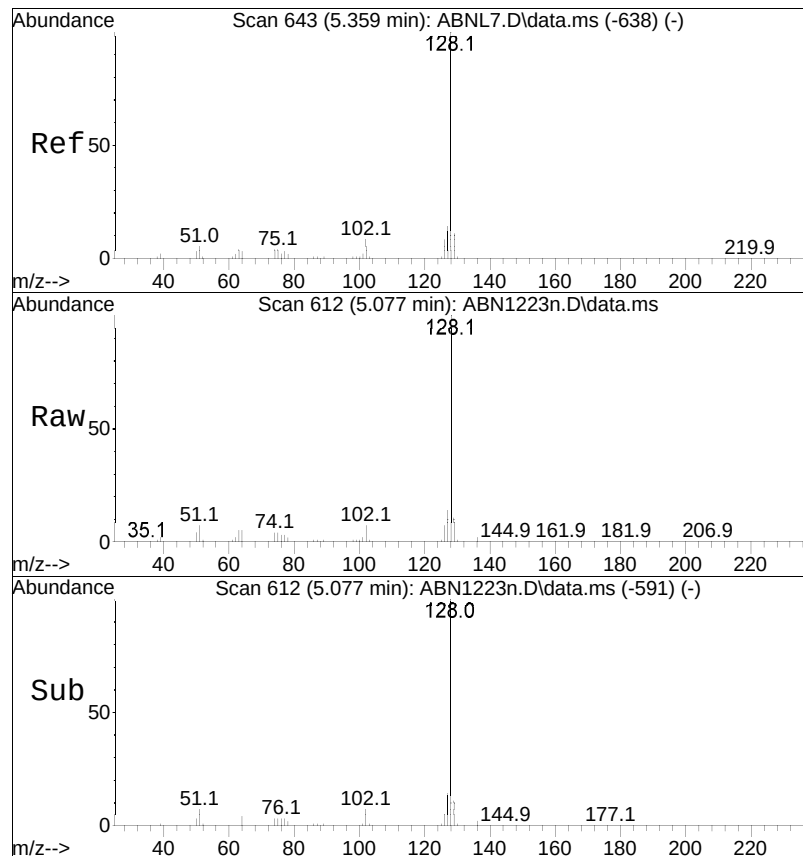




#26  
 1,2,4-Trichlorobenzene  
 Concen: 46.59 ug/ml  
 RT: 5.018 min Scan# 602  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

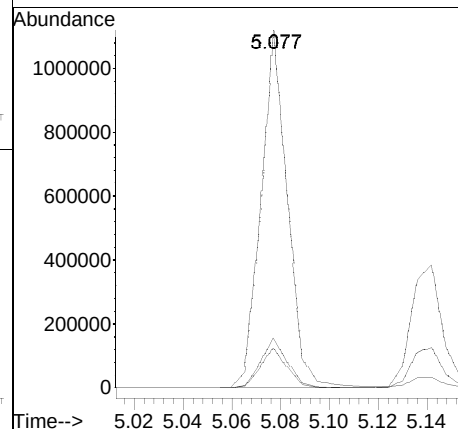
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 243730 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.4  | 76.6  | 115.0  |
| 145       | 30.1  | 26.3  | 39.5   |

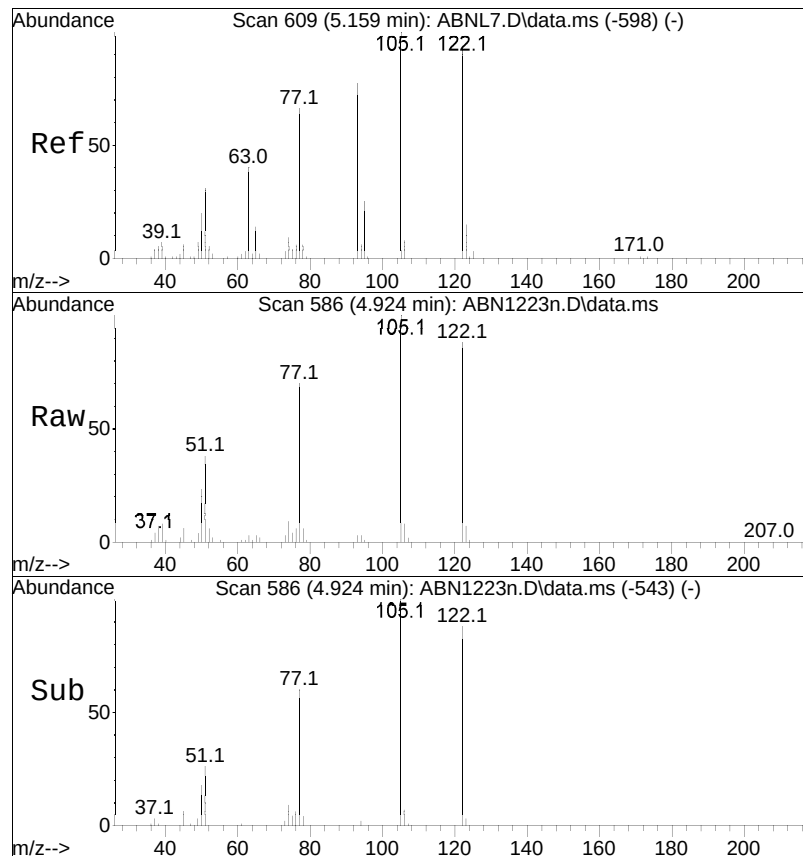




#36  
 Naphthalene  
 Concen: 48.60 ug/ml  
 RT: 5.077 min Scan# 612  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

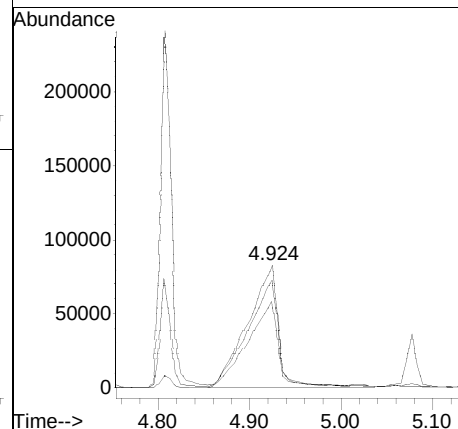
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 836318 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 129 | 11.2    | 9.0   | 13.6   |
| 127 | 14.1    | 11.3  | 16.9   |



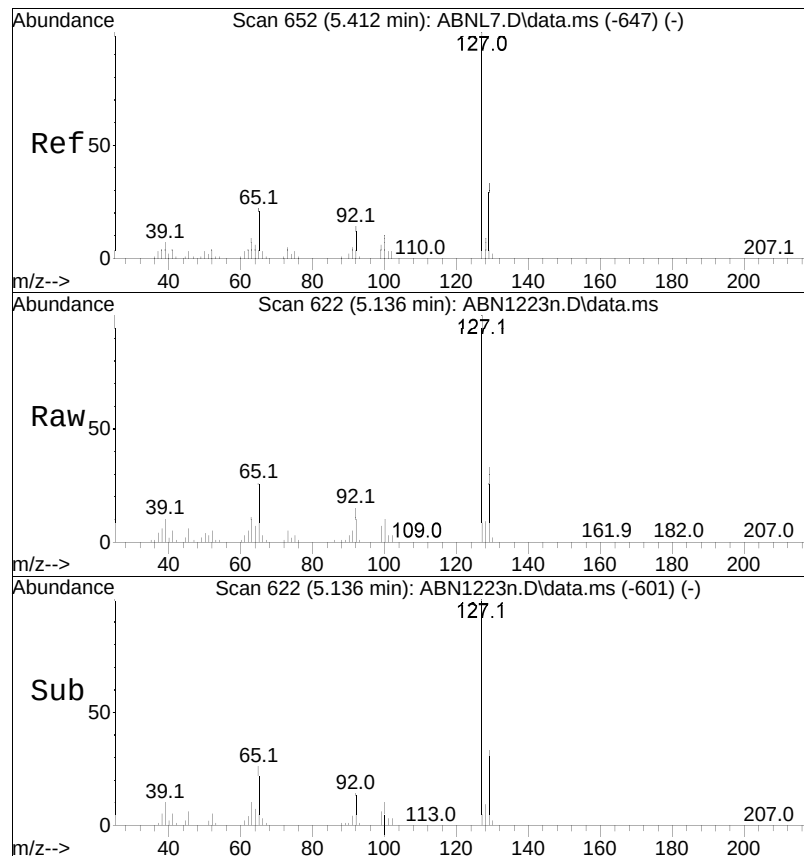


#37  
 Benzoic Acid  
 Concen: 50.21 ug/ml  
 RT: 4.924 min Scan# 586  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 197768 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 122       | 86.6  | 61.5  | 92.3   |
| 77        | 66.9  | 57.4  | 86.2   |

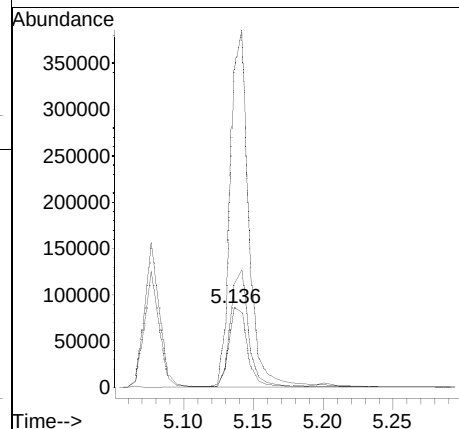


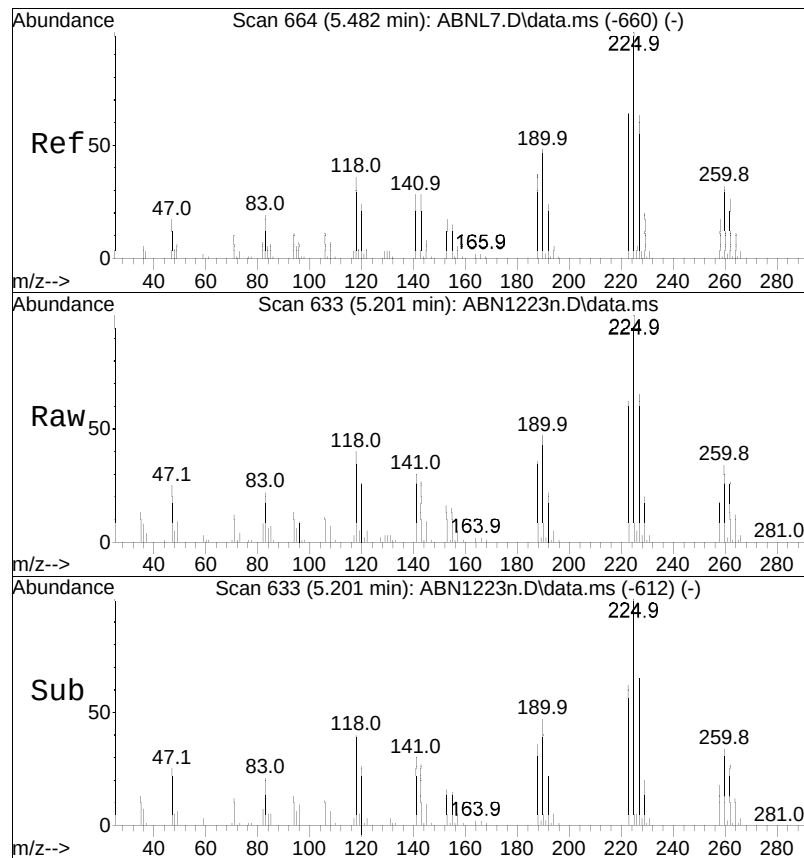




#38  
 4-Chloroaniline  
 Concen: 45.72 ug/ml  
 RT: 5.136 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

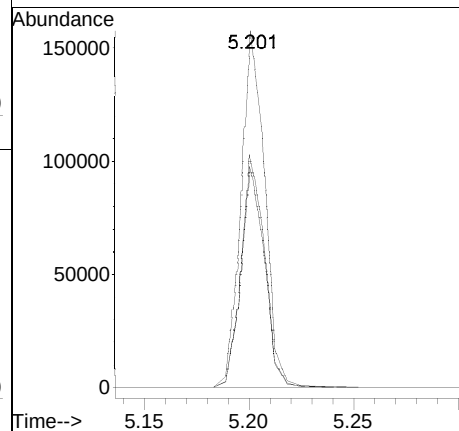
| Tgt Ion:  | 65    | Resp: | 81688 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 127       | 432.1 | 295.3 | 442.9 |
| 129       | 140.6 | 96.3  | 144.5 |

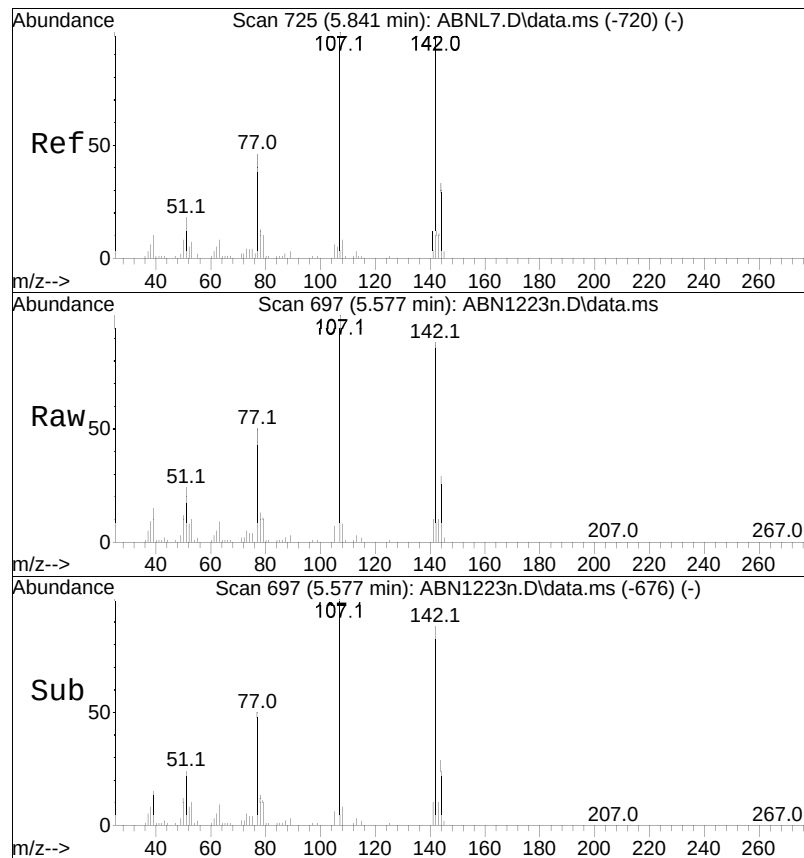




#39  
 Hexachlorobutadiene  
 Concen: 44.55 ug/ml  
 RT: 5.201 min Scan# 633  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

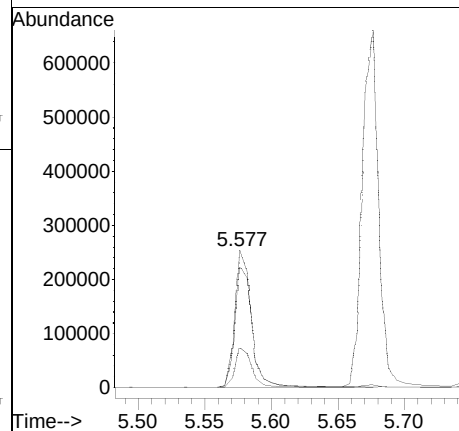
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:225 | Resp: | 123159 |
| Ion | Ratio   | Lower | Upper  |
| 225 | 100     |       |        |
| 223 | 61.1    | 50.2  | 75.2   |
| 227 | 64.7    | 51.3  | 76.9   |

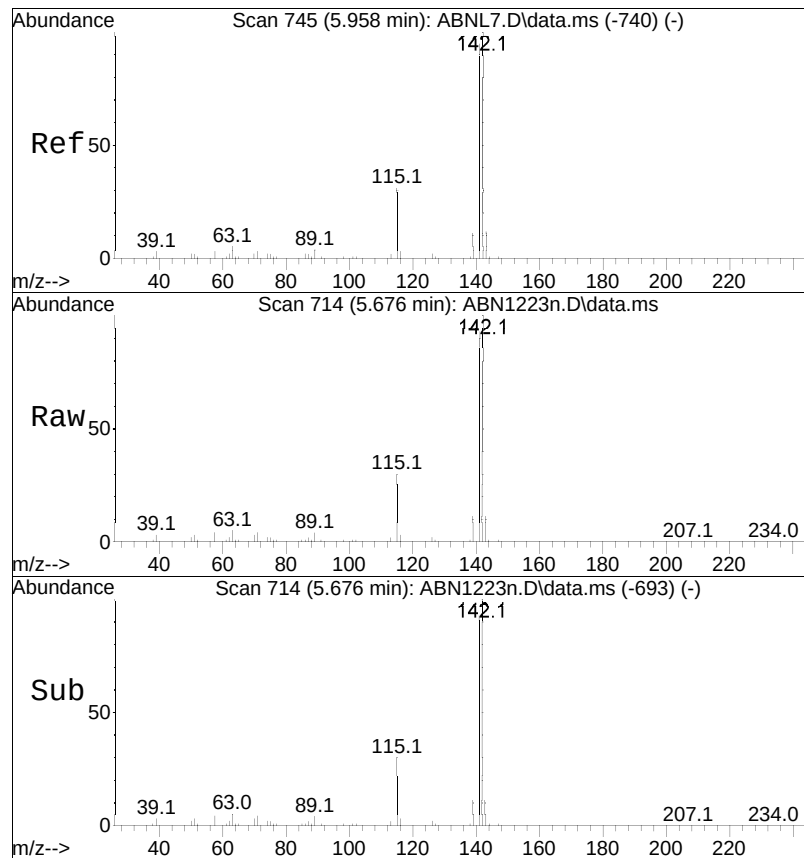




#40  
 p-Chloro-m-cresol  
 Concen: 49.10 ug/ml  
 RT: 5.577 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

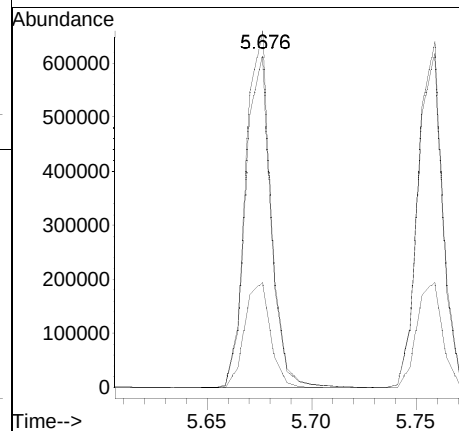
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 222348 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 29.2  | 20.7  | 31.1   |
| 142       | 91.0  | 63.7  | 95.5   |

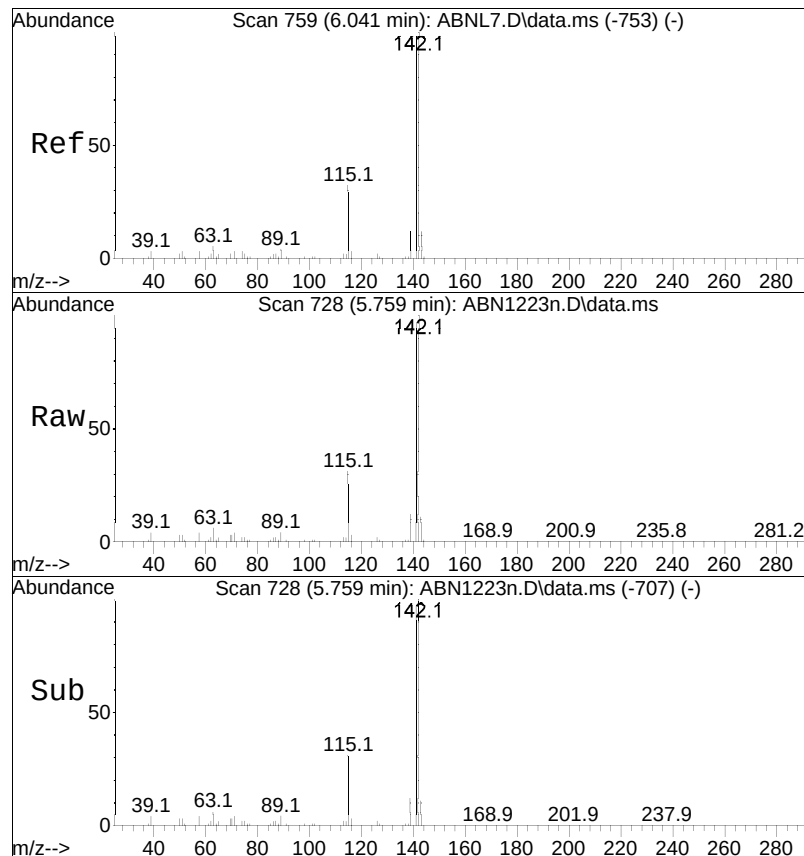




#41  
 2-Methylnaphthalene  
 Concen: 48.96 ug/ml  
 RT: 5.676 min Scan# 714  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

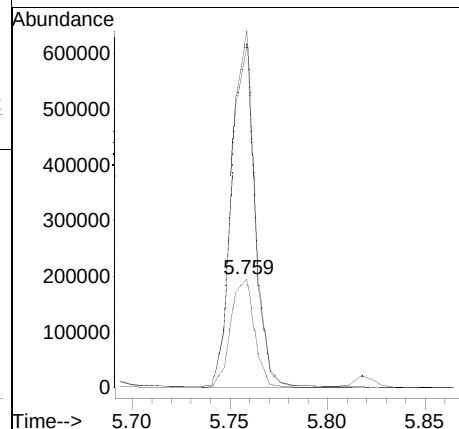
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 557664 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 93.3  | 71.0  | 106.6  |
| 115       | 30.5  | 29.8  | 44.6   |

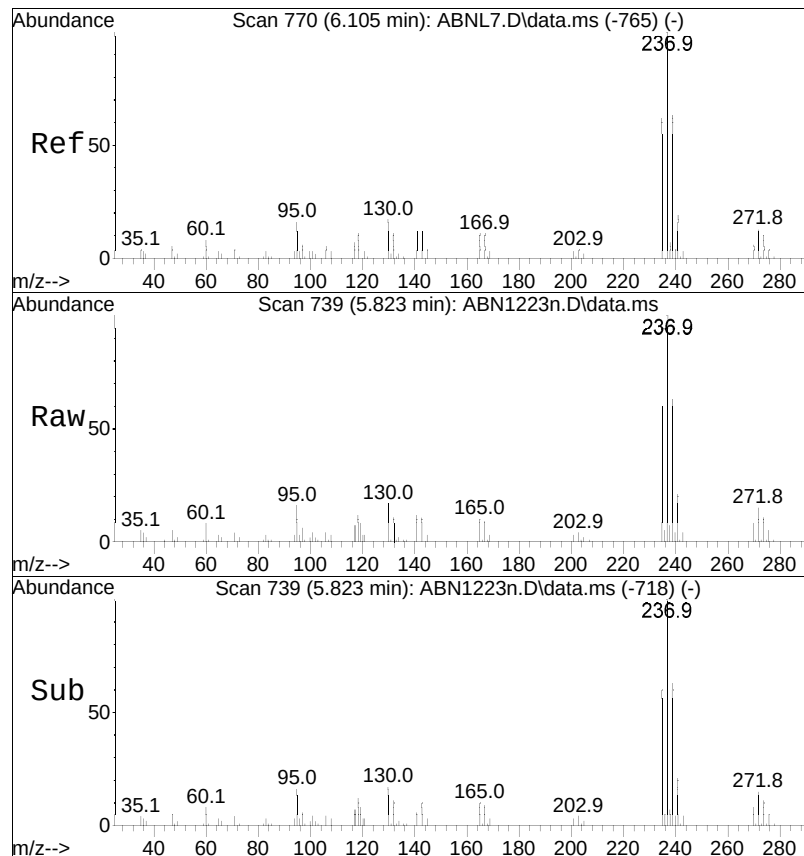




#42  
 1-Methylnaphthalene  
 Concen: 49.57 ug/ml  
 RT: 5.759 min Scan# 728  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

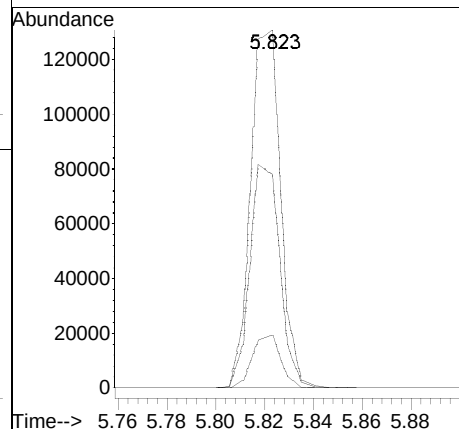
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 115   | Resp: | 167847 |
| Ion Ratio | Lower | Upper |        |
| 115       | 100   |       |        |
| 141       | 306.4 | 188.9 | 283.3# |
| 142       | 320.9 | 205.5 | 308.3# |

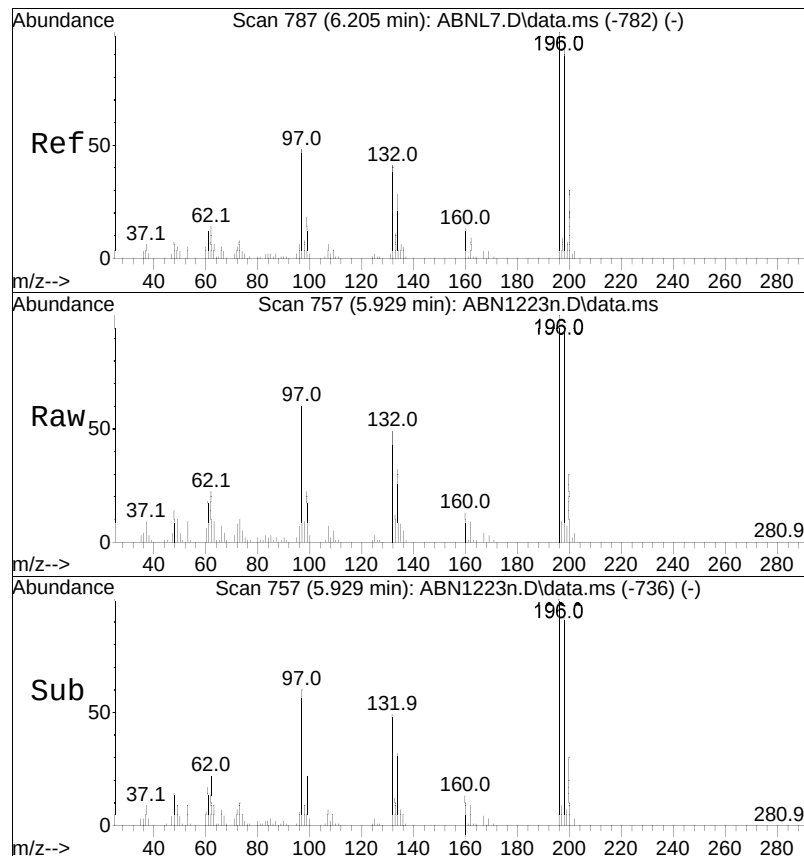




#43  
 Hexachlorocyclopentadiene  
 Concen: 31.96 ug/ml  
 RT: 5.823 min Scan# 739  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

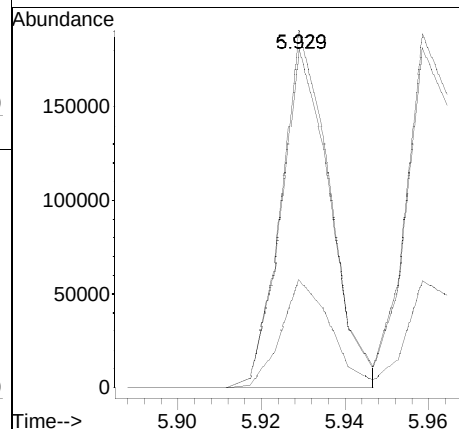
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 237     | 100   | 110940 |       |       |
| 235     | 62.2  |        | 50.2  | 75.2  |
| 272     | 14.1  |        | 11.4  | 17.2  |

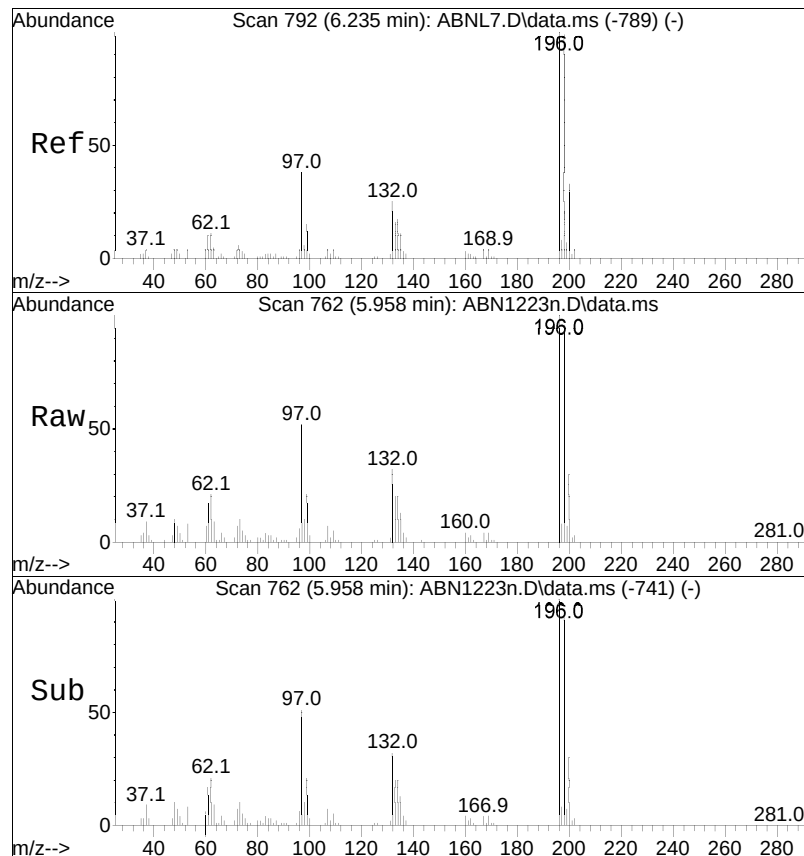




#44  
 2,4,6-Trichlorophenol  
 Concen: 45.98 ug/ml  
 RT: 5.929 min Scan# 757  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

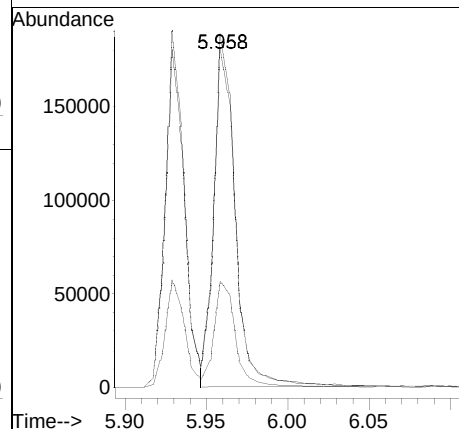
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 154161 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 95.5  | 76.0  | 114.0  |
| 200       | 31.1  | 24.9  | 37.3   |



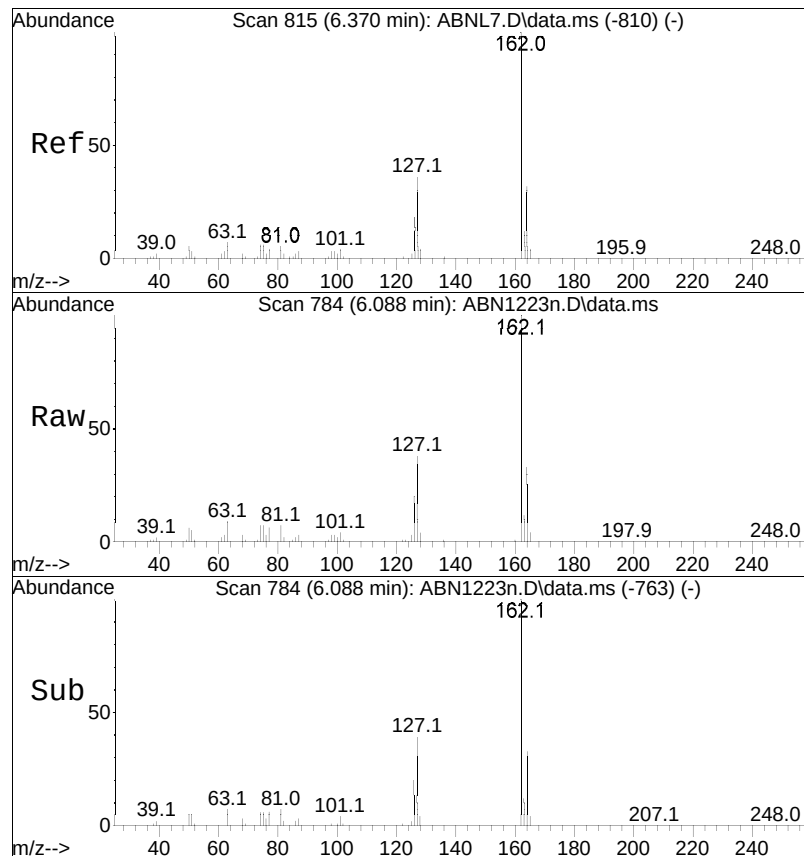


#45  
 2,4,5-Trichlorophenol  
 Concen: 48.44 ug/ml  
 RT: 5.958 min Scan# 762  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 171428 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 30.6  | 23.8  | 35.6   |
| 198       | 96.2  | 74.3  | 111.5  |

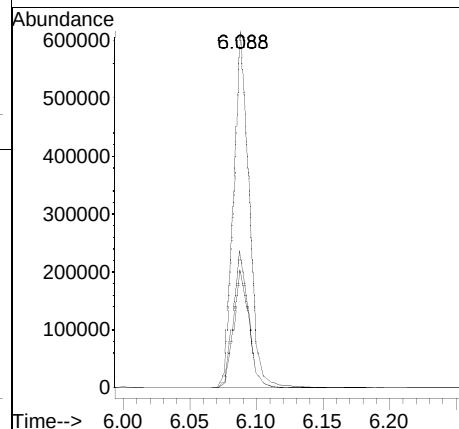


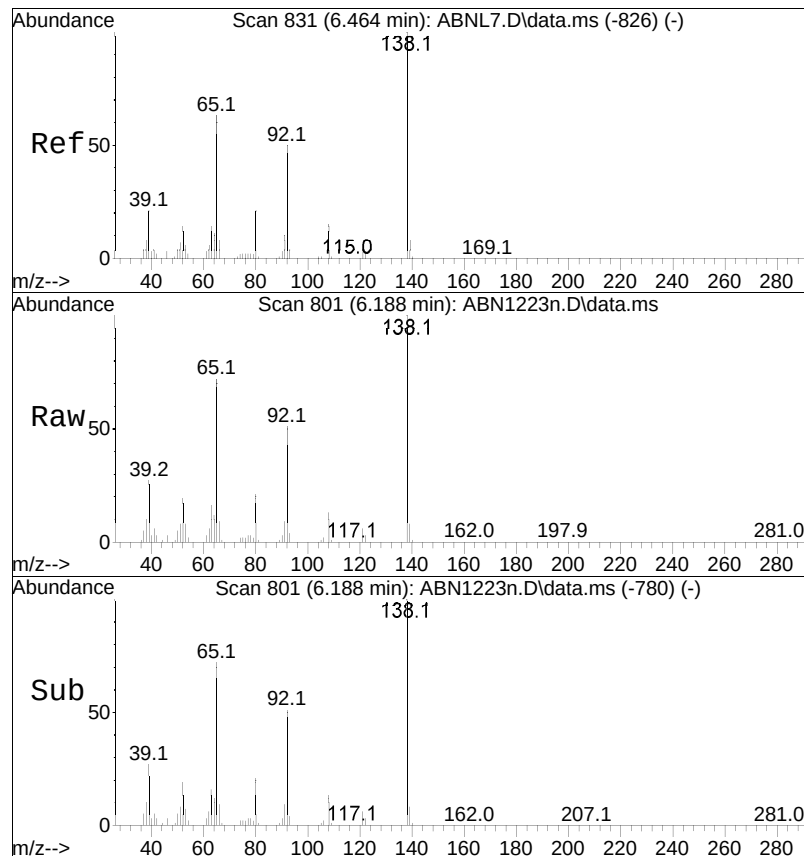




#47  
 2-Chloronaphthalene  
 Concen: 46.17 ug/ml  
 RT: 6.088 min Scan# 784  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

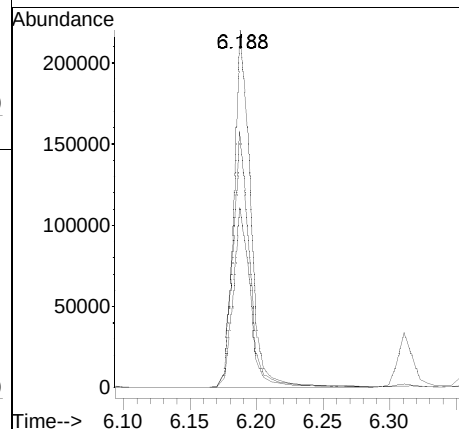
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 500683 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 37.8  | 33.9  | 50.9   |
| 164       | 32.6  | 26.3  | 39.5   |

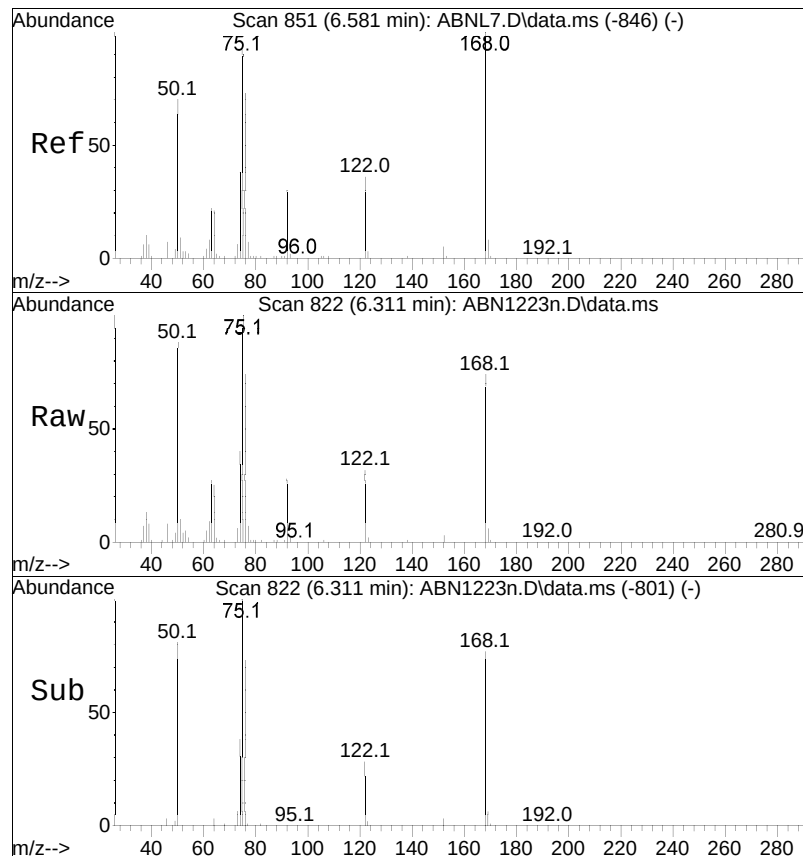




#48  
 2-Nitroaniline  
 Concen: 53.10 ug/ml  
 RT: 6.188 min Scan# 801  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

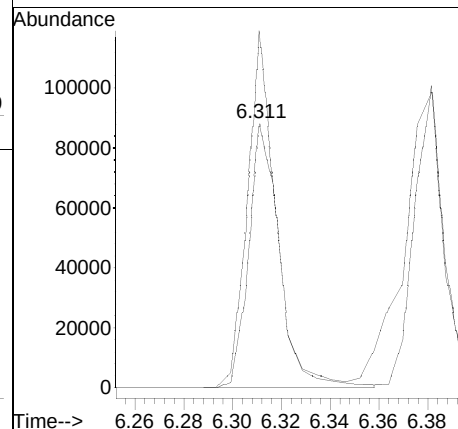
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:138 | Resp: | 189259     |
| Ion Ratio   | Lower | Upper      |
| 138         | 100   |            |
| 92          | 51.7  | 52.5 78.7# |
| 65          | 71.4  | 67.7 101.5 |

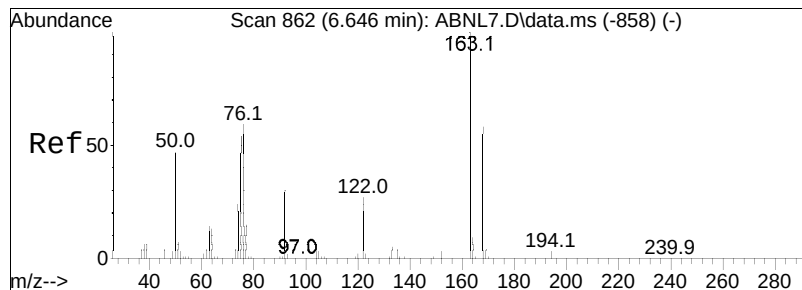




#49  
 1,4-Dinitrobenzene  
 Concen: 52.91 ug/ml  
 RT: 6.311 min Scan# 822  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

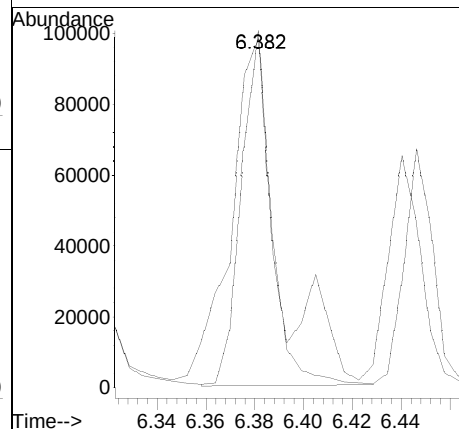
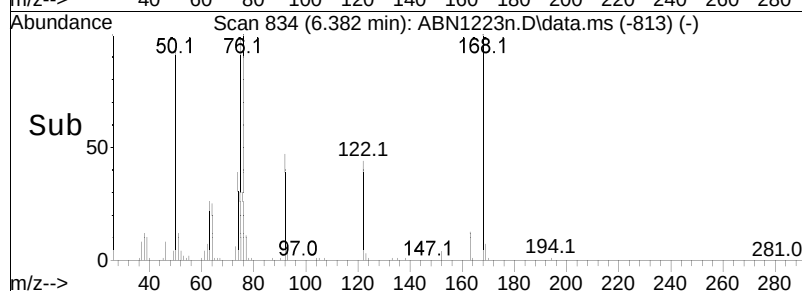
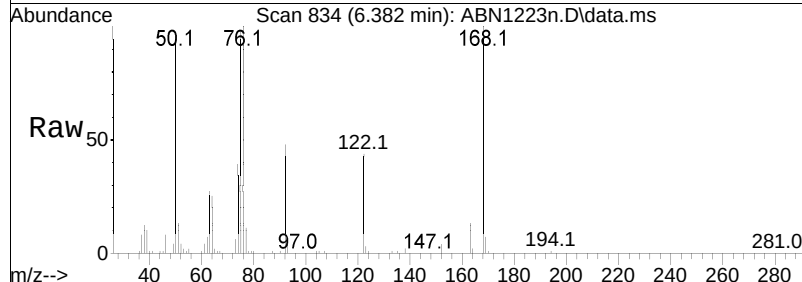
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 75      | 124.2 | 120.6 | 181.0 |

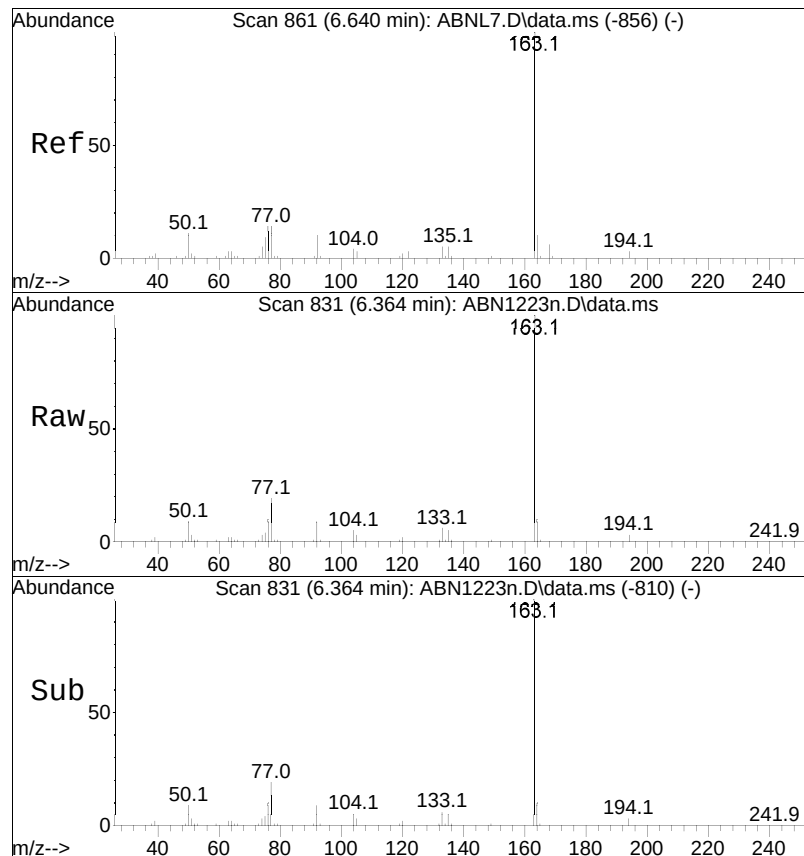




#50  
 1,3-Dinitrobenzene  
 Concen: 49.99 ug/ml  
 RT: 6.382 min Scan# 834  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

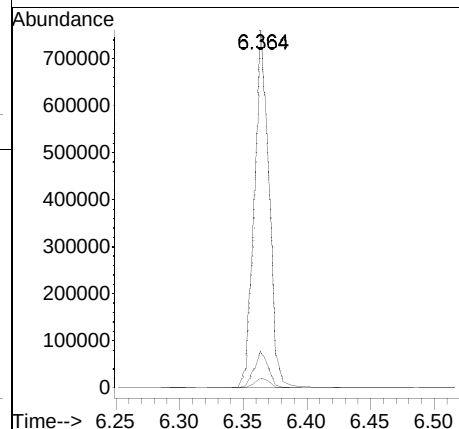
Tgt Ion:168 Resp: 86613  
 Ion Ratio Lower Upper  
 168 100  
 75 121.1 126.3 189.5#

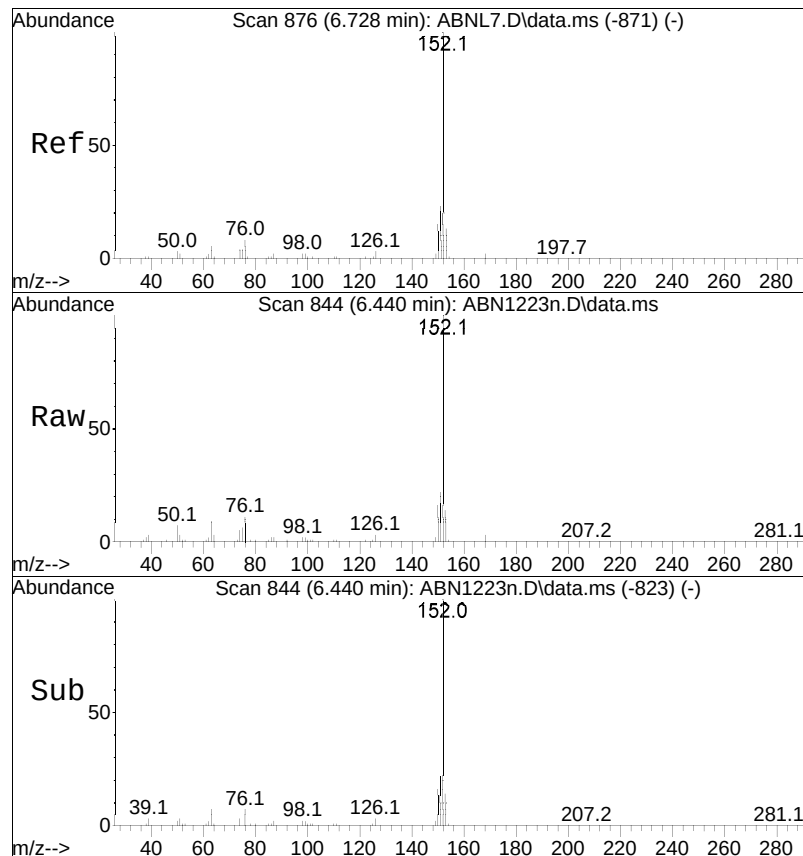




#51  
 Dimethyl phthalate  
 Concen: 46.92 ug/ml  
 RT: 6.364 min Scan# 831  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

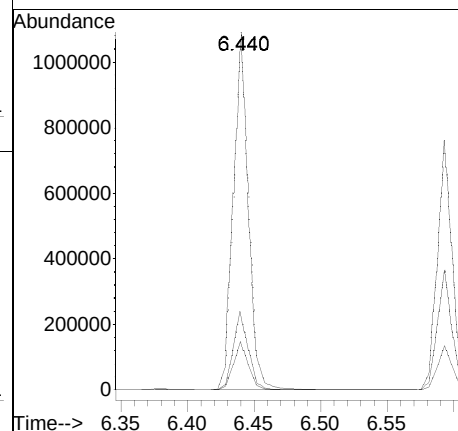
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 598553 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 2.9   | 3.5   | 5.3#   |
| 164       | 10.1  | 8.3   | 12.5   |

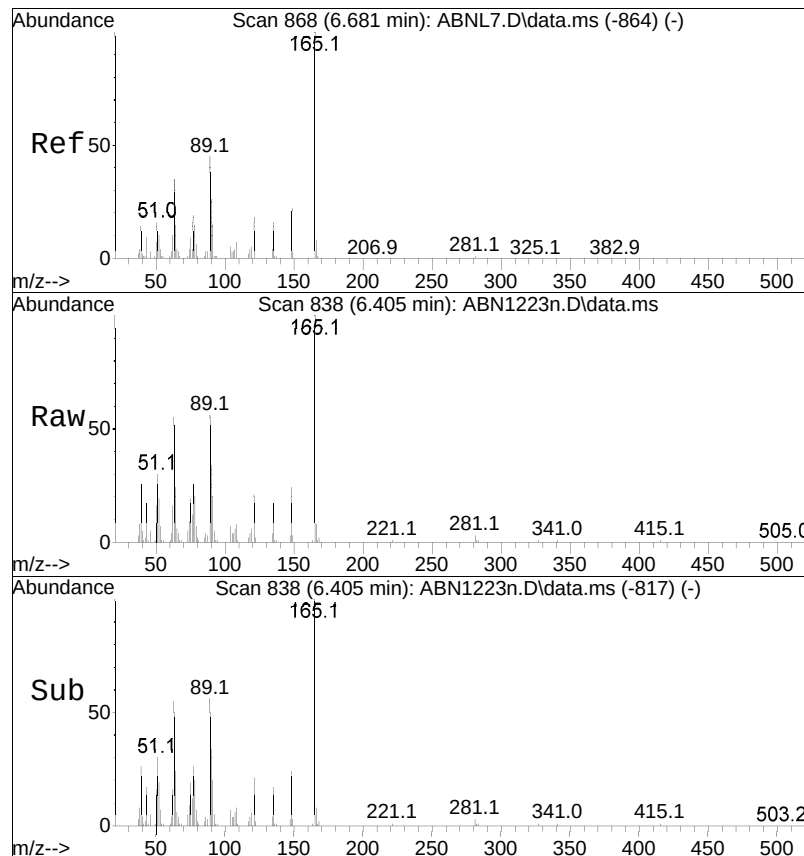




#52  
 Acenaphthylene  
 Concen: 48.47 ug/ml  
 RT: 6.440 min Scan# 844  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

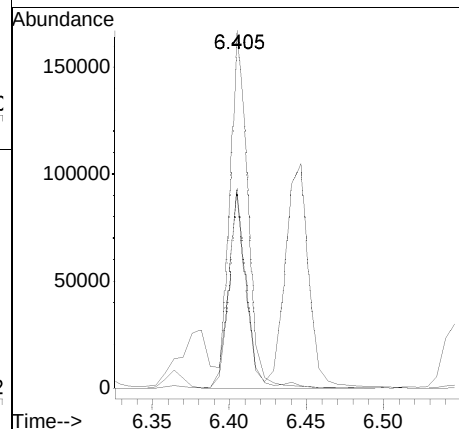
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 857186 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 21.9  | 17.7  | 26.5   |
| 153       | 13.4  | 10.6  | 15.8   |

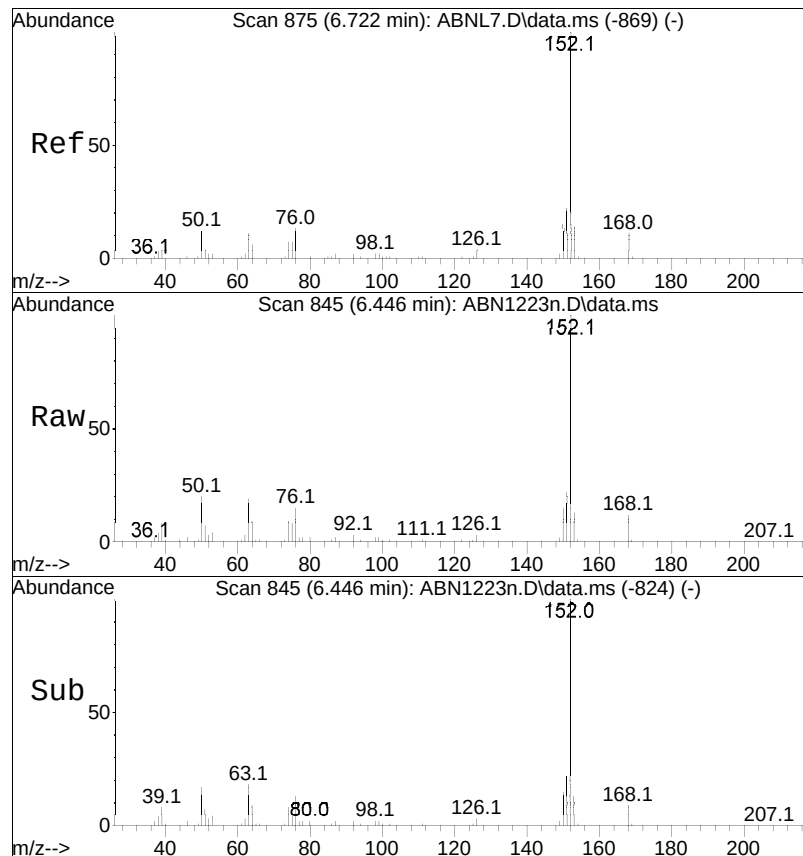




#53  
 2,6-Dinitrotoluene  
 Concen: 50.82 ug/ml  
 RT: 6.405 min Scan# 838  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

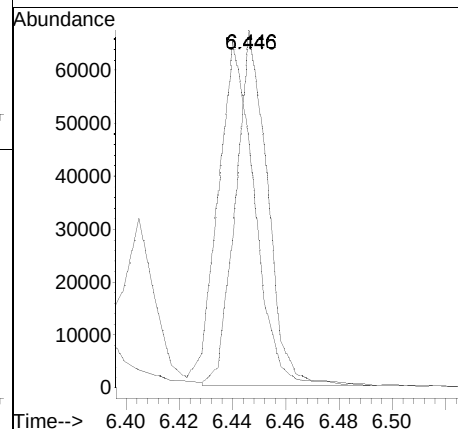
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 135665 |       |       |
| 89      | 52.3  | 56.8   | 85.2# |       |
| 63      | 49.0  | 50.6   | 76.0# |       |



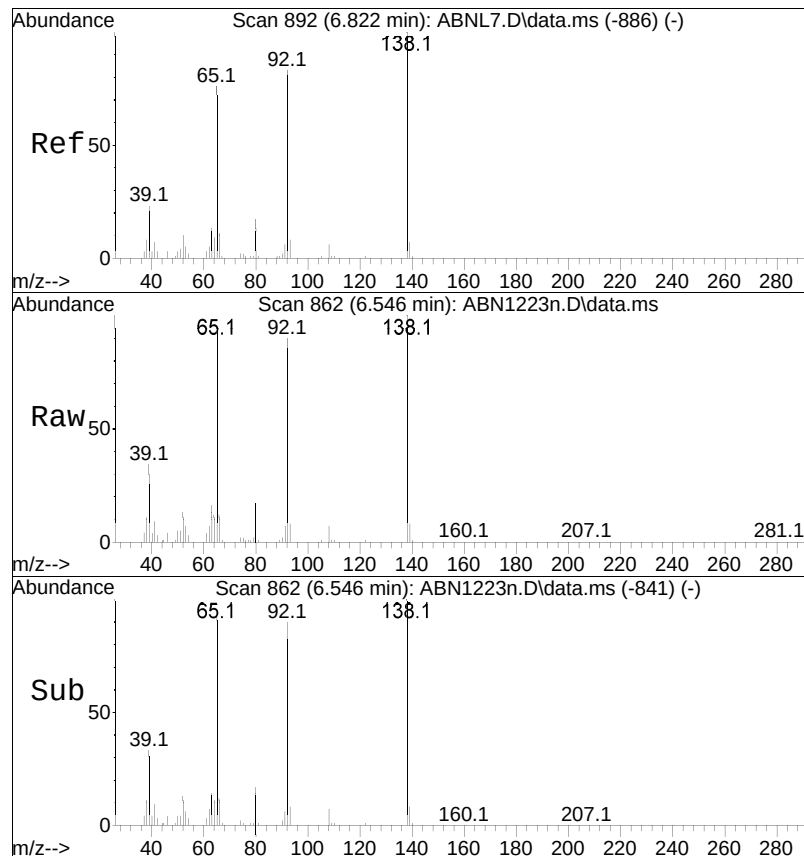


#54  
 1,2-Dinitrobenzene  
 Concen: 52.91 ug/ml  
 RT: 6.446 min Scan# 845  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 75      | 112.9 | 106.6 | 160.0 |

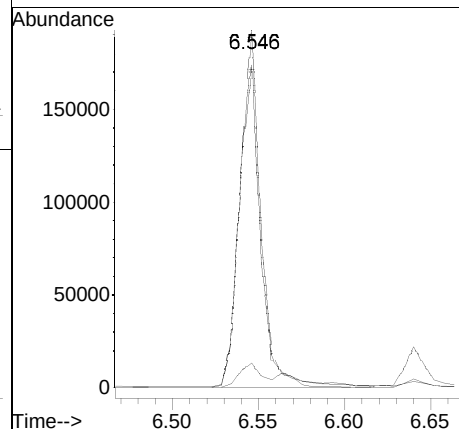


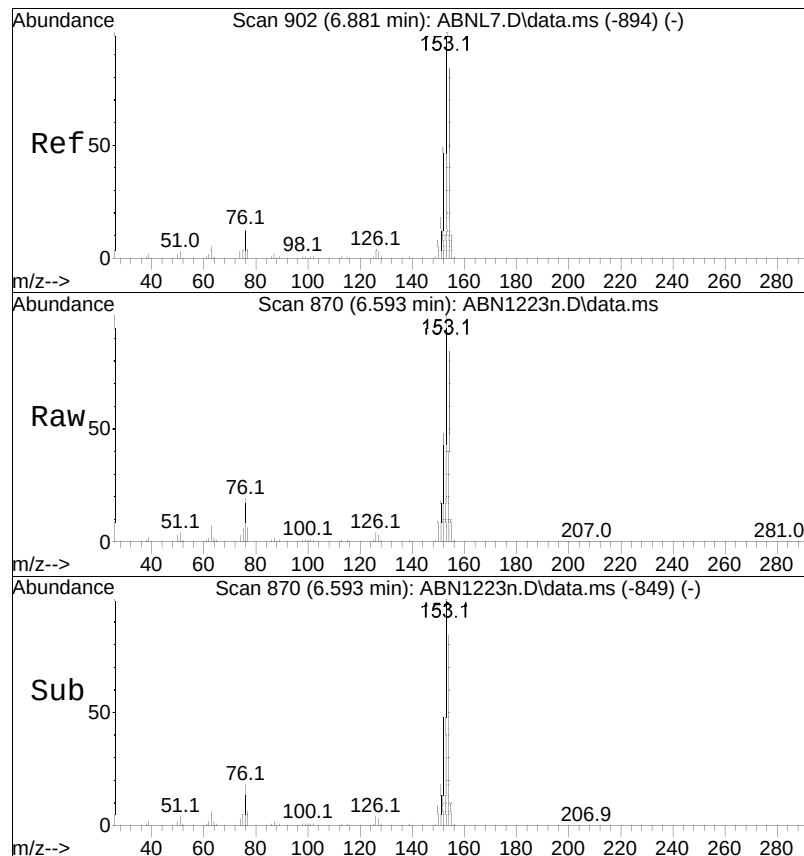




#64  
 3-Nitroaniline  
 Concen: 52.36 ug/ml  
 RT: 6.546 min Scan# 862  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

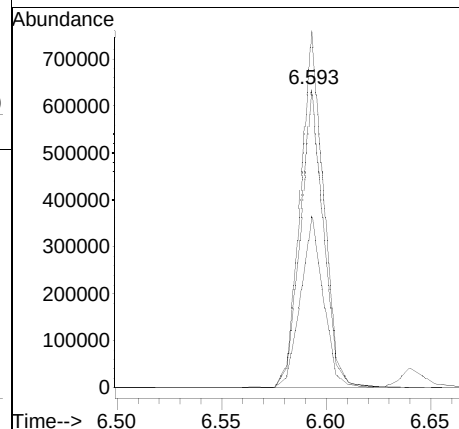
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 160626 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 92.8  | 95.4  | 143.2# |
| 108       | 7.5   | 8.1   | 12.1#  |

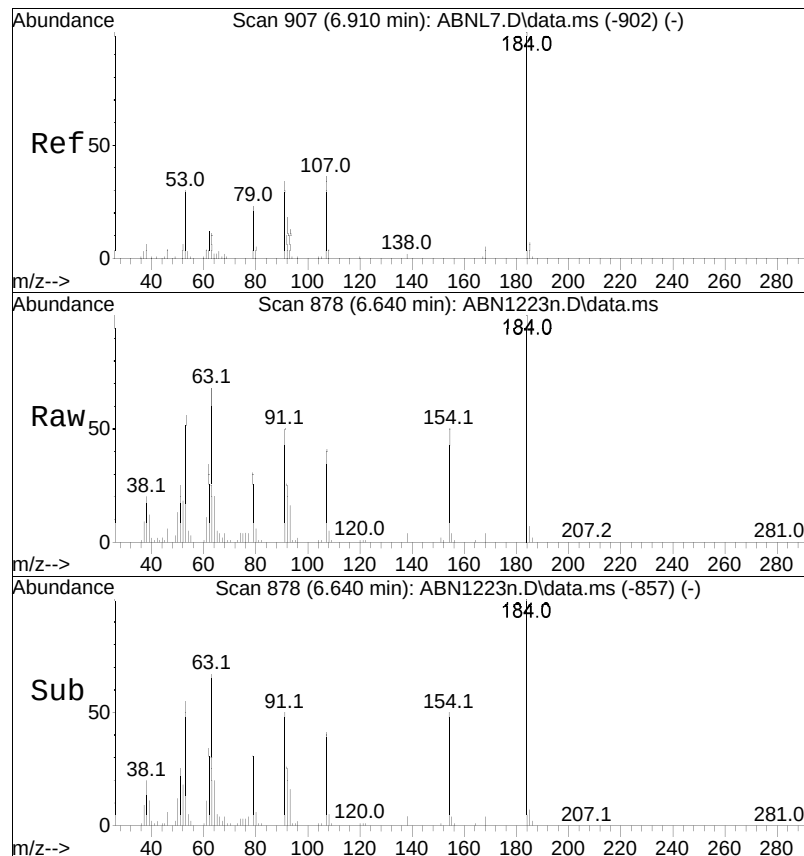




#65  
 Acenaphthene  
 Concen: 47.38 ug/ml  
 RT: 6.593 min Scan# 870  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

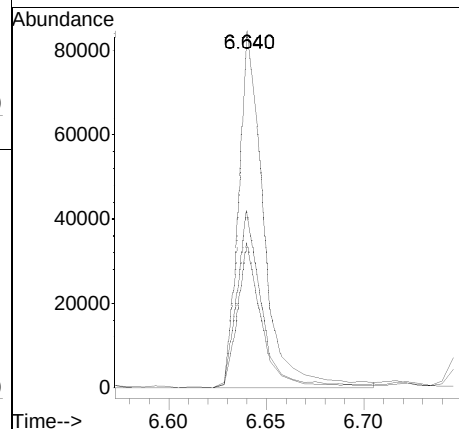
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 154 | 100   |       |       |       |
| 153 | 120.3 | 89.2  | 133.8 |       |
| 152 | 57.2  | 44.2  | 66.2  |       |

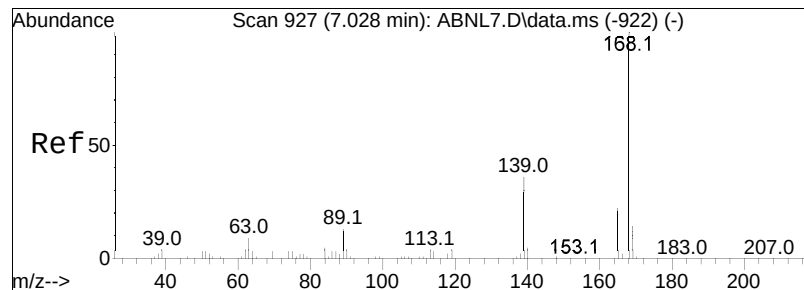




#66  
 2,4-Dinitrophenol  
 Concen: 51.48 ug/ml  
 RT: 6.640 min Scan# 878  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

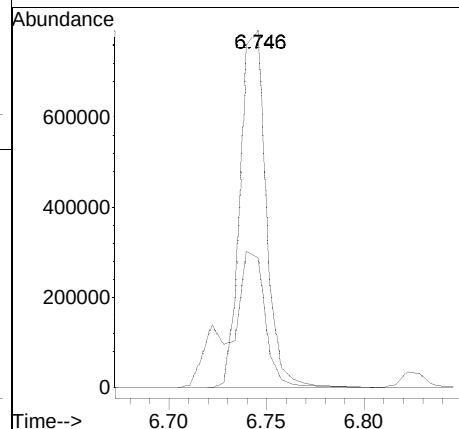
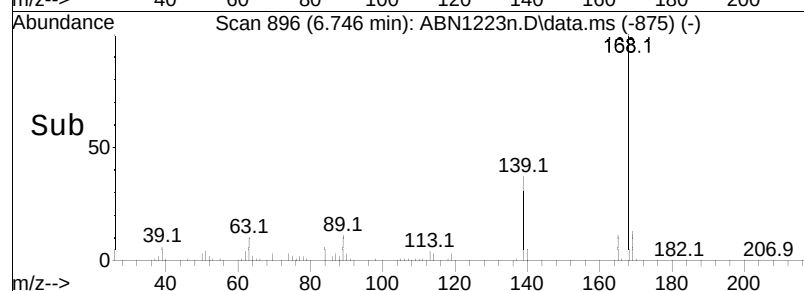
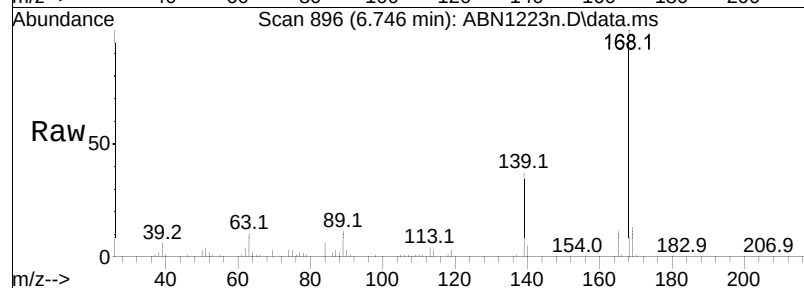
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 184   | Resp: | 75884 |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 107       | 39.2  | 40.6  | 61.0# |
| 91        | 47.6  | 47.3  | 70.9  |

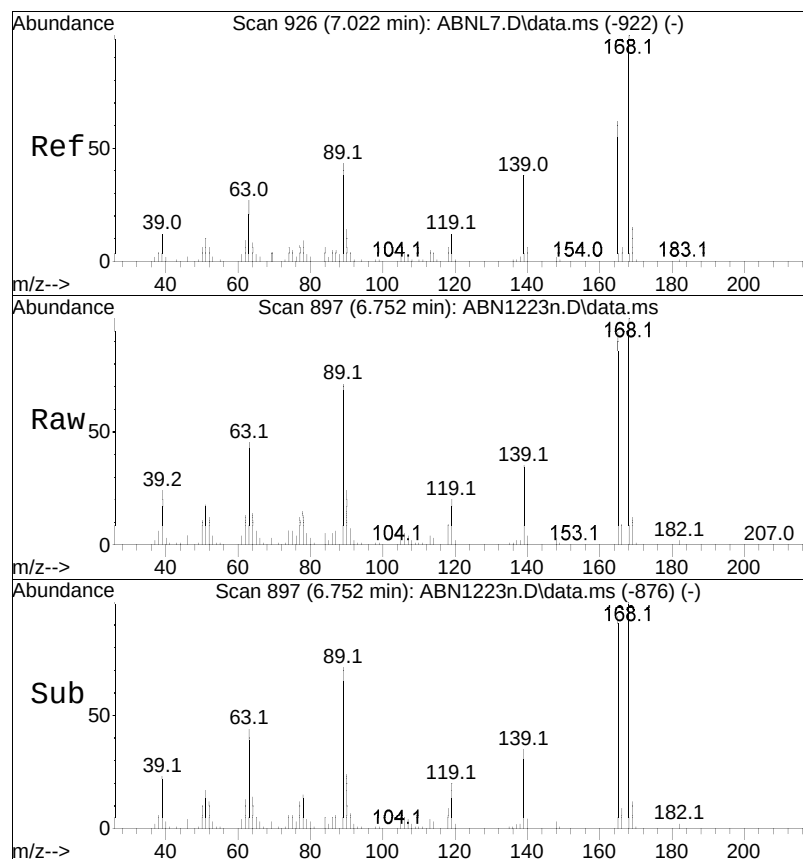




#67  
 Dibenzofuran  
 Concen: 47.50 ug/ml  
 RT: 6.746 min Scan# 896  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

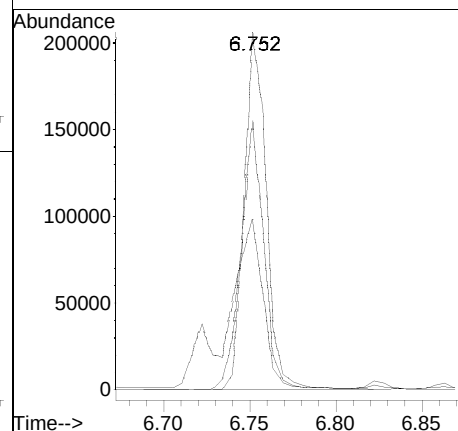
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 54.6  | 33.3  | 49.9# |

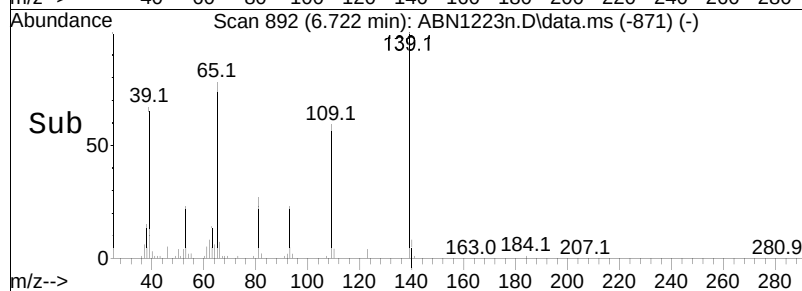
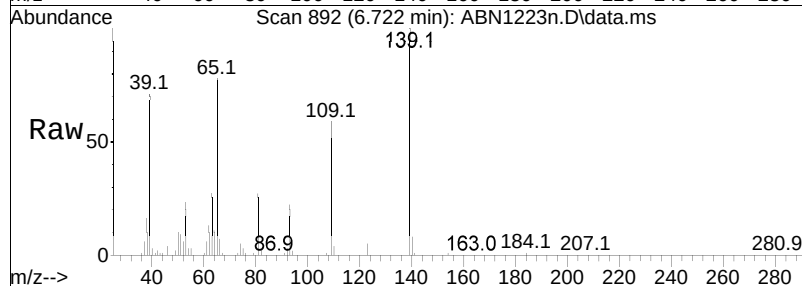
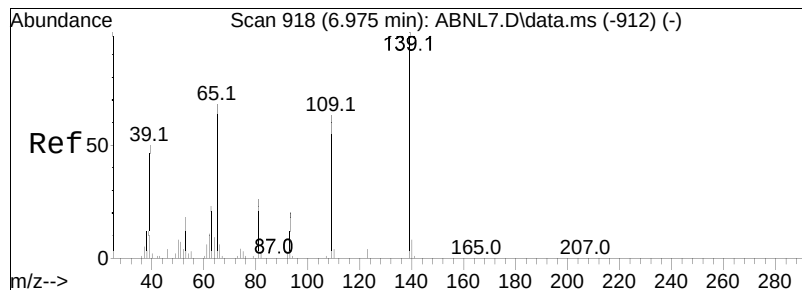




#68  
 2,4-Dinitrotoluene  
 Concen: 54.40 ug/ml  
 RT: 6.752 min Scan# 897  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

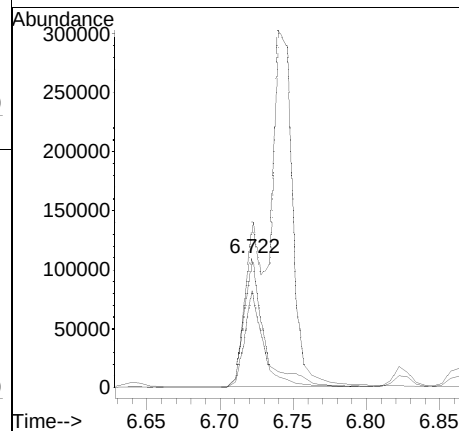
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 183182 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 89        | 78.4  | 82.6  | 124.0# |
| 63        | 57.6  | 56.9  | 85.3   |

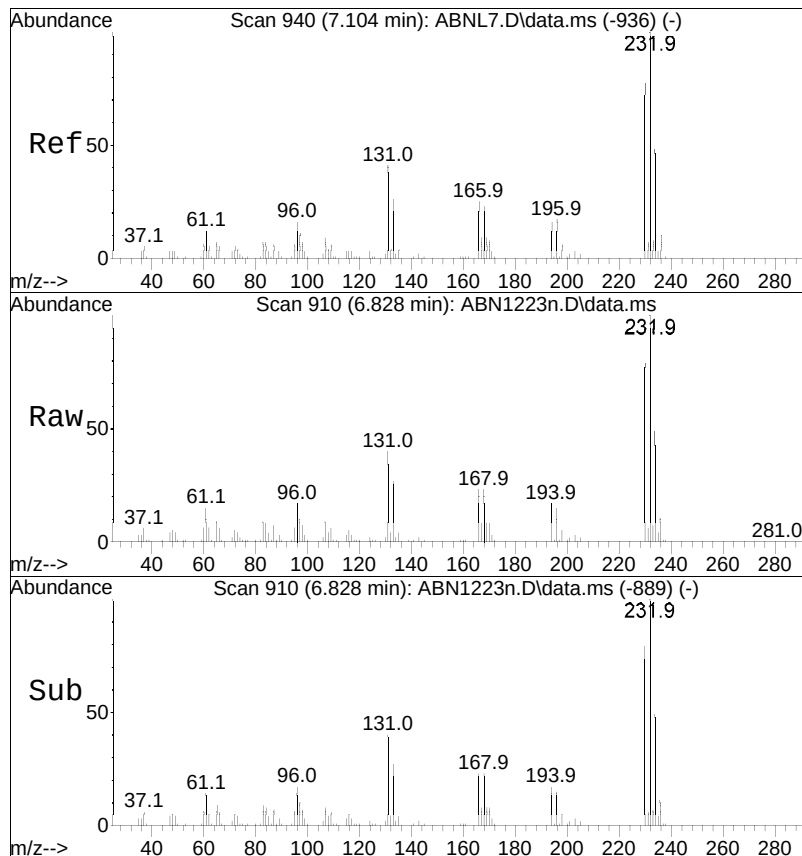




#69  
 4-Nitrophenol  
 Concen: 52.20 ug/ml  
 RT: 6.722 min Scan# 892  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

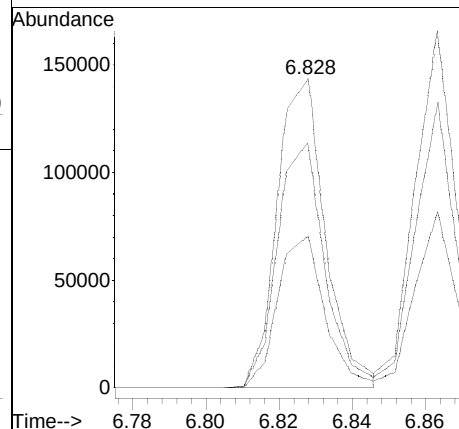
|                       |              |
|-----------------------|--------------|
| Tgt Ion: 65           | Resp: 106390 |
| Ion Ratio Lower Upper |              |
| 65 100                |              |
| 109 70.3              | 60.7 91.1    |
| 139 374.0             | 90.3 135.5#  |

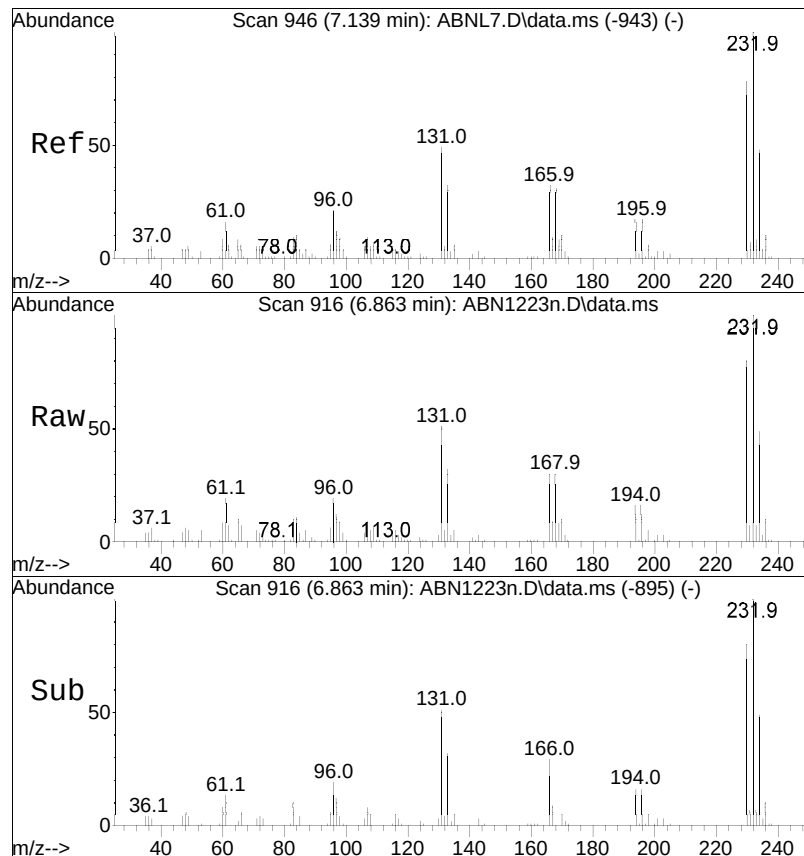




#70  
 2,3,5,6-Tetrachlorophenol  
 Concen: 44.66 ug/ml  
 RT: 6.828 min Scan# 910  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

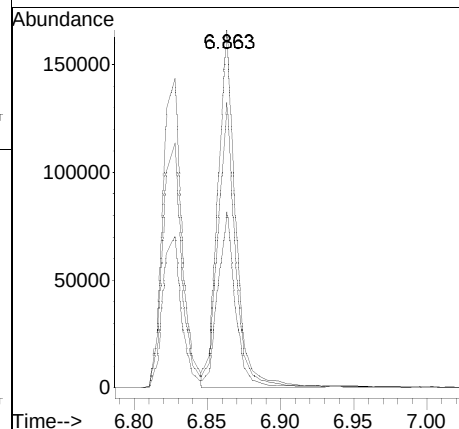
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 131609 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 78.2  | 64.1  | 96.1   |
| 234       | 48.2  | 38.2  | 57.2   |



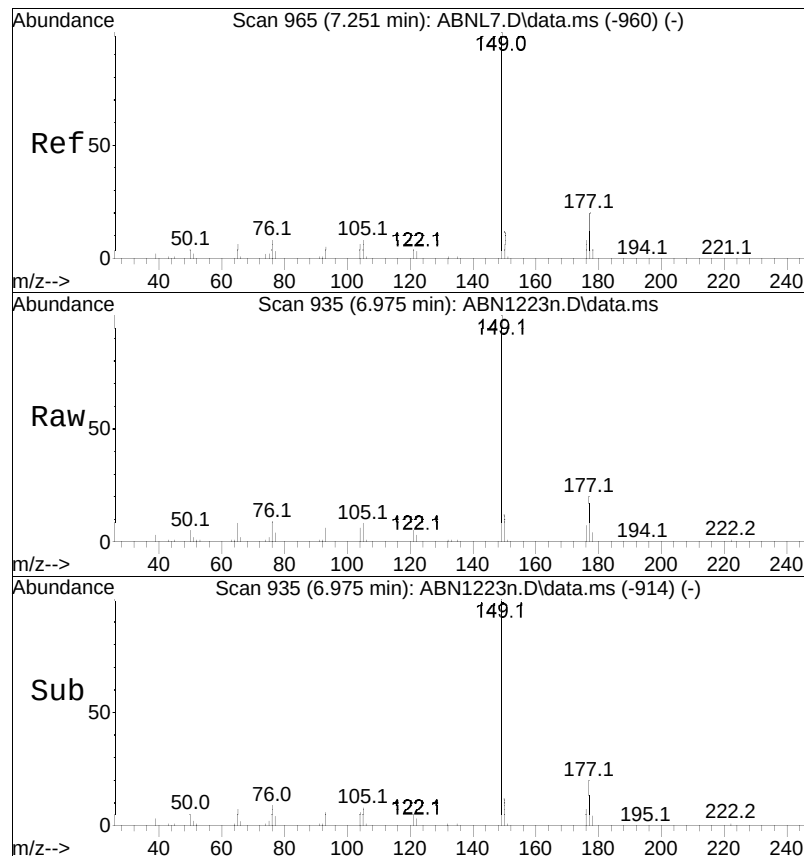


#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 46.90 ug/ml  
 RT: 6.863 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 140603 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 77.3  | 61.6  | 92.4   |
| 234       | 49.0  | 39.0  | 58.6   |

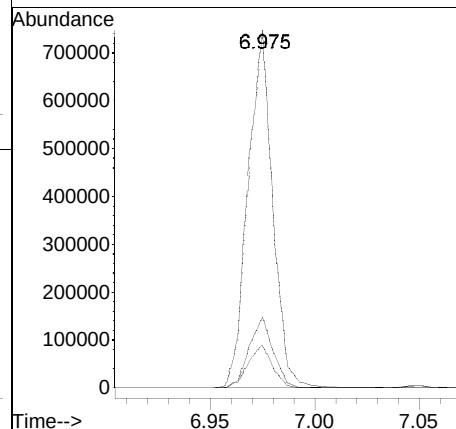


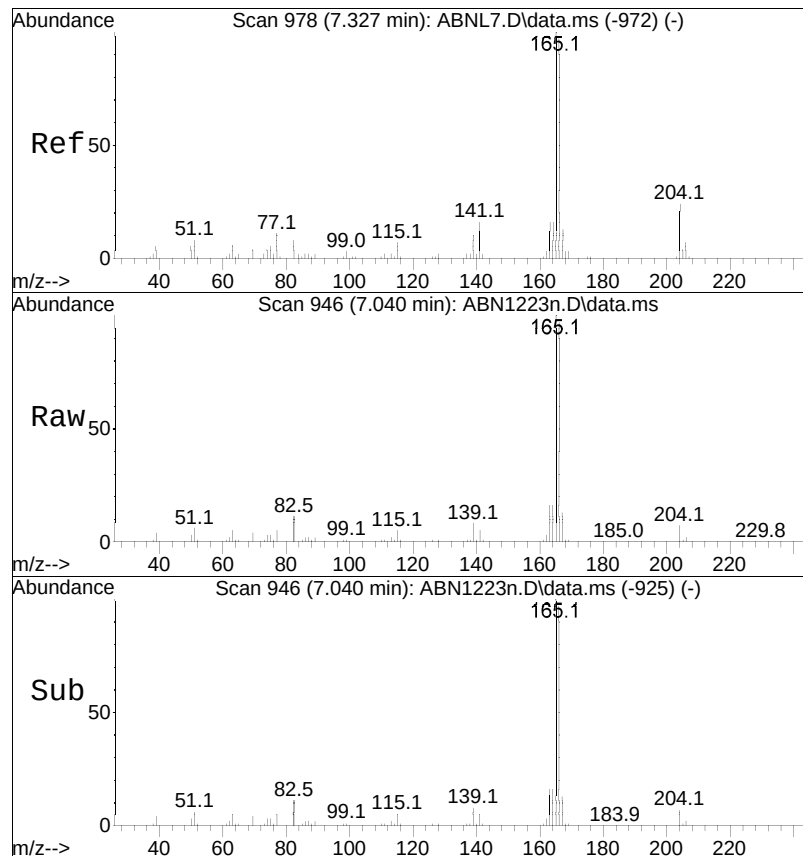




#72  
 Diethyl phthalate  
 Concen: 47.24 ug/ml  
 RT: 6.975 min Scan# 935  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

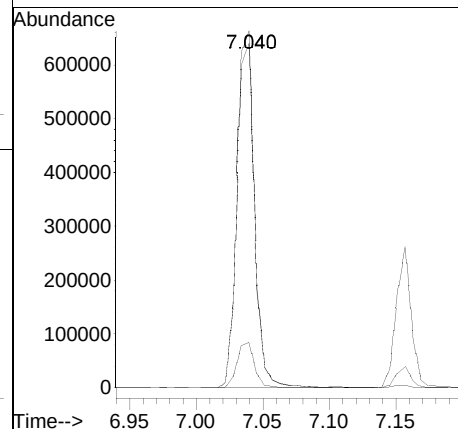
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 19.5  | 14.7  | 22.1  |
| 150     | 12.1  | 9.4   | 14.0  |

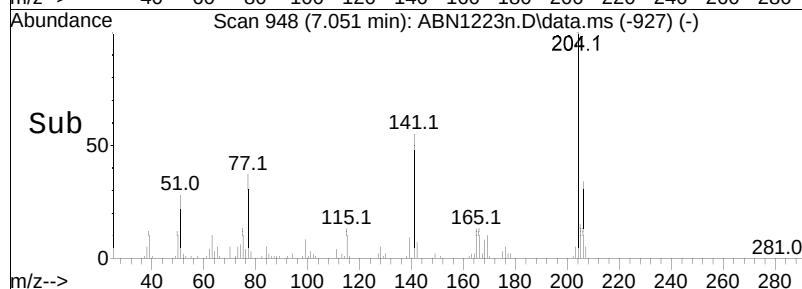
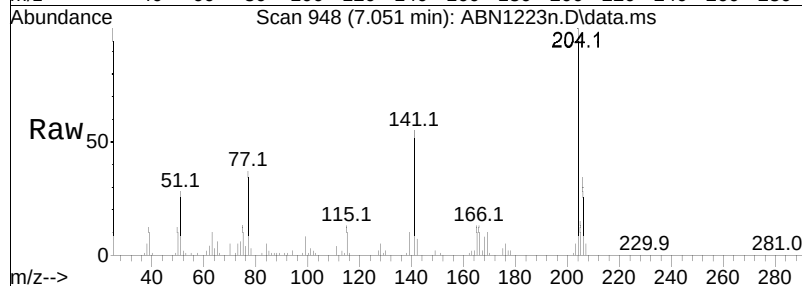
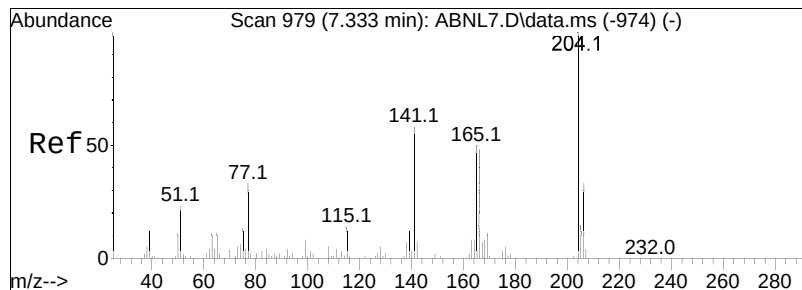




#73  
 Fluorene  
 Concen: 47.87 ug/ml  
 RT: 7.040 min Scan# 946  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

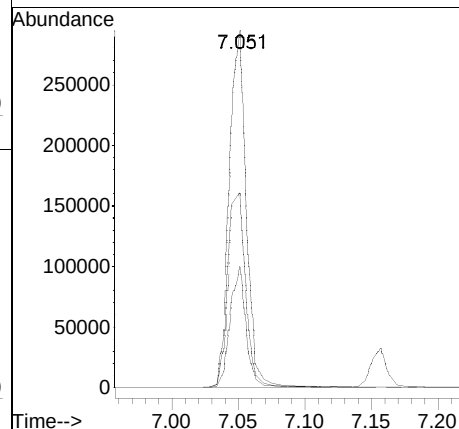
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 103.4 | 76.7  | 115.1 |
| 167     | 13.4  | 11.0  | 16.4  |

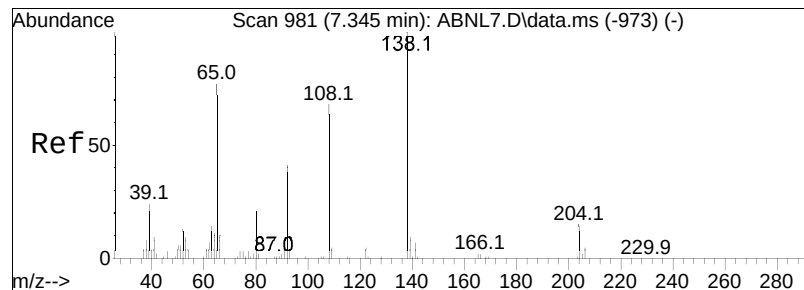




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 45.58 ug/ml  
 RT: 7.051 min Scan# 948  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 32.2  | 25.8  | 38.6  |
| 141     | 57.4  | 56.2  | 84.4  |





#75

4-Nitroaniline

Concen: 45.66 ug/ml

RT: 7.069 min Scan# 951

Delta R.T. 0.000 min

Lab File: ABN1223n.D

Acq: 23 Dec 2019 11:08 pm

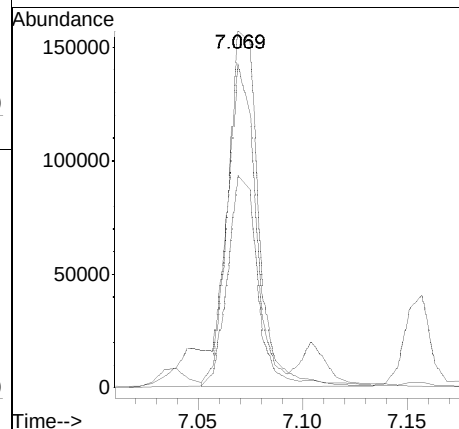
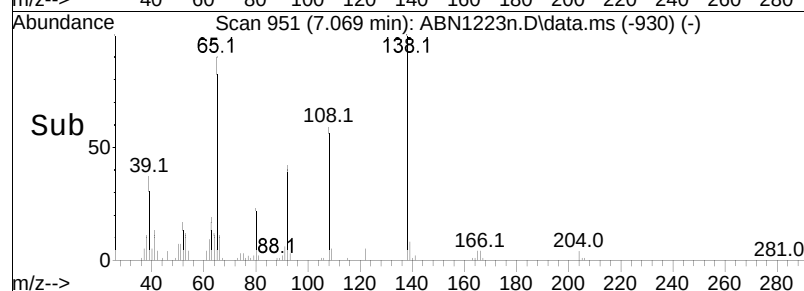
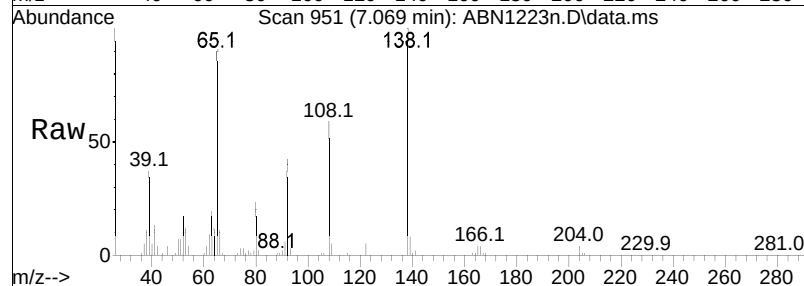
Tgt Ion:138 Resp: 159189

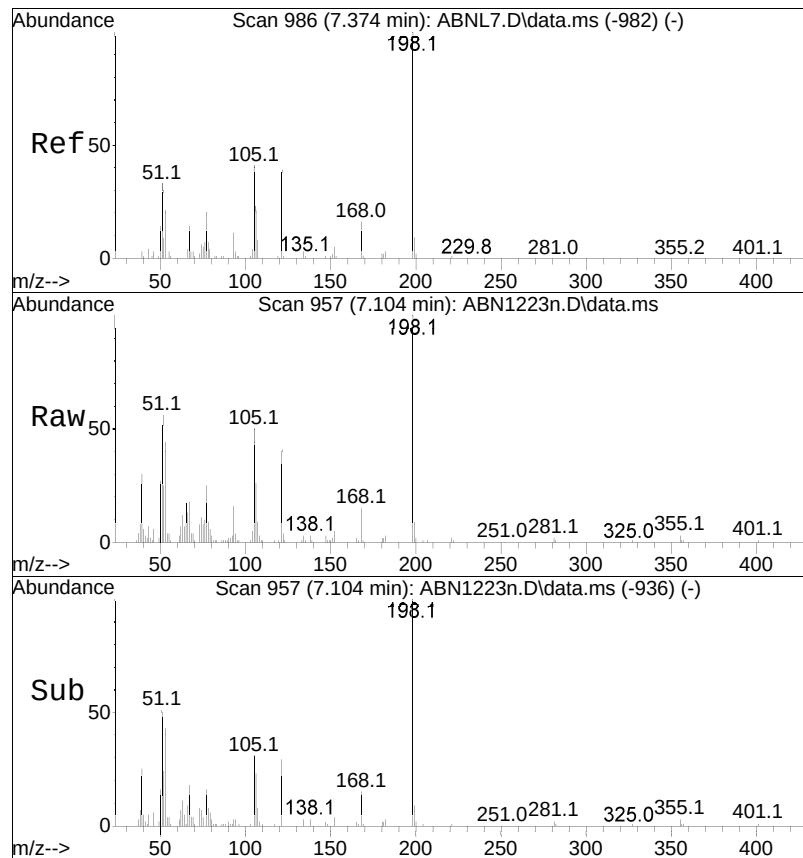
Ion Ratio Lower Upper

138 100

108 61.2 54.2 81.4

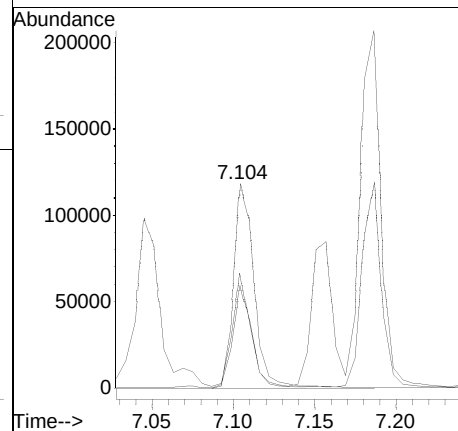
65 96.1 88.2 132.4

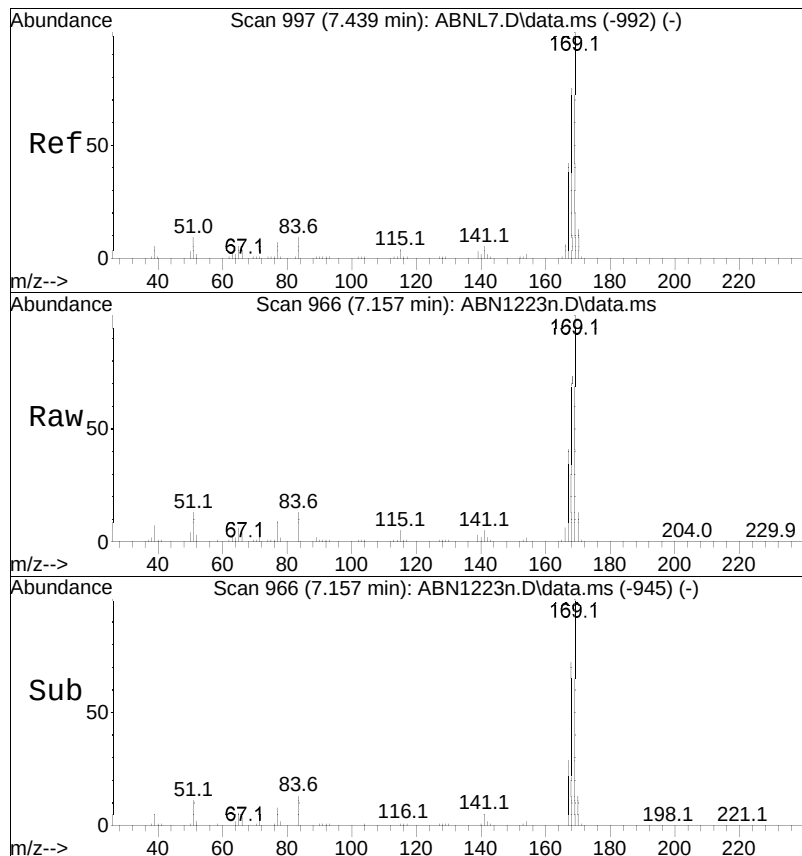




#76  
 4,6-Dinitro-o-cresol  
 Concen: 50.20 ug/ml  
 RT: 7.104 min Scan# 957  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

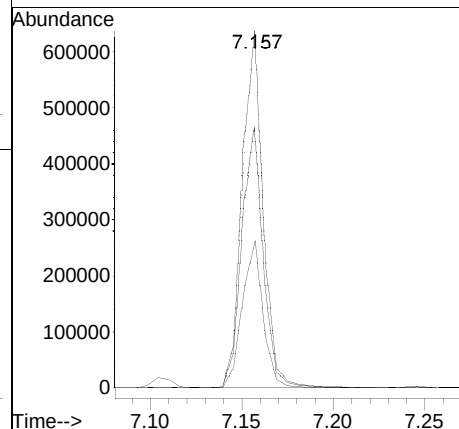
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:198 | Resp: | 104825 |
| Ion | Ratio   | Lower | Upper  |
| 198 | 100     |       |        |
| 51  | 47.1    | 41.0  | 61.4   |
| 105 | 45.2    | 49.0  | 73.4#  |

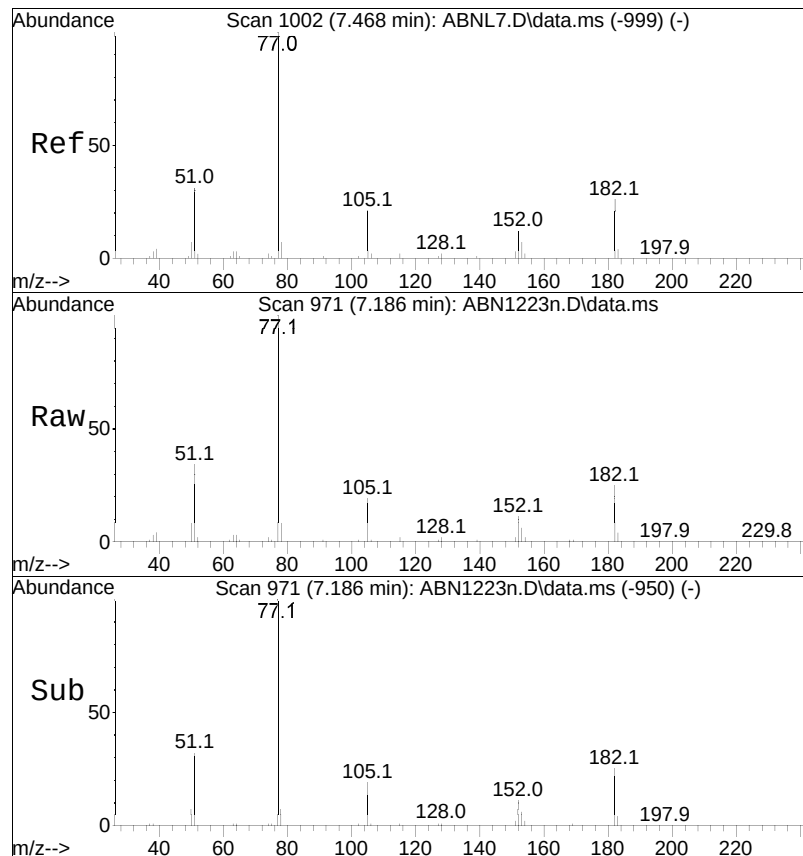




#77  
 NDPA/DPA  
 Concen: 47.56 ug/ml  
 RT: 7.157 min Scan# 966  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

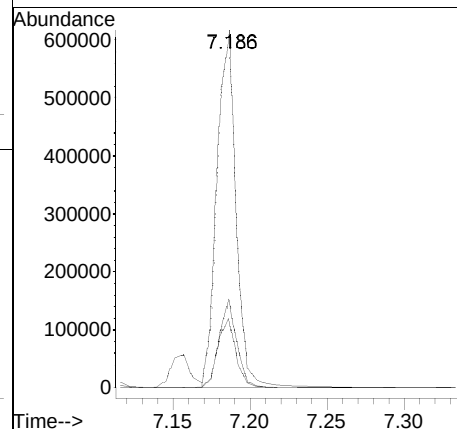
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 74.8  | 58.2  | 87.4  |
| 167     | 41.3  | 31.7  | 47.5  |

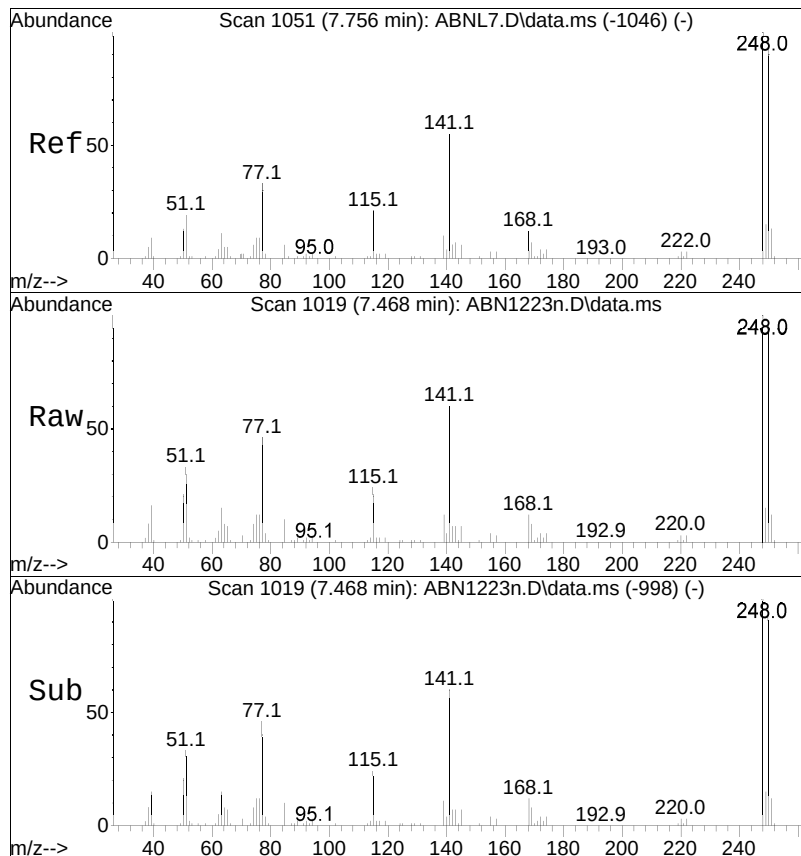




#78  
 Azobenzene  
 Concen: 45.64 ug/ml  
 RT: 7.186 min Scan# 971  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

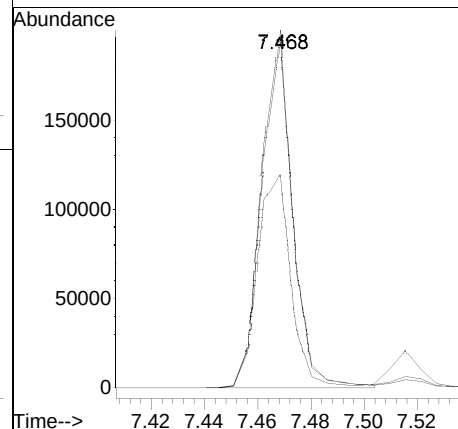
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 23.5  | 14.9  | 22.3# |
| 105     | 18.9  | 12.8  | 19.2  |



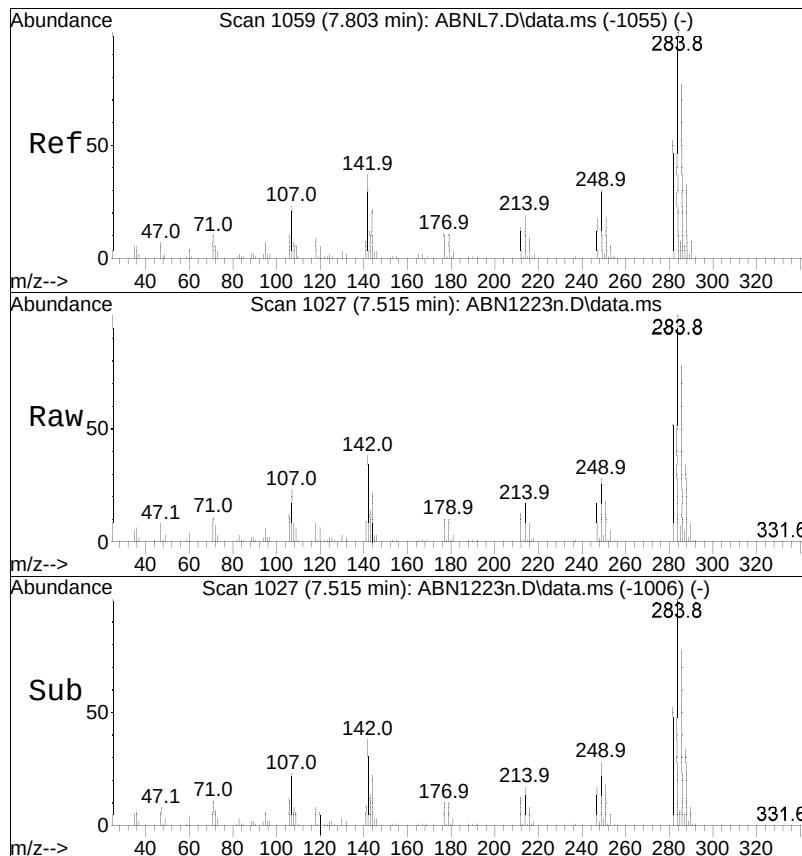


#80  
 4-Bromophenyl phenyl ether  
 Concen: 46.69 ug/ml  
 RT: 7.468 min Scan# 1019  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 160412 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 65.0  | 68.2  | 102.4# |
| 250       | 96.3  | 76.5  | 114.7  |

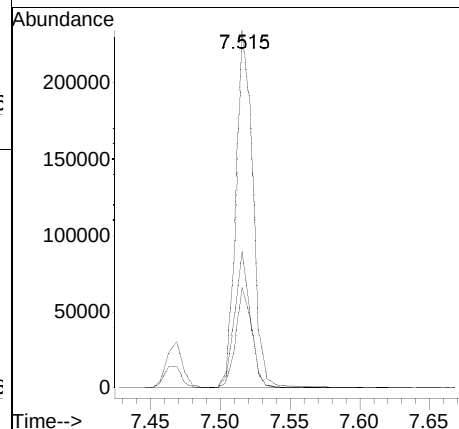


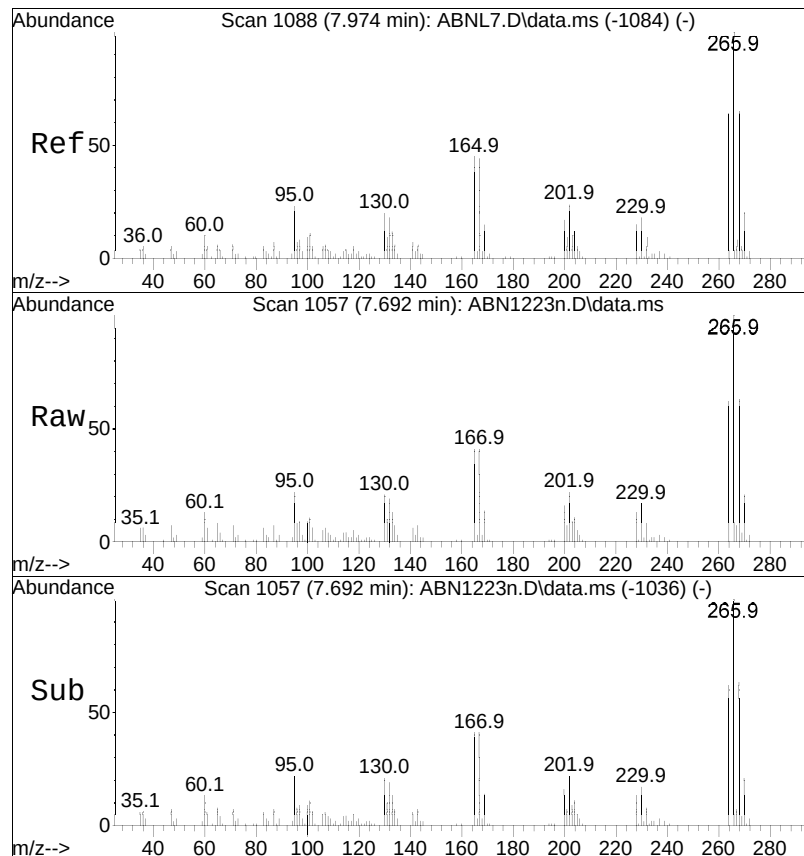




#81  
 Hexachlorobenzene  
 Concen: 48.34 ug/ml  
 RT: 7.515 min Scan# 1027  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

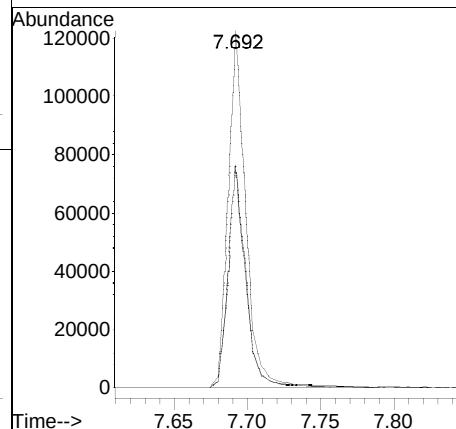
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.9  | 38.1  | 57.1# |
| 249     | 27.1  | 20.7  | 31.1  |

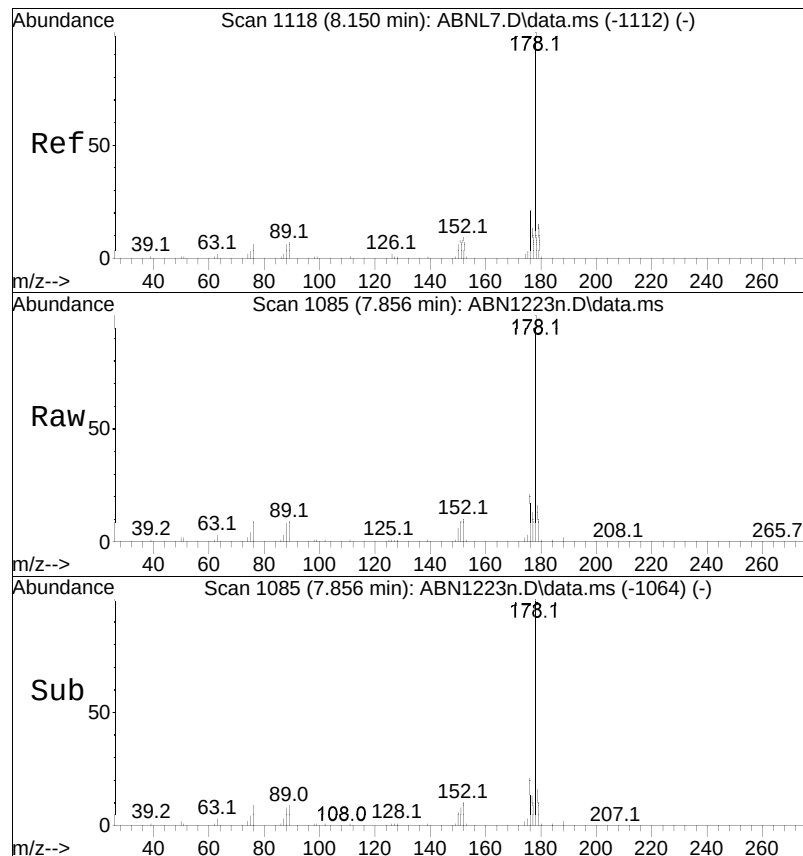




#82  
 Pentachlorophenol  
 Concen: 41.80 ug/ml  
 RT: 7.692 min Scan# 1057  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

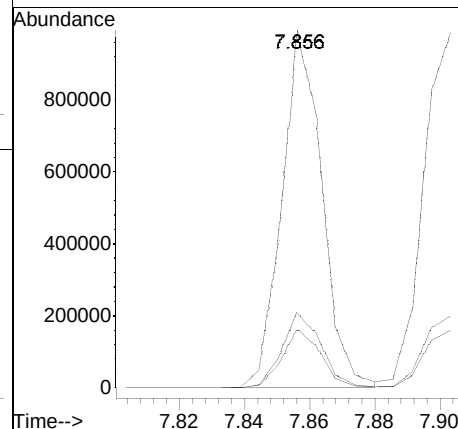
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 102599 |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 61.0  | 49.4  | 74.2   |
| 268       | 62.0  | 51.1  | 76.7   |

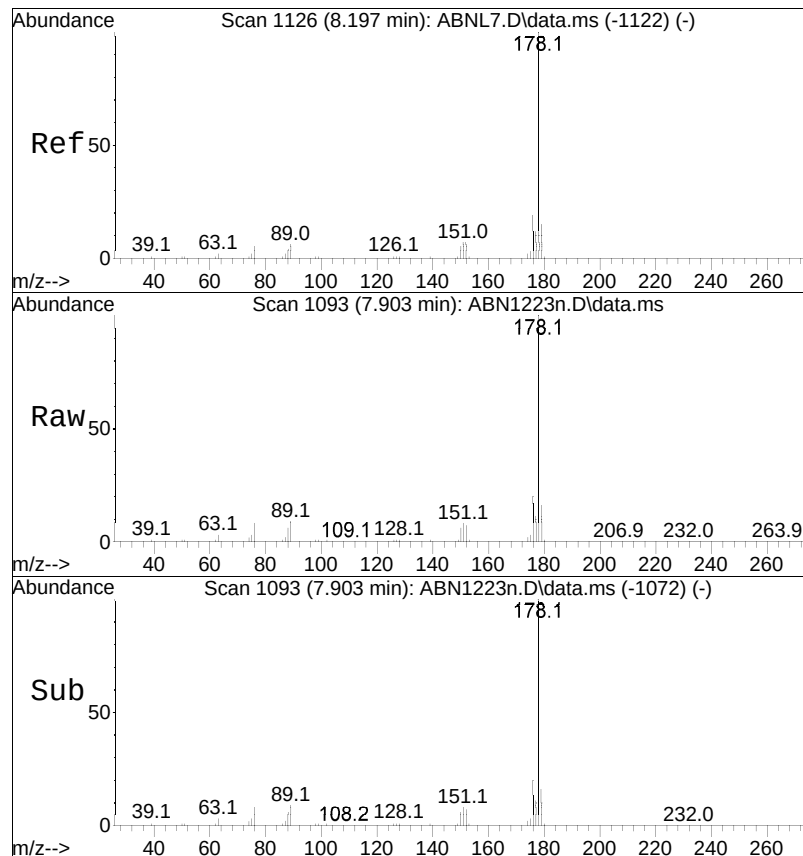




#89  
 Phenanthrene  
 Concen: 46.68 ug/ml  
 RT: 7.856 min Scan# 1085  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

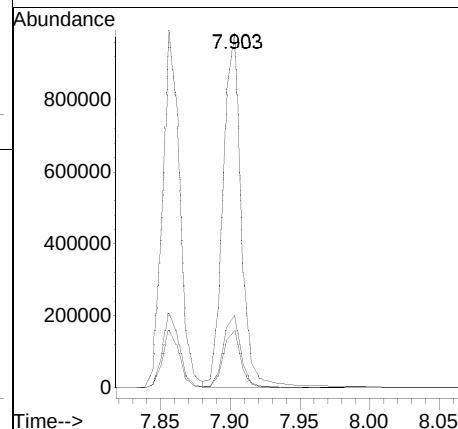
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 847869 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.0  | 12.9  | 19.3   |
| 176       | 20.7  | 16.7  | 25.1   |

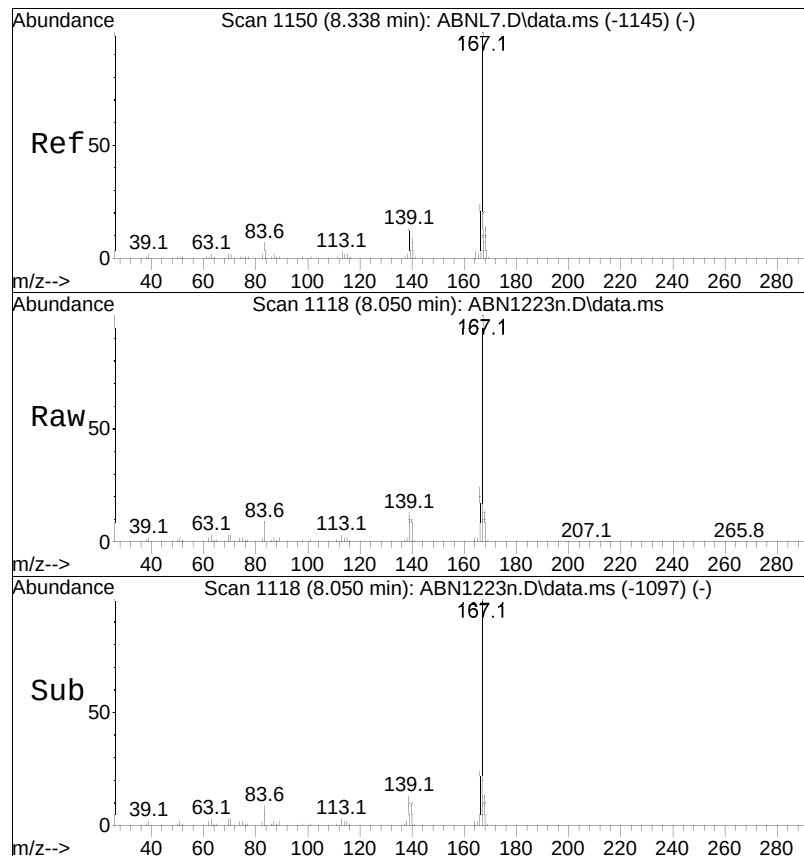




#90  
 Anthracene  
 Concen: 49.10 ug/ml  
 RT: 7.903 min Scan# 1093  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

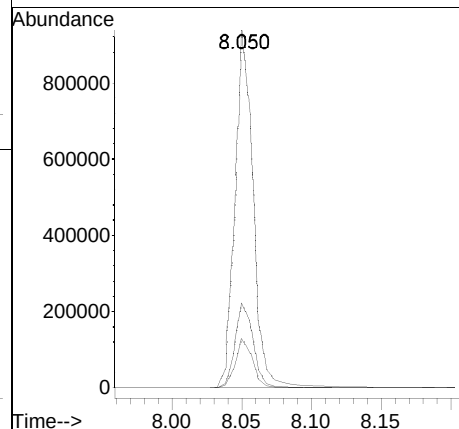
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.8  | 12.7  | 19.1  |
| 176     | 20.1  | 16.6  | 24.8  |

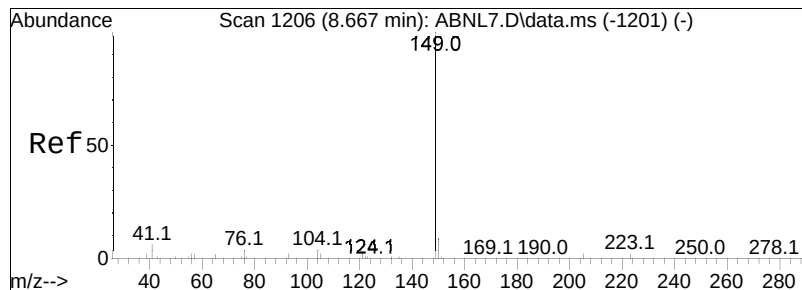




#91  
 Carbazole  
 Concen: 48.66 ug/ml  
 RT: 8.050 min Scan# 1118  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

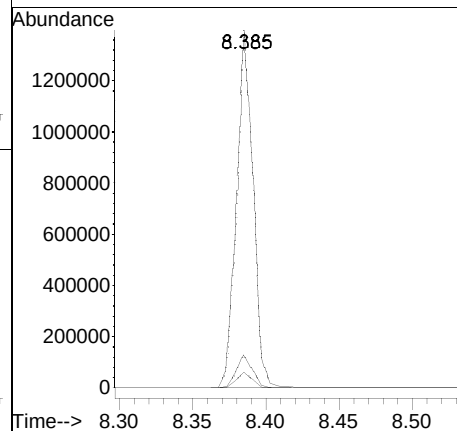
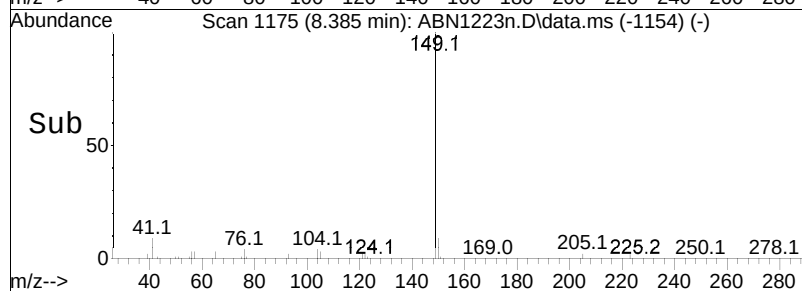
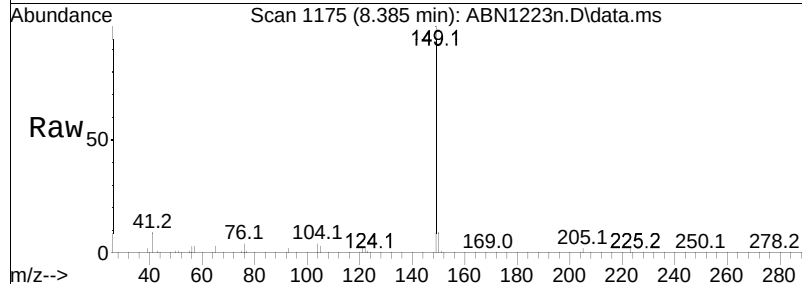
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 843951 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 168       | 13.6  | 11.3  | 16.9   |
| 166       | 24.2  | 18.9  | 28.3   |

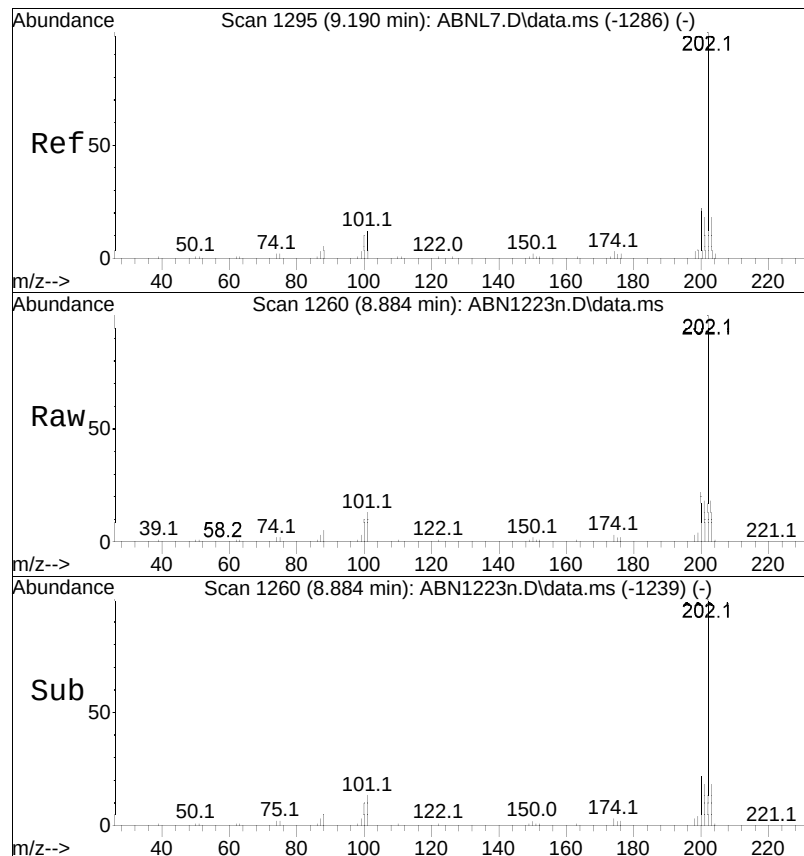




#92  
 Di-n-butylphthalate  
 Concen: 51.29 ug/ml  
 RT: 8.385 min Scan# 1175  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

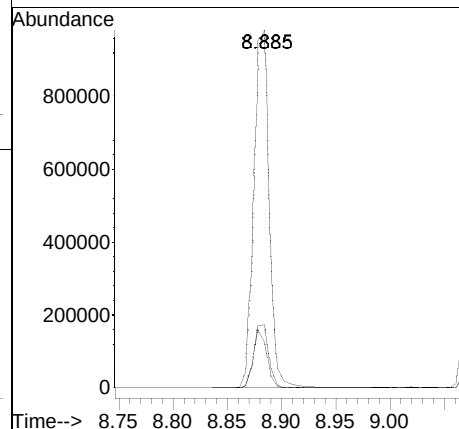
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.1   | 7.8   | 11.6  |
| 104     | 4.3   | 4.8   | 7.2#  |

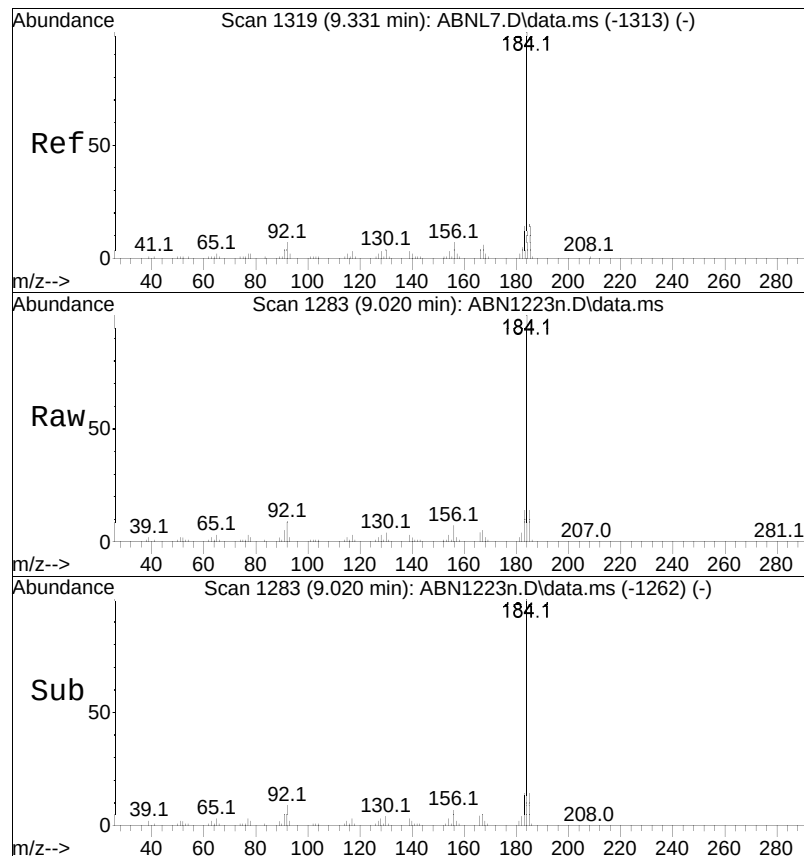




#93  
 Fluoranthene  
 Concen: 48.03 ug/ml  
 RT: 8.884 min Scan# 1260  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

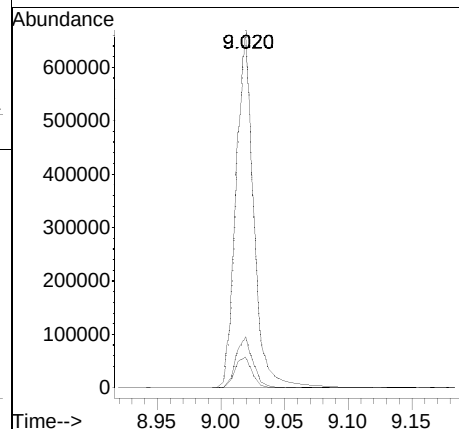
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:202 | Resp: | 965154 |
| Ion | Ratio   | Lower | Upper  |
| 202 | 100     |       |        |
| 101 | 14.8    | 18.6  | 28.0#  |
| 203 | 17.7    | 14.2  | 21.2   |



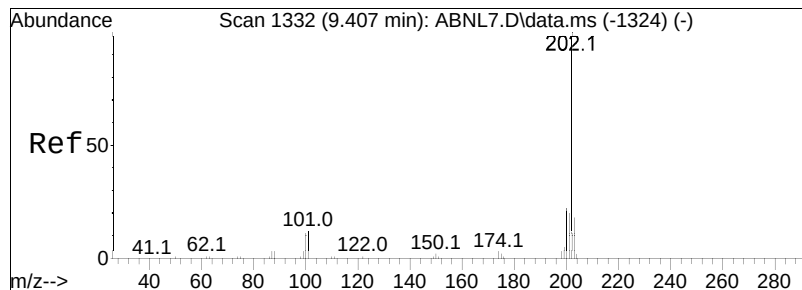


#94  
Benzidine  
Concen: 46.10 ug/ml  
RT: 9.020 min Scan# 1283  
Delta R.T. 0.000 min  
Lab File: ABN1223n.D  
Acq: 23 Dec 2019 11:08 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 184   | Resp: | 640758 |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 92        | 8.9   | 11.7  | 17.5#  |
| 185       | 14.2  | 12.8  | 19.2   |

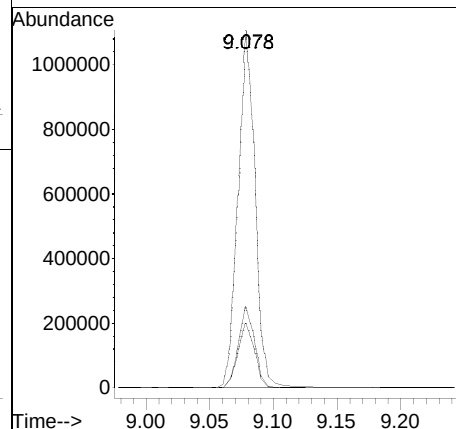
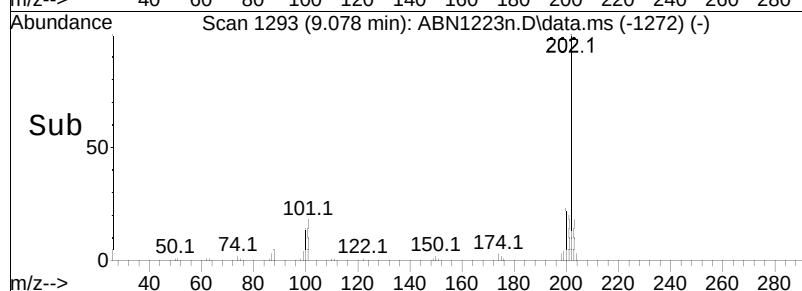
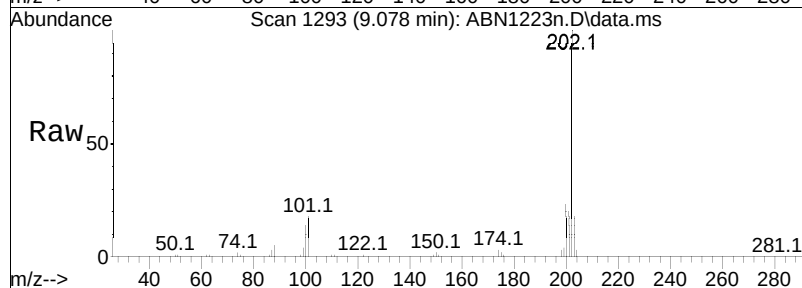


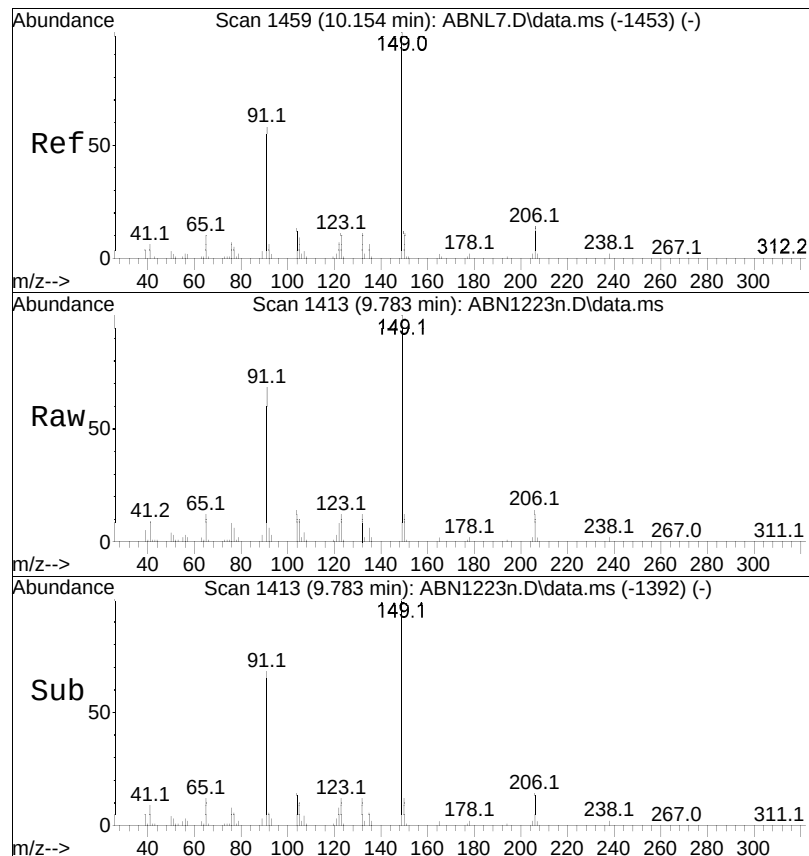




#95  
 Pyrene  
 Concen: 47.94 ug/ml  
 RT: 9.078 min Scan# 1293  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

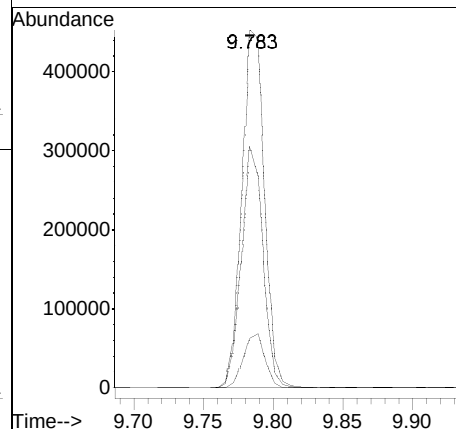
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.3  | 17.8  | 26.8  |
| 203     | 18.2  | 14.7  | 22.1  |

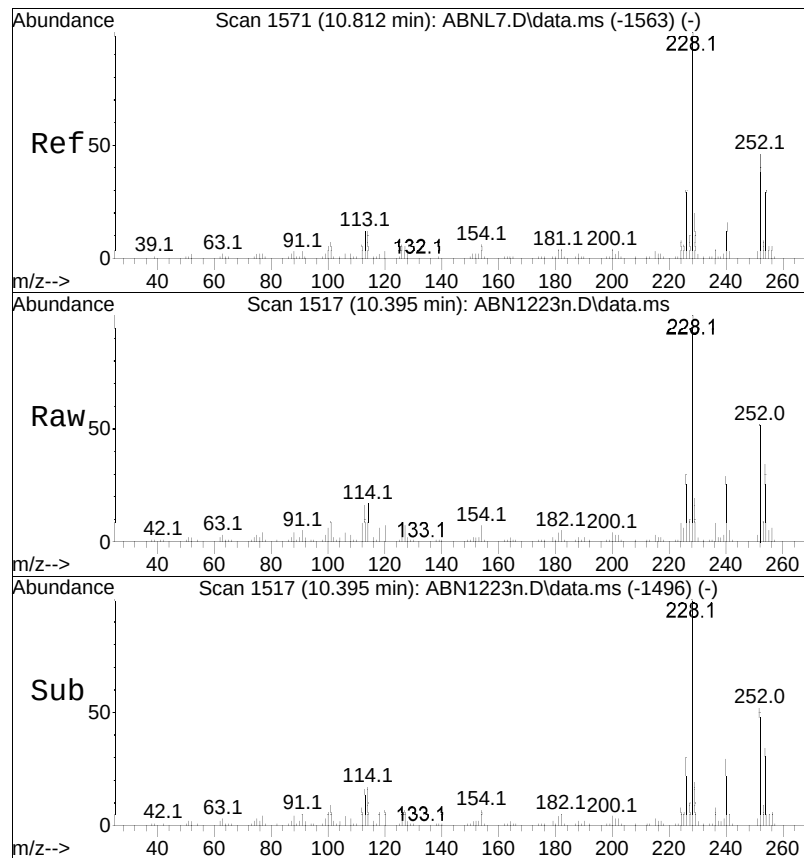




#97  
 Butyl benzyl phthalate  
 Concen: 52.21 ug/ml  
 RT: 9.783 min Scan# 1413  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

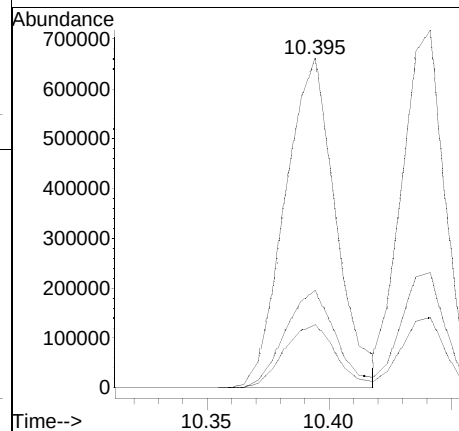
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 504738 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 64.6  | 69.0  | 103.6# |
| 206       | 14.6  | 11.8  | 17.8   |

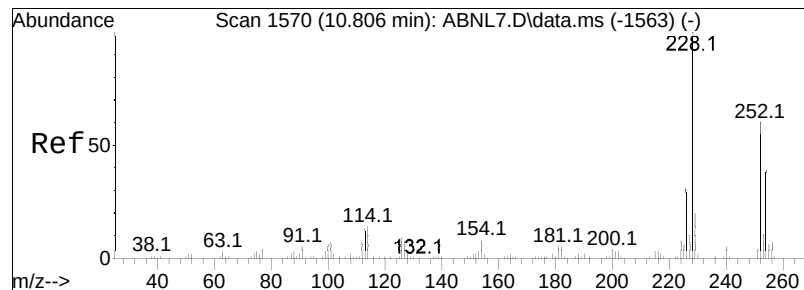




#105  
 Benzo(a)anthracene  
 Concen: 45.30 ug/ml  
 RT: 10.395 min Scan# 1517  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

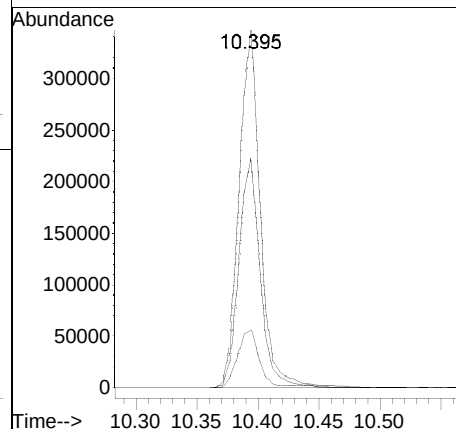
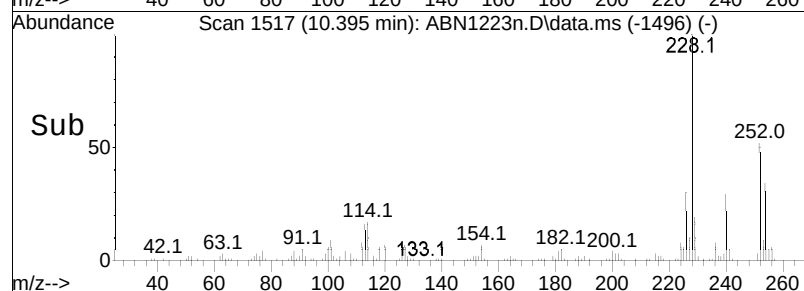
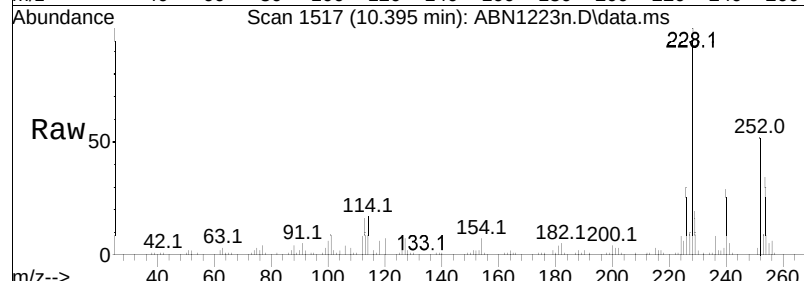
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 23.7  | 35.5  |
| 229     | 19.8  | 16.2  | 24.4  |

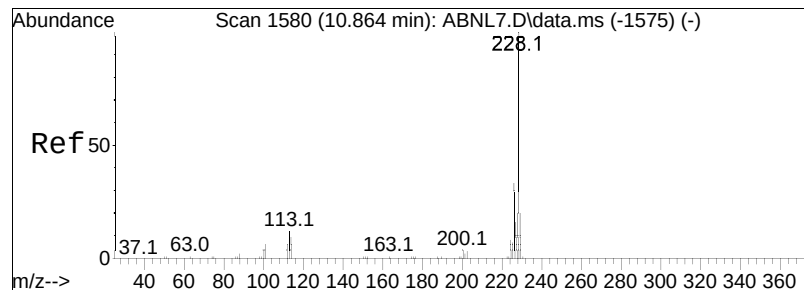




#106  
 3,3'-Dichlorobenzidine  
 Concen: 50.53 ug/ml  
 RT: 10.395 min Scan# 1517  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 126     | 16.8  | 17.8  | 26.6# |
| 254     | 64.5  | 51.8  | 77.6  |





#107

Chrysene

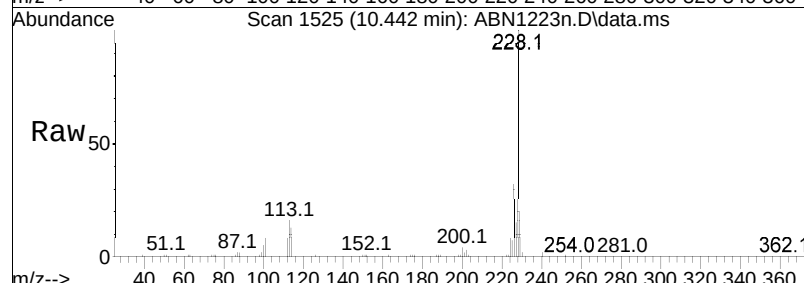
Concen: 44.17 ug/ml

RT: 10.442 min Scan# 1525

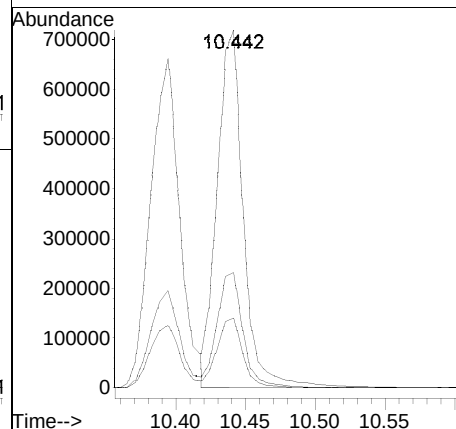
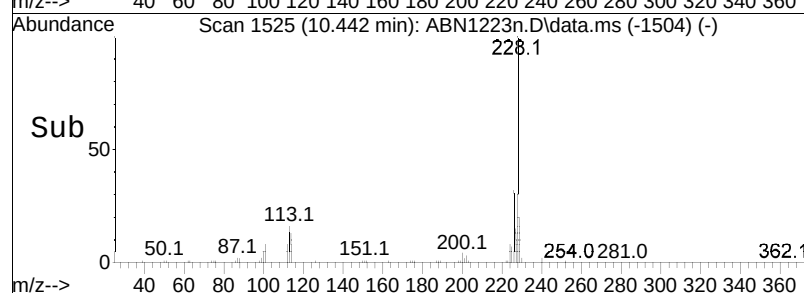
Delta R.T. 0.000 min

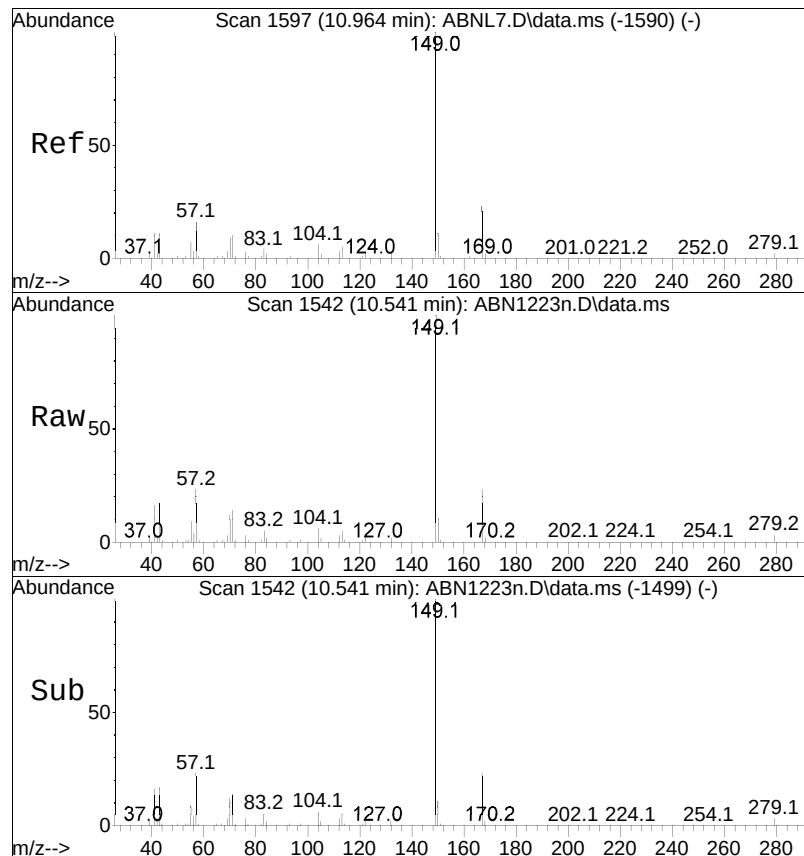
Lab File: ABN1223n.D

Acq: 23 Dec 2019 11:08 pm



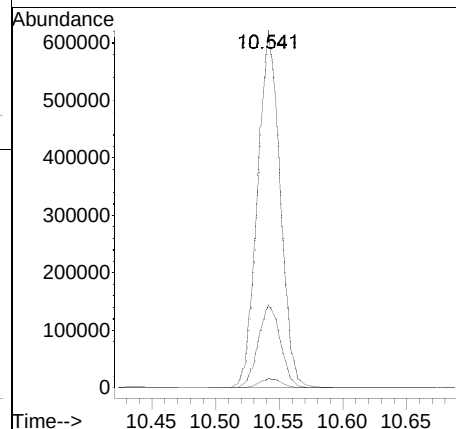
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 929137 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.5  | 25.9  | 38.9   |
| 229       | 19.6  | 16.2  | 24.4   |

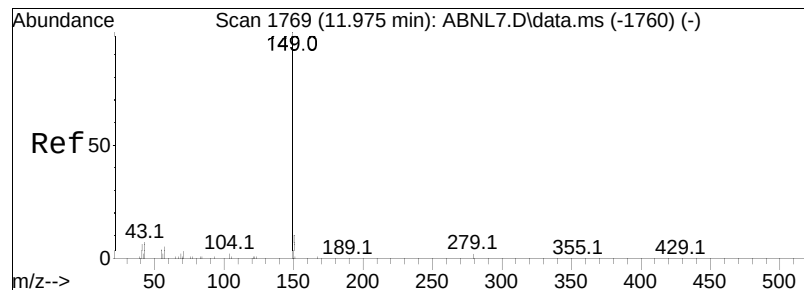




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 49.84 ug/ml  
 RT: 10.541 min Scan# 1542  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

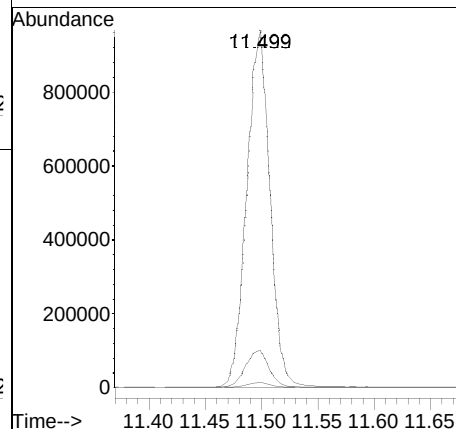
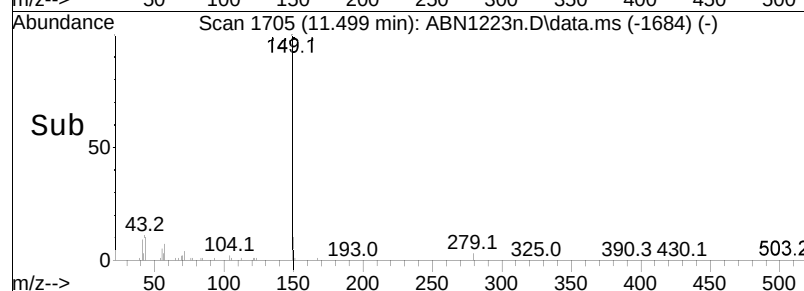
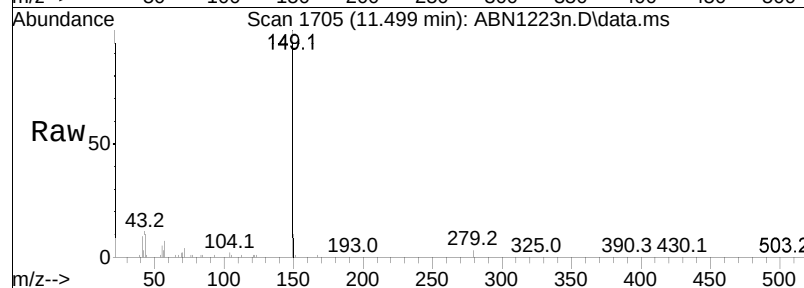
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 758332 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 23.1  | 21.0  | 31.4   |
| 279       | 2.7   | 3.6   | 5.4#   |

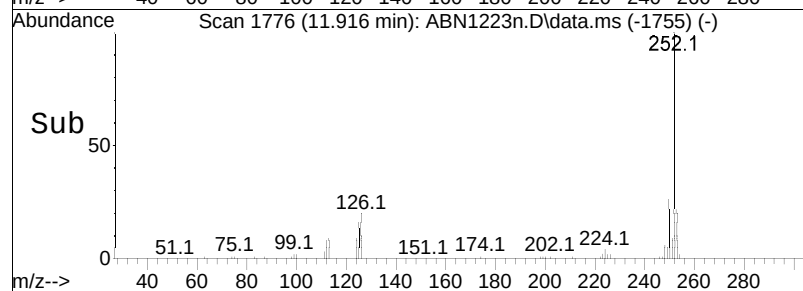
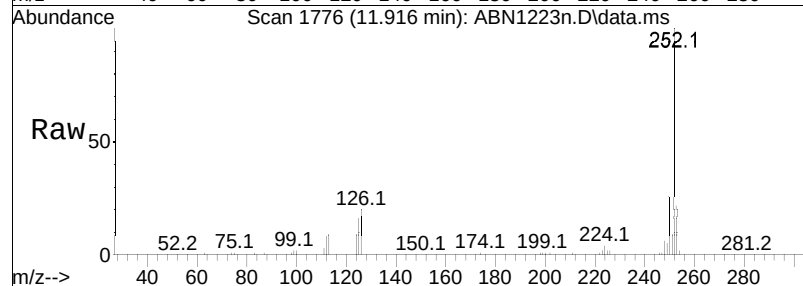
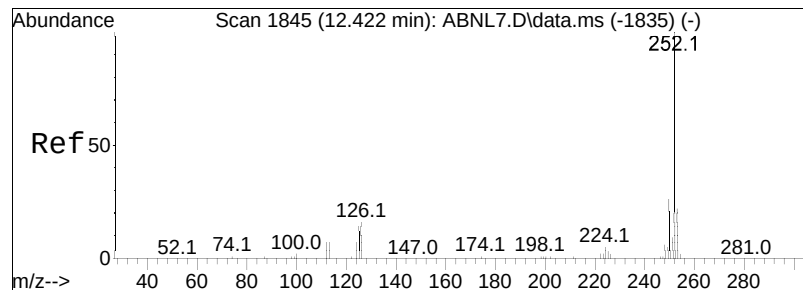




#109  
 Di-n-octylphthalate  
 Concen: 50.75 ug/ml  
 RT: 11.499 min Scan# 1705  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

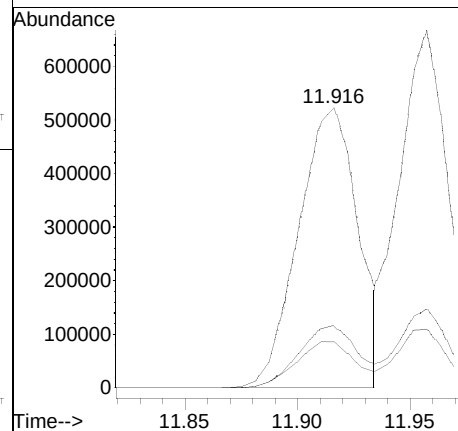
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 43      | 10.7  | 8.4   | 12.6  |
| 167     | 1.3   | 1.0   | 1.6   |



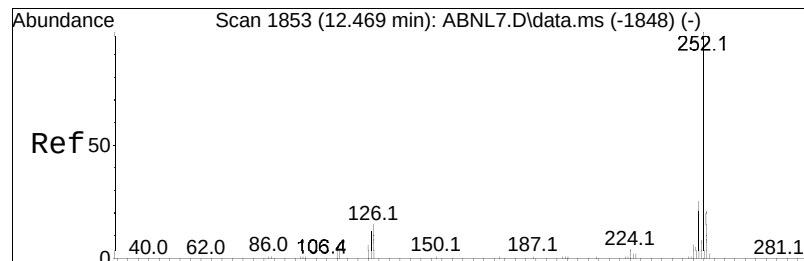


#110  
 Benzo(b)fluoranthene  
 Concen: 43.71 ug/ml  
 RT: 11.916 min Scan# 1776  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 16.7  | 16.9  | 25.3# |
| 253     | 22.1  | 17.7  | 26.5  |

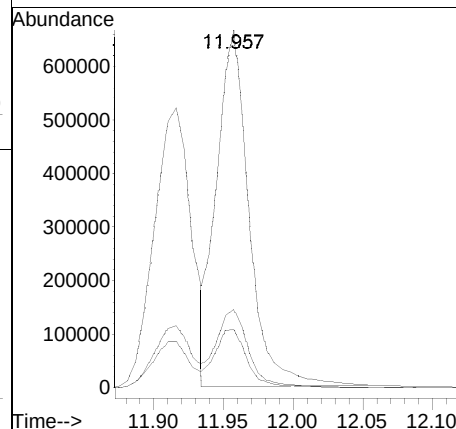
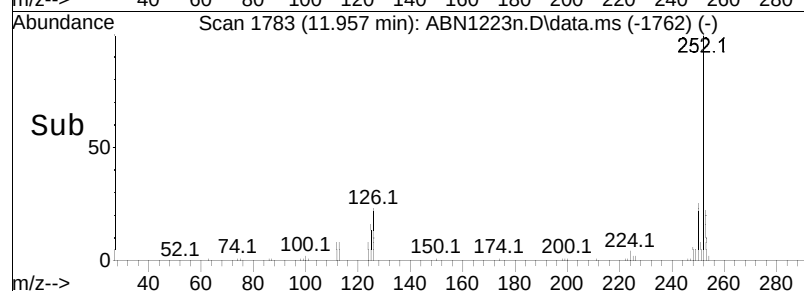
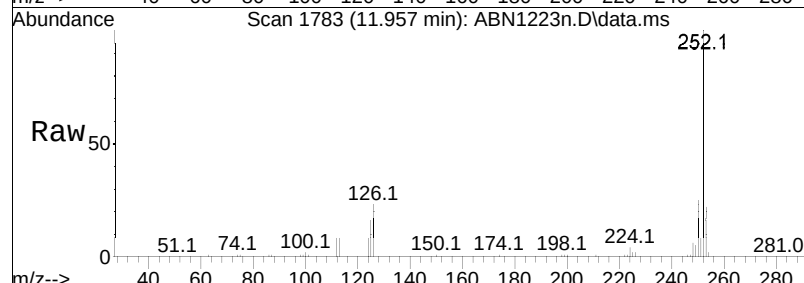


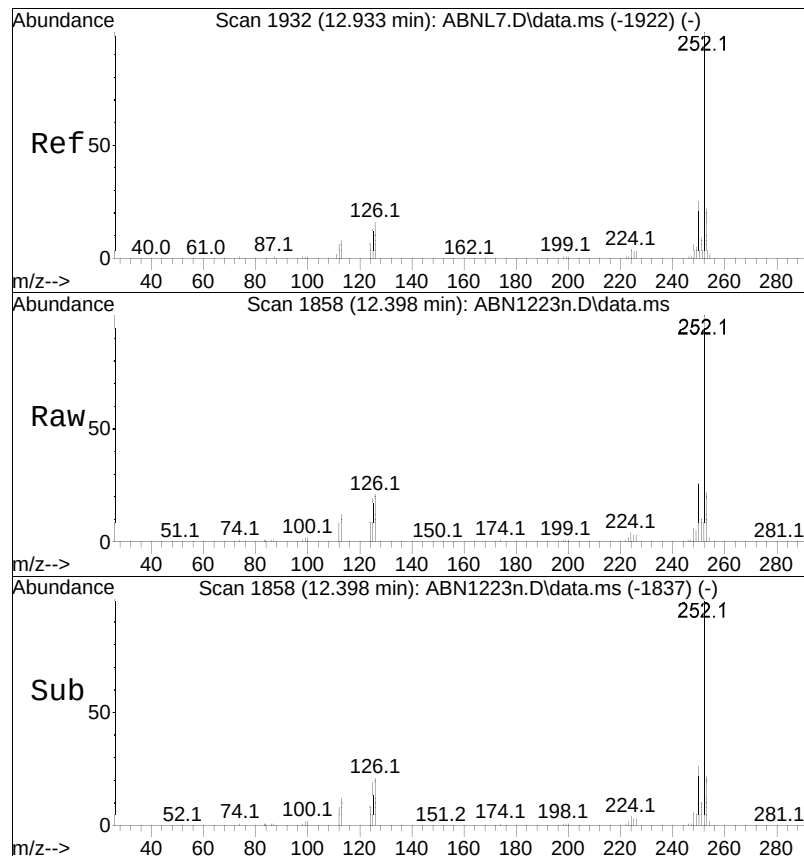




#111  
 Benzo(k)fluoranthene  
 Concen: 49.04 ug/ml  
 RT: 11.957 min Scan# 1783  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

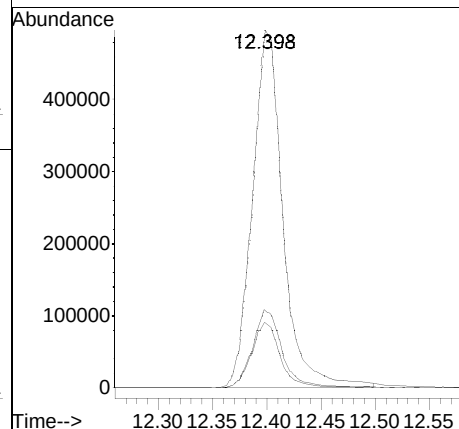
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 16.3  | 16.6  | 25.0# |
| 253     | 22.0  | 17.7  | 26.5  |

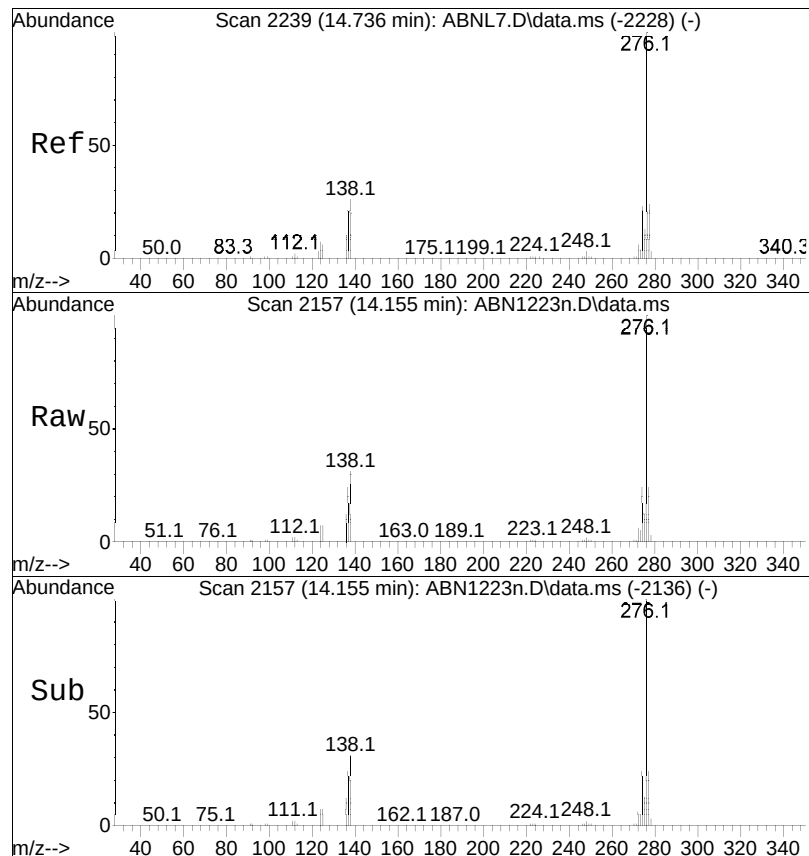




#112  
 Benzo(a)pyrene  
 Concen: 45.04 ug/ml  
 RT: 12.398 min Scan# 1858  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

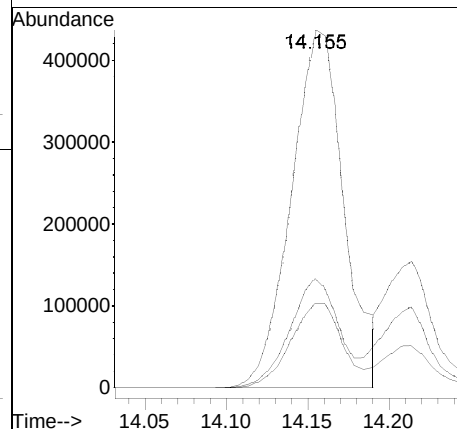
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 17.7  | 18.3  | 27.5# |
| 253     | 21.5  | 17.6  | 26.4  |

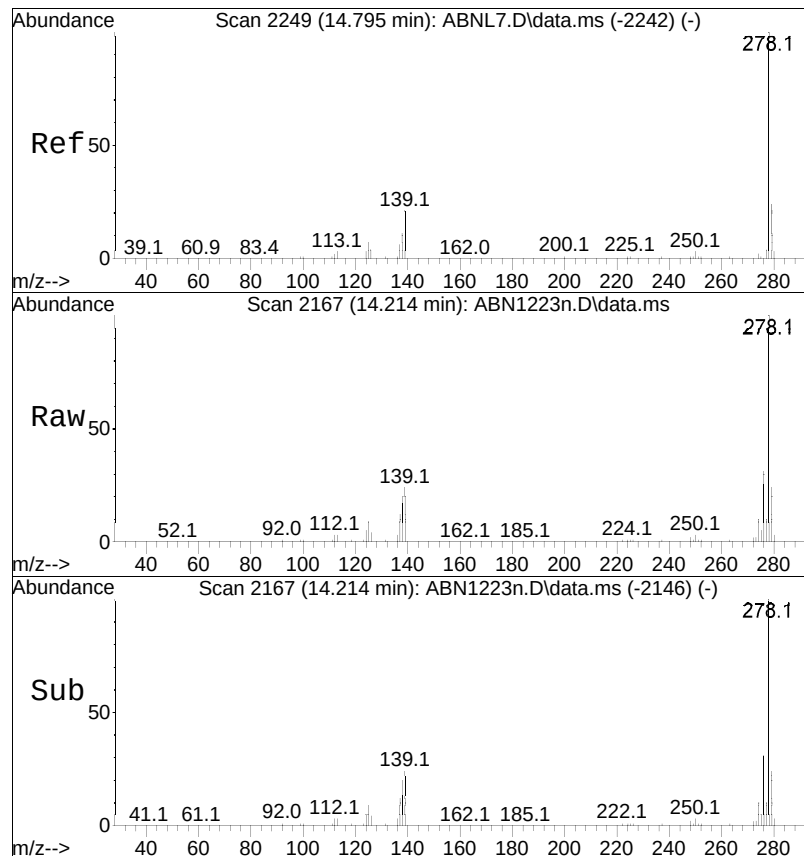




#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 50.10 ug/mL  
 RT: 14.155 min Scan# 2157  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

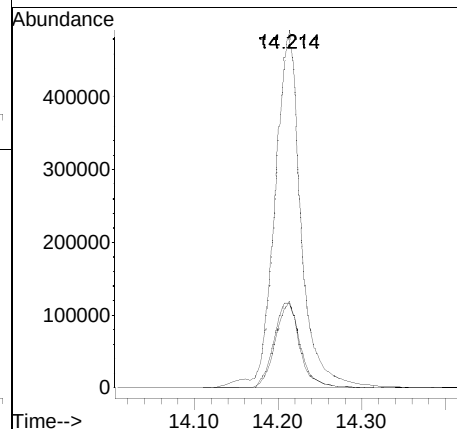
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 982409 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 28.2  | 29.6  | 44.4#  |
| 277       | 23.2  | 19.1  | 28.7   |

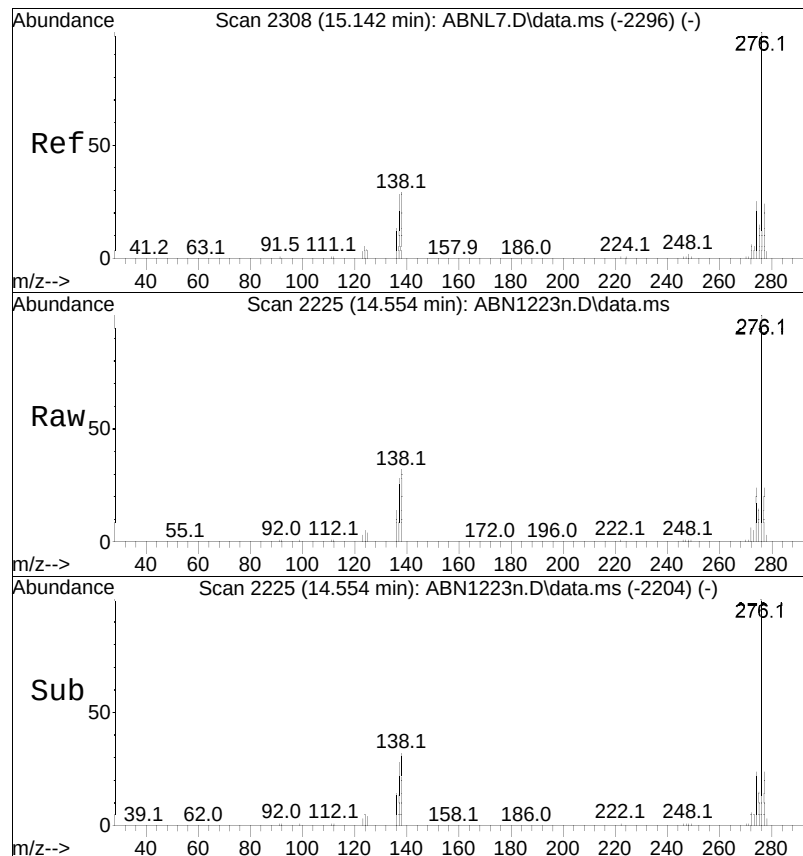




#115  
 Dibenzo(a,h)anthracene  
 Concen: 53.89 ug/ml  
 RT: 14.214 min Scan# 2167  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

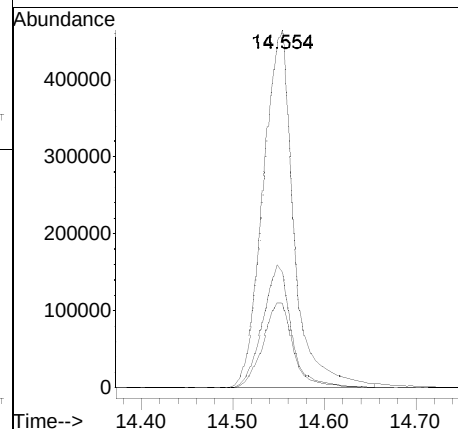
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 278   | Resp: | 1059826 |
| Ion Ratio | Lower | Upper |         |
| 278       | 100   |       |         |
| 139       | 24.1  | 24.7  | 37.1#   |
| 279       | 23.7  | 19.6  | 29.4    |





#116  
 Benzo(ghi)perylene  
 Concen: 52.39 ug/ml  
 RT: 14.554 min Scan# 2225  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.D  
 Acq: 23 Dec 2019 11:08 pm

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 276   | Resp: | 1075913 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 138       | 32.7  | 43.5  | 65.3#   |
| 277       | 24.0  | 22.6  | 33.8    |



# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : ABN1223n.D Operator : Buffy:jg  
Date Inj'd : 12/23/2019 11:08 pm Instrument : Buffy  
Sample : wg1324233-3,32,,ABN CCV LoQuant Date : 12/23/2019 11:42 pm

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191223n\  
 Data File : AP91223n.D  
 Acq On : 23 Dec 2019 11:31 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-4,32,,AP9 CCV Lot # 8513  
 Misc : wg1324233,,ical16199  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 24 00:27:22 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 00:26:47 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|----------------------------|-------|-------|-------|-------|----------|
| ----- |                            |       |       |       |       |          |
| 27 I  | IS2_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0   | 154   | 0.00     |
| 28 T  | Benzaldehyde               | 1.217 | 1.188 | 2.4   | 160   | 0.00     |
| 29 T  | Acetophenone               | 1.935 | 1.881 | 2.8   | 160   | 0.00     |
| 30 T  | m-Toluidine                | 1.988 | 2.039 | -2.6  | 166   | 0.00     |
| 31 T  | 2-Chloroaniline            | 1.857 | 1.909 | -2.8  | 168   | 0.00     |
|       |                            |       |       |       |       |          |
| 55 I  | IS2_Naphthalene-d8         | 1.000 | 1.000 | 0.0   | 152   | 0.00     |
| 56 T  | a-Terpineol                | 0.249 | 0.265 | -6.4  | 173   | 0.00     |
| 57 T  | 3-Chloroaniline            | 0.132 | 0.128 | 3.0   | 159   | 0.00     |
| 58 T  | 2,6-Dichlorophenol         | 0.294 | 0.308 | -4.8  | 166   | 0.00     |
| 59 T  | 1-chloro-2-nitrobenzene    | 0.136 | 0.143 | -5.1  | 169   | 0.00     |
| 60 T  | Caprolactam                | 0.143 | 0.155 | -8.4  | 171   | 0.00     |
| 61 T  | 1,2,4,5-Tetrachlorobenzene | 0.321 | 0.289 | 10.0  | 147   | 0.00     |
| 62 T  | Biphenyl                   | 0.873 | 0.837 | 4.1   | 157   | 0.00     |
|       |                            |       |       |       |       |          |
| 83 I  | IS2_Acenaphthene-d10       | 1.000 | 1.000 | 0.0   | 151   | 0.00     |
| 84 T  | Dichloran                  | 0.169 | 0.188 | -11.2 | 171   | 0.00     |
| 85 T  | Pentachloronitrobenzene    | 0.157 | 0.161 | -2.5  | 154   | 0.00     |
|       |                            |       |       |       |       |          |
| 98 I  | IS2_Phenanthrene-d10       | 1.000 | 1.000 | 0.0   | 142   | 0.00     |
| 99 T  | Diphenamid                 | 0.553 | 0.561 | -1.4  | 148   | 0.00     |
| ----- |                            |       |       |       |       |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : AP91223n.D  
 Acq On : 23 Dec 2019 11:31 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-4,32,,AP9 CCV Lot # 8513  
 Misc : wg1324233,,ical16199  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 24 00:27:22 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 00:26:47 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| -----                         |       |      |          |        |       |          |
| Internal Standards            |       |      |          |        |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.990 | 152  | 177213   | 40.000 | ug/ml | 0.00     |
| 55) IS2_Naphthalene-d8        | 5.059 | 136  | 704834   | 40.000 | ug/ml | 0.00     |
| 83) IS2_Acenaphthene-d10      | 6.563 | 164  | 375542   | 40.000 | ug/ml | # 0.00   |
| 98) IS2_Phenanthrene-d10      | 7.838 | 188  | 715781   | 40.000 | ug/ml | 0.00     |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.620 | 105  | 263068   | 48.807 | ug/ml  | 88     |
| 29) Acetophenone              | 4.331 | 105  | 416771   | 48.609 | ug/ml# | 88     |
| 30) m-Toluidine               | 4.401 | 106  | 451774   | 51.292 | ug/ml  | 97     |
| 31) 2-Chloroaniline           | 4.713 | 127  | 422971   | 51.407 | ug/ml  | 98     |
| 56) a-Terpineol               | 5.106 | 59   | 233478   | 53.178 | ug/ml# | 82     |
| 57) 3-Chloroaniline           | 5.124 | 65   | 112612   | 48.318 | ug/ml  | 85     |
| 58) 2,6-Dichlorophenol        | 5.147 | 162  | 271069   | 52.280 | ug/ml  | 96     |
| 59) 1-chloro-2-nitrobenzene   | 5.371 | 111  | 126000   | 52.764 | ug/ml  | 87     |
| 60) Caprolactam               | 5.418 | 55   | 136761   | 54.104 | ug/ml# | 71     |
| 61) 1,2,4,5-Tetrachloroben... | 5.823 | 216  | 254914   | 45.053 | ug/ml  | 99     |
| 62) Biphenyl                  | 6.082 | 154  | 737830   | 47.954 | ug/ml  | 99     |
| 84) Dichloran                 | 7.568 | 206  | 88110    | 55.411 | ug/ml# | 73     |
| 85) Pentachloronitrobenzene   | 7.703 | 237  | 75474    | 51.241 | ug/ml# | 87     |
| 99) Diphenamid                | 8.637 | 167  | 501999   | 50.711 | ug/ml# | 69     |

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

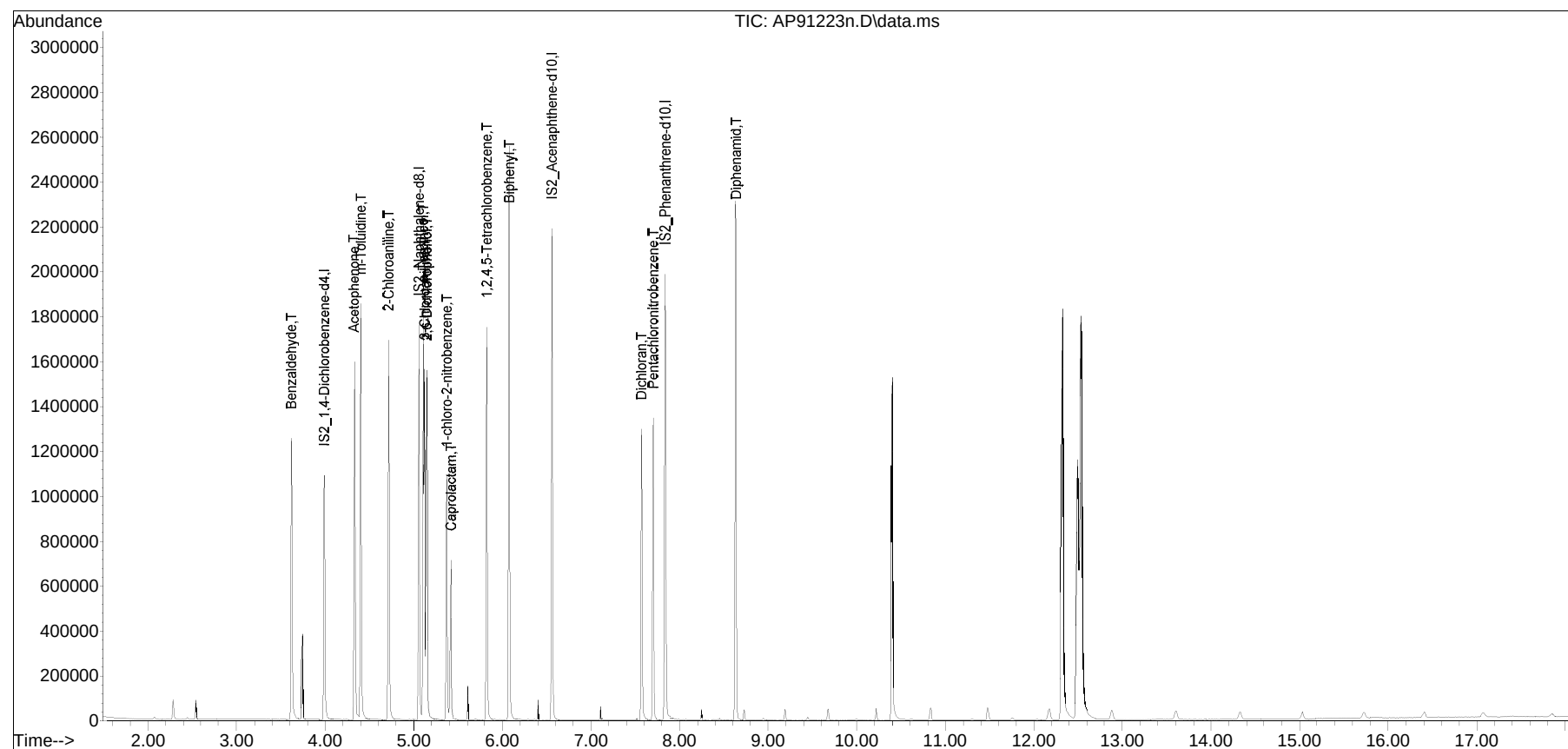


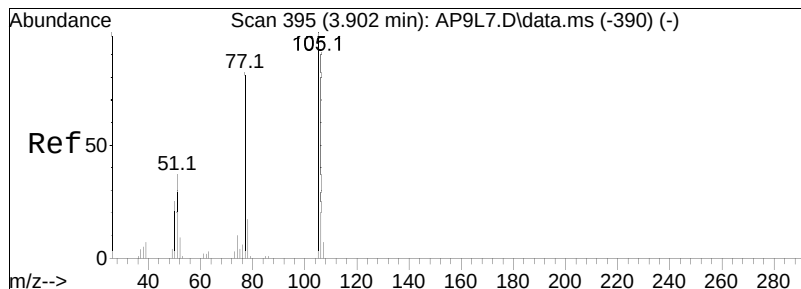
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : AP91223n.D  
 Acq On : 23 Dec 2019 11:31 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-4,32,,AP9 CCV Lot # 8513  
 Misc : wg1324233,,ical16199  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 24 00:27:22 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 00:26:47 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist





#28

Benzaldehyde

Concen: 48.81 ug/ml

RT: 3.620 min Scan# 364

Delta R.T. 0.000 min

Lab File: AP91223n.D

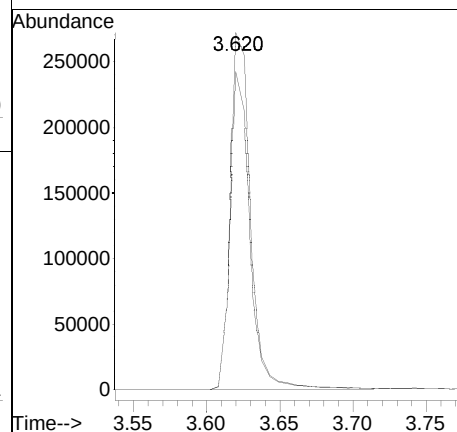
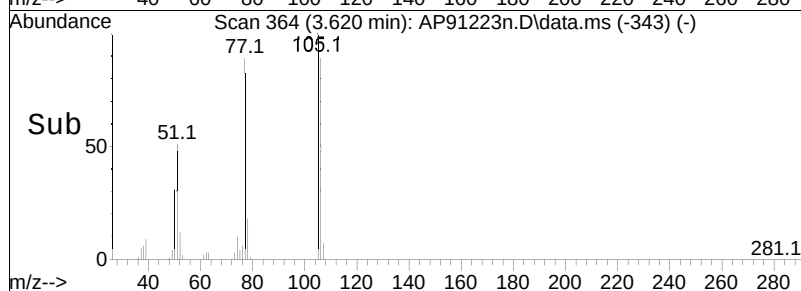
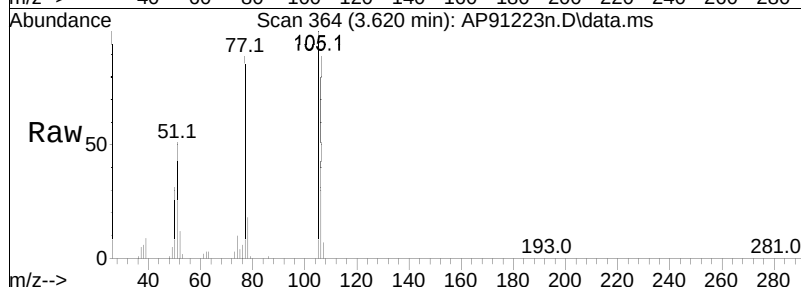
Acq: 23 Dec 2019 11:31 pm

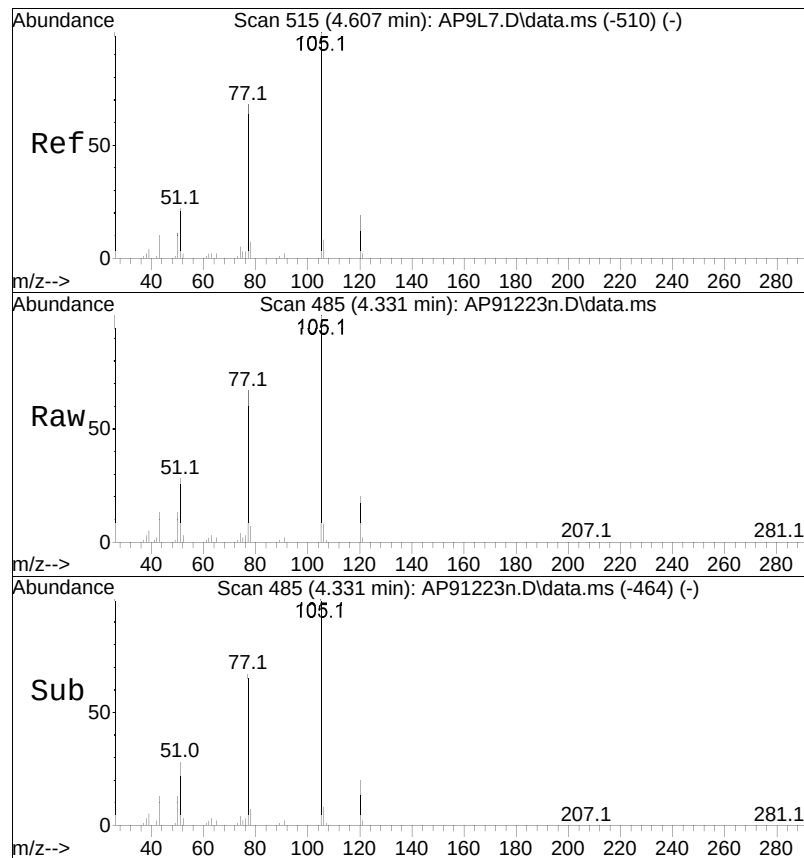
Tgt Ion:105 Resp: 263068

Ion Ratio Lower Upper

105 100

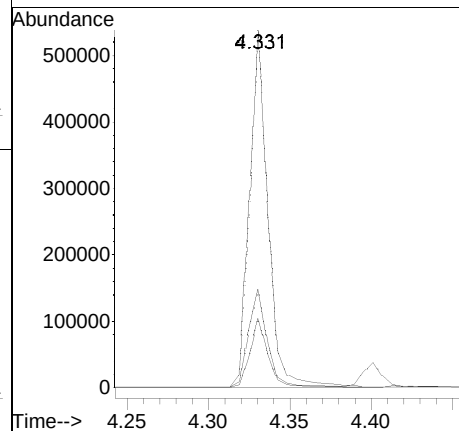
77 87.4 79.4 119.0

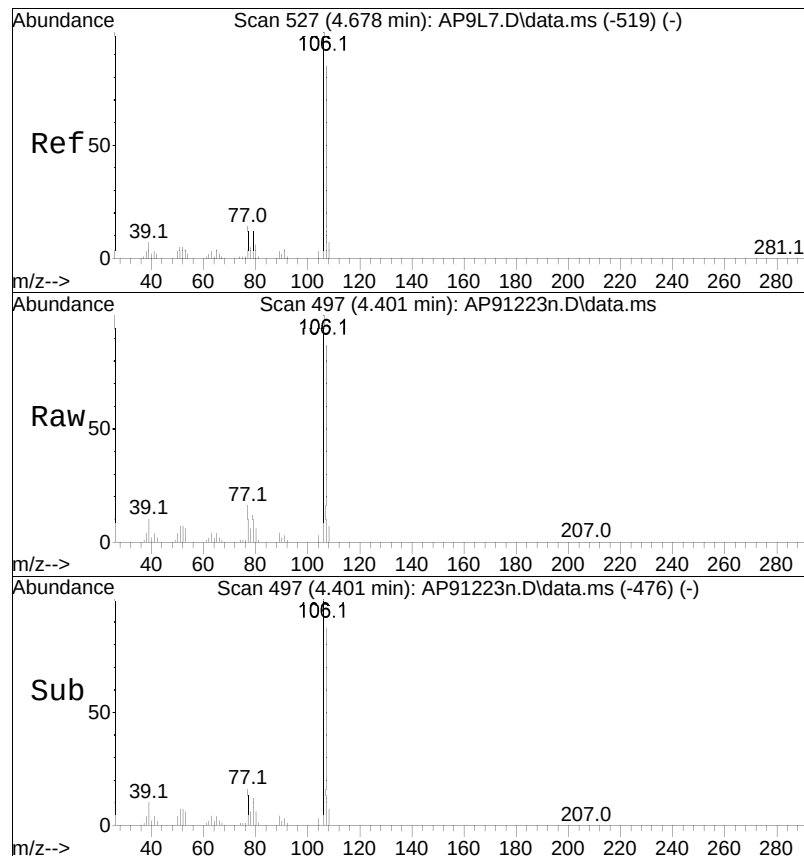




#29  
 Acetophenone  
 Concen: 48.61 ug/ml  
 RT: 4.331 min Scan# 485  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

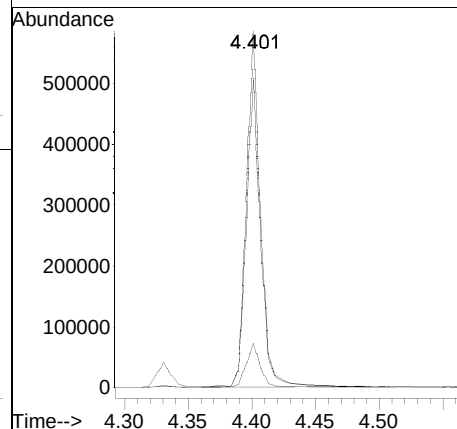
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 416771 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 19.3  | 19.9  | 29.9#  |
| 51        | 28.7  | 17.8  | 26.6#  |

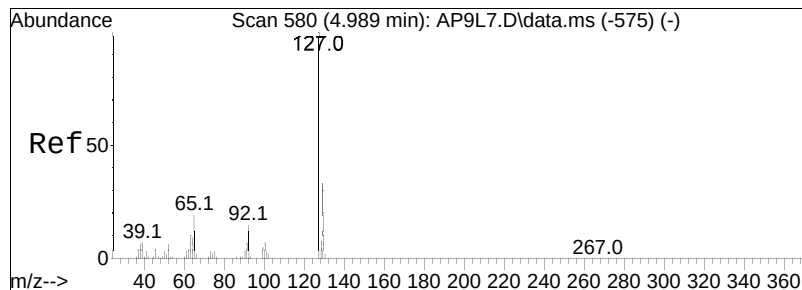




#30  
 m-Toluidine  
 Concen: 51.29 ug/ml  
 RT: 4.401 min Scan# 497  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 107     | 88.1  | 72.6  | 109.0 |
| 79      | 12.8  | 11.2  | 16.8  |





#31

2-Chloroaniline

Concen: 51.41 ug/ml

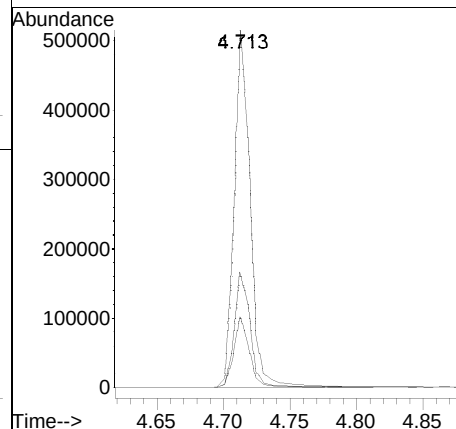
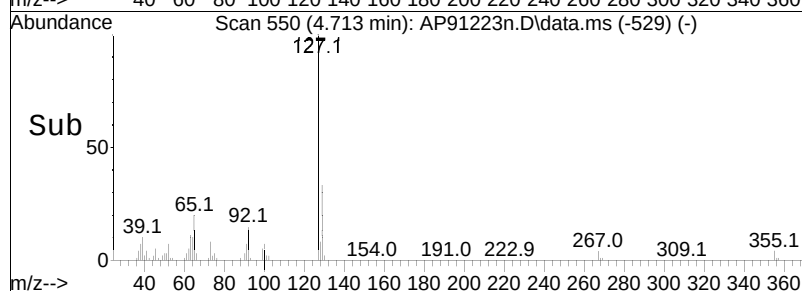
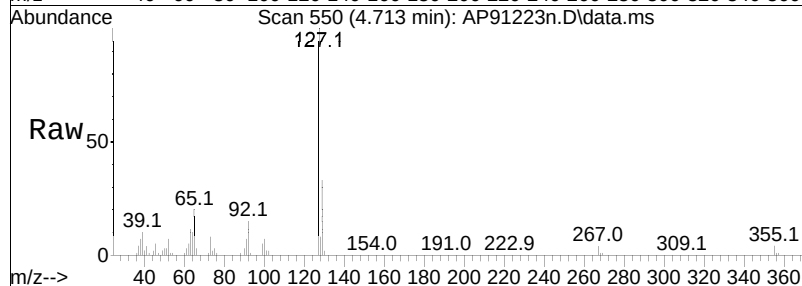
RT: 4.713 min Scan# 550

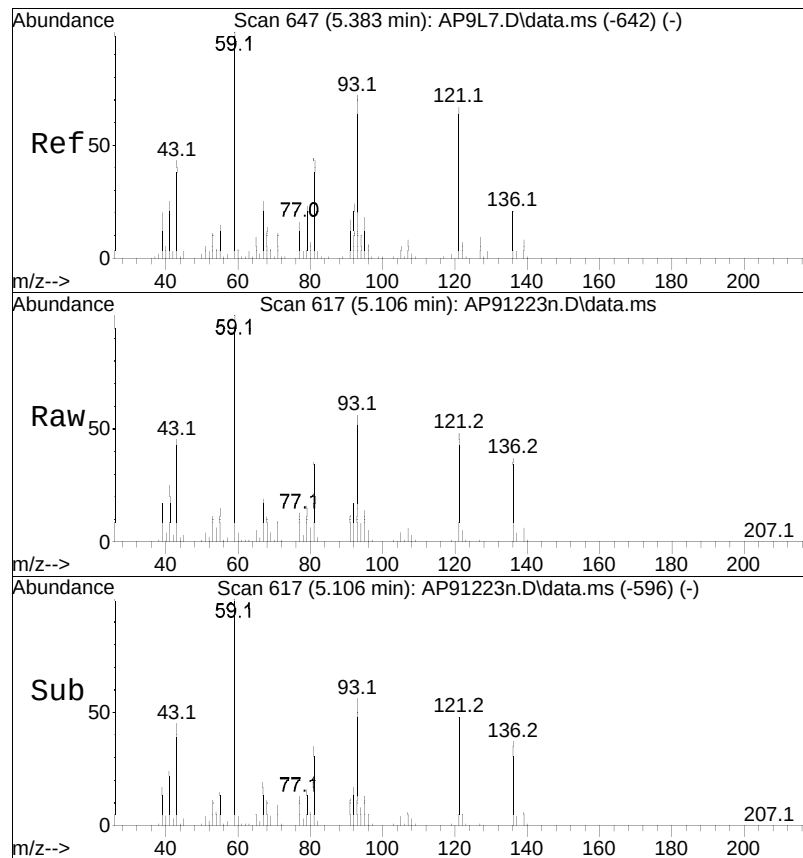
Delta R.T. 0.000 min

Lab File: AP91223n.D

Acq: 23 Dec 2019 11:31 pm

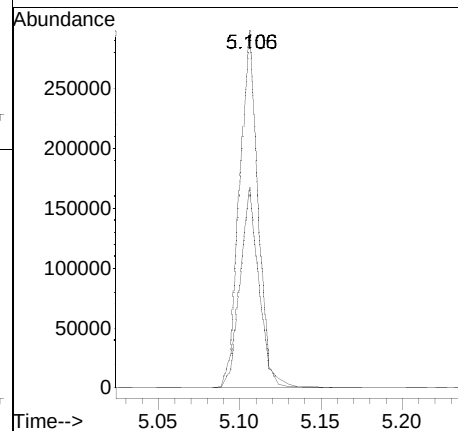
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 127   | Resp: | 422971 |
| Ion Ratio | Lower | Upper |        |
| 127       | 100   |       |        |
| 129       | 32.5  | 26.0  | 39.0   |
| 65        | 19.7  | 17.7  | 26.5   |

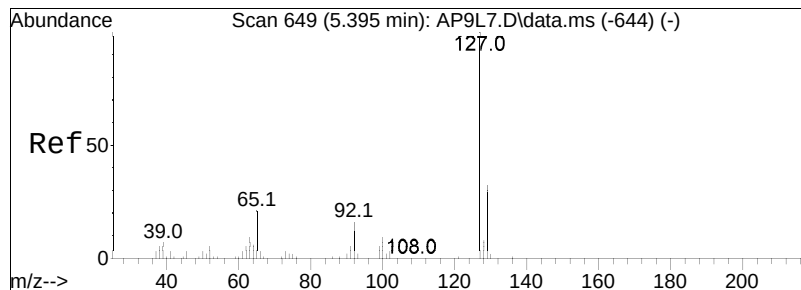




#56  
a-Terpineol  
Concen: 53.18 ug/ml  
RT: 5.106 min Scan# 617  
Delta R.T. 0.000 min  
Lab File: AP91223n.D  
Acq: 23 Dec 2019 11:31 pm

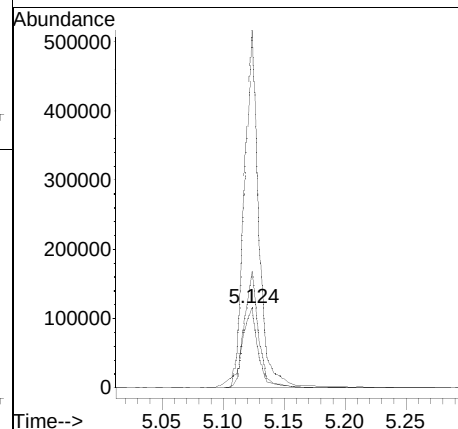
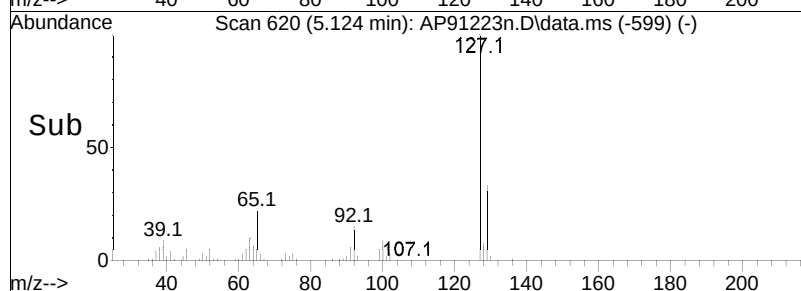
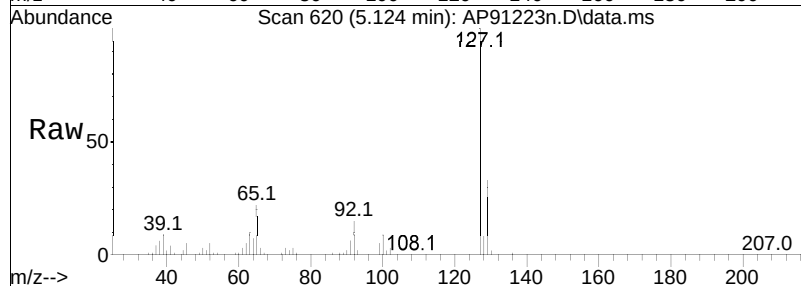
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 93      | 58.5  | 59.1  | 88.7# |

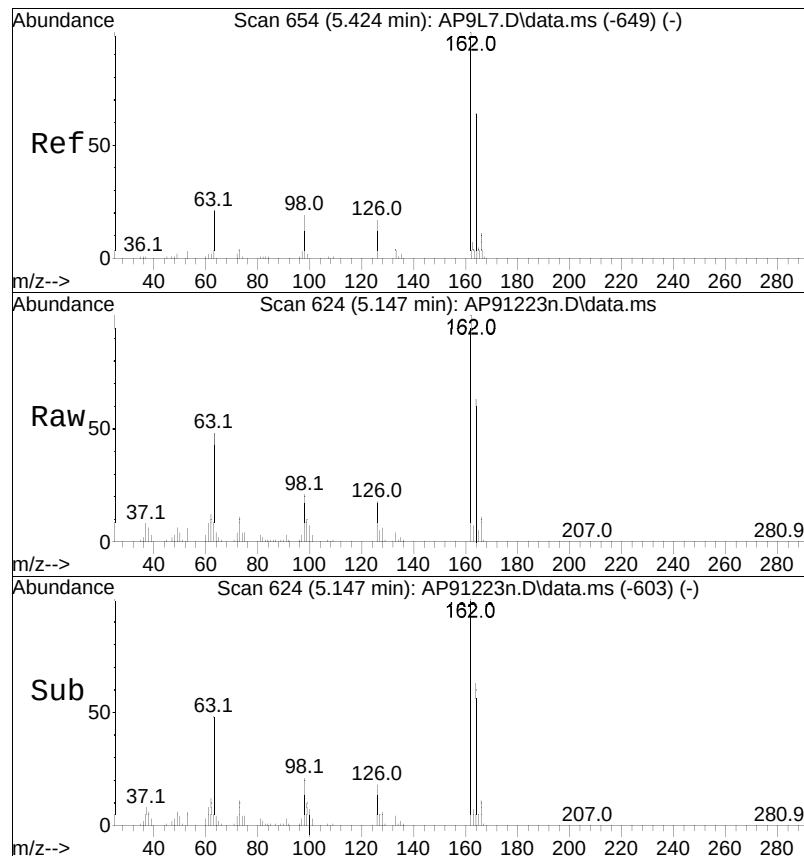




#57  
 3-Chloroaniline  
 Concen: 48.32 ug/ml  
 RT: 5.124 min Scan# 620  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

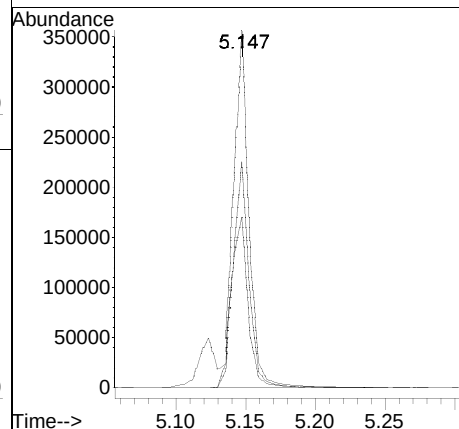
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 127     | 375.0 | 273.4 | 410.2 |
| 129     | 122.3 | 88.0  | 132.0 |



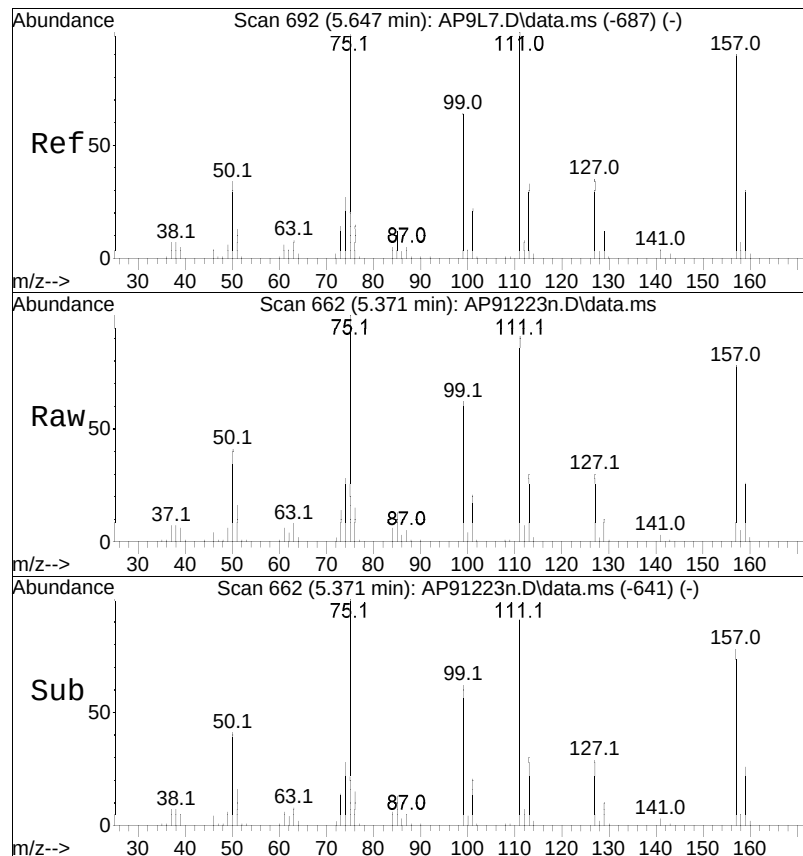


#58  
 2,6-Dichlorophenol  
 Concen: 52.28 ug/ml  
 RT: 5.147 min Scan# 624  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 271069 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 64.3  | 50.6  | 75.8   |
| 63        | 67.6  | 50.5  | 75.7   |

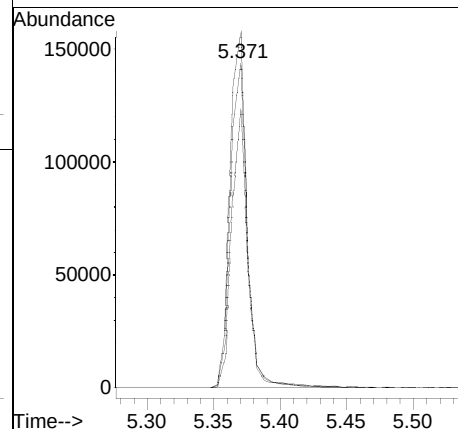


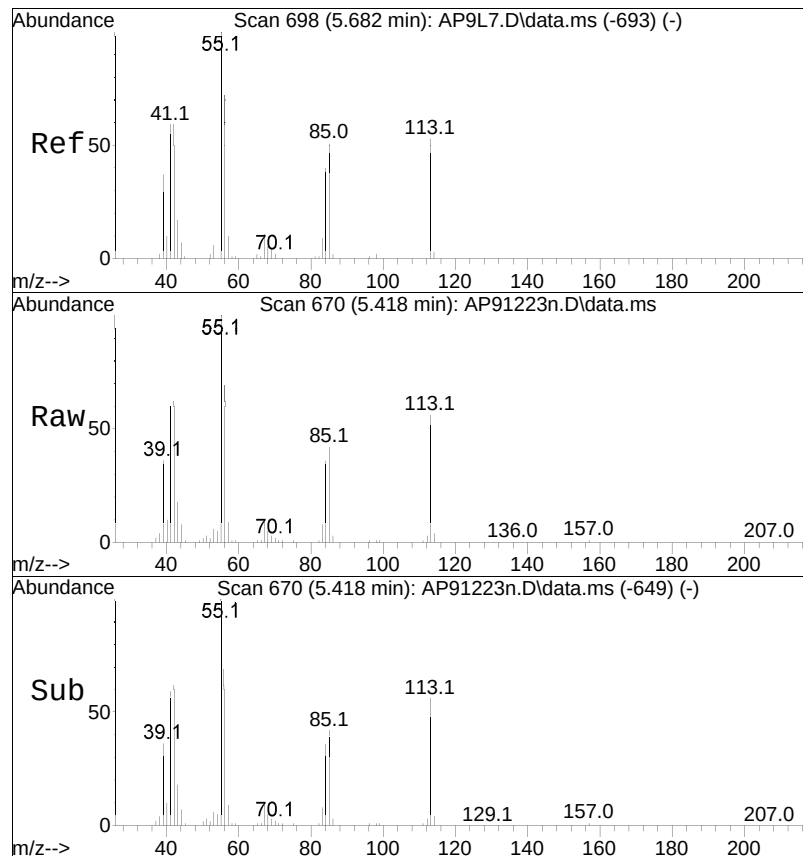




#59  
 1-chloro-2-nitrobenzene  
 Concen: 52.76 ug/ml  
 RT: 5.371 min Scan# 662  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

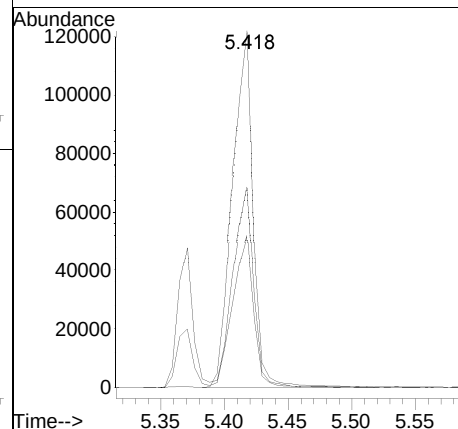
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 111     | 100   |       |       |
| 157     | 80.7  | 55.1  | 82.7  |
| 75      | 111.9 | 100.1 | 150.1 |

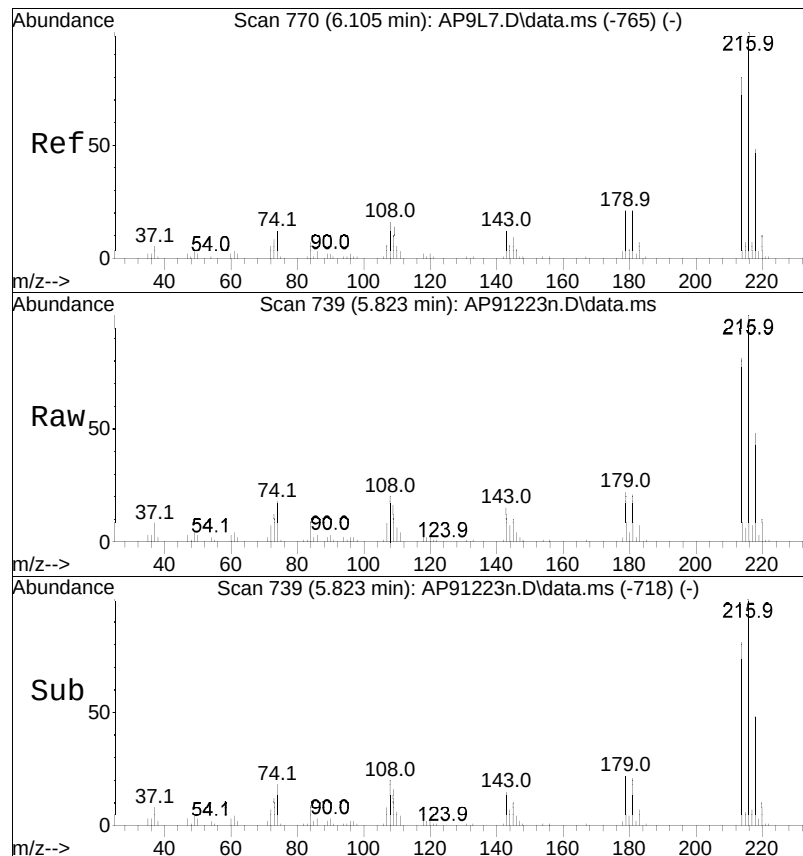




#60  
 Caprolactam  
 Concen: 54.10 ug/ml  
 RT: 5.418 min Scan# 670  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

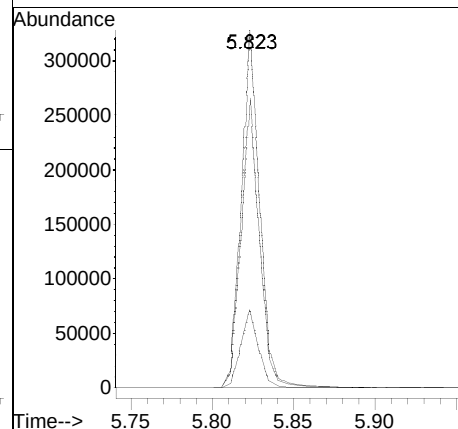
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 55    | Resp: | 136761 |
| Ion Ratio | Lower | Upper |        |
| 55        | 100   |       |        |
| 85        | 43.7  | 47.4  | 71.2#  |
| 113       | 57.2  | 71.0  | 106.4# |

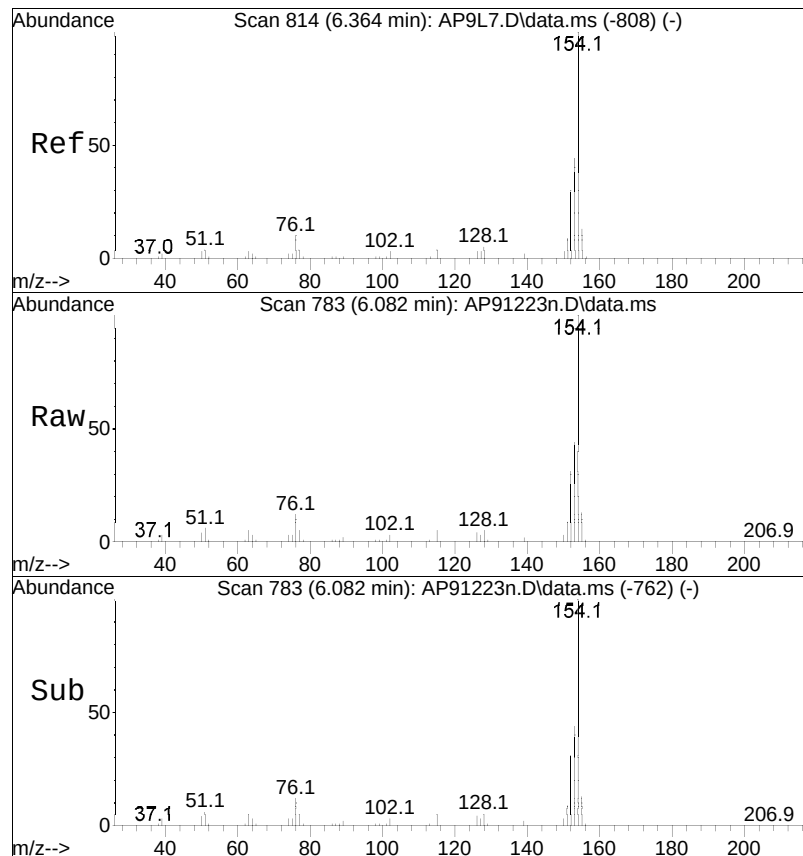




#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 45.05 ug/ml  
 RT: 5.823 min Scan# 739  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

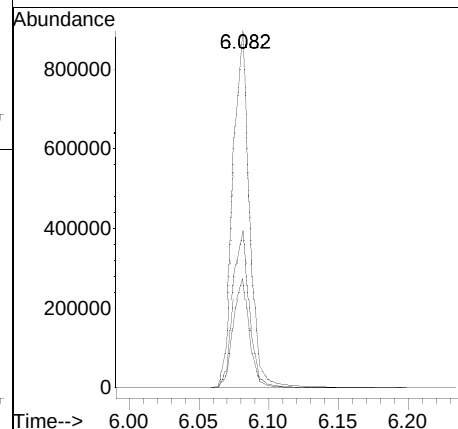
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:216 | Resp: | 254914 |
| Ion | Ratio   | Lower | Upper  |
| 216 | 100     |       |        |
| 214 | 81.1    | 64.2  | 96.2   |
| 179 | 21.6    | 17.8  | 26.8   |

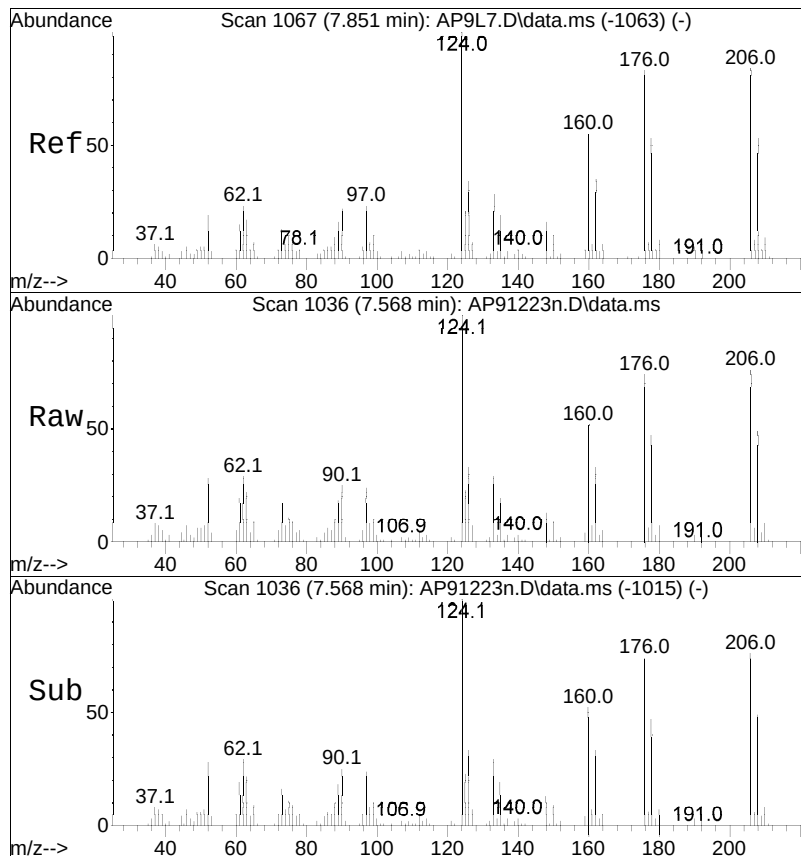




#62  
 Biphenyl  
 Concen: 47.95 ug/ml  
 RT: 6.082 min Scan# 783  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

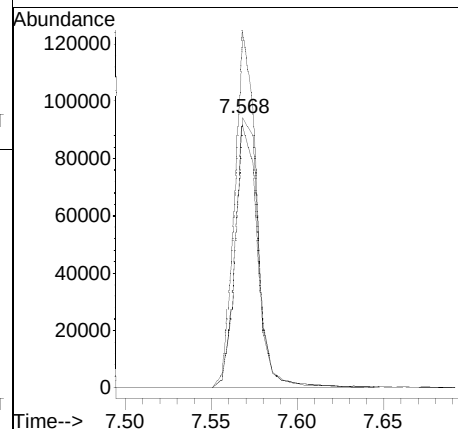
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 737830 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 44.0  | 35.1  | 52.7   |
| 152       | 30.6  | 24.0  | 36.0   |

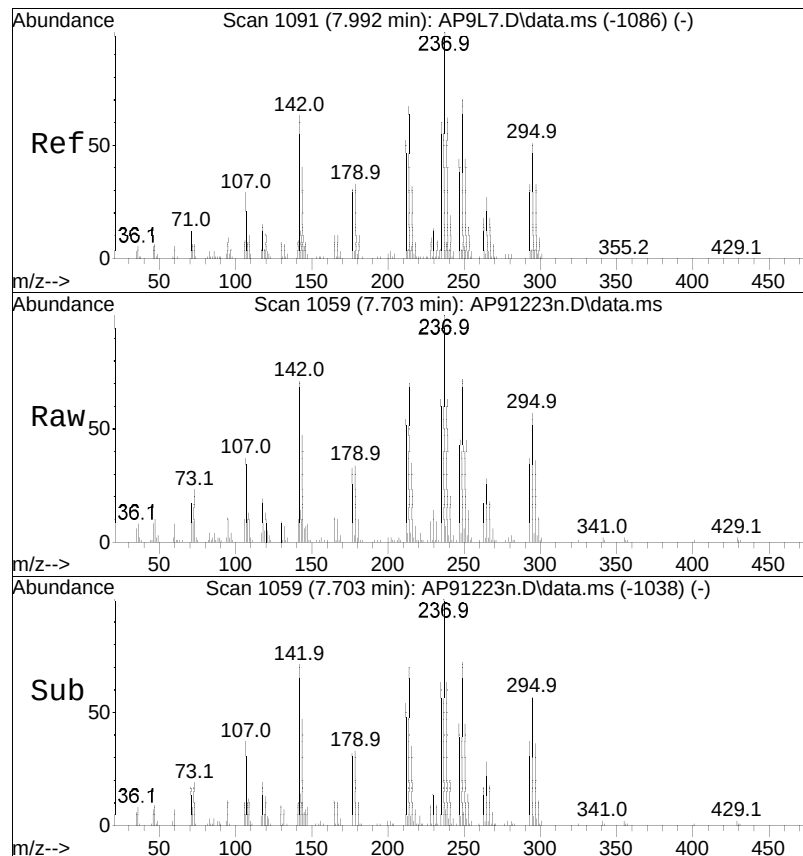




#84  
 Dichloran  
 Concen: 55.41 ug/ml  
 RT: 7.568 min Scan# 1036  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

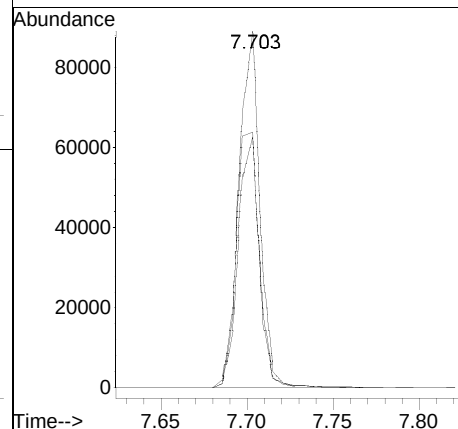
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 206   | Resp: | 88110  |
| Ion Ratio | Lower | Upper |        |
| 206       | 100   |       |        |
| 176       | 93.8  | 93.0  | 139.6  |
| 124       | 124.6 | 133.2 | 199.8# |

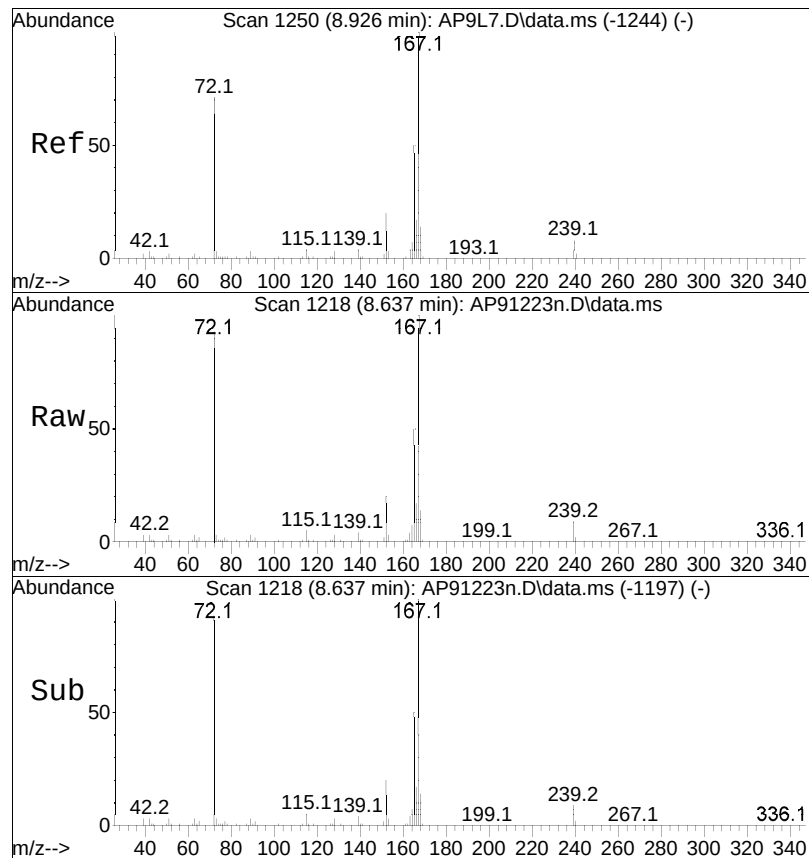




#85  
 Pentachloronitrobenzene  
 Concen: 51.24 ug/ml  
 RT: 7.703 min Scan# 1059  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

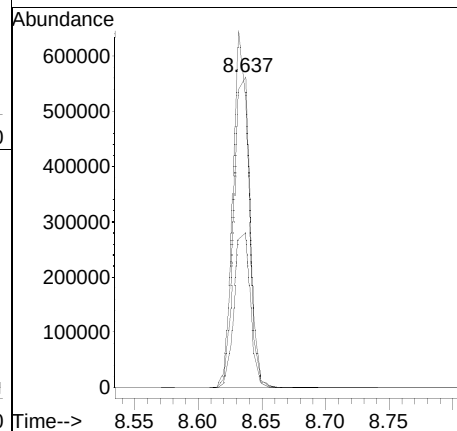
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 237     | 100   |       |        |
| 142     | 79.0  | 79.9  | 119.9# |
| 214     | 71.9  | 56.7  | 85.1   |





#99  
 Diphenamid  
 Concen: 50.71 ug/ml  
 RT: 8.637 min Scan# 1218  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.D  
 Acq: 23 Dec 2019 11:31 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 501999 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 72        | 107.8 | 127.1 | 190.7# |
| 165       | 50.2  | 44.1  | 66.1   |



# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : AP91223n.D Operator : Buffy:jg  
Date Inj'd : 12/23/2019 11:31 pm Instrument : Buffy  
Sample : wg1324233-4,32,,AP9 CCV LoQuant Date : 12/24/2019 0:26 am

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



# Evaluate Continuing Calibration Report

Data Path : I:\8270\Buffy\191223n\  
 Data File : ADP1223n.D  
 Acq On : 23 Dec 2019 11:54 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-5,32,,ADP CCV Lot # 8502  
 Misc : wg1324233,,ical16199  
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 24 00:37:02 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 00:36:30 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|----------------------------|-------|-------|--------|-------|----------|
| 32 I  | IS3_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0    | 107   | 0.00     |
| 33 T  | 1,4-Dioxane                | 0.520 | 0.457 | 12.1   | 99    | 0.00     |
| 34 T  | n-Decane                   | 1.328 | 1.293 | 2.6    | 110   | 0.00     |
| 86 I  | IS3_Acenaphthene-d10       | 1.000 | 1.000 | 0.0    | 105   | 0.00     |
| 87 T  | Atrazine                   | 0.360 | 0.340 | 5.6    | 98    | 0.00     |
| 100 I | IS3_Phenanthrene-d10       | 1.000 | 1.000 | 0.0    | 104   | 0.00     |
| 101 T | n-Octadecane               | 0.434 | 0.455 | -4.8   | 107   | 0.00     |
| 102 T | Parathion                  | 0.126 | 0.160 | -27.0# | 128   | 0.00     |
| 103 T | 3,3'-Dimethylbenzidine     | 0.783 | 0.747 | 4.6    | 96    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : ADP1223n.D  
 Acq On : 23 Dec 2019 11:54 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-5,32,,ADP CCV Lot # 8502  
 Misc : wg1324233,,ical16199  
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 24 00:37:02 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 00:36:30 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| -----                         |       |      |          |        |         |          |
| Internal Standards            |       |      |          |        |         |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.984 | 152  | 166995   | 40.000 | ug/ml   | 0.00     |
| 86) IS3_Acenaphthene-d10      | 6.564 | 164  | 358199   | 40.000 | ug/ml # | 0.00     |
| 100) IS3_Phenanthrene-d10     | 7.833 | 188  | 703501   | 40.000 | ug/ml   | 0.00     |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.634 | 88   | 95420    | 43.945 | ug/ml# | 83     |
| 34) n-Decane                | 3.878 | 57   | 269812   | 48.649 | ug/ml# | 81     |
| 87) Atrazine                | 7.633 | 200  | 152349   | 47.298 | ug/ml  | 92     |
| 101) n-Octadecane           | 7.803 | 57   | 400506   | 52.453 | ug/ml# | 82     |
| 102) Parathion              | 8.526 | 109  | 140683   | 63.555 | ug/ml  | 96     |
| 103) 3,3'-Dimethylbenzidine | 9.748 | 212  | 657298   | 47.710 | ug/ml  | 97     |

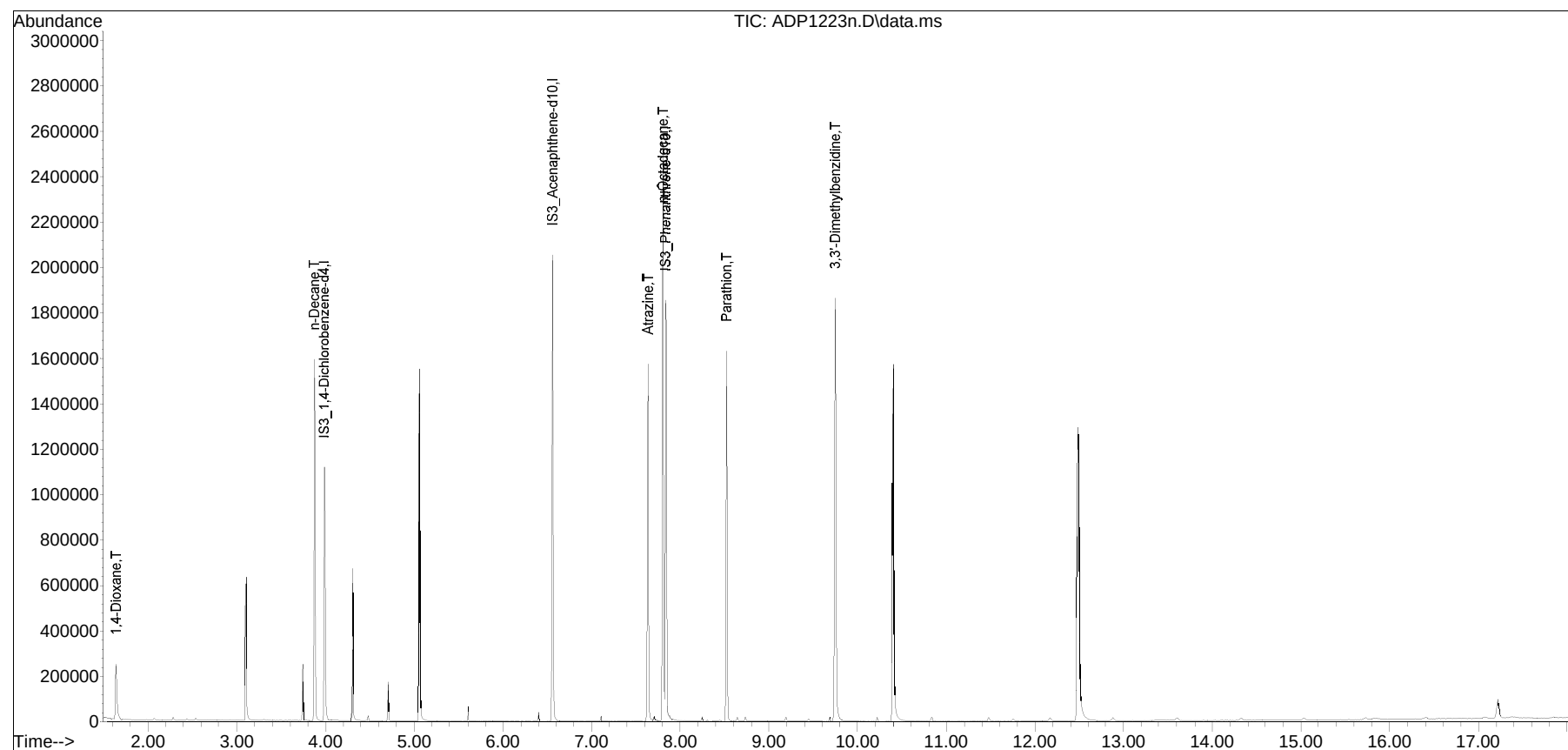
(#) = qualifier out of range (m) = manual integration (+) = signals summed

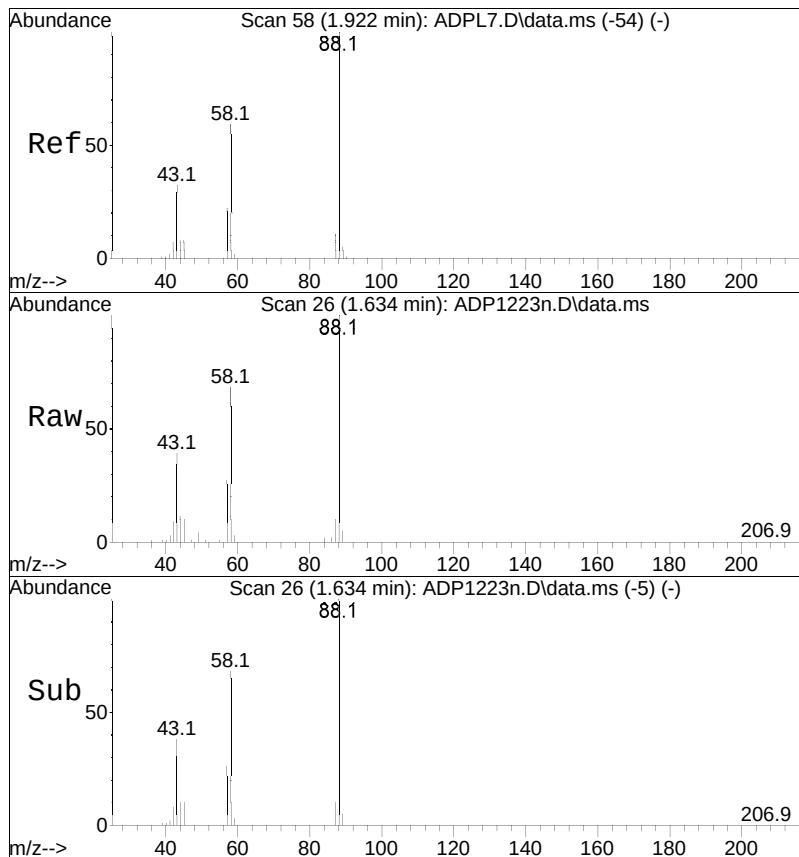
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : ADP1223n.D  
 Acq On : 23 Dec 2019 11:54 pm  
 Operator : Buffy:yg  
 Sample : wg1324233-5,32,,ADP CCV Lot # 8502  
 Misc : wg1324233,,ical16199  
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 24 00:37:02 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 00:36:30 2019  
 Response via : Initial Calibration

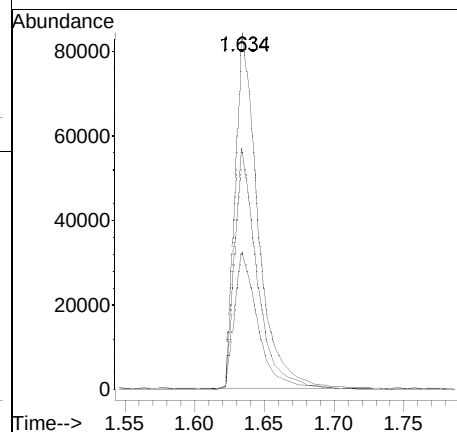
Sub List : ADPical\_REV2 - ADP sublist

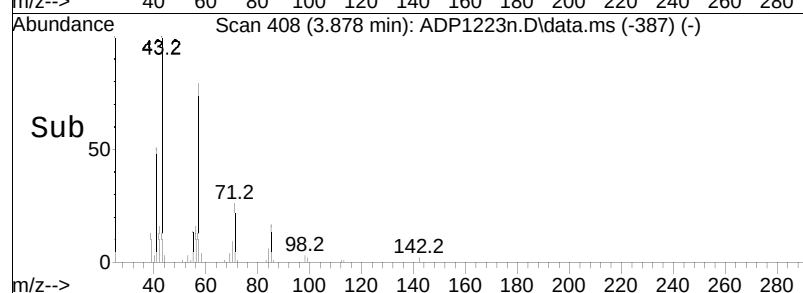
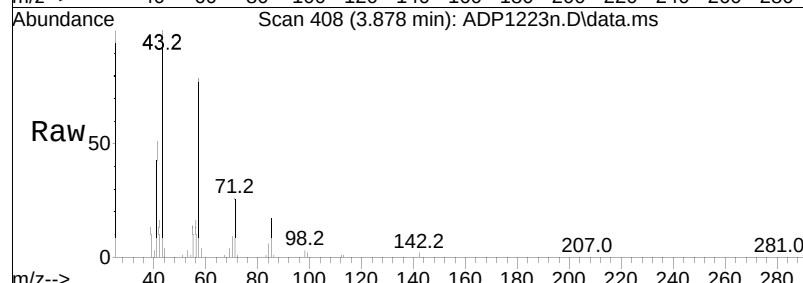
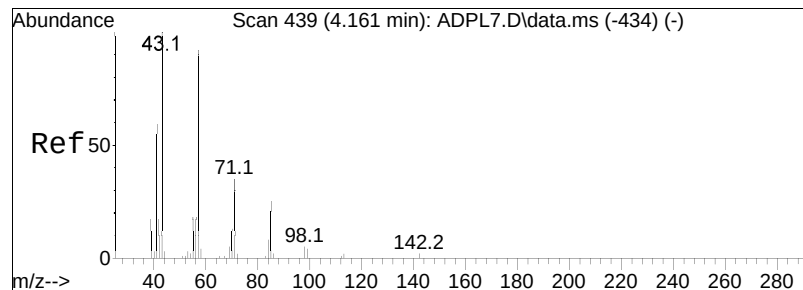




#33  
 1,4-Dioxane  
 Concen: 43.95 ug/ml  
 RT: 1.634 min Scan# 26  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.D  
 Acq: 23 Dec 2019 11:54 pm

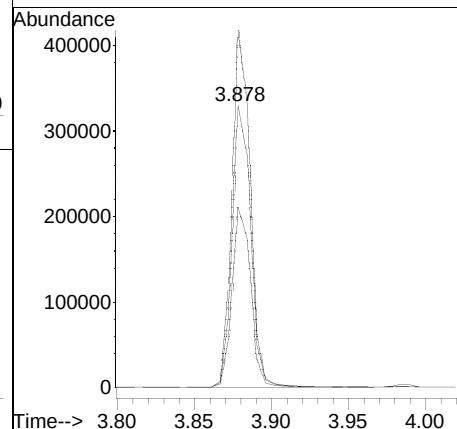
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 95420 |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 66.7  | 44.8  | 67.2  |
| 43        | 40.1  | 22.4  | 33.6# |

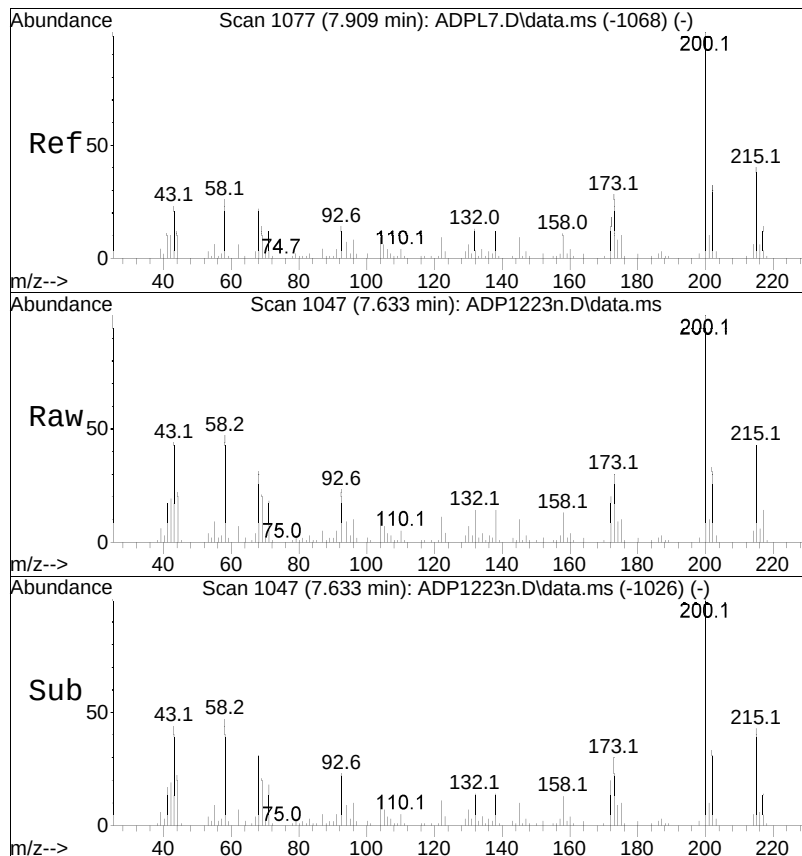




#34  
n-Decane  
Concen: 48.65 ug/ml  
RT: 3.878 min Scan# 408  
Delta R.T. 0.000 min  
Lab File: ADP1223n.D  
Acq: 23 Dec 2019 11:54 pm

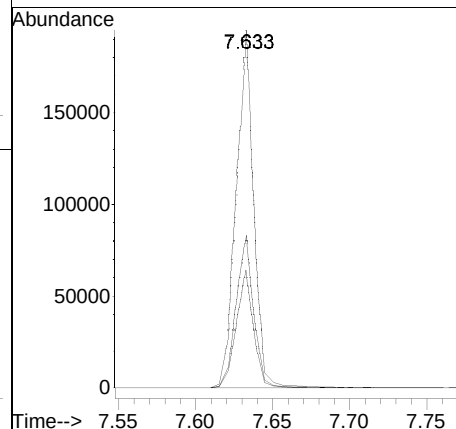
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 43      | 125.7 | 80.7  | 121.1# |
| 41      | 64.9  | 45.8  | 68.8   |

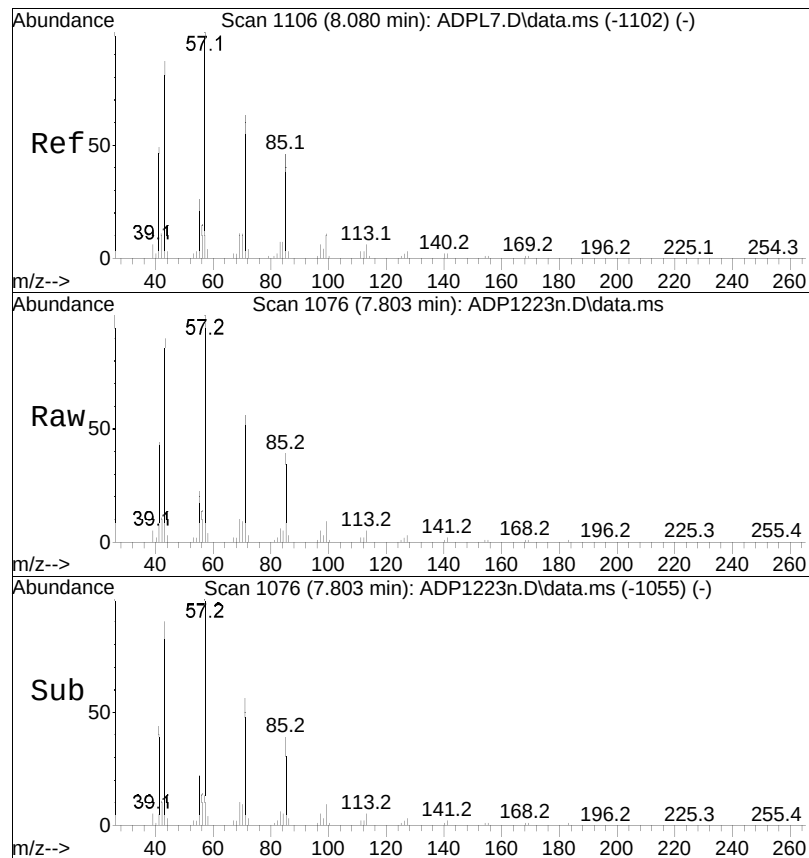




#87  
 Atrazine  
 Concen: 47.30 ug/ml  
 RT: 7.633 min Scan# 1047  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.D  
 Acq: 23 Dec 2019 11:54 pm

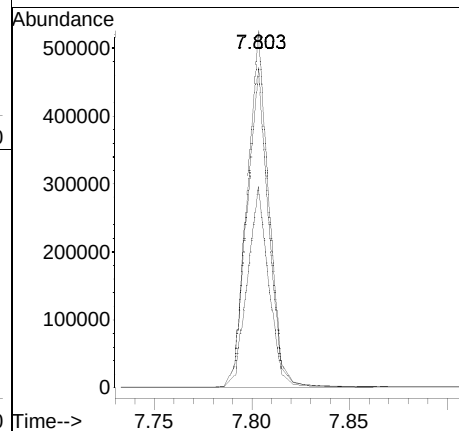
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 200   | Resp: | 152349 |
| Ion Ratio | Lower | Upper |        |
| 200       | 100   |       |        |
| 202       | 32.6  | 26.4  | 39.6   |
| 215       | 42.9  | 41.4  | 62.2   |

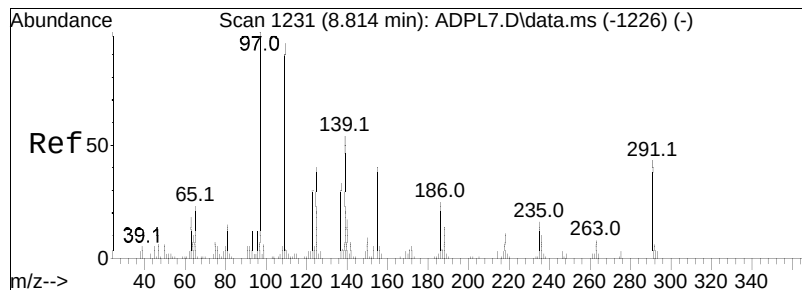




#101  
n-Octadecane  
Concen: 52.45 ug/ml  
RT: 7.803 min Scan# 1076  
Delta R.T. 0.000 min  
Lab File: ADP1223n.D  
Acq: 23 Dec 2019 11:54 pm

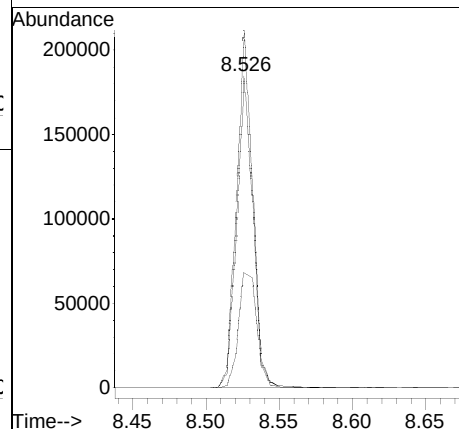
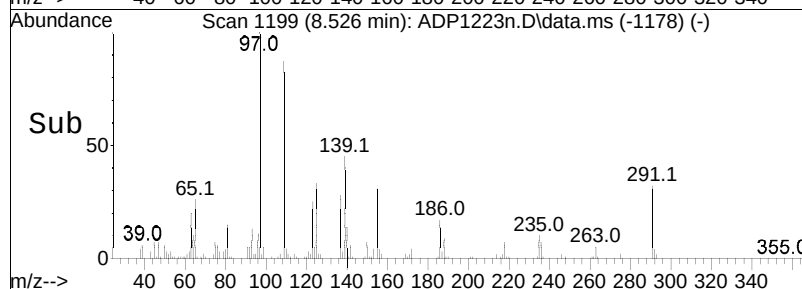
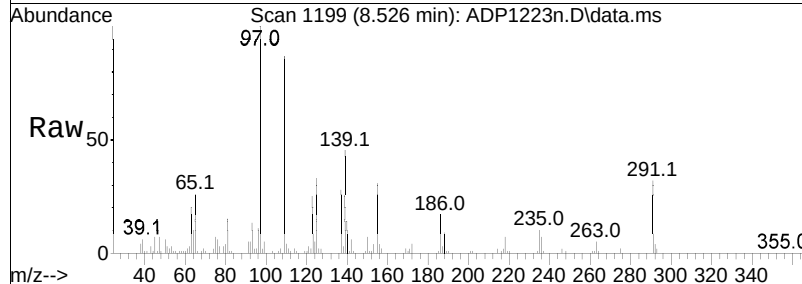
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 43      | 90.2  | 63.4  | 95.0  |
| 71      | 56.1  | 61.4  | 92.0  |



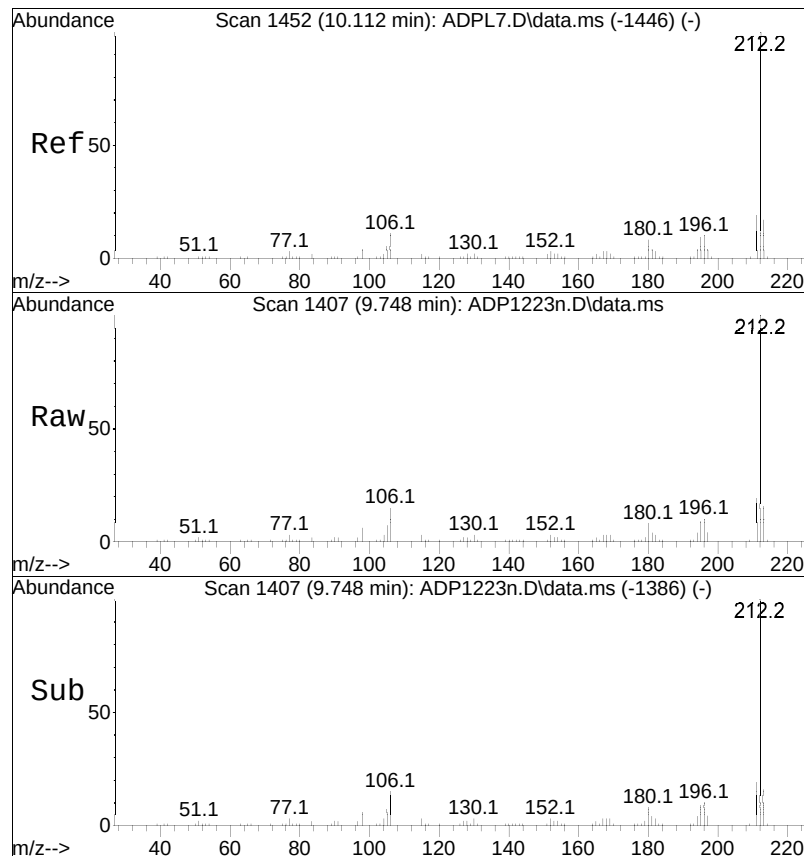


#102  
 Parathion  
 Concen: 63.56 ug/ml  
 RT: 8.526 min Scan# 1199  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.D  
 Acq: 23 Dec 2019 11:54 pm

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 109   | Resp: | 140683 |
| Ion Ratio | Lower | Upper |        |
| 109       | 100   |       |        |
| 97        | 114.4 | 88.0  | 132.0  |
| 291       | 42.4  | 31.6  | 47.4   |

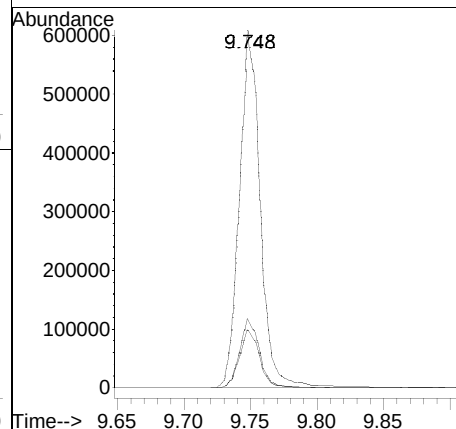






#103  
 3,3'-Dimethylbenzidine  
 Concen: 47.71 ug/ml  
 RT: 9.748 min Scan# 1407  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.D  
 Acq: 23 Dec 2019 11:54 pm

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 212     | 100   | 657298 |       |       |
| 211     | 18.8  |        | 14.2  | 21.4  |
| 213     | 16.0  |        | 14.0  | 21.0  |



# Manual Integration Report

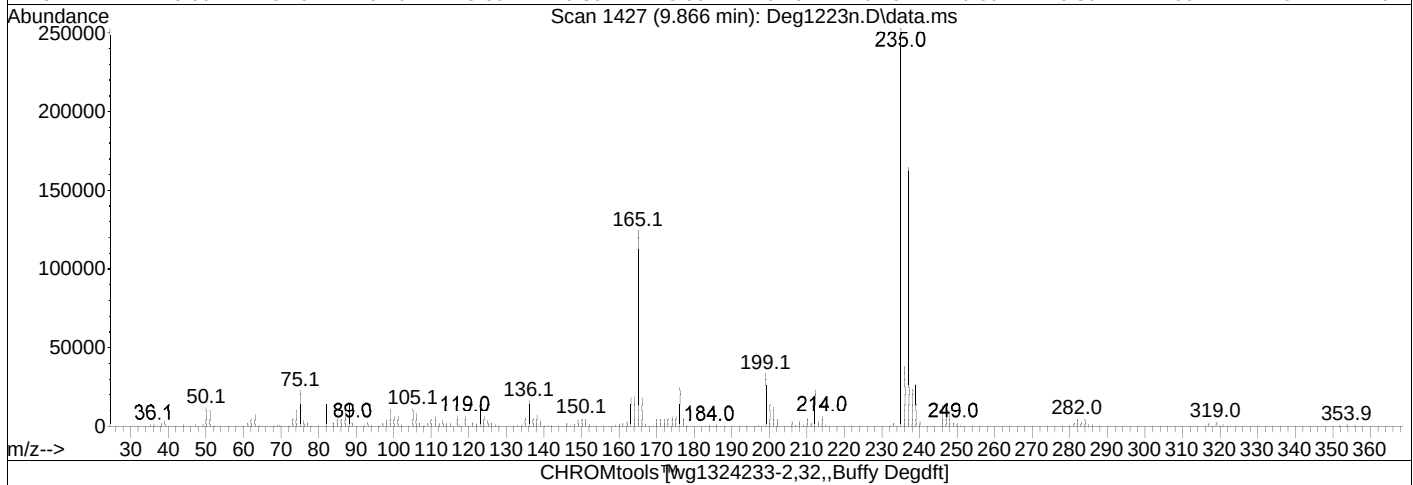
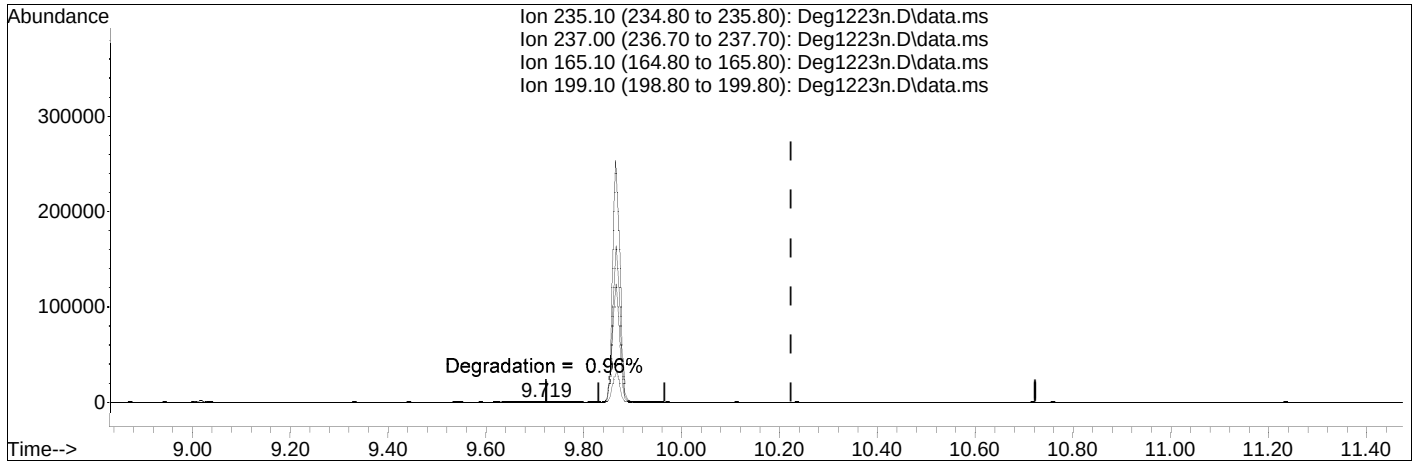
Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : ADP1223n.D Operator : Buffy:jg  
Date Inj'd : 12/23/2019 11:54 pm Instrument : Buffy  
Sample : wg1324233-5,32,,ADP CCV LoQuant Date : 12/24/2019 0:36 am

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

# Quantitation Report (Qedit)

Data Path : I:\8270\Buffy\191223n\  
Data File : Deg1223n.D  
Acq On : 23 Dec 2019 10:45 pm  
Operator : Buffy:jg  
Sample : wg1324233-2,32,,Buffy Degdft  
Misc : wg1324233,wg,ical16199  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 23 23:03:07 2019  
Quant Method : I:\8270\Buffy\191223n\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Wed Dec 04 19:48:59 2019  
Response via : Initial Calibration



CHROMtools [wg1324233-2,32,,Buffy Degdft]

(6) ddt (T)

9.866min (-0.358) 41.21 Lin

response 251189

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 64.70  | 64.51  |
| 165.10 | 46.20  | 49.05  |

Duplicate Retention Times

(4) DDE 246.00

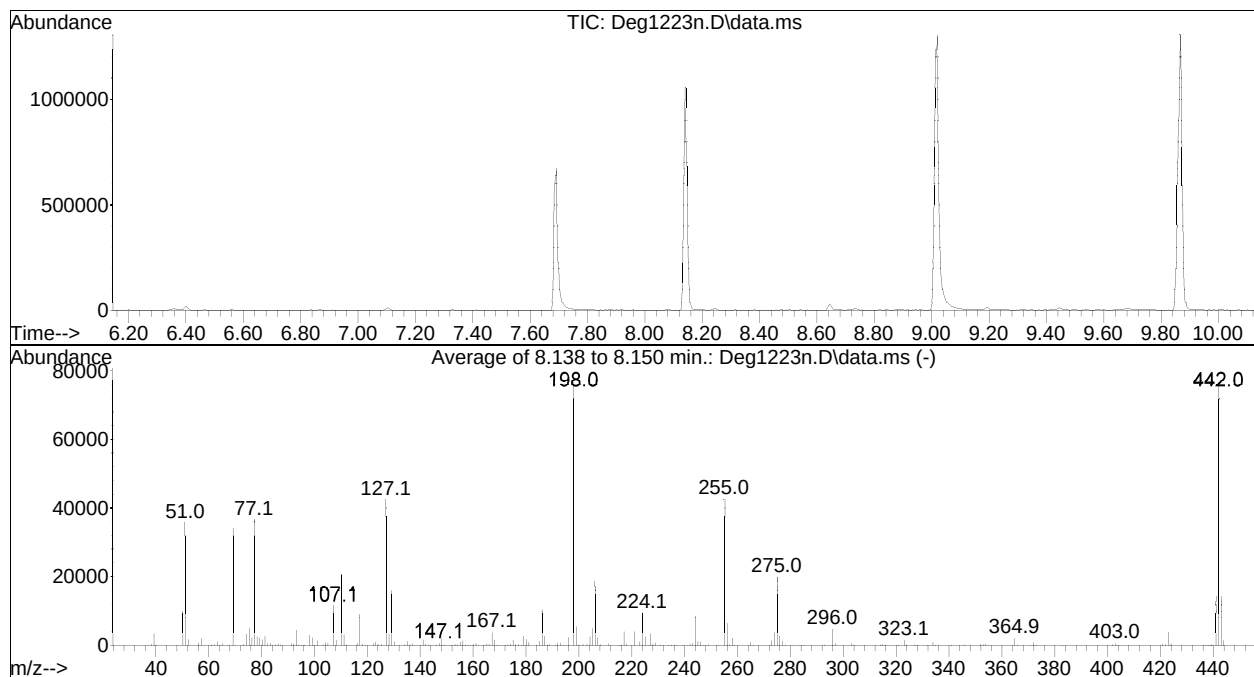
(5) DDD 235.00

## DFTPP

Data Path : I:\8270\Buffy\191223n\  
 Data File : Deg1223n.D  
 Acq On : 23 Dec 2019 10:45 pm  
 Operator : Buffy:jg  
 Sample : wg1324233-1,32,,Buffy Degdft  
 Misc : wg1324233,wg,ical16199  
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Tue Dec 24 00:36:28 2019

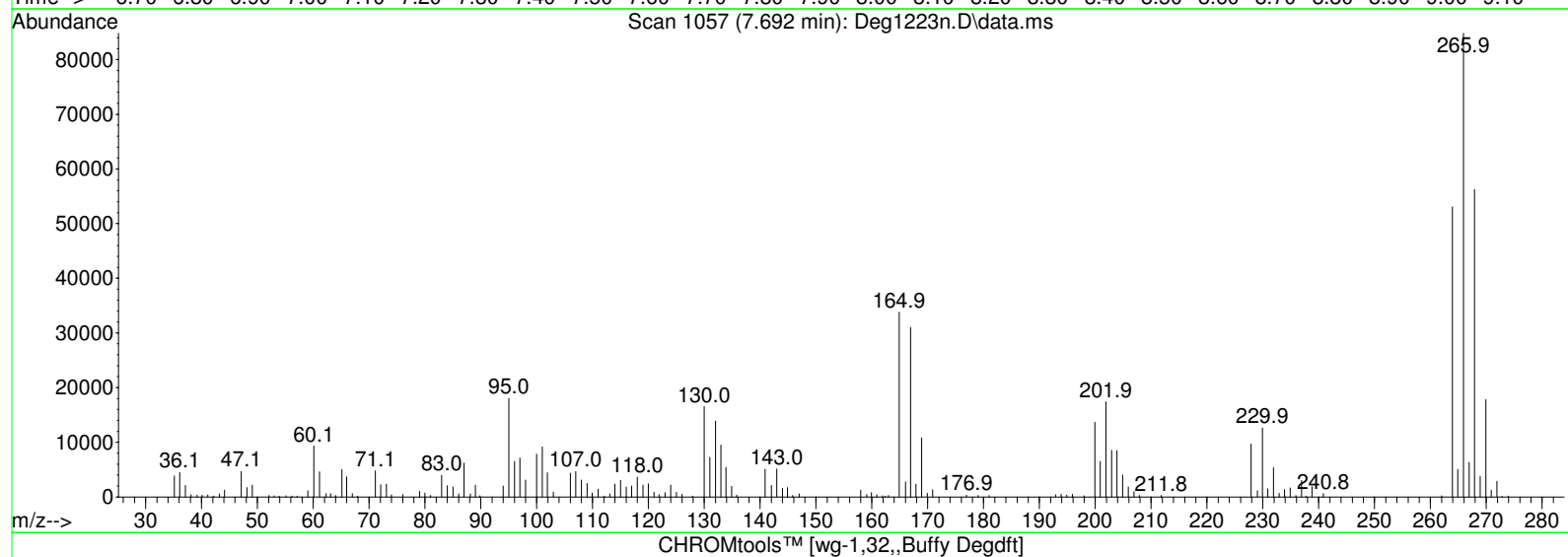
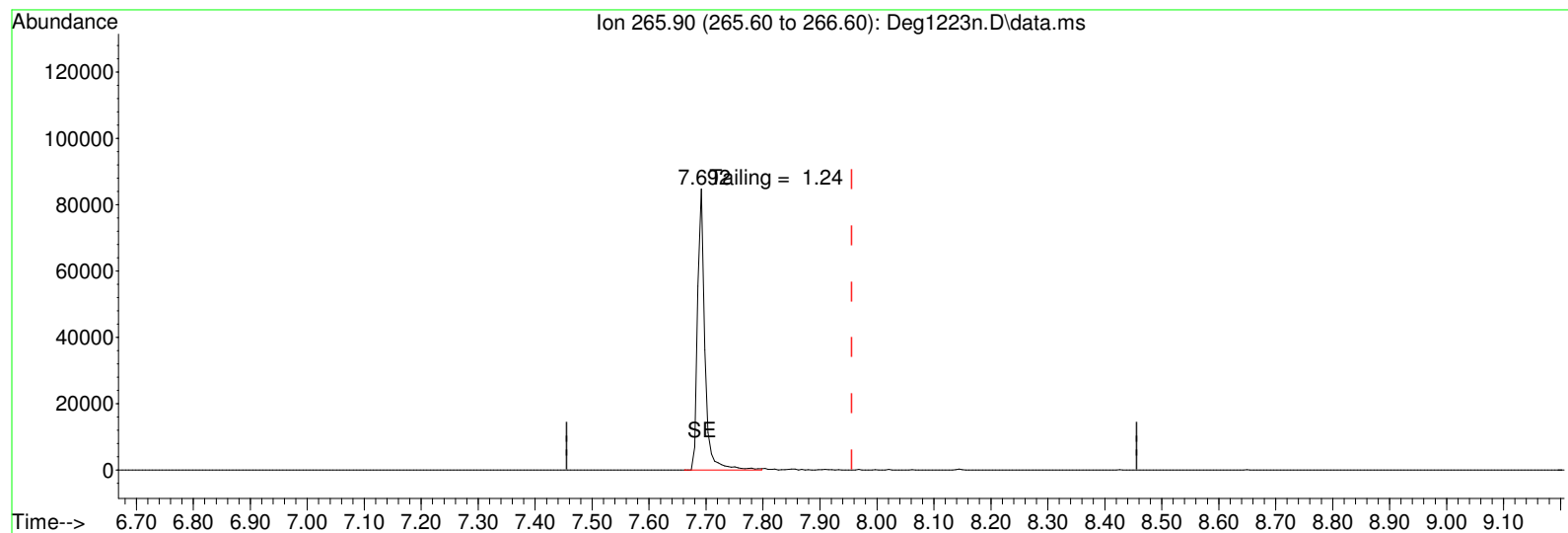


Spectrum Information: Average of 8.138 to 8.150 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 46.5      | 35705   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 70          | 69           | 0.00         | 2            | 0.6       | 220     | PASS             |
| 127         | 198          | 10           | 80           | 55.4      | 42525   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 76811   | PASS             |
| 199         | 198          | 5            | 9            | 7.0       | 5392    | PASS             |
| 275         | 198          | 10           | 60           | 25.8      | 19782   | PASS             |
| 365         | 198          | 1            | 100          | 2.8       | 2151    | PASS             |
| 441         | 442          | 0.01         | 24           | 18.8      | 14330   | PASS             |
| 442         | 198          | 50           | 100          | 99.4      | 76331   | PASS             |
| 443         | 442          | 15           | 24           | 18.7      | 14282   | PASS             |

Data Path : I:\8270\Buffy\191223n\  
Data File : Deg1223n.D  
Acq On : 23 Dec 2019 10:45 pm  
Operator : Buffy:  
Sample : wg-1,32,,Buffy Degdft  
Misc : wg,wg,ical16199  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 23 23:03:07 2019  
Quant Method : I:\8270\Buffy\191223n\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Wed Dec 04 19:48:59 2019  
Response via : Initial Calibration



(1) pentachlorophenol (T)

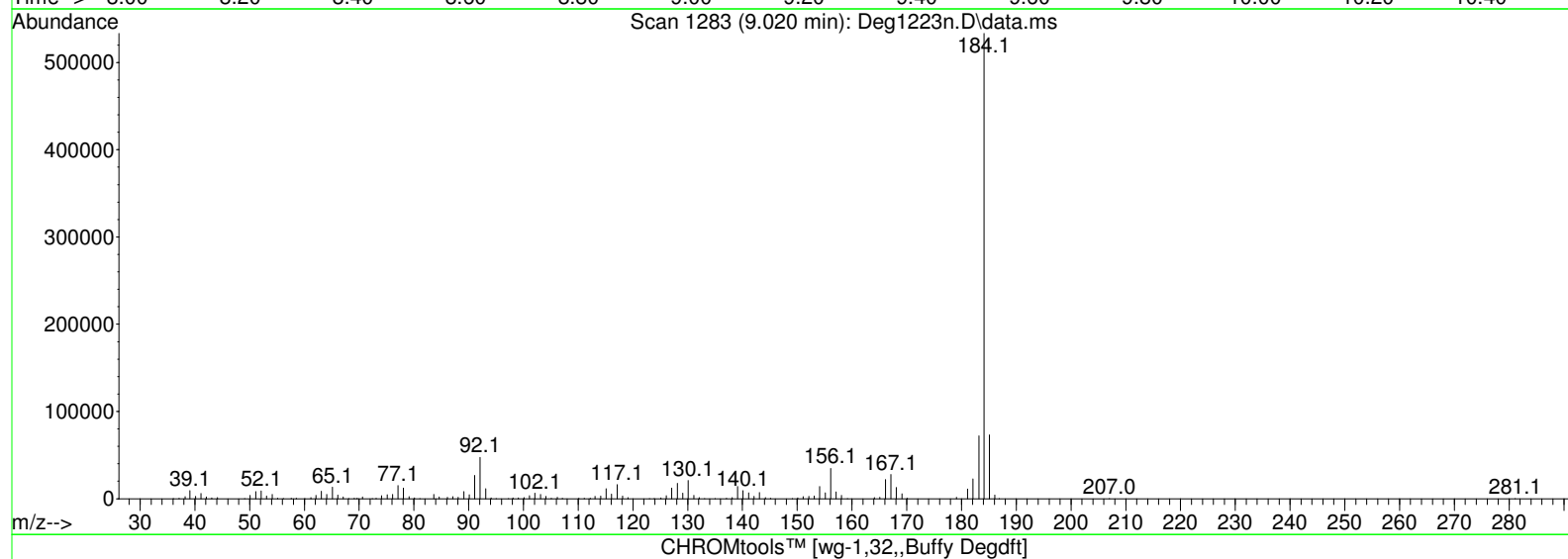
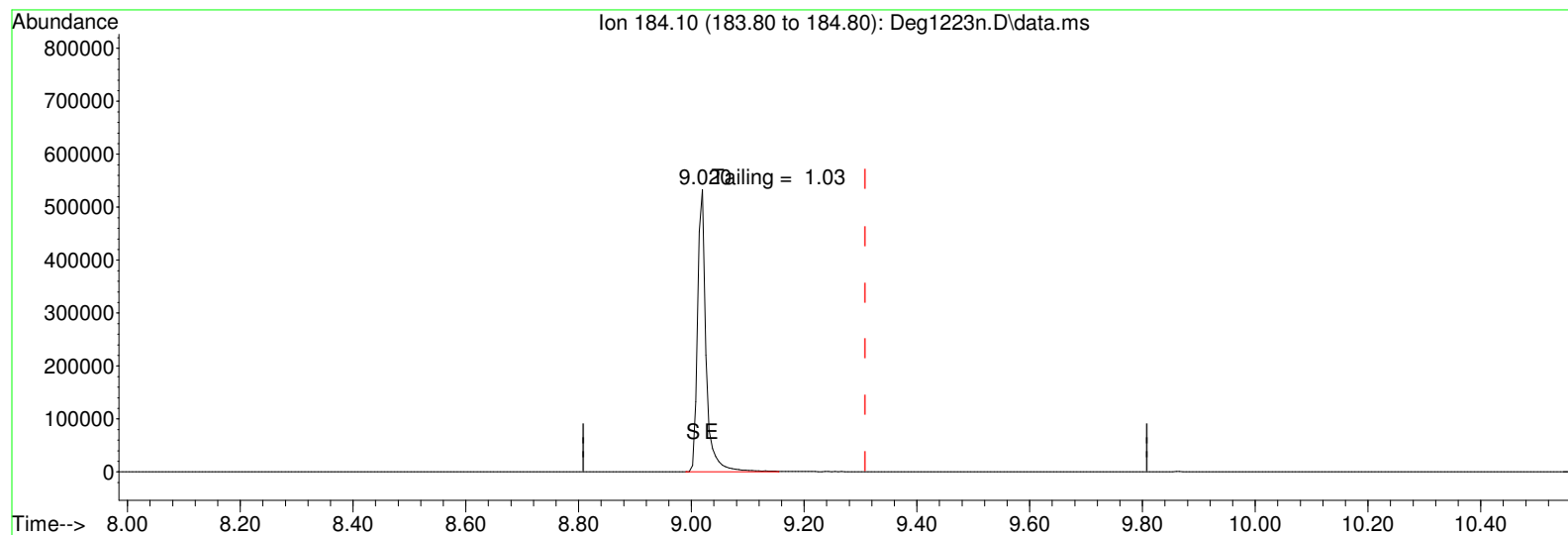
7.692min (-0.264) 35.62 Lin

response 74816

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

Data Path : I:\8270\Buffy\191223n\  
Data File : Deg1223n.D  
Acq On : 23 Dec 2019 10:45 pm  
Operator : Buffy:  
Sample : wg-1,32,,Buffy Degdft  
Misc : wg,wg,ical16199  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 23 23:03:07 2019  
Quant Method : I:\8270\Buffy\191223n\dftppbuffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Wed Dec 04 19:48:59 2019  
Response via : Initial Calibration



(3) benzidine (T)

9.020min (-0.288) 55.27 Lin

response 562689

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|----------|--------|-------|-------|----------|
| 1 I  | IS1_1,4-Dichlorobenzene-d4  | 1.000    | 1.000  | 0.0   | 117   | 0.00     |
| 2 t  | n-Nitrosodimethylamine      | 0.714    | 0.755  | -5.7  | 125   | 0.00     |
| 3 t  | Pyridine                    | 1.267    | 1.171  | 7.6   | 107   | 0.00     |
| 4 S  | 2-Fluorophenol              | 1.106    | 1.205  | -9.0  | 127   | 0.00     |
| 5 T  | Aniline                     | 1.797    | 1.823  | -1.4  | 123   | 0.00     |
| 6 t  | 2-Chlorophenol              | 1.244    | 1.361  | -9.4  | 127   | 0.00     |
| 7 S  | Phenol-d6                   | 1.339    | 1.451  | -8.4  | 128   | 0.00     |
| 8 T  | Phenol                      | 1.568    | 1.483  | 5.4   | 112   | 0.00     |
| 9 T  | Bis(2-chloroethyl)ether     | 1.062    | 0.987  | 7.1   | 113   | 0.00     |
| 10 T | 1,3-Dichlorobenzene         | 1.524    | 1.520  | 0.3   | 122   | 0.00     |
| 11 T | 1,4-Dichlorobenzene         | 1.528    | 1.541  | -0.9  | 123   | 0.00     |
| 12 T | 1,2-Dichlorobenzene         | 1.426    | 1.483  | -4.0  | 125   | 0.00     |
| 13 t | Benzyl alcohol              | 0.914    | 0.899  | 1.6   | 112   | 0.00     |
| 14 T | Bis(2-chloroisopropyl)ether | 1.856    | 1.439  | 22.5# | 94    | 0.00     |
| 15 T | 2-Methylphenol              | 1.072    | 1.110  | -3.5  | 117   | 0.00     |
| 16 T | Hexachloroethane            | 0.577    | 0.548  | 5.0   | 112   | 0.00     |
| 17 T | n-Nitrosodi-n-propylamine   | 0.824    | 0.771  | 6.4   | 105   | 0.00     |
| 18 T | 3-Methylphenol/4-Methylphen | 1.162    | 1.167  | -0.4  | 115   | 0.00     |
| 19 S | Nitrobenzene-d5             | 1.200    | 1.180  | 1.7   | 110   | 0.00     |
| 20 T | Nitrobenzene                | 1.231    | 1.148  | 6.7   | 107   | 0.00     |
| 21 T | Isophorone                  | 2.161    | 2.074  | 4.0   | 110   | 0.00     |
| 22 T | 2-Nitrophenol               | 0.646    | 0.757  | -17.2 | 133   | 0.00     |
| 23 T | 2,4-Dimethylphenol          | 1.200    | 0.932  | 22.3# | 88    | 0.00     |
| 24 T | Bis(2-chloroethoxy)methane  | 1.480    | 1.357  | 8.3   | 110   | 0.00     |
| 25 T | 2,4-Dichlorophenol          | 1.192    | 1.263  | -6.0  | 117   | 0.00     |
| 26 T | 1,2,4-Trichlorobenzene      | 1.424    | 1.367  | 4.0   | 117   | 0.00     |
| 35 I | IS1_Naphthalene-d8          | 1.000    | 1.000  | 0.0   | 115   | 0.00     |
| 36 T | Naphthalene                 | 1.015    | 1.015  | 0.0   | 119   | 0.00     |
| 37 T | Benzoic Acid                | * 50.000 | 56.165 | -12.3 | 131   | 0.00     |
| 38 T | 4-Chloroaniline             | 0.125    | 0.104  | 16.8  | 99    | 0.00     |
| 39 T | Hexachlorobutadiene         | 0.220    | 0.212  | 3.6   | 113   | 0.00     |
| 40 T | p-Chloro-m-cresol           | 0.281    | 0.289  | -2.8  | 109   | 0.00     |
| 41 T | 2-Methylnaphthalene         | 0.739    | 0.727  | 1.6   | 114   | 0.00     |
| 42 T | 1-Methylnaphthalene         | 0.244    | 0.204  | 16.4  | 100   | 0.00     |
| 43 T | Hexachlorocyclopentadiene   | 0.277    | 0.258  | 6.9   | 102   | 0.00     |
| 44 T | 2,4,6-Trichlorophenol       | 0.249    | 0.274  | -10.0 | 120   | 0.00     |
| 45 T | 2,4,5-Trichlorophenol       | 0.264    | 0.292  | -10.6 | 120   | 0.00     |
| 46 S | 2-Fluorobiphenyl            | 0.862    | 0.818  | 5.1   | 113   | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|----------|--------|--------|-------|----------|
| 47 T | 2-Chloronaphthalene         | 0.747    | 0.718  | 3.9    | 113   | 0.00     |
| 48 T | 2-Nitroaniline              | 0.223    | 0.265  | -18.8  | 127   | 0.00     |
| 49 T | 1,4-Dinitrobenzene          | 0.093    | 0.112  | -20.4# | 128   | 0.00     |
| 50 T | 1,3-Dinitrobenzene          | 0.104    | 0.123  | -18.3  | 131   | 0.00     |
| 51 T | Dimethyl phthalate          | 0.844    | 0.840  | 0.5    | 116   | 0.00     |
| 52 T | Acenaphthylene              | 1.151    | 1.136  | 1.3    | 115   | 0.00     |
| 53 T | 2,6-Dinitrotoluene          | 0.174    | 0.196  | -12.6  | 122   | 0.00     |
| 54 T | 1,2-Dinitrobenzene          | 0.063    | 0.067  | -6.3   | 121   | 0.00     |
| 63 I | IS1_Acenaphthene-d10        | 1.000    | 1.000  | 0.0    | 113   | 0.00     |
| 64 T | 3-Nitroaniline              | 0.338    | 0.381  | -12.7  | 121   | 0.00     |
| 65 T | Acenaphthene                | 1.168    | 1.124  | 3.8    | 117   | 0.00     |
| 66 T | 2,4-Dinitrophenol           | * 50.000 | 61.803 | -23.6# | 148   | 0.00     |
| 67 T | Dibenzofuran                | 1.763    | 1.779  | -0.9   | 121   | 0.00     |
| 68 T | 2,4-Dinitrotoluene          | 0.380    | 0.444  | -16.8  | 125   | 0.00     |
| 69 T | 4-Nitrophenol               | 0.241    | 0.235  | 2.5    | 105   | 0.00     |
| 70 T | 2,3,5,6-Tetrachlorophenol   | 0.403    | 0.482  | -19.6  | 130   | 0.00     |
| 71 T | 2,3,4,6-Tetrachlorophenol   | 0.431    | 0.481  | -11.6  | 125   | 0.00     |
| 72 T | Diethyl phthalate           | 1.438    | 1.414  | 1.7    | 113   | 0.00     |
| 73 T | Fluorene                    | 1.400    | 1.409  | -0.6   | 115   | 0.00     |
| 74 T | 4-Chlorophenyl phenyl ether | 0.714    | 0.672  | 5.9    | 111   | 0.00     |
| 75 T | 4-Nitroaniline              | 0.363    | 0.389  | -7.2   | 116   | 0.00     |
| 76 T | 4,6-Dinitro-o-cresol        | 0.221    | 0.320  | -44.8# | 152   | 0.00     |
| 77 T | NDPA/DPA                    | 1.194    | 1.195  | -0.1   | 117   | 0.00     |
| 78 T | Azobenzene                  | 1.279    | 1.117  | 12.7   | 100   | 0.00     |
| 79 S | 2,4,6-Tribromophenol        | 0.264    | 0.333  | -26.1# | 135   | 0.00     |
| 80 T | 4-Bromophenyl phenyl ether  | 0.461    | 0.493  | -6.9   | 122   | 0.00     |
| 81 T | Hexachlorobenzene           | 0.547    | 0.605  | -10.6  | 131   | 0.00     |
| 82 T | Pentachlorophenol           | * 50.000 | 58.493 | -17.0  | 135   | 0.00     |
| 88 I | IS1_Phenanthrene-d10        | 1.000    | 1.000  | 0.0    | 123   | 0.00     |
| 89 T | Phenanthrene                | 1.139    | 1.033  | 9.3    | 119   | 0.00     |
| 90 T | Anthracene                  | 1.119    | 1.057  | 5.5    | 117   | 0.00     |
| 91 T | Carbazole                   | 1.030    | 1.026  | 0.4    | 121   | 0.00     |
| 92 T | Di-n-butylphthalate         | 1.124    | 1.170  | -4.1   | 115   | 0.00     |
| 93 T | Fluoranthene                | 1.328    | 1.300  | 2.1    | 119   | 0.00     |
| 94 T | Benzidine                   | 0.814    | 0.838  | -2.9   | 114   | 0.00     |
| 95 T | Pyrene                      | 1.434    | 1.336  | 6.8    | 114   | 0.00     |
| 96 S | 4-Terphenyl-d14             | 0.890    | 0.879  | 1.2    | 120   | 0.00     |



# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

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

|       | Compound                     | AvgRF  | CCRF   | %Dev  | Area% | Dev(min) |
|-------|------------------------------|--------|--------|-------|-------|----------|
| 97 T  | Butyl benzyl phthalate       | 0.531  | 0.577  | -8.7  | 120   | 0.00     |
| 104 I | IS1_Chrysene-d12             | 1.000  | 1.000  | 0.0   | 130   | 0.00     |
| 105 T | Benzo(a)anthracene           | 1.244  | 1.248  | -0.3  | 132   | 0.00     |
| 106 T | 3,3'-Dichlorobenzidine       | 0.468  | 0.520  | -11.1 | 132   | 0.00     |
| 107 T | Chrysene                     | 1.327  | 1.131  | 14.8  | 118   | 0.00     |
| 108 T | Bis(2-ethylhexyl)phthalate * | 50.000 | 46.174 | 7.7   | 114   | 0.00     |
| 109 T | Di-n-octylphthalate          | 1.272  | 1.324  | -4.1  | 122   | 0.00     |
| 110 T | Benzo(b)fluoranthene         | 1.365  | 1.478  | -8.3  | 143   | 0.00     |
| 111 T | Benzo(k)fluoranthene         | 1.286  | 1.062  | 17.4  | 102   | 0.00     |
| 112 T | Benzo(a)pyrene               | 1.301  | 1.226  | 5.8   | 121   | 0.00     |
| 113 I | IS1_Perylene-d12             | 1.000  | 1.000  | 0.0   | 124   | 0.00     |
| 114 T | Indeno(1,2,3-cd)pyrene       | 1.053  | 1.202  | -14.2 | 136   | 0.00     |
| 115 T | Dibenzo(a,h)anthracene       | 1.035  | 1.133  | -9.5  | 131   | 0.00     |
| 116 T | Benzo(ghi)perylene           | 1.126  | 1.211  | -7.5  | 129   | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| -----                         |        |                |          |        |          |          |
| Internal Standards            |        |                |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.587  | 152            | 230273   | 40.000 | ug/ml    | 0.00     |
| 35) IS1_Naphthalene-d8        | 4.698  | 136            | 837477   | 40.000 | ug/ml    | 0.00     |
| 63) IS1_Acenaphthene-d10      | 6.141  | 164            | 496701   | 40.000 | ug/ml    | 0.00     |
| 88) IS1_Phenanthrene-d10      | 7.327  | 188            | 1076593  | 40.000 | ug/ml    | 0.00     |
| 104) IS1_Chrysene-d12         | 9.666  | 240            | 1191633  | 40.000 | ug/ml    | # 0.00   |
| 113) IS1_Perylene-d12         | 10.900 | 264            | 1381786  | 40.000 | ug/ml    | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 4) 2-Fluorophenol             | 2.305  | 112            | 346899   | 54.481 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 108.96%  |          |
| 7) Phenol-d6                  | 3.314  | 99             | 417566   | 54.178 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 108.36%  |          |
| 19) Nitrobenzene-d5           | 4.089  | 82             | 339602   | 49.164 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 196.66%# |          |
| 46) 2-Fluorobiphenyl          | 5.617  | 172            | 855804   | 47.399 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 189.60%# |          |
| 79) 2,4,6-Tribromophenol      | 6.776  | 330            | 206723   | 63.170 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 126.34%# |          |
| 96) 4-Terphenyl-d14           | 8.742  | 244            | 1182777  | 49.399 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 197.60%# |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.146  | 74             | 217292   | 52.895 | ug/ml    | 87       |
| 3) Pyridine                   | 1.167  | 79             | 336975   | 46.195 | ug/ml    | 91       |
| 5) Aniline                    | 3.288  | 93             | 524638   | 50.725 | ug/ml#   | 60       |
| 6) 2-Chlorophenol             | 3.395  | 128            | 391660   | 54.698 | ug/ml    | 95       |
| 8) Phenol                     | 3.330  | 94             | 426962   | 47.291 | ug/ml#   | 56       |
| 9) Bis(2-chloroethyl)ether    | 3.379  | 93             | 284158   | 46.482 | ug/ml#   | 70       |
| 10) 1,3-Dichlorobenzene       | 3.534  | 146            | 437517   | 49.870 | ug/ml    | 98       |
| 11) 1,4-Dichlorobenzene       | 3.603  | 146            | 443687   | 50.442 | ug/ml    | 98       |
| 12) 1,2-Dichlorobenzene       | 3.737  | 146            | 426767   | 51.975 | ug/ml    | 99       |
| 13) Benzyl alcohol            | 3.747  | 79             | 258697   | 49.184 | ug/ml    | 94       |
| 14) Bis(2-chloroisopropyl)... | 3.881  | 45             | 414149   | 38.762 | ug/ml    | 98       |
| 15) 2-Methylphenol            | 3.875  | 108            | 319526   | 51.758 | ug/ml    | 98       |
| 16) Hexachloroethane          | 4.030  | 117            | 157800   | 47.512 | ug/ml#   | 77       |
| 17) n-Nitrosodi-n-propylamine | 3.998  | 70             | 222003   | 46.775 | ug/ml#   | 92       |
| 18) 3-Methylphenol/4-Methy... | 4.025  | 108            | 335974   | 50.225 | ug/ml    | 98       |
| 20) Nitrobenzene              | 4.105  | 77             | 330547   | 46.659 | ug/ml    | 97       |
| 21) Isophorone                | 4.330  | 82             | 596840   | 47.984 | ug/ml    | 97       |
| 22) 2-Nitrophenol             | 4.388  | 139            | 217848   | 58.607 | ug/ml    | 93       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 23) | 2,4-Dimethylphenol        | 4.474 | 107  | 268152   | 38.828 | ug/ml  | 94       |
| 24) | Bis(2-chloroethoxy)met... | 4.549 | 93   | 390699   | 45.866 | ug/ml# | 96       |
| 25) | 2,4-Dichlorophenol        | 4.602 | 162  | 363491   | 52.953 | ug/ml  | 97       |
| 26) | 1,2,4-Trichlorobenzene    | 4.661 | 180  | 393538   | 48.018 | ug/ml  | 99       |
| 36) | Naphthalene               | 4.714 | 128  | 1062073  | 49.973 | ug/ml  | 99       |
| 37) | Benzoic Acid              | 4.623 | 105  | 300761   | 56.165 | ug/ml# | 1        |
| 38) | 4-Chloroaniline           | 4.789 | 65   | 108540   | 41.502 | ug/ml  | 72       |
| 39) | Hexachlorobutadiene       | 4.853 | 225  | 221844   | 48.114 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.227 | 107  | 302337   | 51.330 | ug/ml  | 94       |
| 41) | 2-Methylnaphthalene       | 5.296 | 142  | 761564   | 49.207 | ug/ml  | 96       |
| 42) | 1-Methylnaphthalene       | 5.377 | 115  | 213416   | 41.808 | ug/ml  | 80       |
| 43) | Hexachlorocyclopentadiene | 5.446 | 237  | 270198   | 46.643 | ug/ml  | 97       |
| 44) | 2,4,6-Trichlorophenol     | 5.548 | 196  | 287264   | 55.064 | ug/ml  | 97       |
| 45) | 2,4,5-Trichlorophenol     | 5.569 | 196  | 305828   | 55.313 | ug/ml  | 96       |
| 47) | 2-Chloronaphthalene       | 5.692 | 162  | 751813   | 48.053 | ug/ml  | 97       |
| 48) | 2-Nitroaniline            | 5.793 | 138  | 277264   | 59.416 | ug/ml  | 92       |
| 49) | 1,4-Dinitrobenzene        | 5.911 | 168  | 116793   | 59.762 | ug/ml  | 94       |
| 50) | 1,3-Dinitrobenzene        | 5.970 | 168  | 128567   | 58.790 | ug/ml  | 87       |
| 51) | Dimethyl phthalate        | 5.975 | 163  | 879172   | 49.761 | ug/ml# | 98       |
| 52) | Acenaphthylene            | 6.018 | 152  | 1189721  | 49.353 | ug/ml  | 99       |
| 53) | 2,6-Dinitrotoluene        | 6.002 | 165  | 204895   | 56.108 | ug/ml# | 77       |
| 54) | 1,2-Dinitrobenzene        | 6.039 | 168  | 69827    | 53.065 | ug/ml# | 59       |
| 64) | 3-Nitroaniline            | 6.130 | 138  | 236460   | 56.418 | ug/ml# | 94       |
| 65) | Acenaphthene              | 6.167 | 154  | 697702   | 48.110 | ug/ml  | 96       |
| 66) | 2,4-Dinitrophenol         | 6.215 | 184  | 156444   | 61.803 | ug/ml  | 90       |
| 67) | Dibenzofuran              | 6.306 | 168  | 1104247  | 50.426 | ug/ml# | 75       |
| 68) | 2,4-Dinitrotoluene        | 6.322 | 165  | 275706   | 58.372 | ug/ml# | 74       |
| 69) | 4-Nitrophenol             | 6.301 | 65   | 146066   | 48.803 | ug/ml# | 1        |
| 70) | 2,3,5,6-Tetrachlorophenol | 6.386 | 232  | 299005   | 59.730 | ug/ml  | 98       |
| 71) | 2,3,4,6-Tetrachlorophenol | 6.418 | 232  | 298824   | 55.779 | ug/ml  | 97       |
| 72) | Diethyl phthalate         | 6.547 | 149  | 878166   | 49.165 | ug/ml  | 98       |
| 73) | Fluorene                  | 6.579 | 166  | 874905   | 50.321 | ug/ml  | 94       |
| 74) | 4-Chlorophenyl phenyl ... | 6.600 | 204  | 417024   | 47.053 | ug/ml  | 96       |
| 75) | 4-Nitroaniline            | 6.621 | 138  | 241288   | 53.472 | ug/ml  | 90       |
| 76) | 4,6-Dinitro-o-cresol      | 6.648 | 198  | 198821   | 72.289 | ug/ml# | 91       |
| 77) | NDPA/DPA                  | 6.701 | 169  | 741997   | 50.032 | ug/ml  | 94       |
| 78) | Azobenzene                | 6.728 | 77   | 693616   | 43.666 | ug/ml# | 93       |
| 80) | 4-Bromophenyl phenyl e... | 6.990 | 248  | 306077   | 53.506 | ug/ml  | 94       |
| 81) | Hexachlorobenzene         | 7.022 | 284  | 375786   | 55.362 | ug/ml  | 95       |
| 82) | Pentachlorophenol         | 7.188 | 266  | 255777   | 58.493 | ug/ml  | 98       |
| 89) | Phenanthrene              | 7.343 | 178  | 1389942  | 45.334 | ug/ml  | 99       |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

|       | Compound                  | R.T.   | QIon | Response  | Conc   | Units  | Dev(Min) |
|-------|---------------------------|--------|------|-----------|--------|--------|----------|
| ----- |                           |        |      |           |        |        |          |
| 90)   | Anthracene                | 7.385  | 178  | 1422620   | 47.222 | ug/ml  | 99       |
| 91)   | Carbazole                 | 7.535  | 167  | 1380512   | 49.806 | ug/ml  | 98       |
| 92)   | Di-n-butylphthalate       | 7.893  | 149  | 1574946   | 52.054 | ug/ml# | 98       |
| 93)   | Fluoranthene              | 8.358  | 202  | 1749685   | 48.951 | ug/ml  | 98       |
| 94)   | Benazidine                | 8.512  | 184  | 1128037   | 51.509 | ug/ml  | 99       |
| 95)   | Pyrene                    | 8.550  | 202  | 1797639   | 46.578 | ug/ml  | 99       |
| 97)   | Butyl benzyl phthalate    | 9.228  | 149  | 776512    | 54.293 | ug/ml# | 90       |
| 105)  | Benzo(a)anthracene        | 9.656  | 228  | 1858740   | 50.169 | ug/ml  | 99       |
| 106)  | 3,3'-Dichlorobenzidine    | 9.672  | 252  | 774053    | 55.481 | ug/ml  | 98       |
| 107)  | Chrysene                  | 9.688  | 228  | 1685200   | 42.639 | ug/ml  | 99       |
| 108)  | Bis(2-ethylhexyl)phtha... | 9.805  | 149  | 1104885   | 46.174 | ug/ml# | 90       |
| 109)  | Di-n-octylphthalate       | 10.388 | 149  | 1972462   | 52.046 | ug/ml# | 94       |
| 110)  | Benzo(b)fluoranthene      | 10.601 | 252  | 2201703   | 54.138 | ug/ml  | 97       |
| 111)  | Benzo(k)fluoranthene      | 10.623 | 252  | 1581381   | 41.268 | ug/ml  | 97       |
| 112)  | Benzo(a)pyrene            | 10.858 | 252  | 1826681   | 47.146 | ug/ml  | 99       |
| 114)  | Indeno(1,2,3-cd)pyrene    | 11.691 | 276  | 2075558M6 | 57.060 | ug/mL  |          |
| 115)  | Dibenzo(a,h)anthracene    | 11.712 | 278  | 1957078   | 54.718 | ug/ml  | 99       |
| 116)  | Benzo(ghi)perylene        | 11.867 | 276  | 2092092   | 53.763 | ug/ml  | 97       |
| ----- |                           |        |      |           |        |        |          |

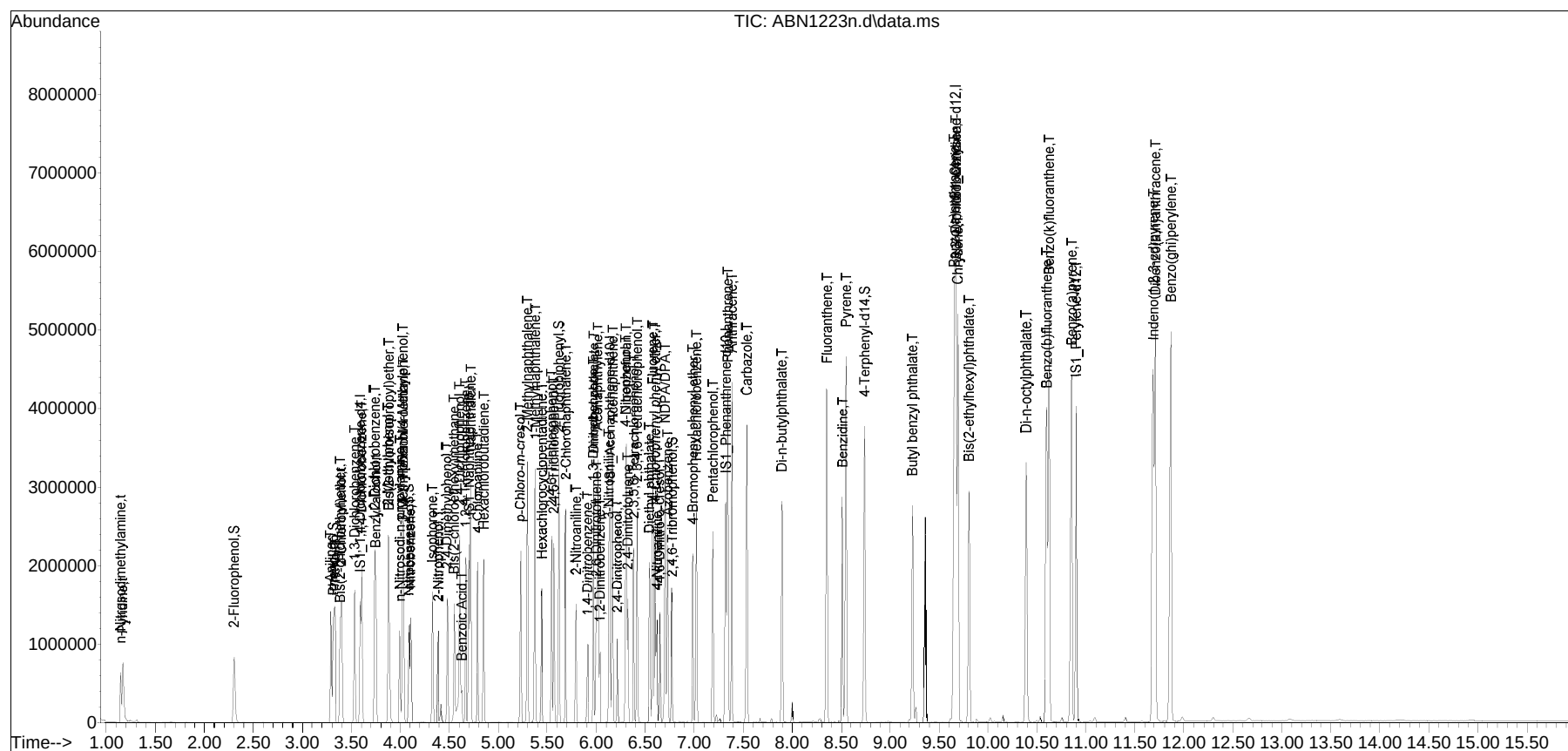
(#) = qualifier out of range (m) = manual integration (+) = signals summed

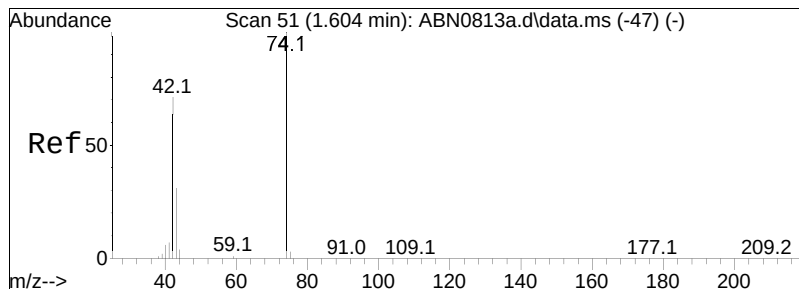
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ABN1223n.d  
 Acq On : 24 Dec 2019 12:38 am  
 Operator : gcms5:ek  
 Sample : wg1324236-3,32,,ABN CCV Lot # 8524  
 Misc : wg1324236,,ical15860  
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Dec 26 11:51:18 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:50:05 2019  
 Response via : Initial Calibration

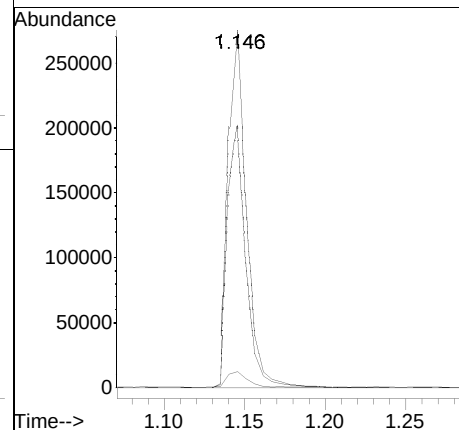
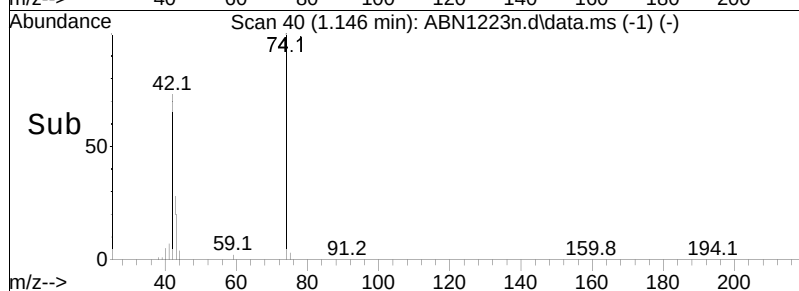
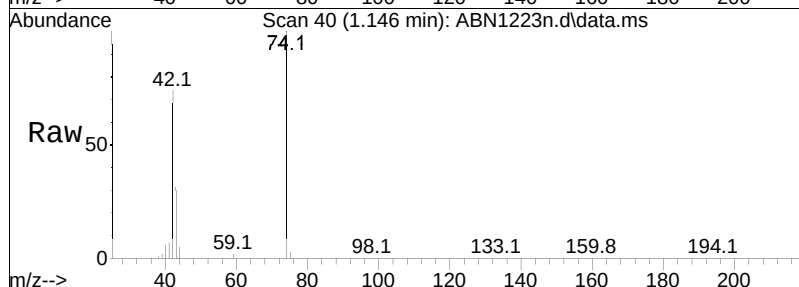
Sub List : ABNical - ABN ical sublist

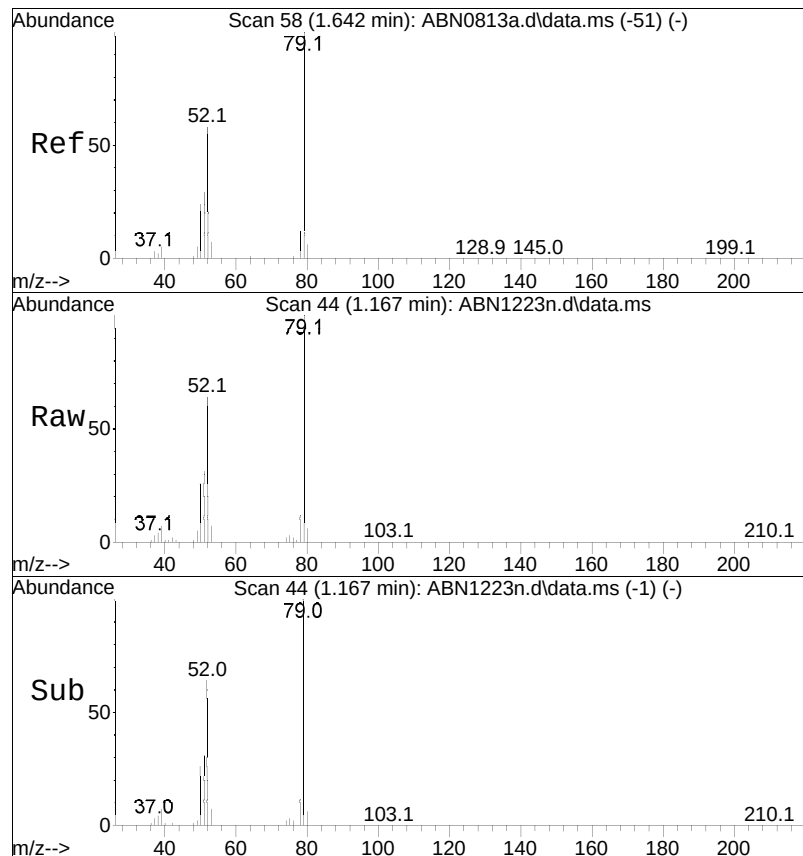




#2  
 n-Nitrosodimethylamine  
 Concen: 52.89 ug/ml  
 RT: 1.146 min Scan# 40  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

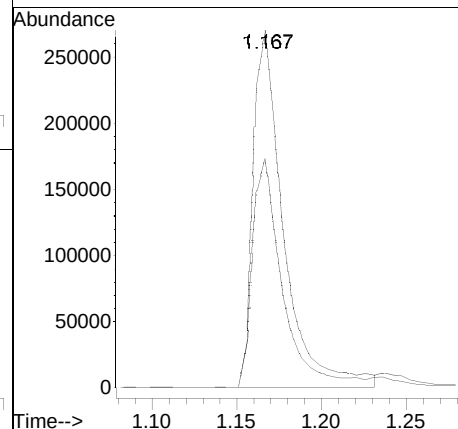
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 74    | Resp: | 217292 |
| Ion Ratio | Lower | Upper |        |
| 74        | 100   |       |        |
| 42        | 73.8  | 69.4  | 104.2  |
| 44        | 4.8   | 3.5   | 5.3    |

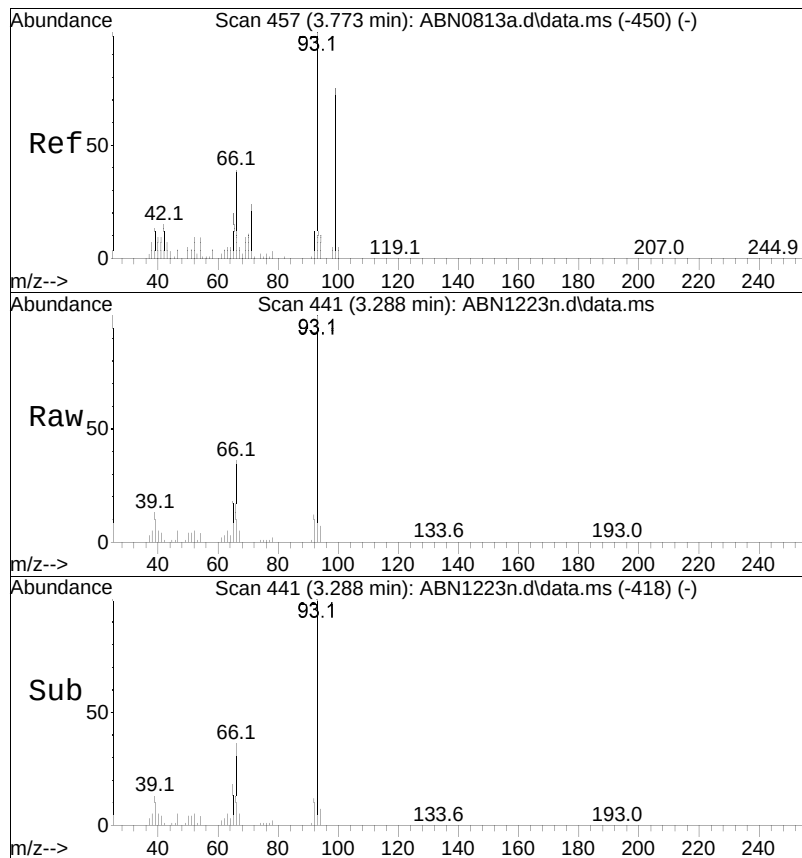




#3  
 Pyridine  
 Concen: 46.20 ug/ml  
 RT: 1.167 min Scan# 44  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

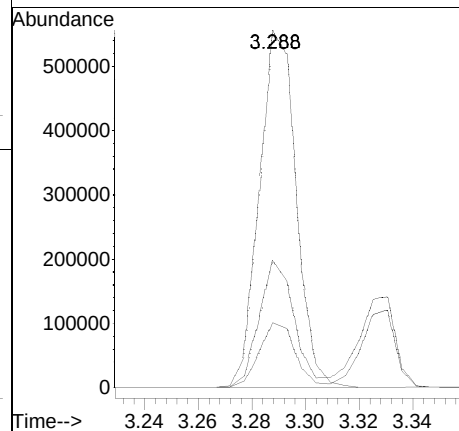
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 63.0  | 56.6  | 85.0  |



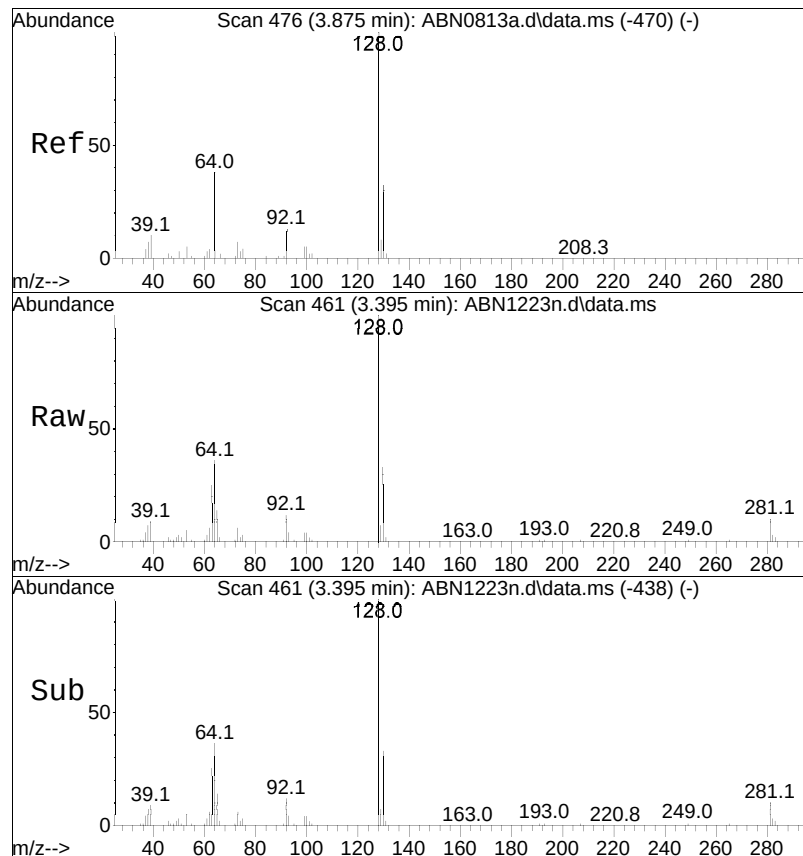


#5  
 Aniline  
 Concen: 50.72 ug/ml  
 RT: 3.288 min Scan# 441  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|     |         |              |
|-----|---------|--------------|
| Tgt | Ion: 93 | Resp: 524638 |
| Ion | Ratio   | Lower Upper  |
| 93  | 100     |              |
| 66  | 33.9    | 53.5 80.3#   |
| 65  | 18.2    | 34.4 51.6#   |

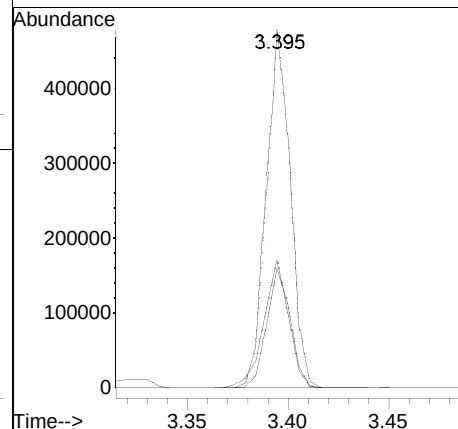


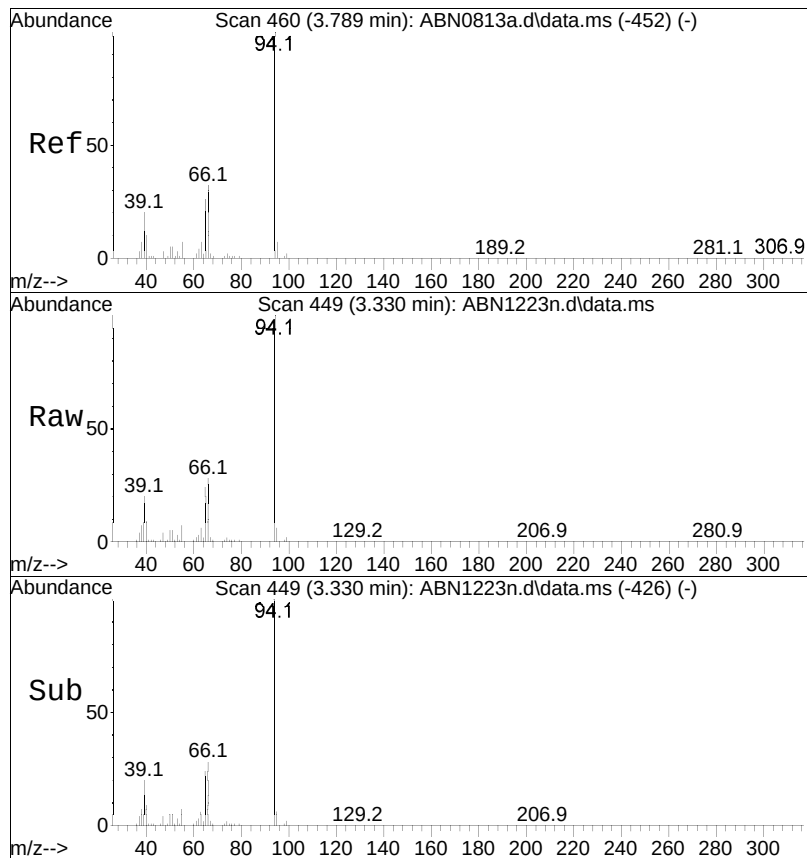




#6  
 2-Chlorophenol  
 Concen: 54.70 ug/ml  
 RT: 3.395 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

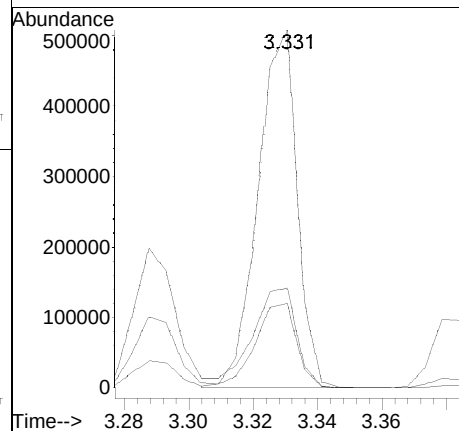
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 391660 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 64        | 37.3  | 33.5  | 50.3   |
| 130       | 32.9  | 25.9  | 38.9   |

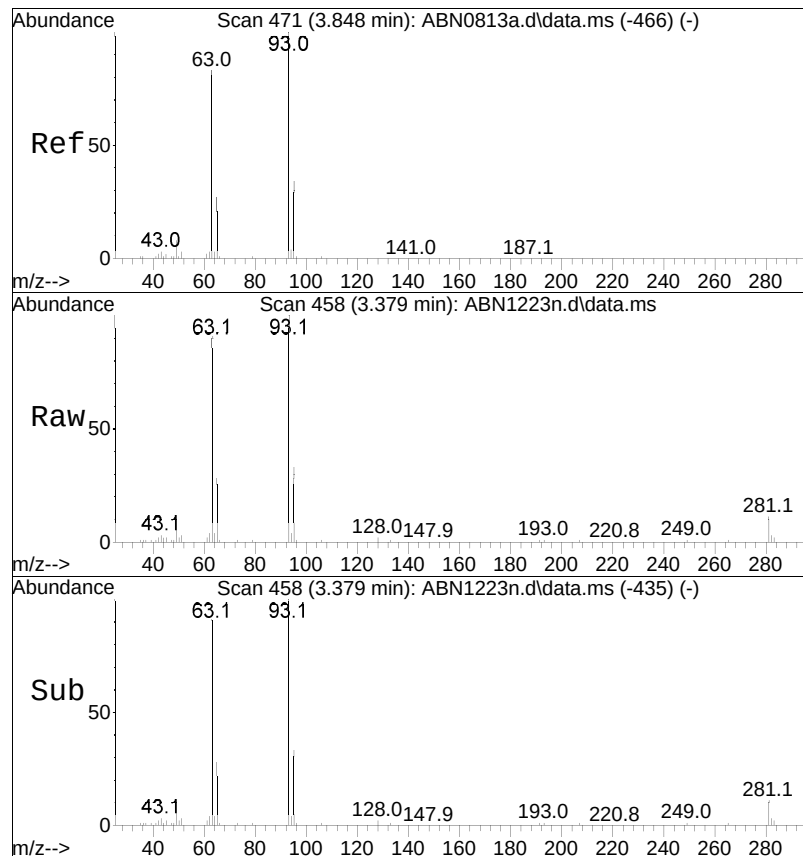




#8  
Phenol  
Concen: 47.29 ug/ml  
RT: 3.330 min Scan# 449  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

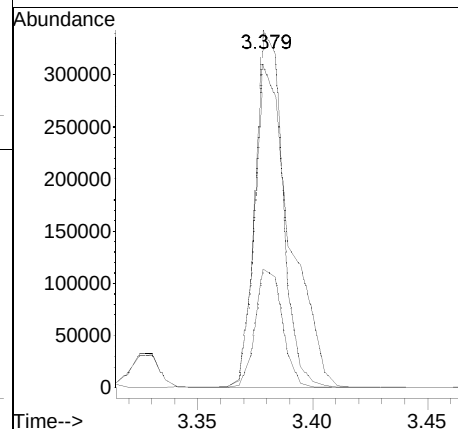
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 94  | 100  |       | 426962 |       |       |
| 65  | 25.0 |       |        | 38.8  | 58.2# |
| 66  | 32.3 |       |        | 60.3  | 90.5# |

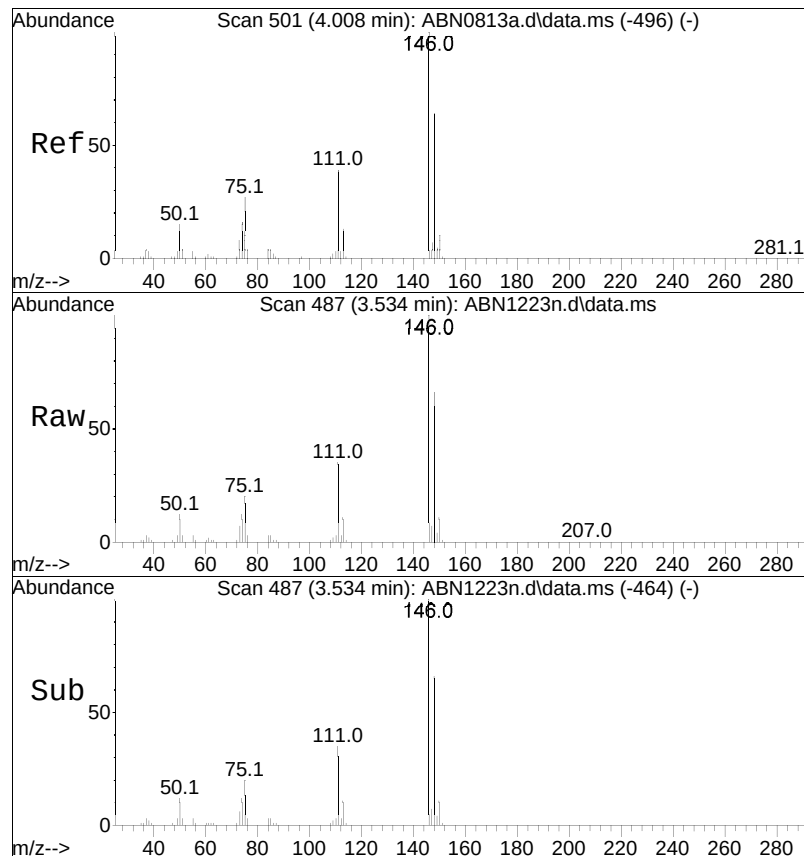




#9  
 Bis(2-chloroethyl)ether  
 Concen: 46.48 ug/ml  
 RT: 3.379 min Scan# 458  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

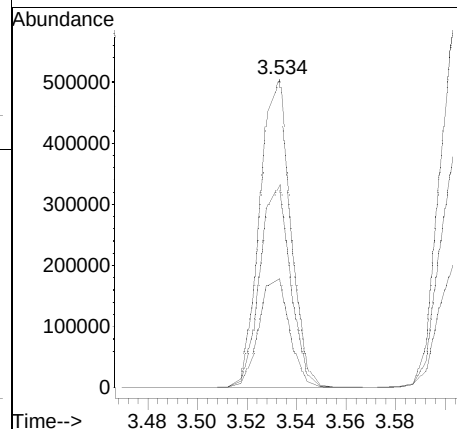
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 284158 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 116.3 | 63.0  | 94.6#  |
| 95        | 32.6  | 26.3  | 39.5   |

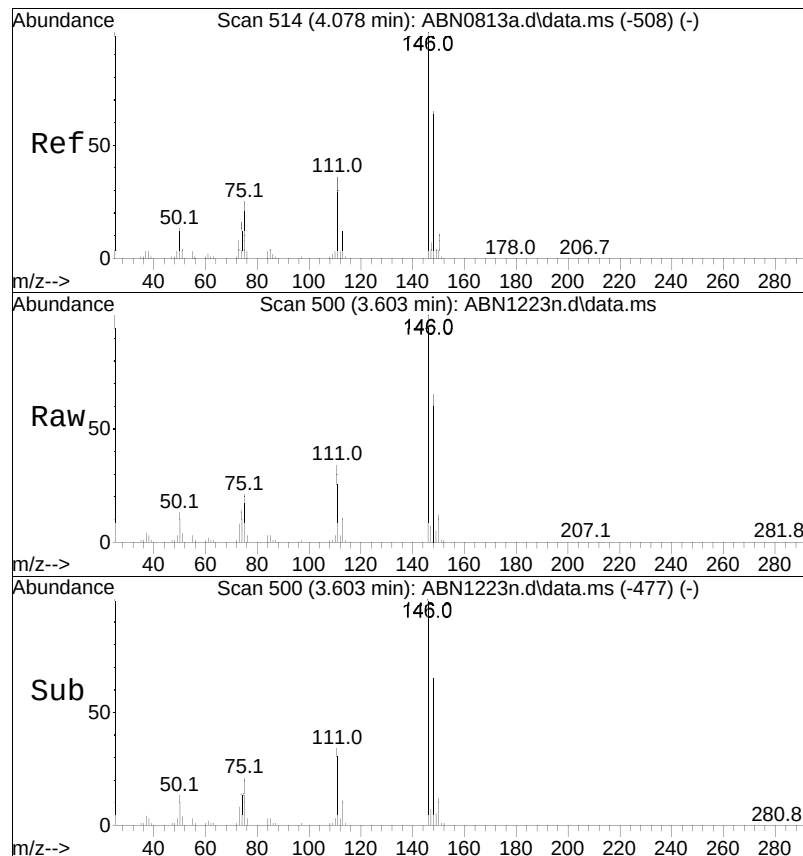




#10  
 1,3-Dichlorobenzene  
 Concen: 49.87 ug/ml  
 RT: 3.534 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

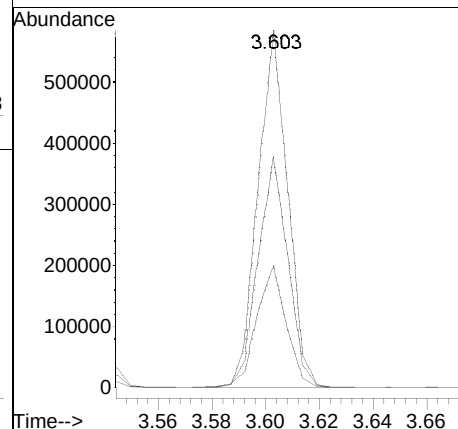
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 437517 |       |       |
| 111     | 35.2  |        | 30.0  | 45.0  |
| 148     | 65.2  |        | 52.6  | 78.8  |

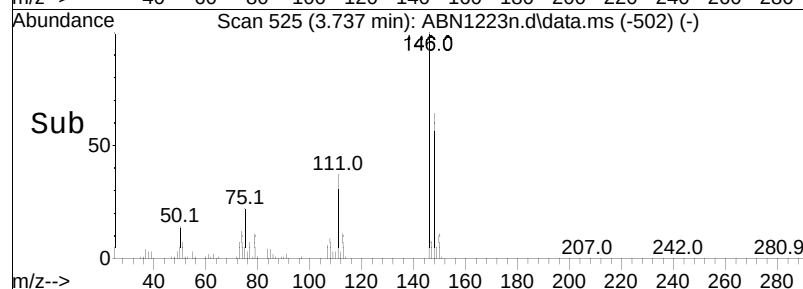
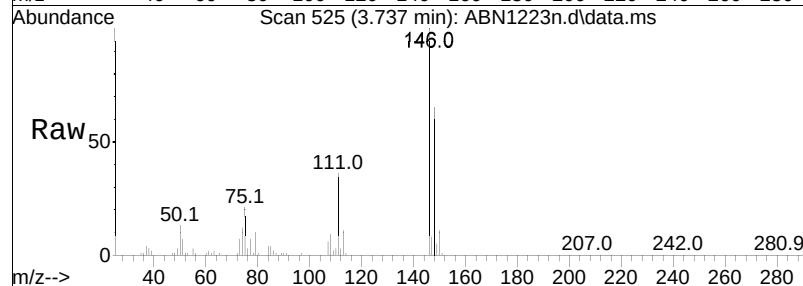
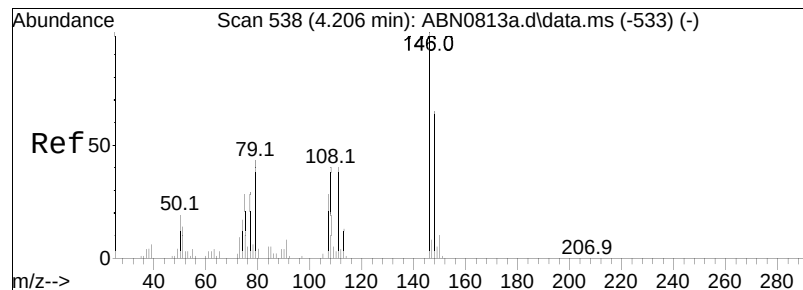




#11  
 1,4-Dichlorobenzene  
 Concen: 50.44 ug/ml  
 RT: 3.603 min Scan# 500  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

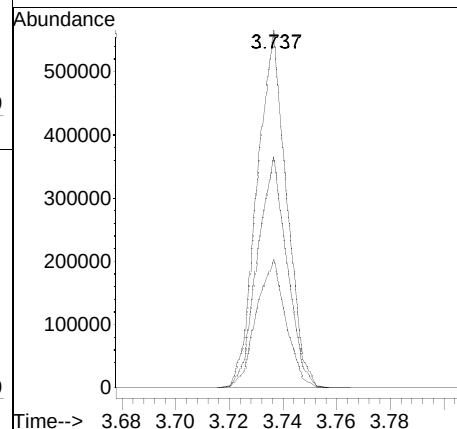
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 443687 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 65.0  | 52.3  | 78.5   |
| 111       | 34.2  | 29.2  | 43.8   |

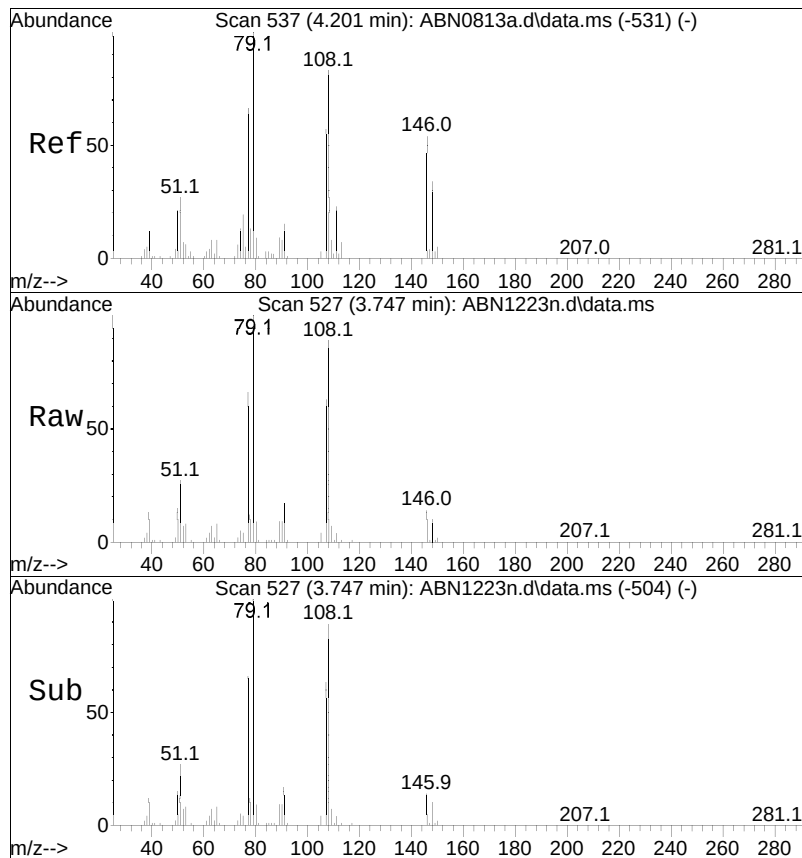




#12  
 1,2-Dichlorobenzene  
 Concen: 51.98 ug/ml  
 RT: 3.737 min Scan# 525  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

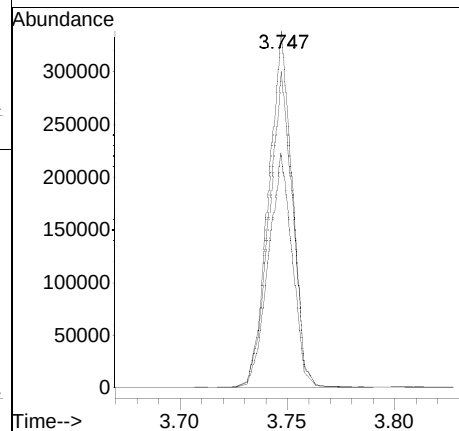
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.1  | 30.3  | 45.5  |
| 148     | 64.8  | 51.8  | 77.8  |

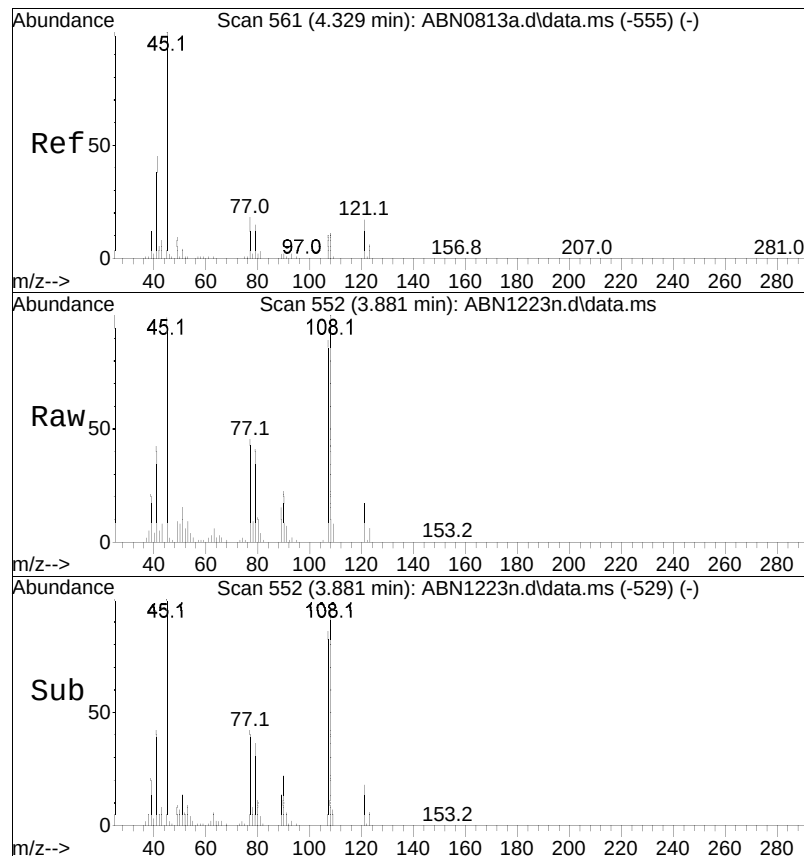




#13  
Benzyl alcohol  
Concen: 49.18 ug/ml  
RT: 3.747 min Scan# 527  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

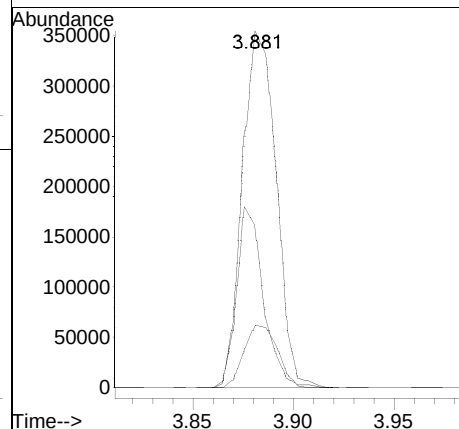
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 77      | 66.5  | 54.6  | 81.8  |
| 108     | 89.1  | 65.1  | 97.7  |



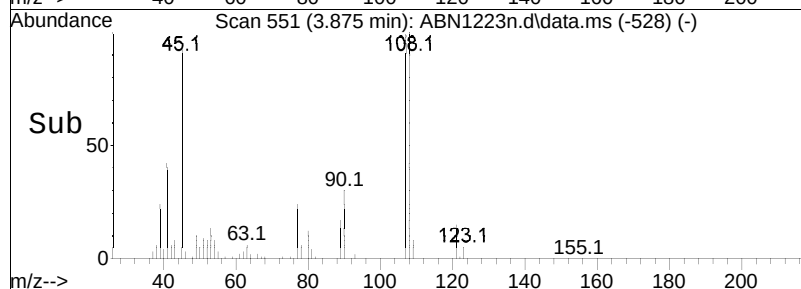
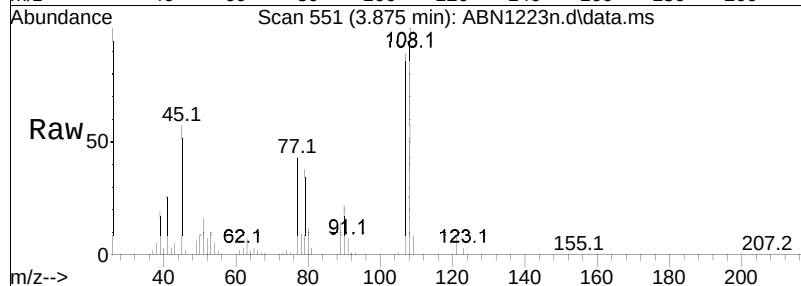
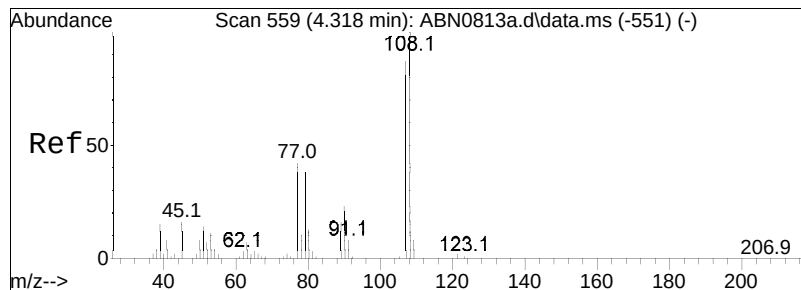


#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 38.76 ug/ml  
 RT: 3.881 min Scan# 552  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 414149 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 121       | 17.7  | 16.0  | 24.0   |
| 77        | 40.6  | 32.1  | 48.1   |

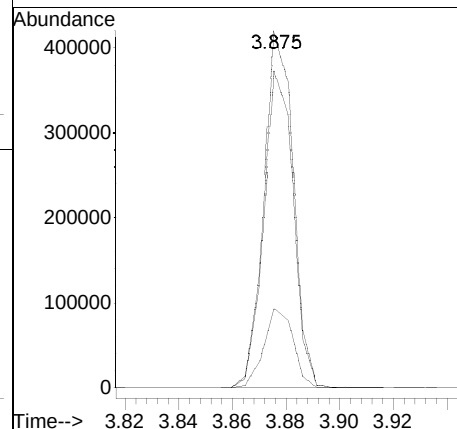


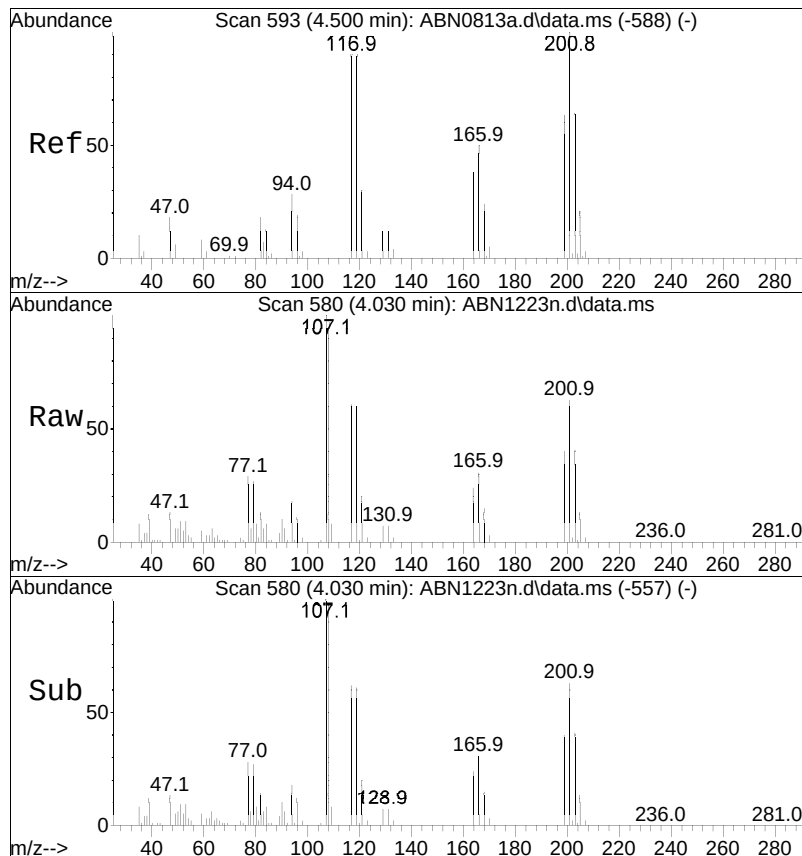




#15  
 2-Methylphenol  
 Concen: 51.76 ug/ml  
 RT: 3.875 min Scan# 551  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

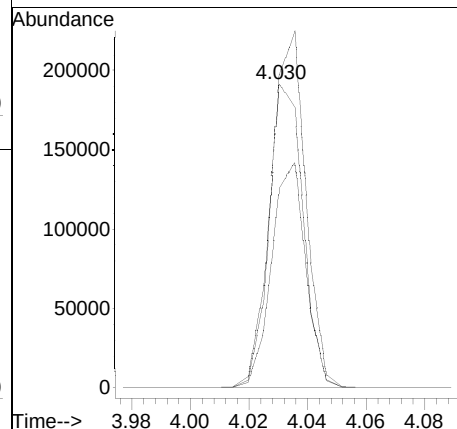
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 89.4  | 70.3  | 105.5 |
| 90      | 22.1  | 18.7  | 28.1  |

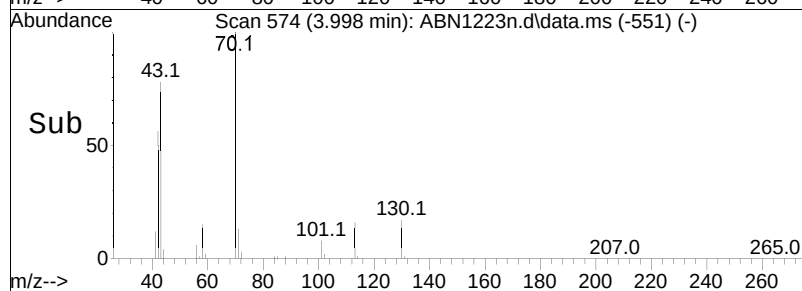
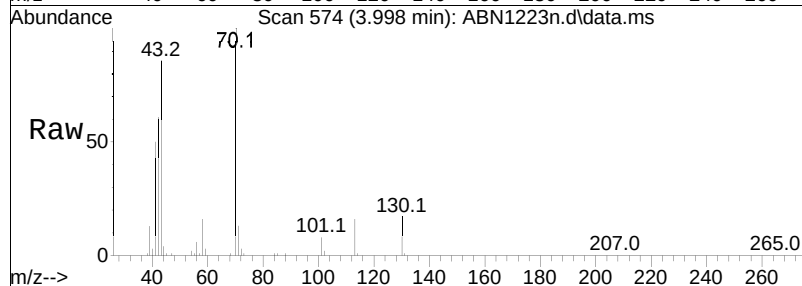
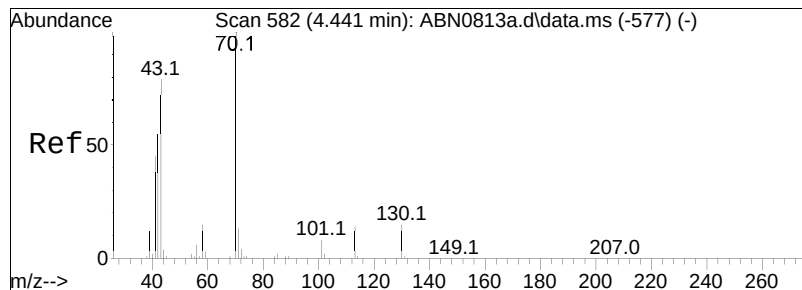




#16  
 Hexachloroethane  
 Concen: 47.51 ug/ml  
 RT: 4.030 min Scan# 580  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

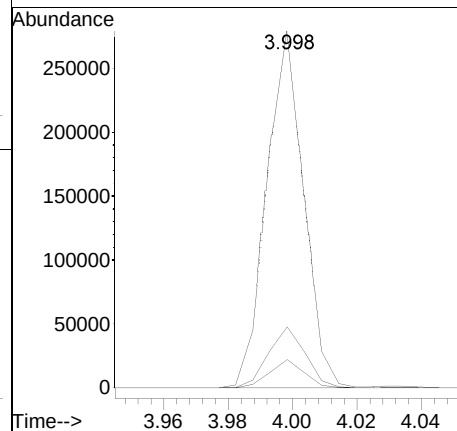
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 157800 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 201       | 115.3 | 73.4  | 110.0# |
| 199       | 73.0  | 45.9  | 68.9#  |

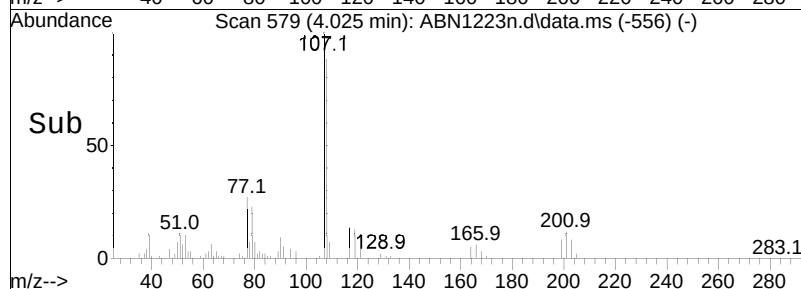
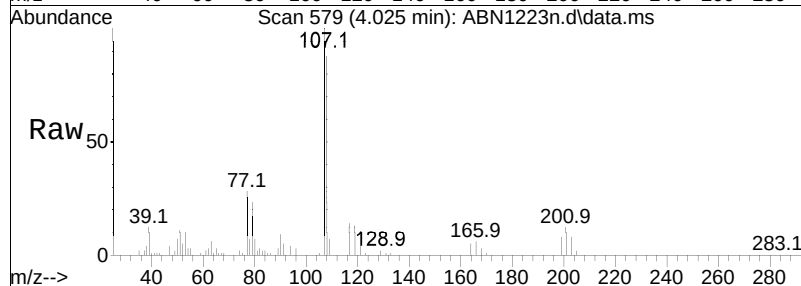
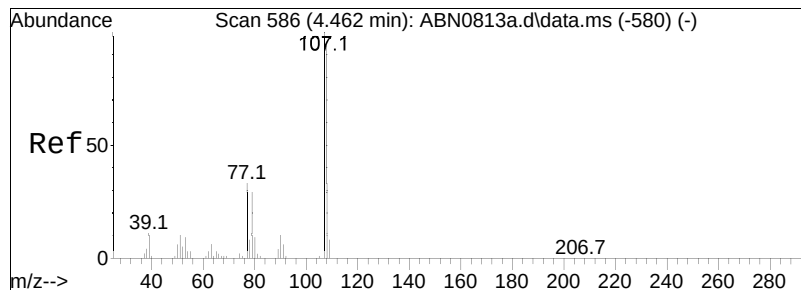




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 46.78 ug/ml  
 RT: 3.998 min Scan# 574  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

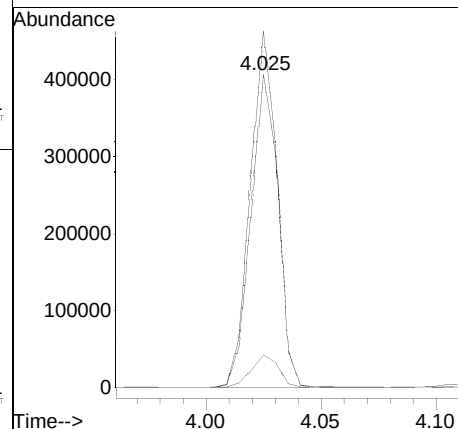
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 130     | 17.0  | 17.1  | 25.7# |
| 101     | 7.4   | 7.0   | 10.4  |

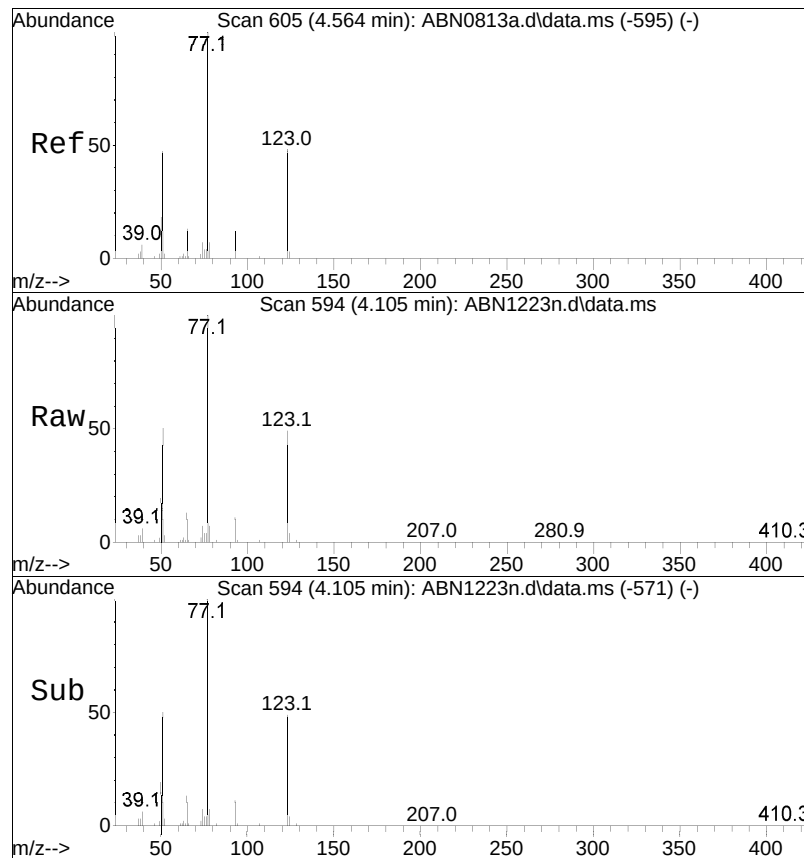




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 50.22 ug/ml  
 RT: 4.025 min Scan# 579  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

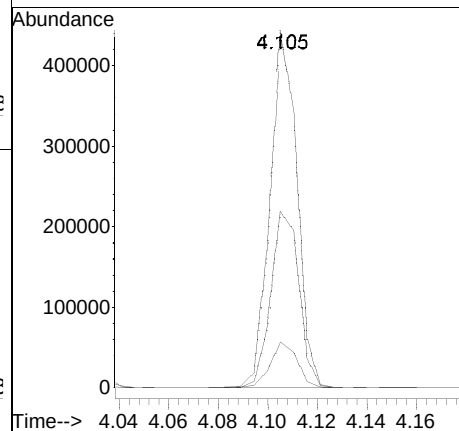
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 112.2 | 88.2  | 132.2 |
| 90      | 10.4  | 8.5   | 12.7  |

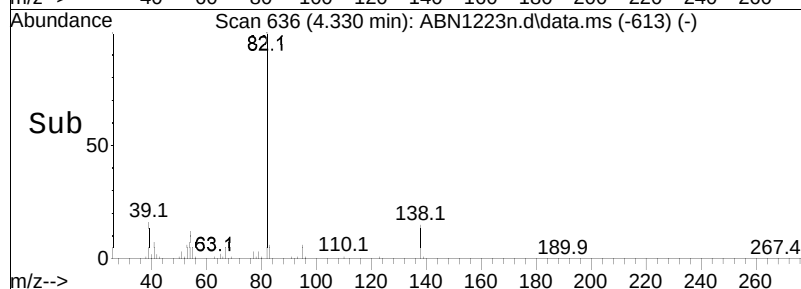
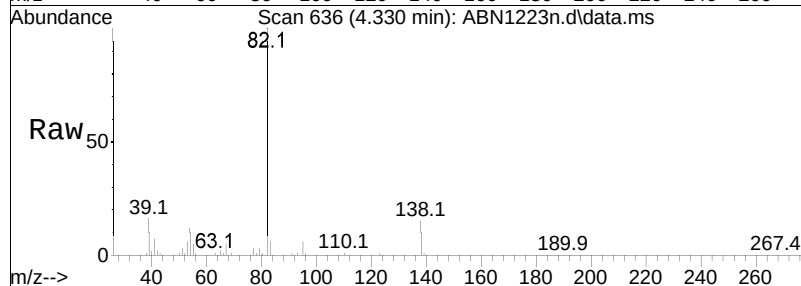
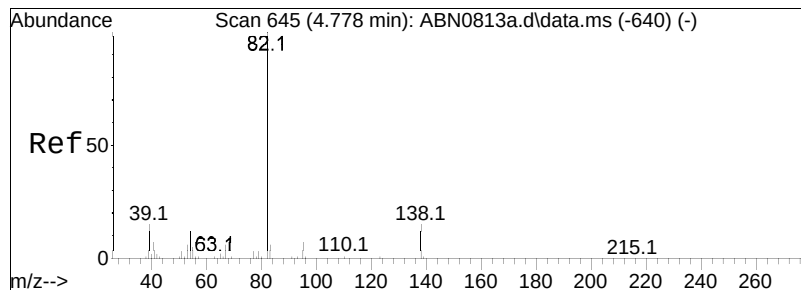




#20  
 Nitrobenzene  
 Concen: 46.66 ug/ml  
 RT: 4.105 min Scan# 594  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 330547 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 51.6  | 39.5  | 59.3   |
| 65        | 12.9  | 11.0  | 16.6   |





#21

Isophorone

Concen: 47.98 ug/ml

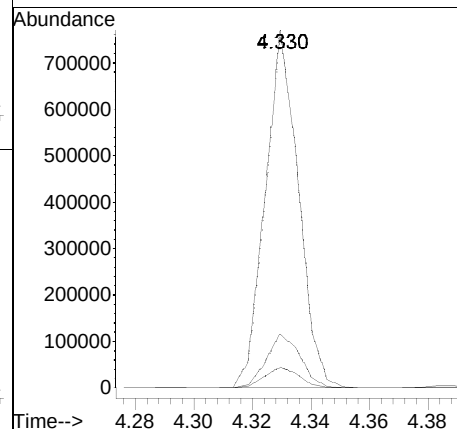
RT: 4.330 min Scan# 636

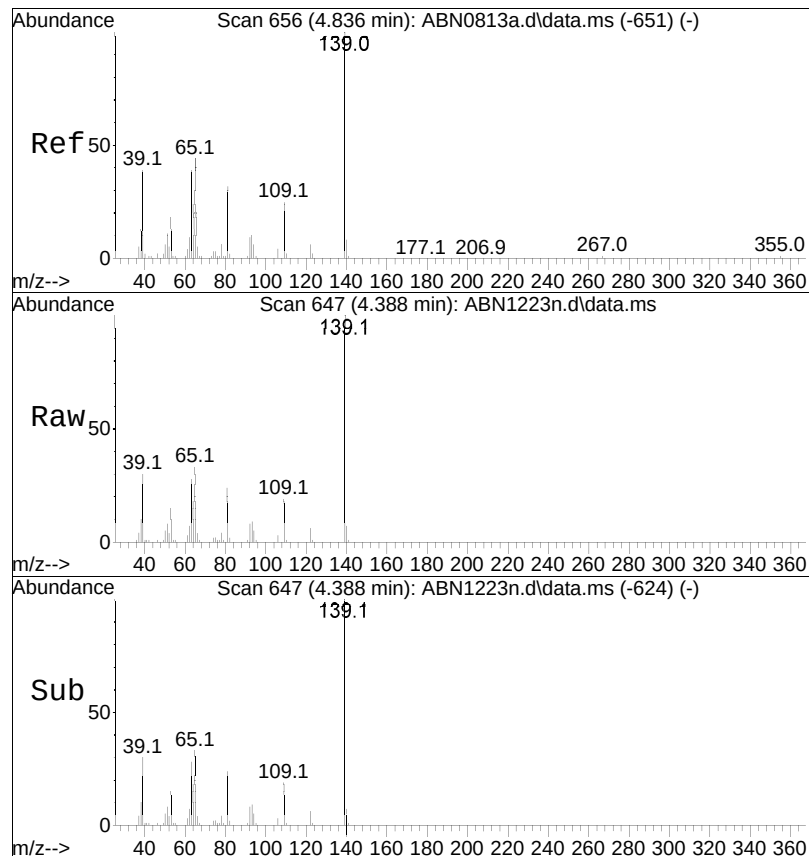
Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

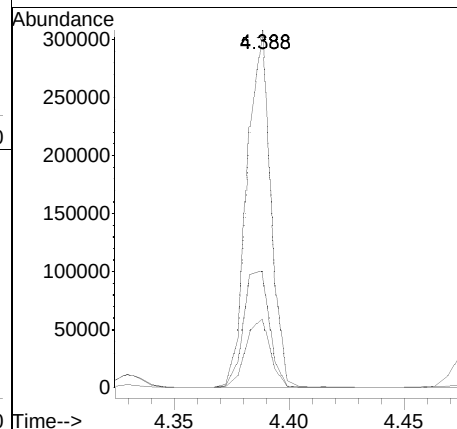
|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 596840 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 138 15.5    | 13.9 20.9    |
| 95 6.1      | 5.1 7.7      |

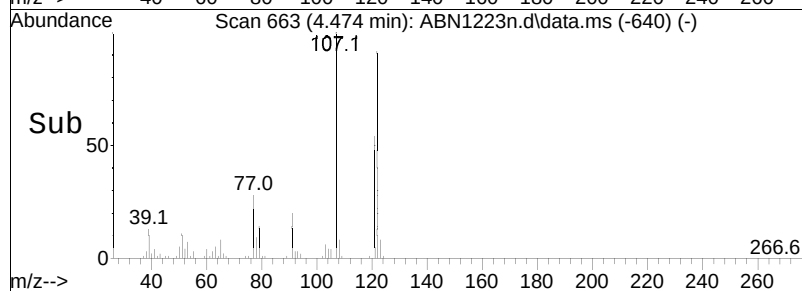
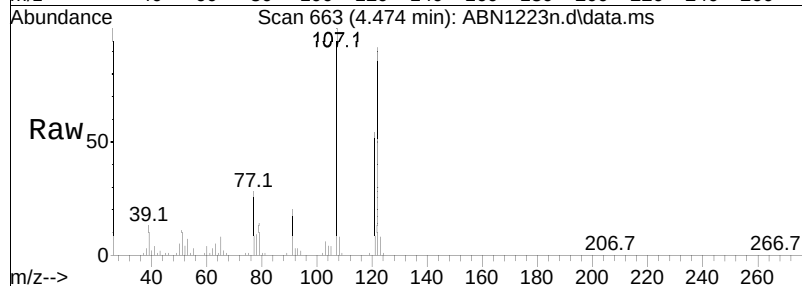
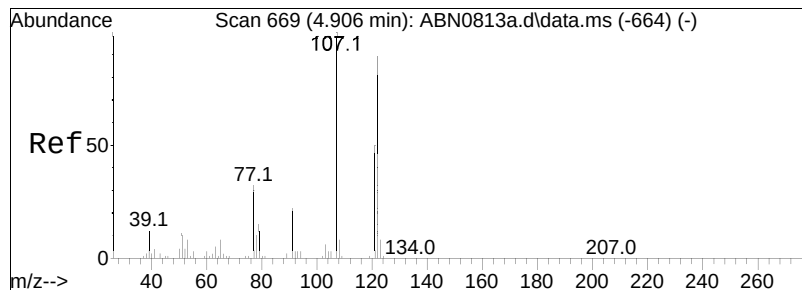




#22  
2-Nitrophenol  
Concen: 58.61 ug/ml  
RT: 4.388 min Scan# 647  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:139 | Resp: | 217848 |
| Ion | Ratio   | Lower | Upper  |
| 139 | 100     |       |        |
| 109 | 20.1    | 17.2  | 25.8   |
| 65  | 36.0    | 33.8  | 50.6   |





#23

2,4-Dimethylphenol

Concen: 38.83 ug/ml

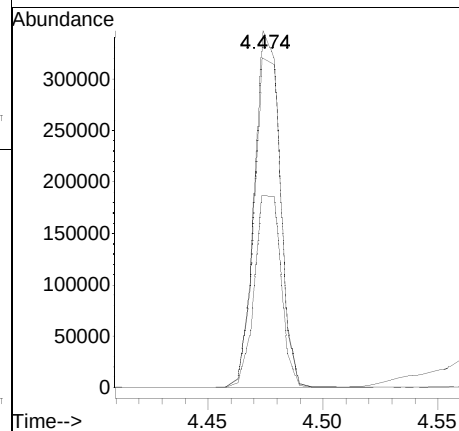
RT: 4.474 min Scan# 663

Delta R.T. 0.000 min

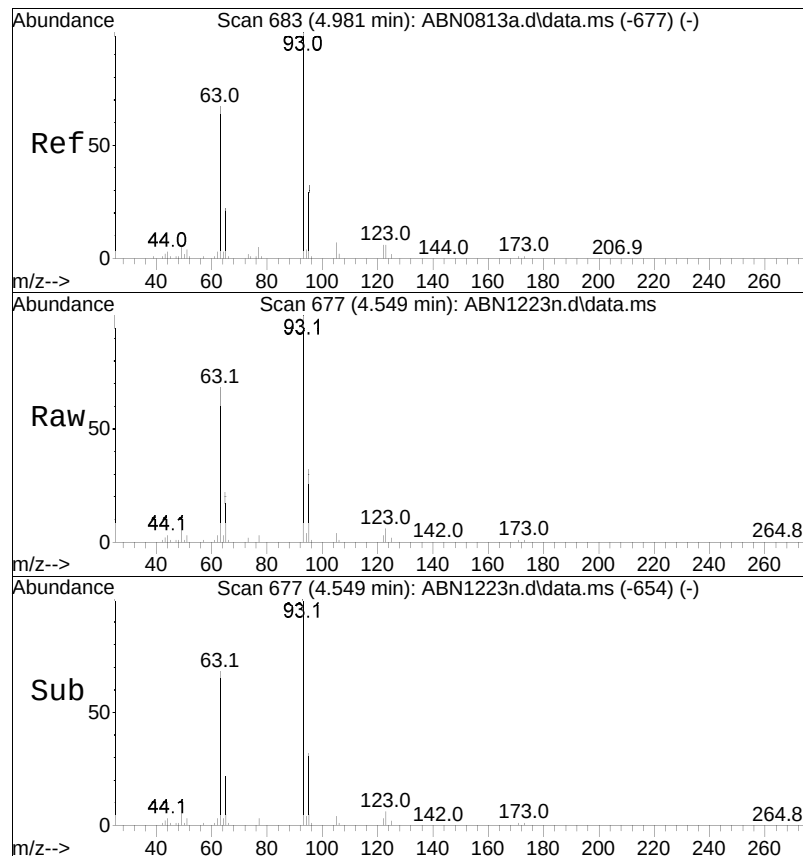
Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 268152 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 55.8  | 41.2  | 61.8   |
| 122       | 95.8  | 72.5  | 108.7  |

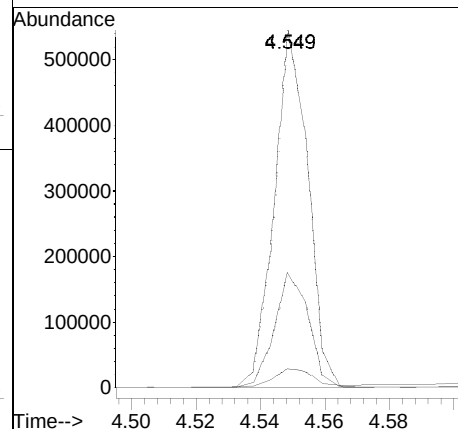


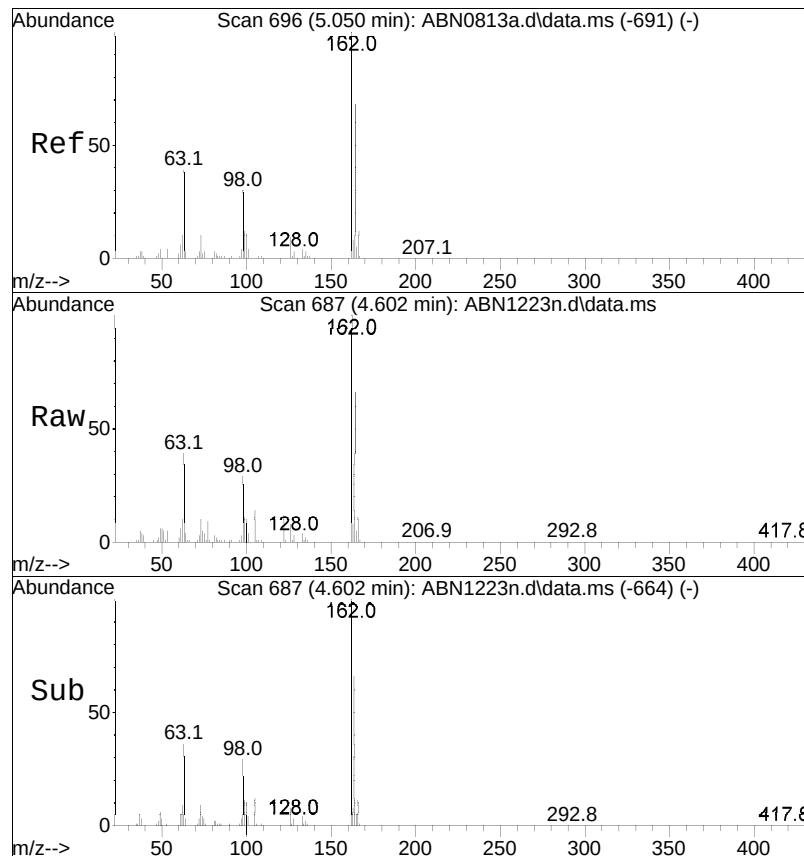




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 45.87 ug/ml  
 RT: 4.549 min Scan# 677  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

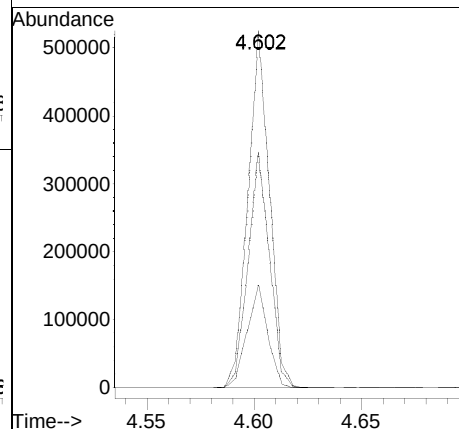
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 390699 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 32.8  | 26.8  | 40.2   |
| 123       | 6.7   | 8.7   | 13.1#  |

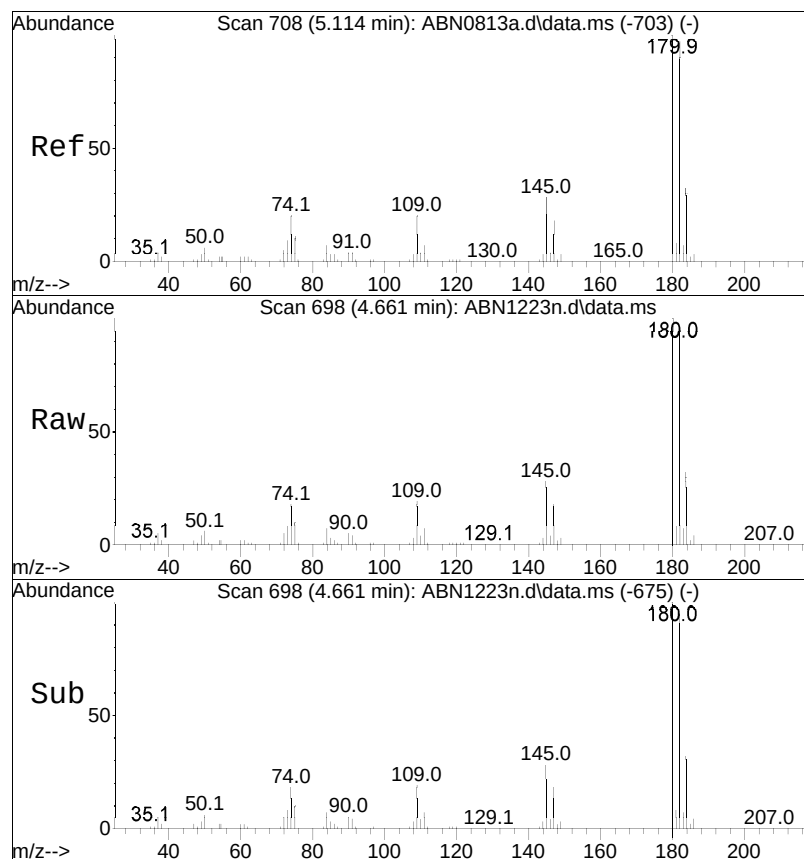




#25  
 2,4-Dichlorophenol  
 Concen: 52.95 ug/ml  
 RT: 4.602 min Scan# 687  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

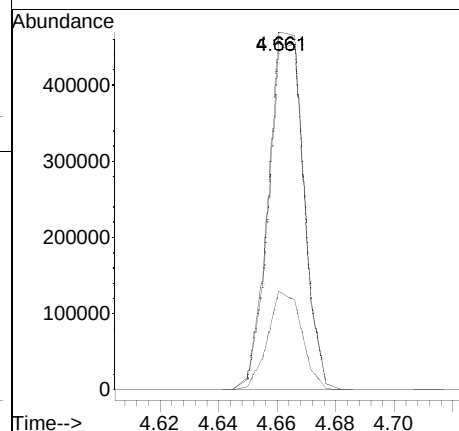
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 363491 |       |       |
| 164     | 66.0  |        | 51.8  | 77.8  |
| 98      | 28.2  |        | 25.0  | 37.4  |

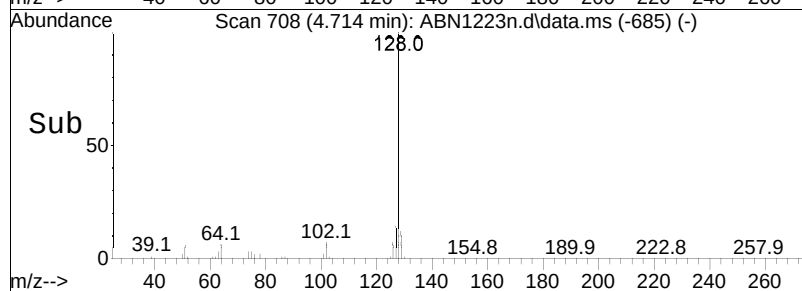
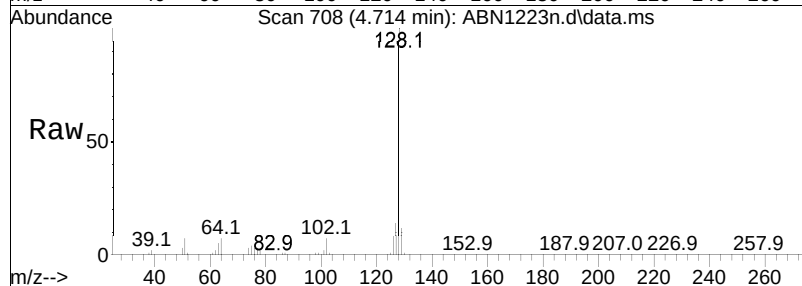
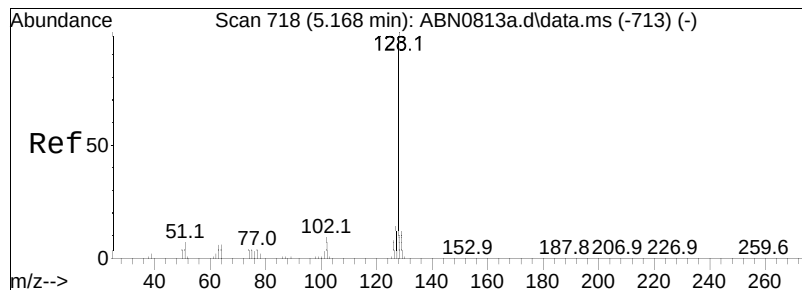




#26  
 1,2,4-Trichlorobenzene  
 Concen: 48.02 ug/ml  
 RT: 4.661 min Scan# 698  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

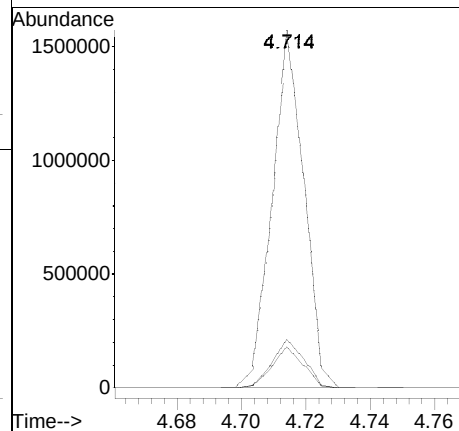
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 393538 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 95.8  | 77.5  | 116.3  |
| 145       | 26.5  | 22.2  | 33.2   |

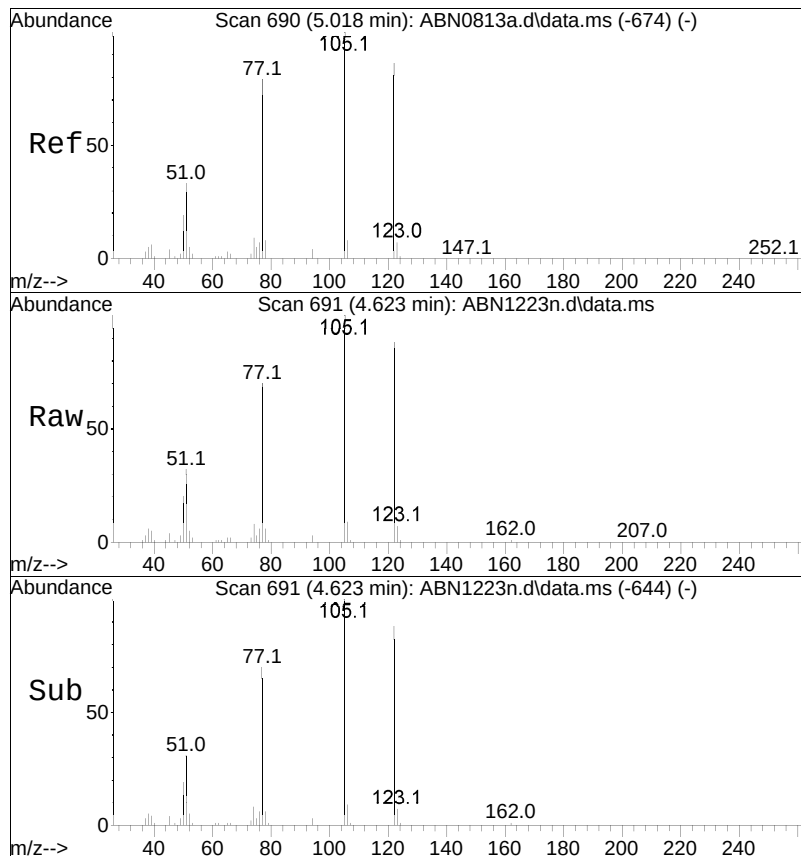




#36  
Naphthalene  
Concen: 49.97 ug/ml  
RT: 4.714 min Scan# 708  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

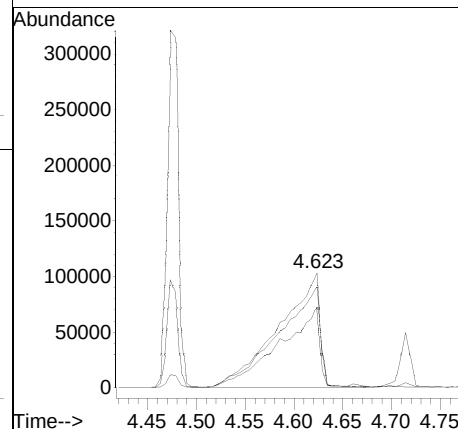
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.5  | 9.0   | 13.6  |
| 127     | 13.8  | 11.3  | 16.9  |

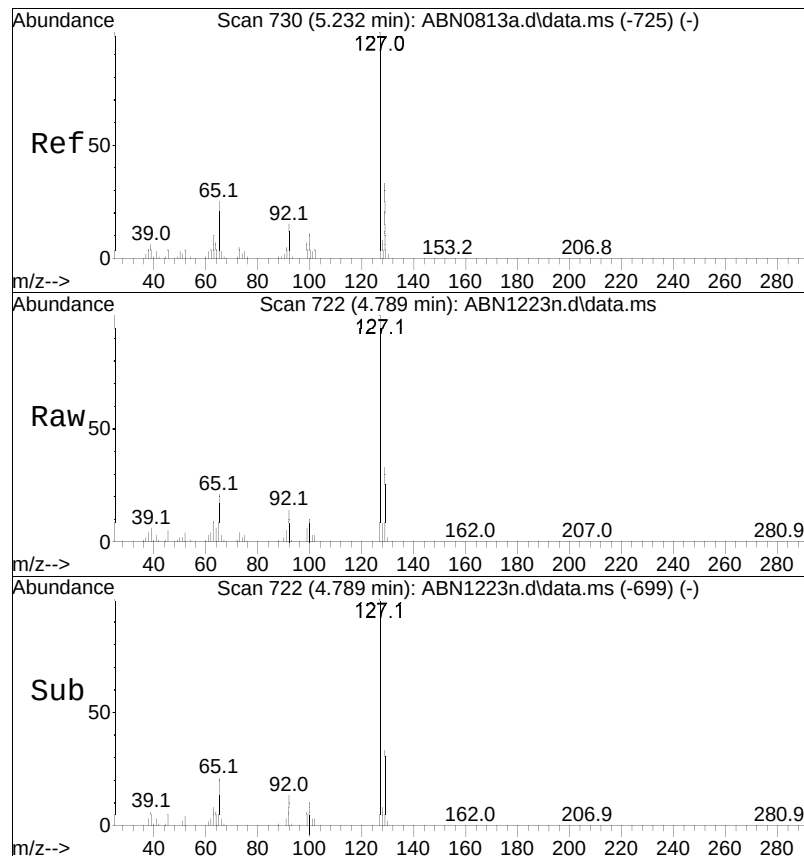




#37  
 Benzoic Acid  
 Concen: 56.16 ug/ml  
 RT: 4.623 min Scan# 691  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

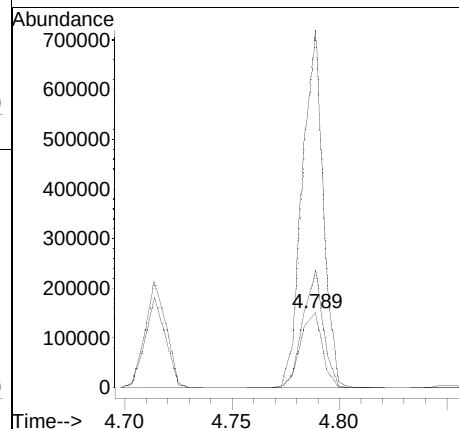
|           |       |        |         |
|-----------|-------|--------|---------|
| Tgt Ion:  | 105   | Resp:  | 300761  |
| Ion Ratio | Lower | Upper  |         |
| 105       | 100   |        |         |
| 122       | 90.1  | 2158.8 | 3238.2# |
| 77        | 69.1  | 747.4  | 1121.0# |

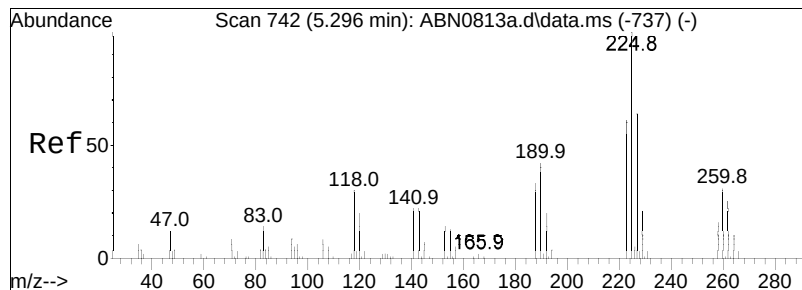




#38  
 4-Chloroaniline  
 Concen: 41.50 ug/ml  
 RT: 4.789 min Scan# 722  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

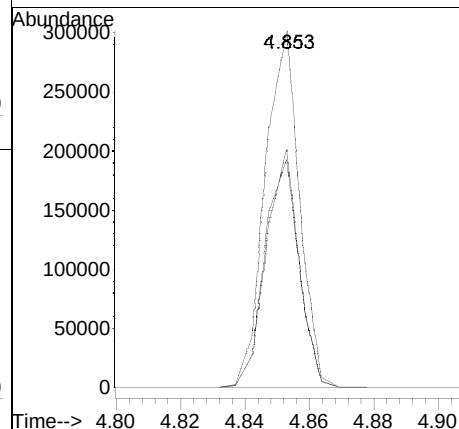
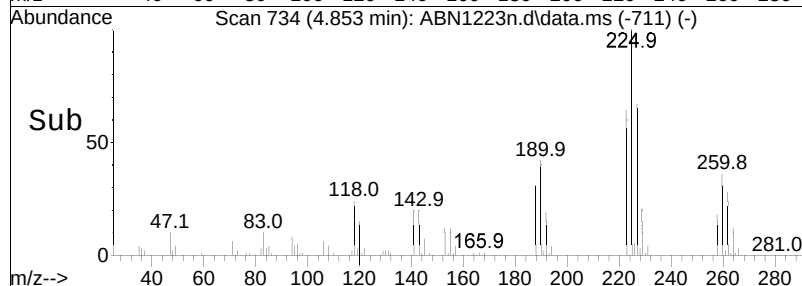
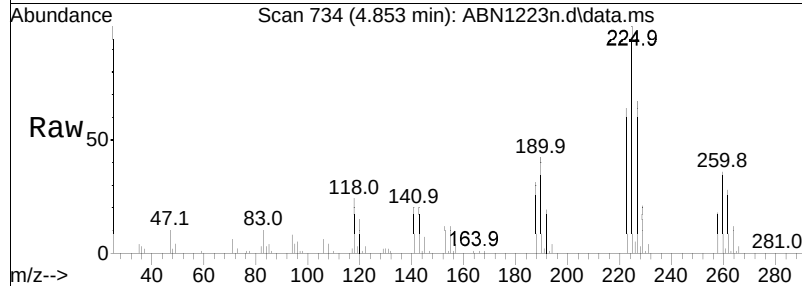
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 108540 |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 127       | 447.3 | 302.2 | 453.2  |
| 129       | 144.7 | 97.8  | 146.8  |

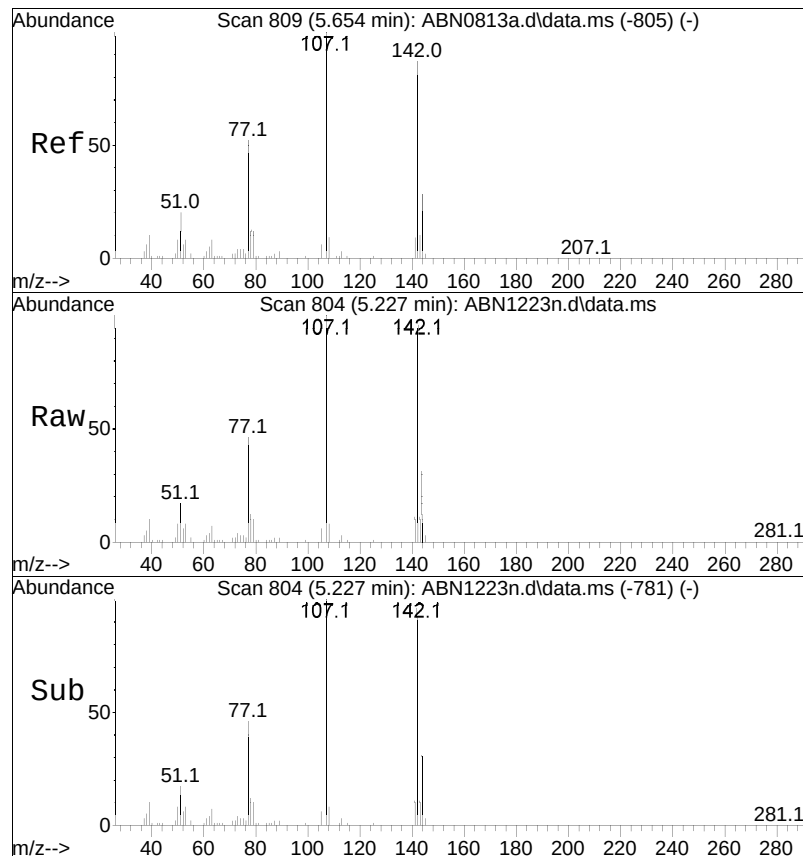




#39  
Hexachlorobutadiene  
Concen: 48.11 ug/ml  
RT: 4.853 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

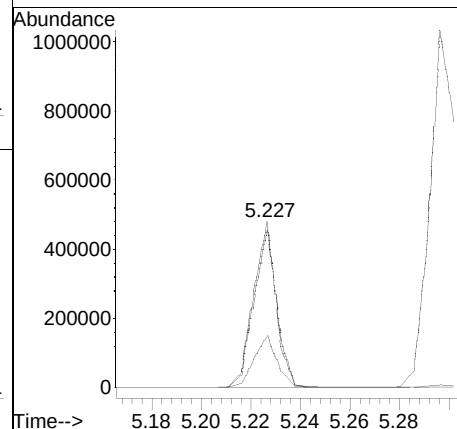
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.0  | 50.0  | 75.0  |
| 227     | 64.1  | 51.8  | 77.6  |



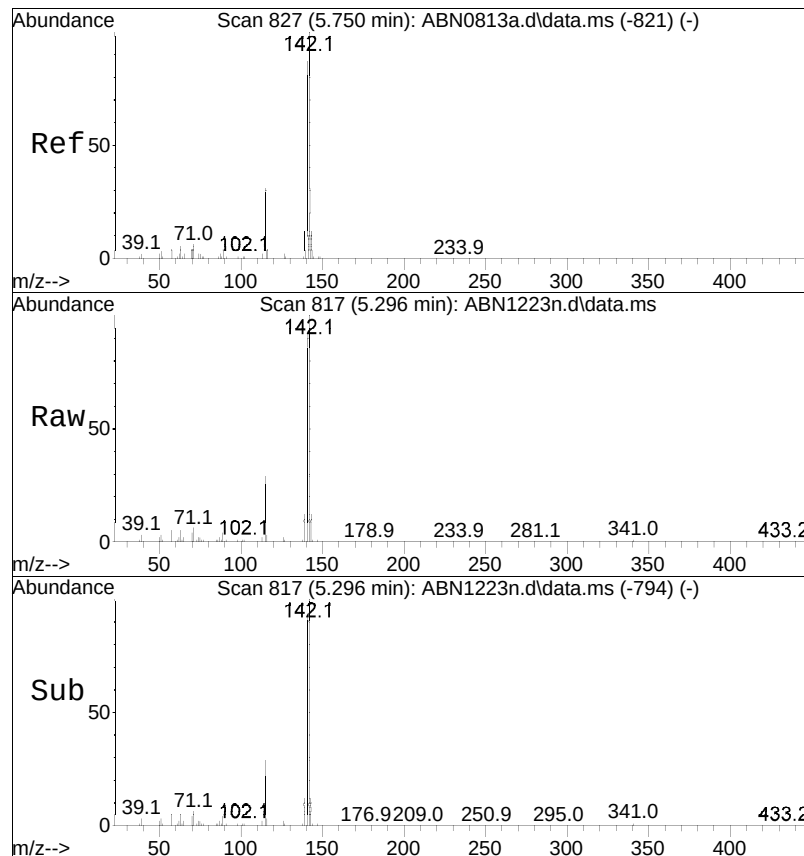


#40  
 p-Chloro-m-cresol  
 Concen: 51.33 ug/ml  
 RT: 5.227 min Scan# 804  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 302337 |       |       |
| 144     | 31.7  |        | 23.3  | 34.9  |
| 142     | 96.8  |        | 72.7  | 109.1 |

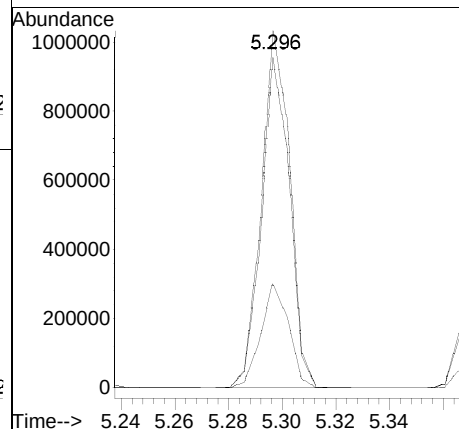


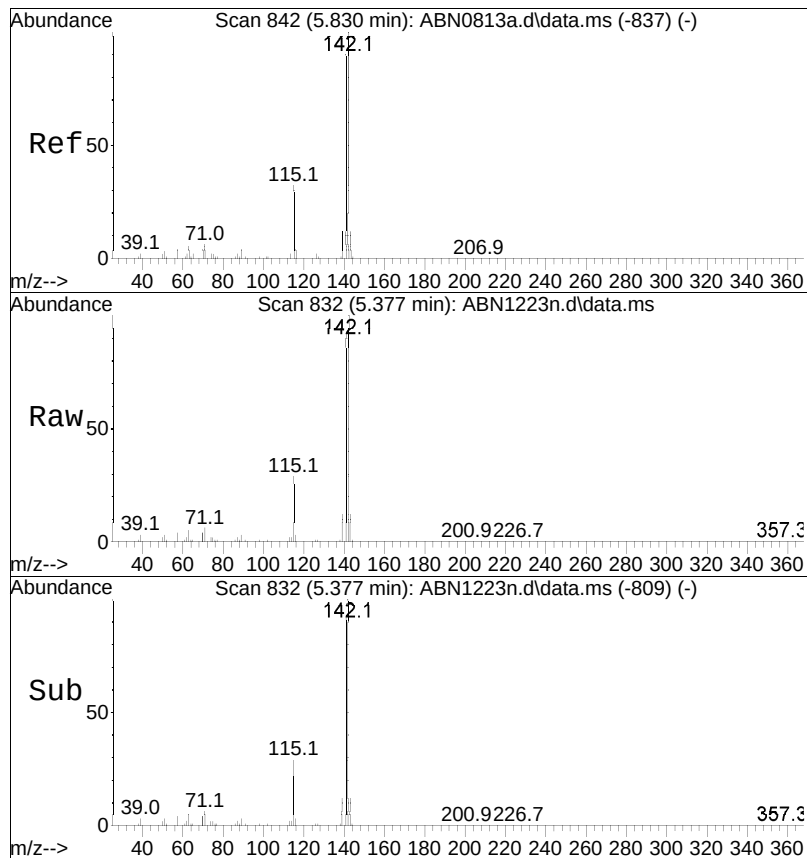




#41  
 2-Methylnaphthalene  
 Concen: 49.21 ug/ml  
 RT: 5.296 min Scan# 817  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

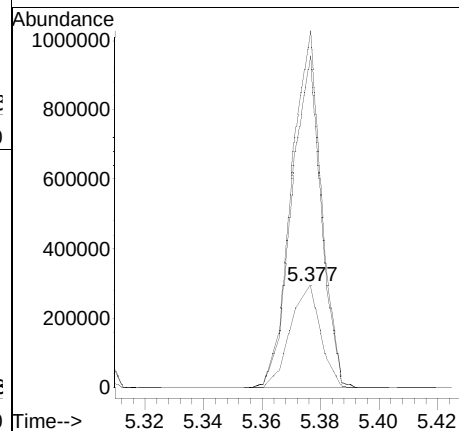
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 761564 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 90.6  | 69.5  | 104.3  |
| 115       | 28.6  | 25.4  | 38.2   |

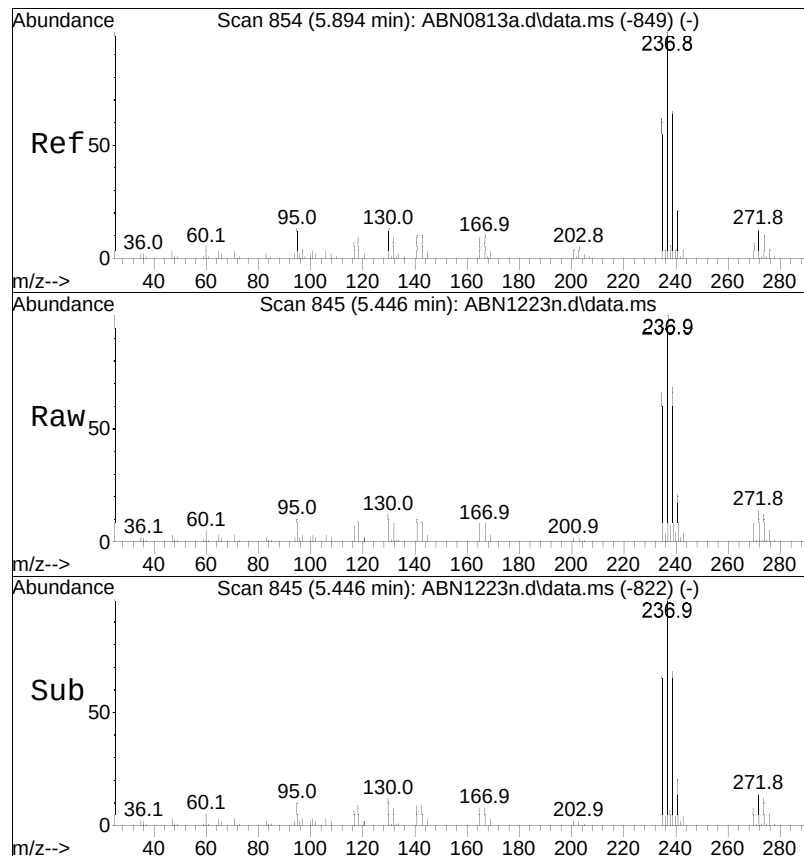




#42  
 1-Methylnaphthalene  
 Concen: 41.81 ug/ml  
 RT: 5.377 min Scan# 832  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

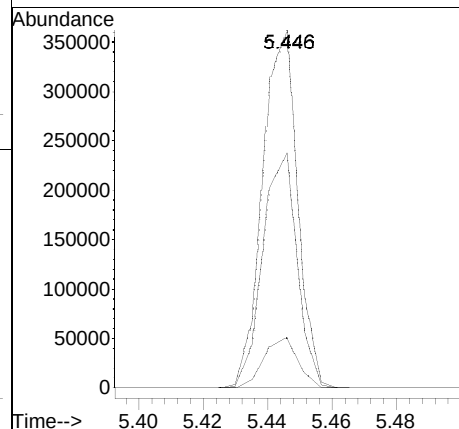
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 115     | 100   |       |       |
| 141     | 313.6 | 218.1 | 327.1 |
| 142     | 342.0 | 245.3 | 367.9 |

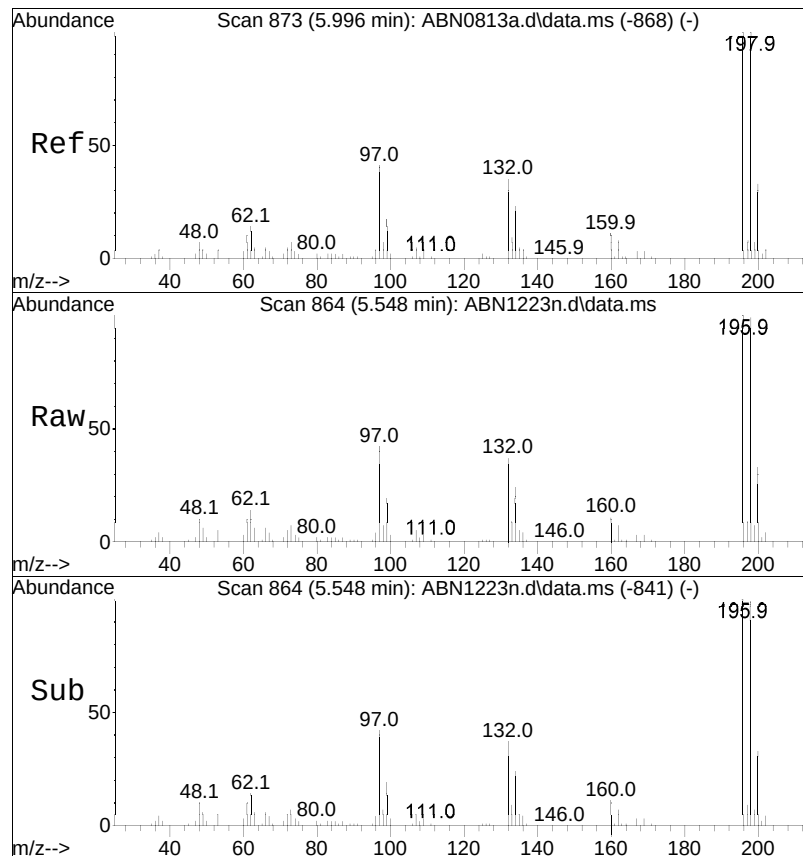




#43  
 Hexachlorocyclopentadiene  
 Concen: 46.64 ug/ml  
 RT: 5.446 min Scan# 845  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

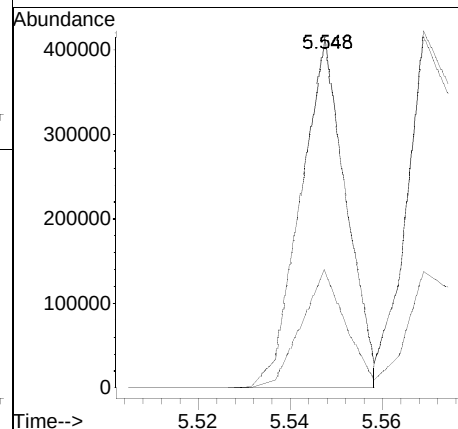
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 237     | 100   | 270198 |       |       |
| 235     | 64.9  |        | 49.9  | 74.9  |
| 272     | 13.9  |        | 11.4  | 17.2  |

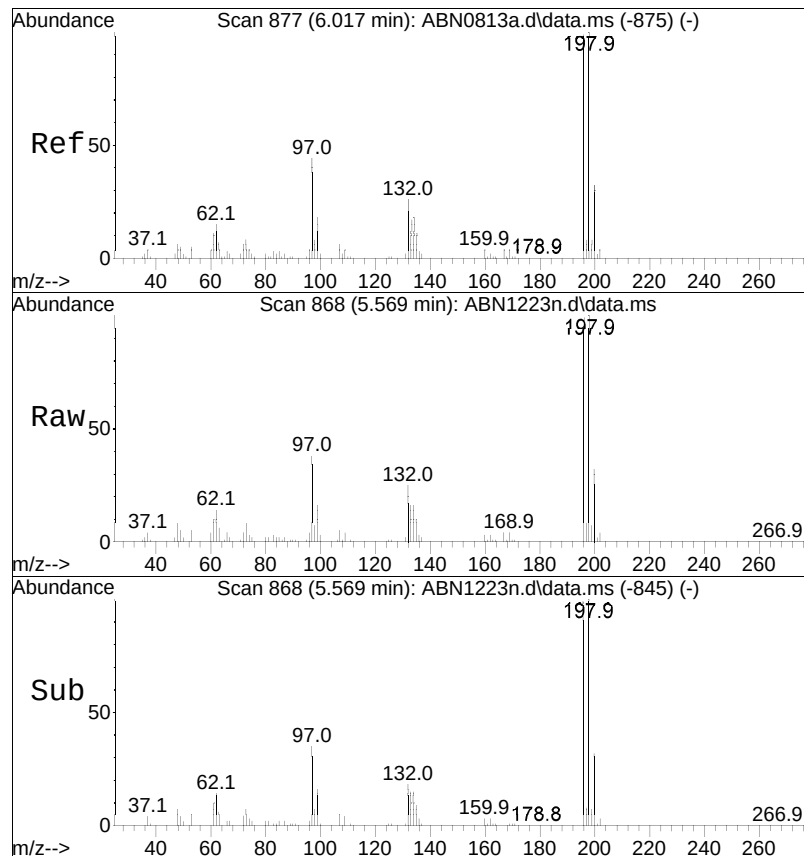




#44  
 2,4,6-Trichlorophenol  
 Concen: 55.06 ug/ml  
 RT: 5.548 min Scan# 864  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

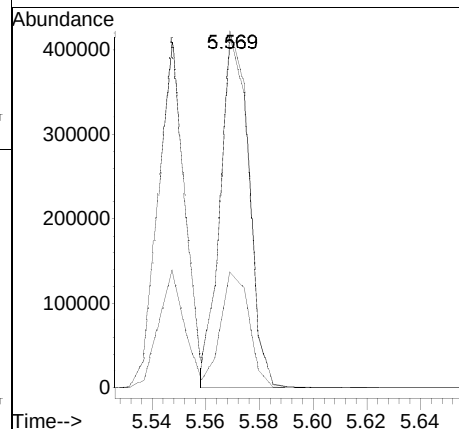
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 287264 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 99.4  | 77.0  | 115.6  |
| 200       | 32.8  | 25.0  | 37.6   |

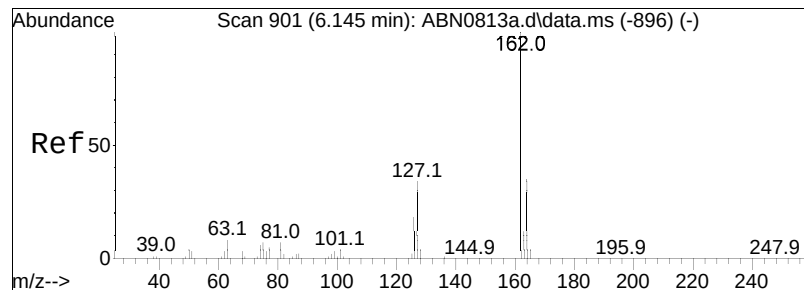




#45  
 2,4,5-Trichlorophenol  
 Concen: 55.31 ug/ml  
 RT: 5.569 min Scan# 868  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 305828 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 33.0  | 24.9  | 37.3   |
| 198       | 102.5 | 78.5  | 117.7  |





#47

2-Chloronaphthalene

Concen: 48.05 ug/ml

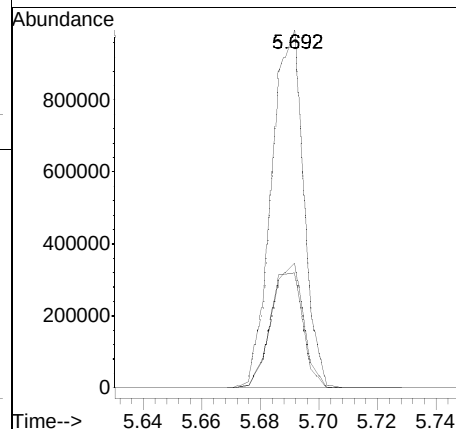
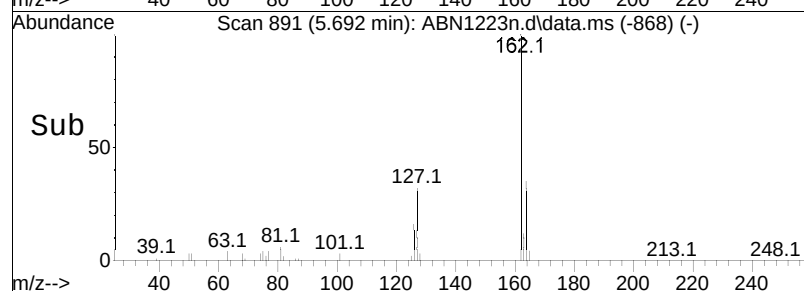
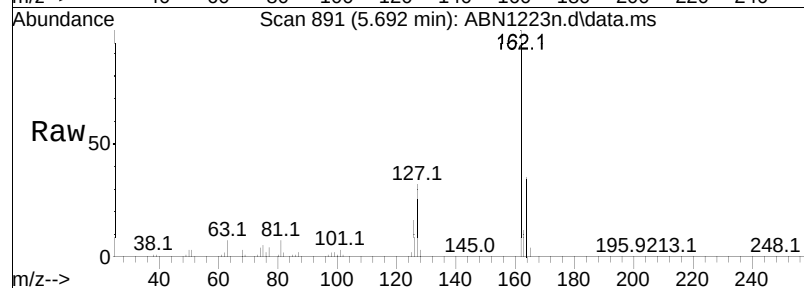
RT: 5.692 min Scan# 891

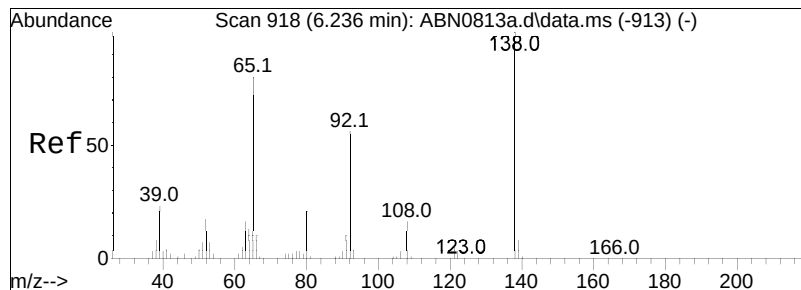
Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

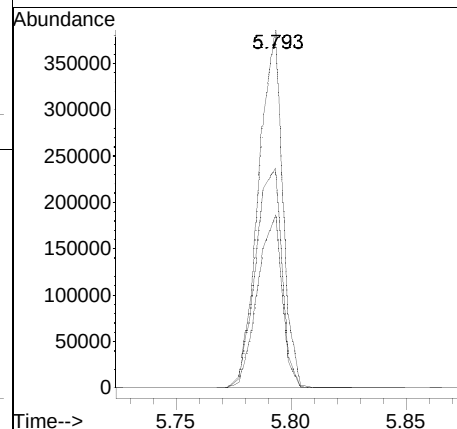
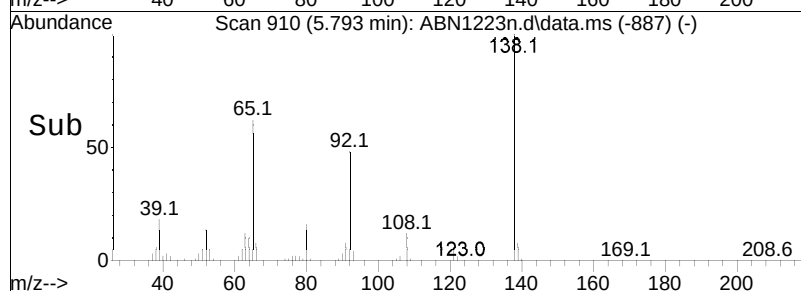
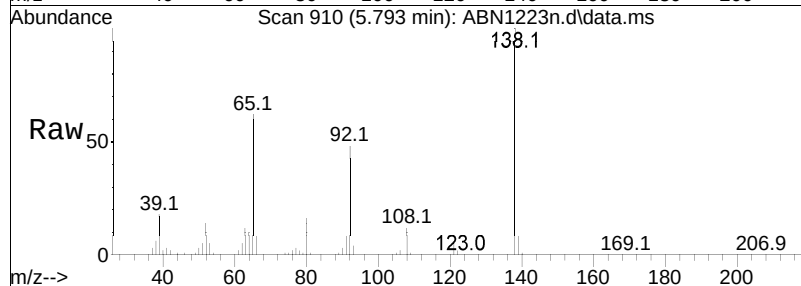
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 751813 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 33.2  | 28.0  | 42.0   |
| 164       | 34.4  | 26.6  | 39.8   |

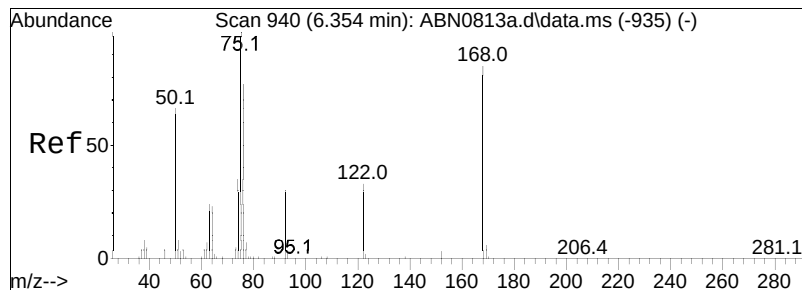




#48  
 2-Nitroaniline  
 Concen: 59.42 ug/ml  
 RT: 5.793 min Scan# 910  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:138 | Resp: | 277264 |
| Ion | Ratio   | Lower | Upper  |
| 138 | 100     |       |        |
| 92  | 49.5    | 41.7  | 62.5   |
| 65  | 67.3    | 61.5  | 92.3   |





#49

1,4-Dinitrobenzene

Concen: 59.76 ug/ml

RT: 5.911 min Scan# 932

Delta R.T. 0.000 min

Lab File: ABN1223n.d

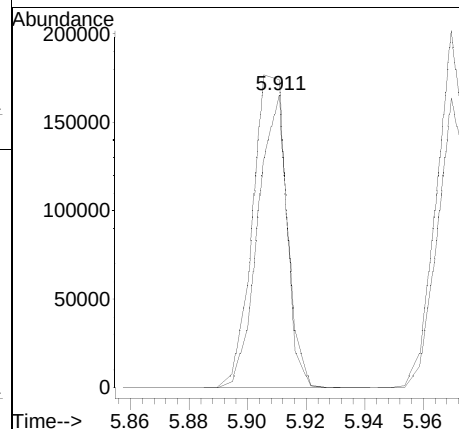
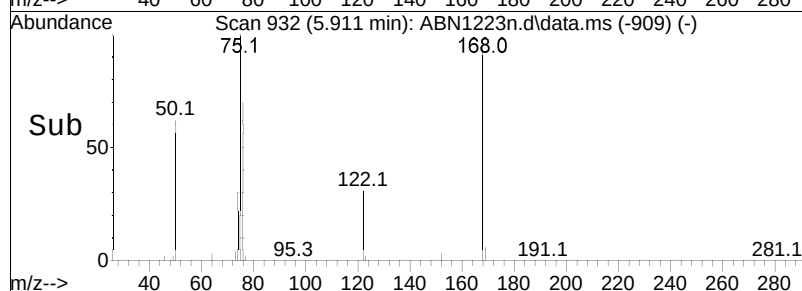
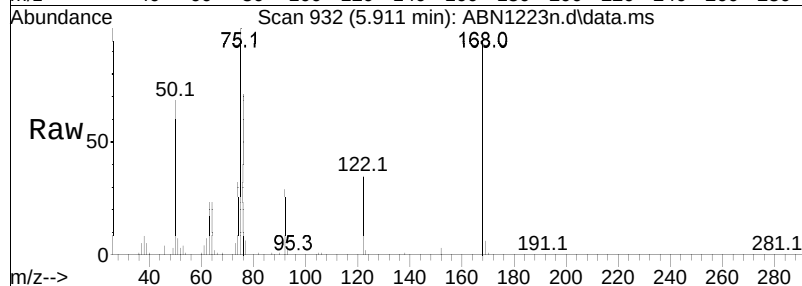
Acq: 24 Dec 2019 12:38 am

Tgt Ion:168 Resp: 116793

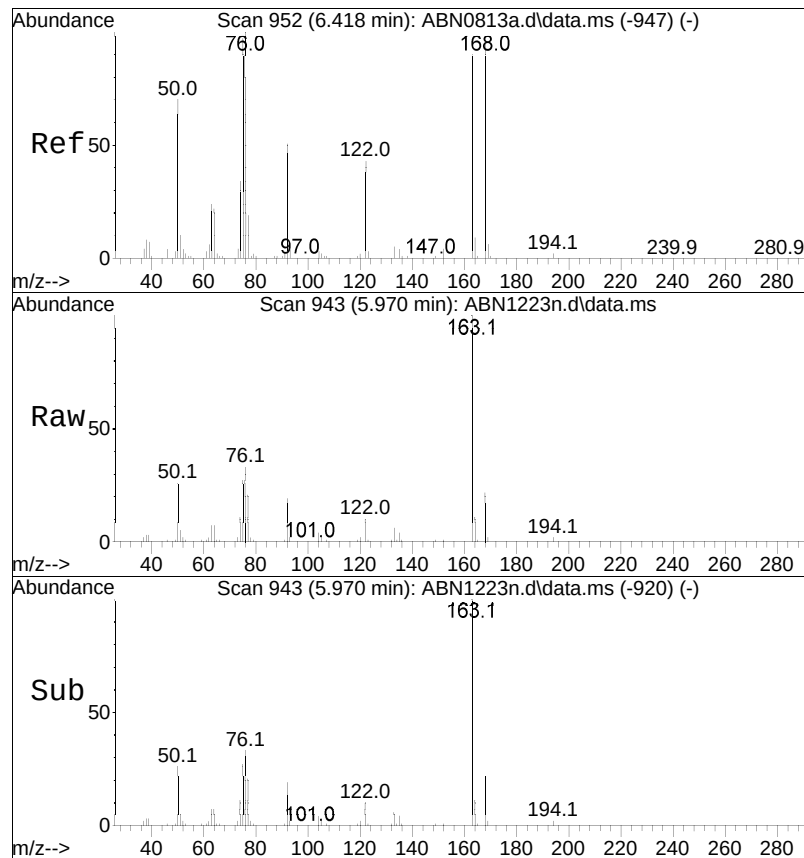
Ion Ratio Lower Upper

168 100

75 120.8 102.0 153.0

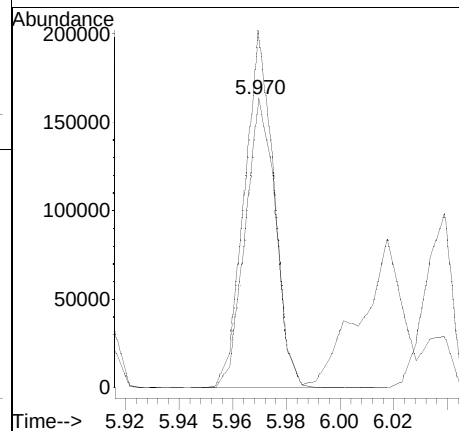


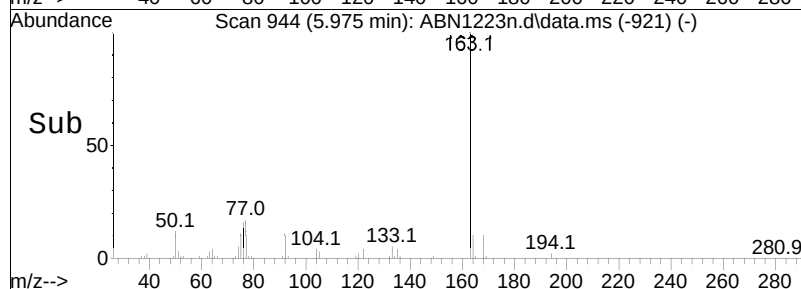
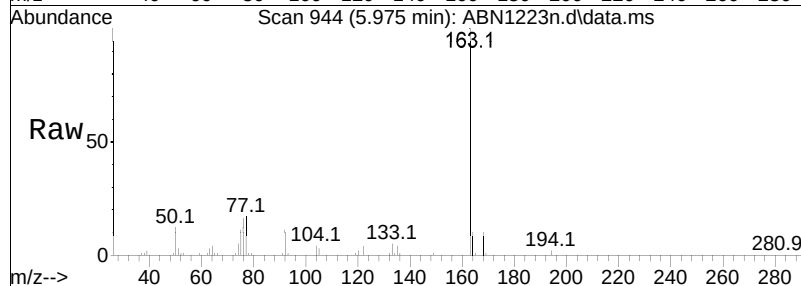
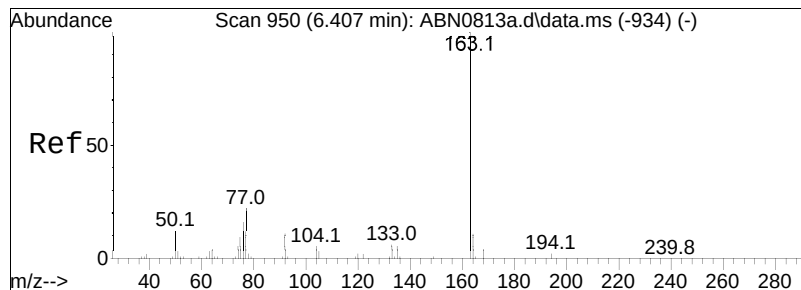




#50  
 1,3-Dinitrobenzene  
 Concen: 58.79 ug/ml  
 RT: 5.970 min Scan# 943  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

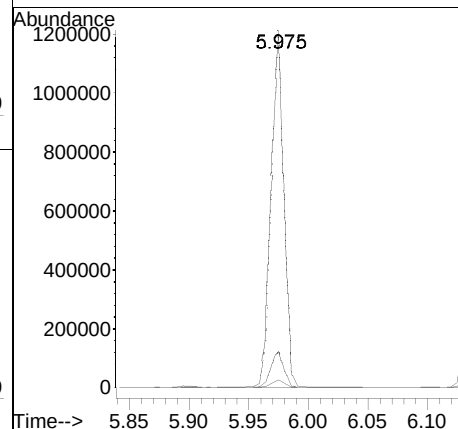
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 75      | 119.0 | 107.1 | 160.7 |

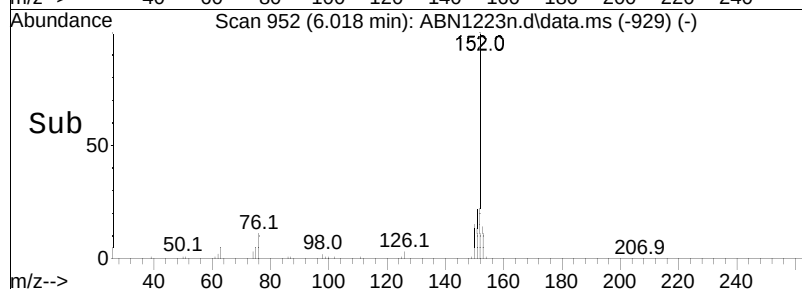
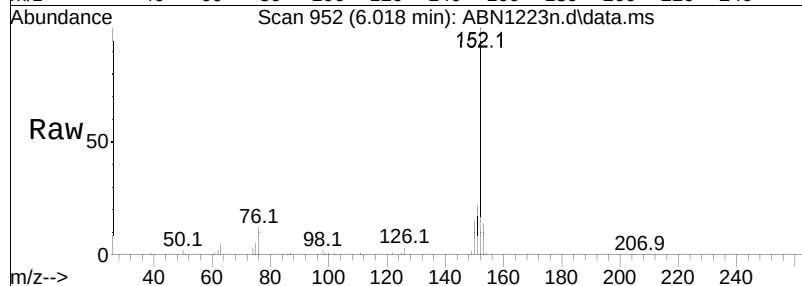
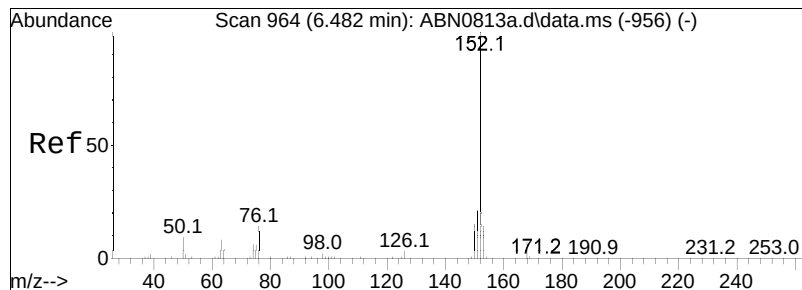




#51  
 Dimethyl phthalate  
 Concen: 49.76 ug/ml  
 RT: 5.975 min Scan# 944  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 879172 |       |       |
| 194     | 2.0   |        | 3.4   | 5.2#  |
| 164     | 10.5  |        | 8.4   | 12.6  |





#52

Acenaphthylene

Concen: 49.35 ug/ml

RT: 6.018 min Scan# 952

Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

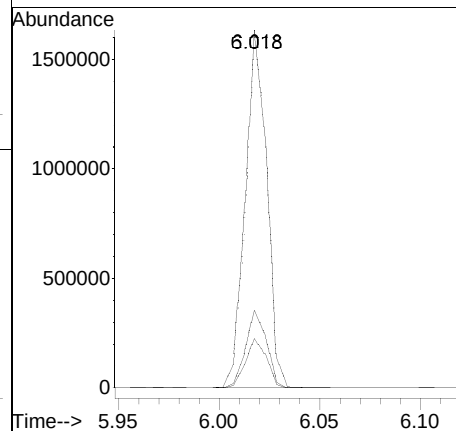
Tgt Ion:152 Resp: 1189721

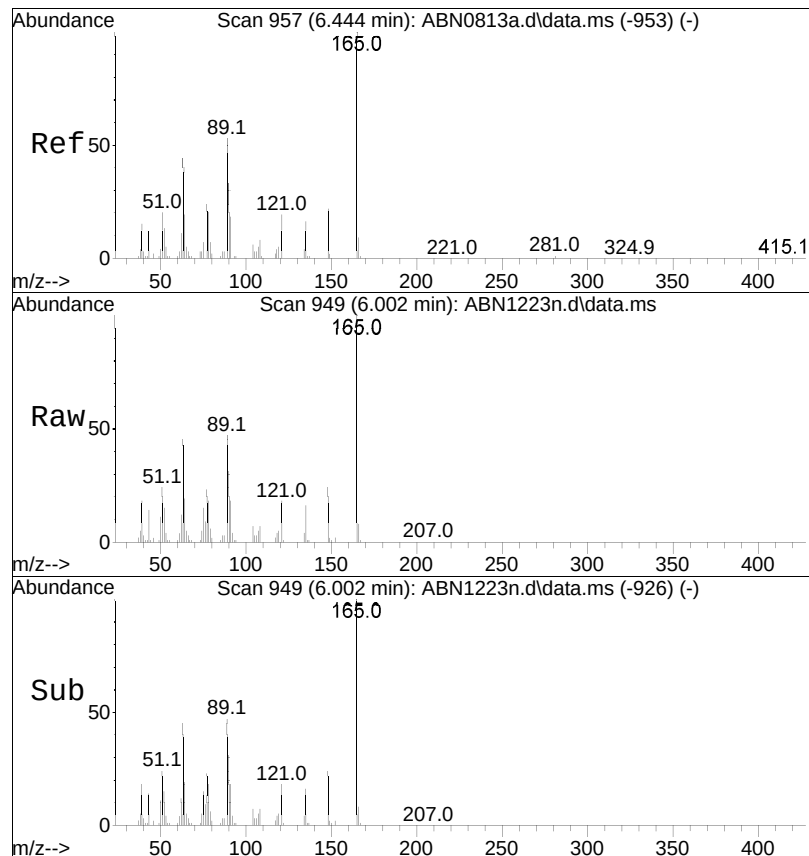
Ion Ratio Lower Upper

152 100

151 21.5 16.7 25.1

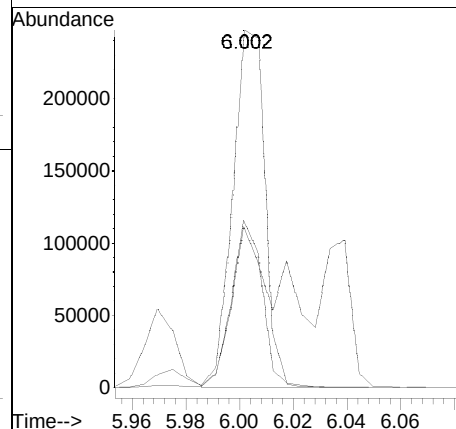
153 13.9 11.1 16.7

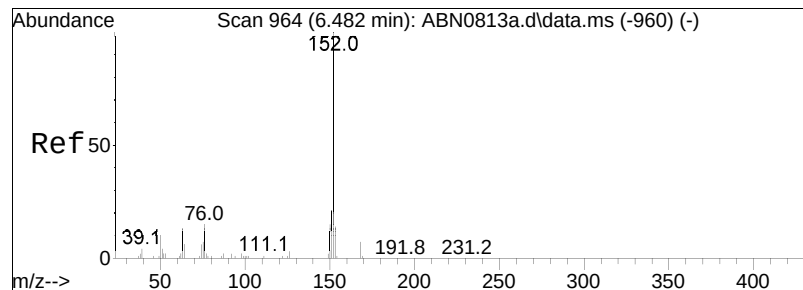




#53  
 2,6-Dinitrotoluene  
 Concen: 56.11 ug/ml  
 RT: 6.002 min Scan# 949  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 204895 |       |       |
| 89      | 45.1  |        | 43.1  | 64.7  |
| 63      | 76.9  |        | 42.7  | 64.1# |





#54

1,2-Dinitrobenzene

Concen: 53.06 ug/ml

RT: 6.039 min Scan# 956

Delta R.T. 0.000 min

Lab File: ABN1223n.d

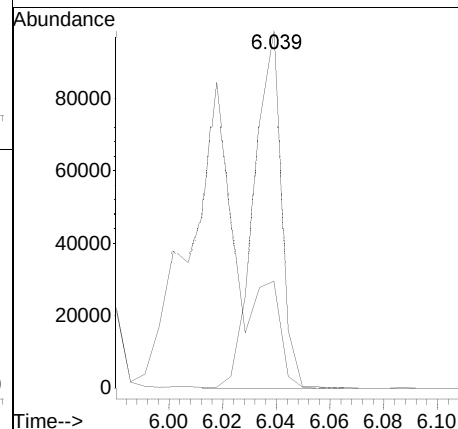
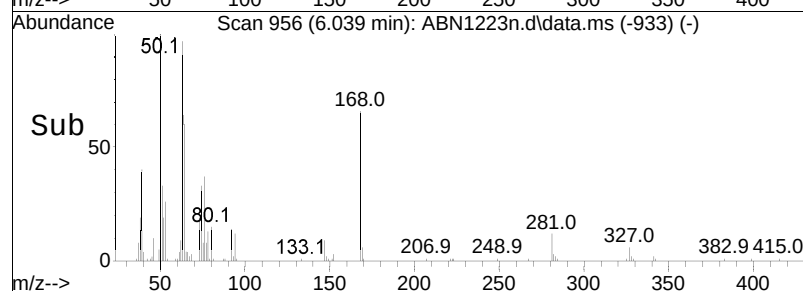
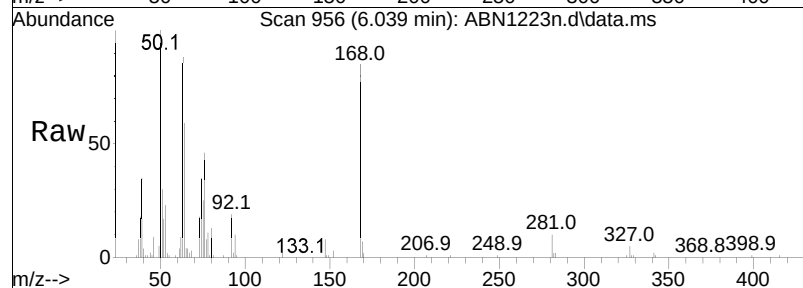
Acq: 24 Dec 2019 12:38 am

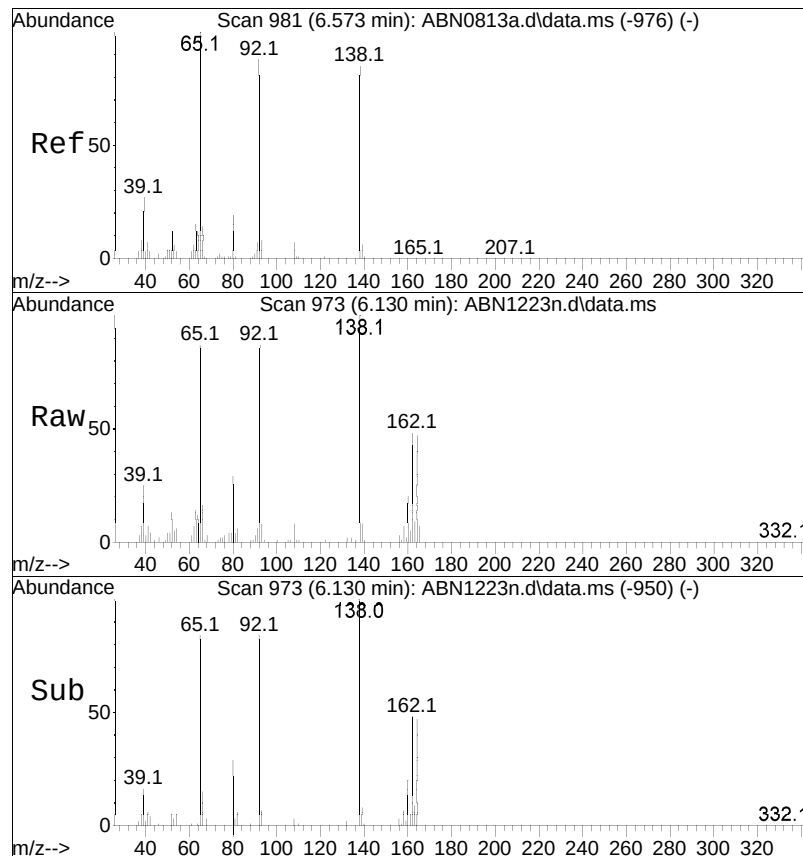
Tgt Ion:168 Resp: 69827

Ion Ratio Lower Upper

168 100

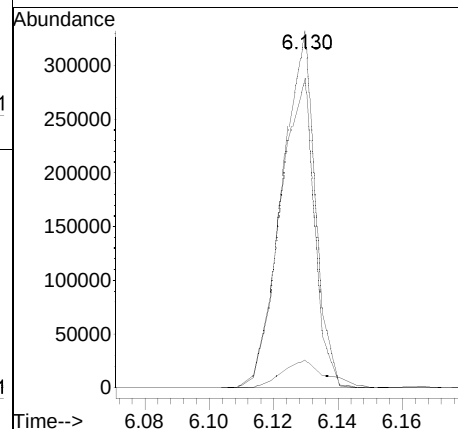
75 159.7 92.2 138.2#

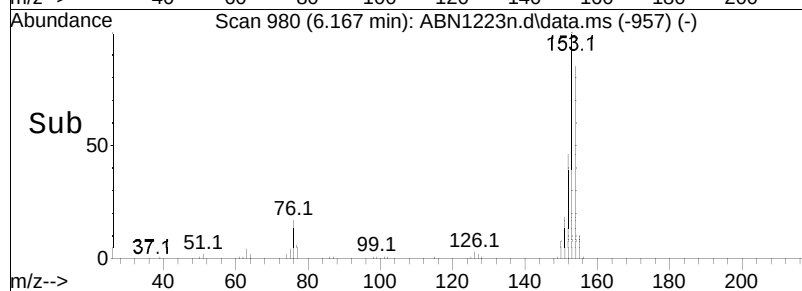
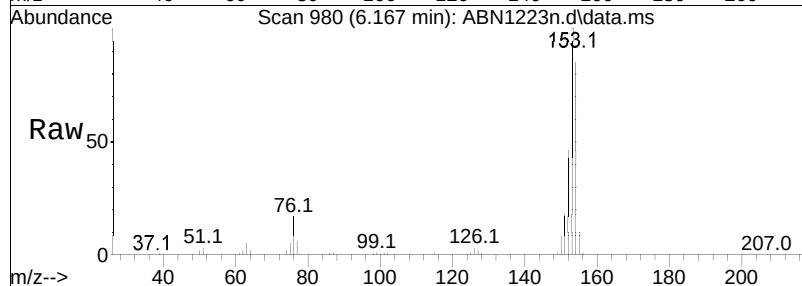
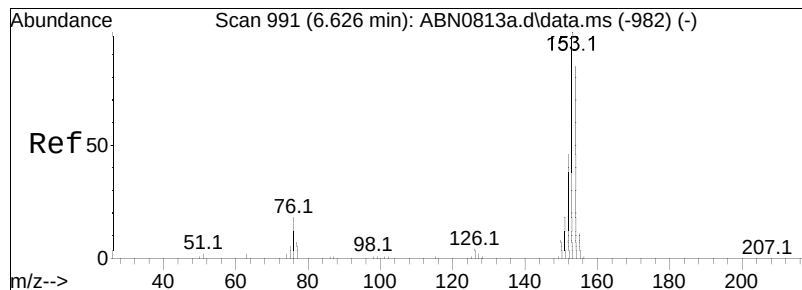




#64  
 3-Nitroaniline  
 Concen: 56.42 ug/ml  
 RT: 6.130 min Scan# 973  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

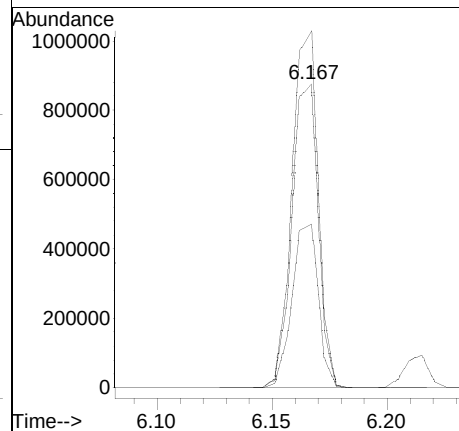
|             |       |        |
|-------------|-------|--------|
| Tgt Ion:138 | Resp: | 236460 |
| Ion Ratio   | Lower | Upper  |
| 138 100     |       |        |
| 92 90.7     | 77.5  | 116.3  |
| 108 10.5    | 7.0   | 10.4#  |

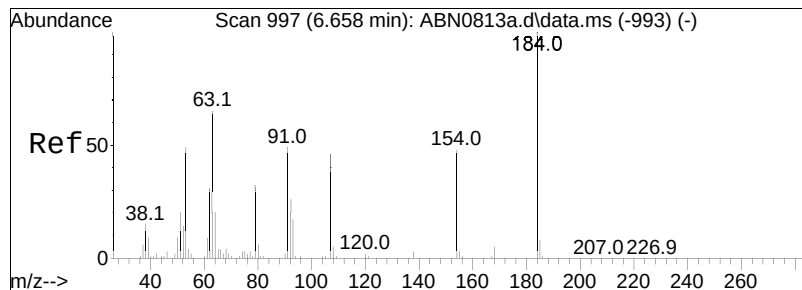




#65  
 Acenaphthene  
 Concen: 48.11 ug/ml  
 RT: 6.167 min Scan# 980  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 697702 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 117.3 | 89.4  | 134.0  |
| 152       | 54.1  | 42.2  | 63.2   |





#66

2,4-Dinitrophenol

Concen: 61.80 ug/ml

RT: 6.215 min Scan# 989

Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

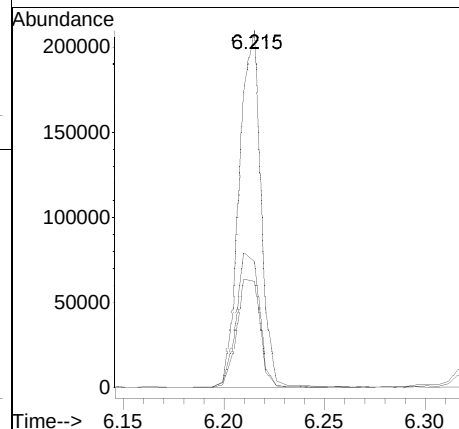
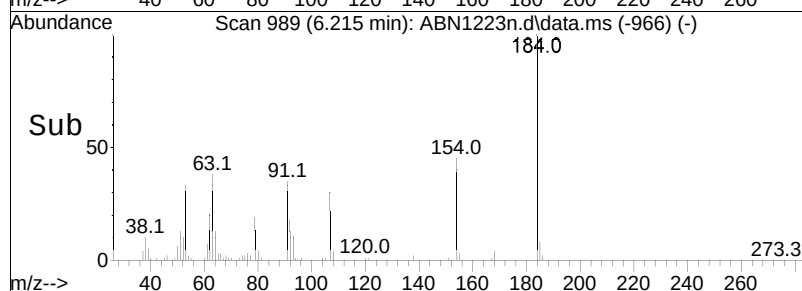
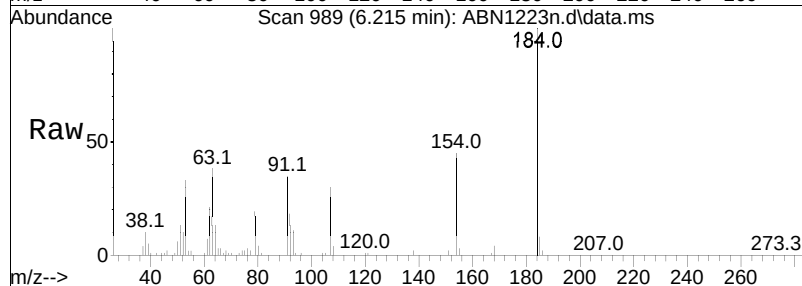
Tgt Ion:184 Resp: 156444

Ion Ratio Lower Upper

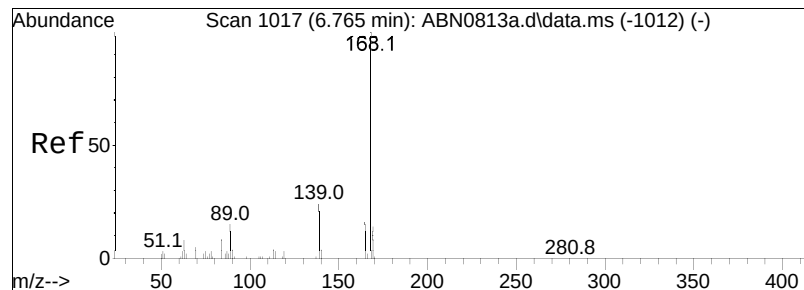
184 100

107 32.9 31.4 47.2

91 40.4 37.2 55.8

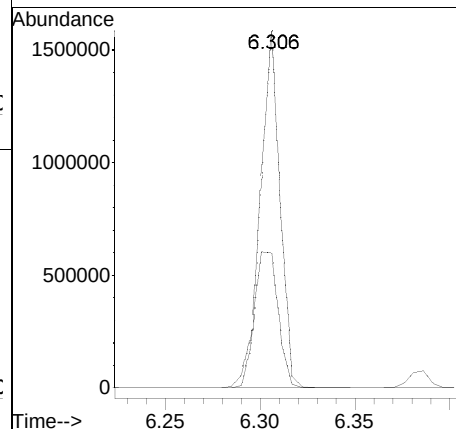
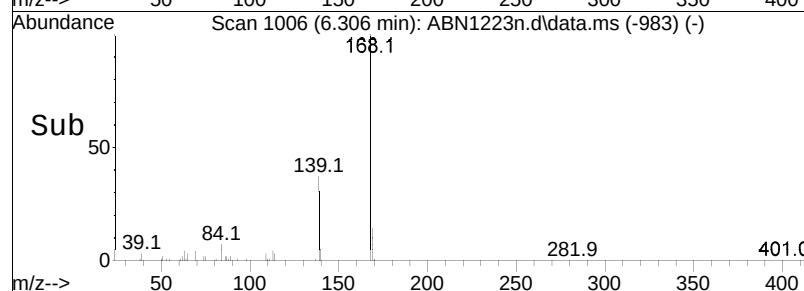
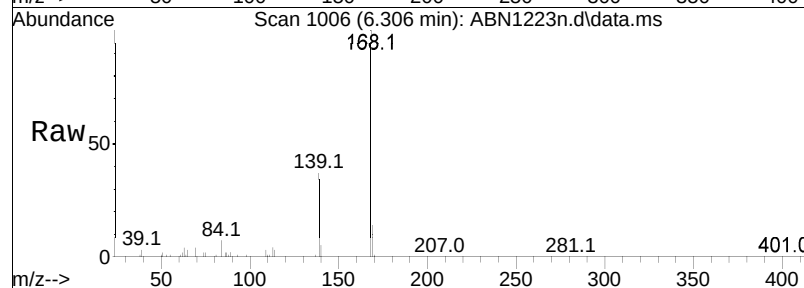


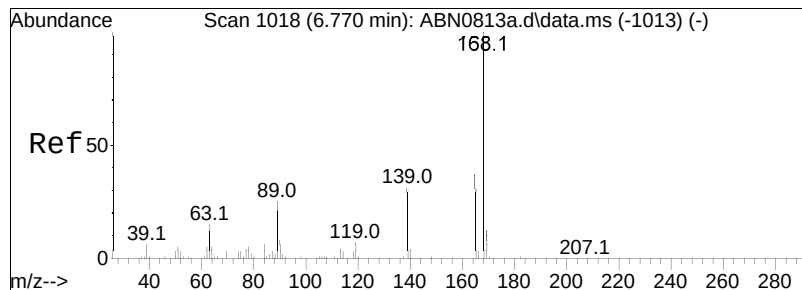




#67  
Dibenzofuran  
Concen: 50.43 ug/ml  
RT: 6.306 min Scan# 1006  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

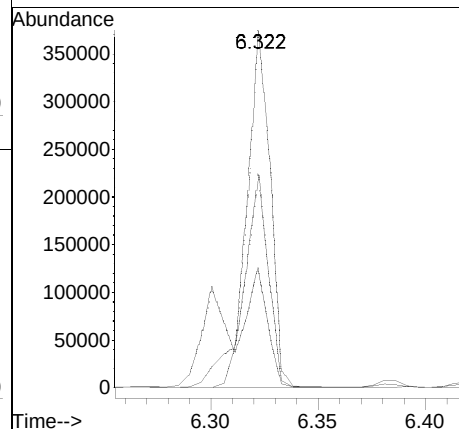
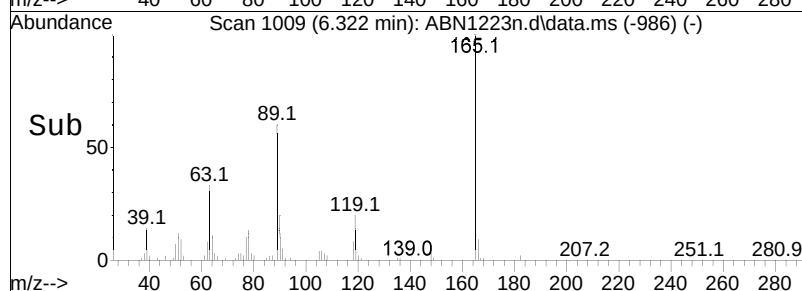
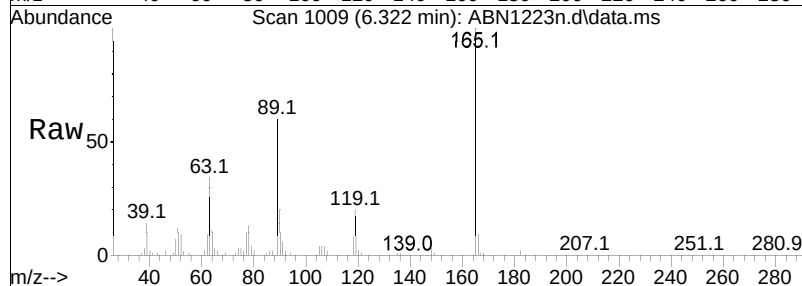
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 49.5  | 28.0  | 42.0  |

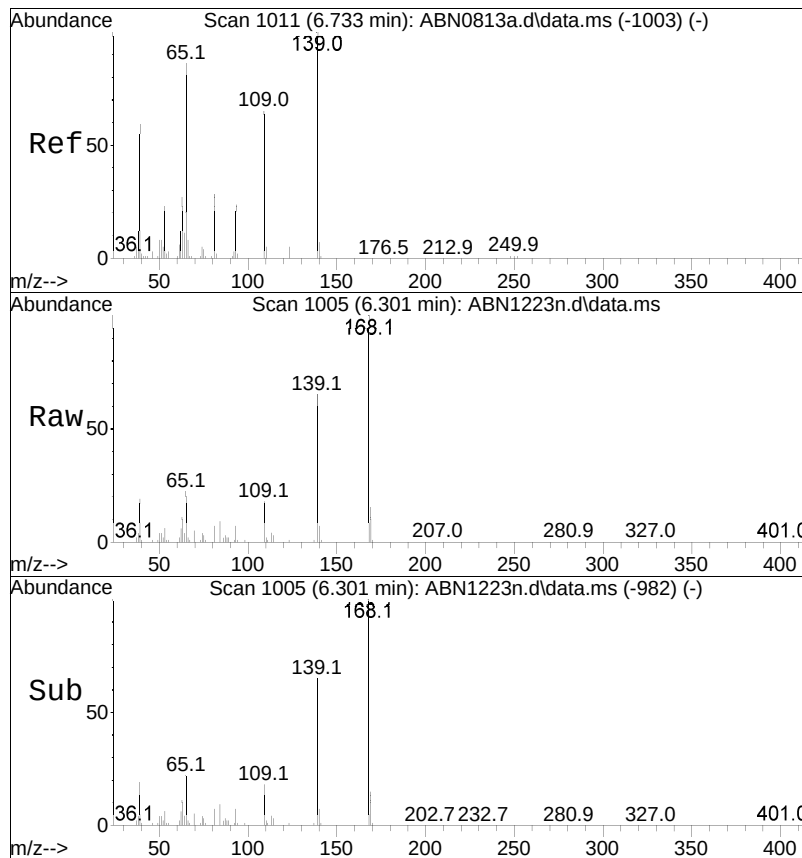




#68  
 2,4-Dinitrotoluene  
 Concen: 58.37 ug/ml  
 RT: 6.322 min Scan# 1009  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

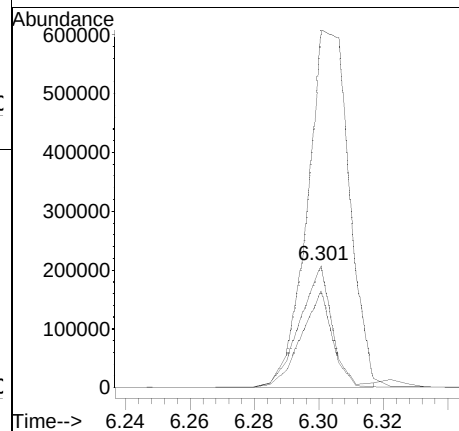
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 275706 |       |       |
| 89      | 66.5  |        | 63.0  | 94.6  |
| 63      | 30.4  |        | 50.3  | 75.5# |

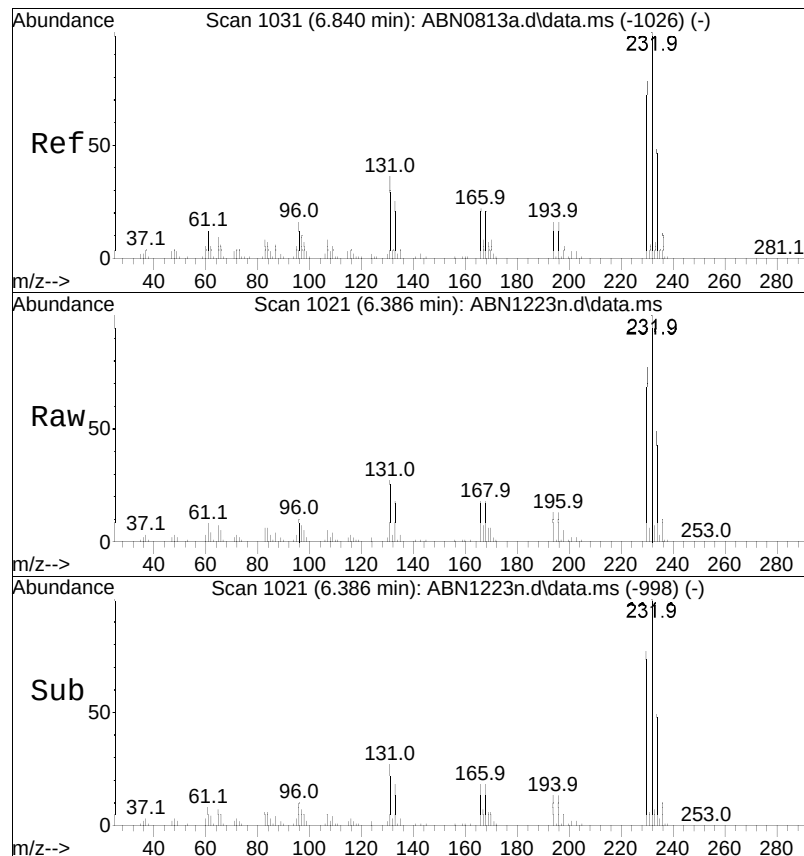




#69  
 4-Nitrophenol  
 Concen: 48.80 ug/ml  
 RT: 6.301 min Scan# 1005  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

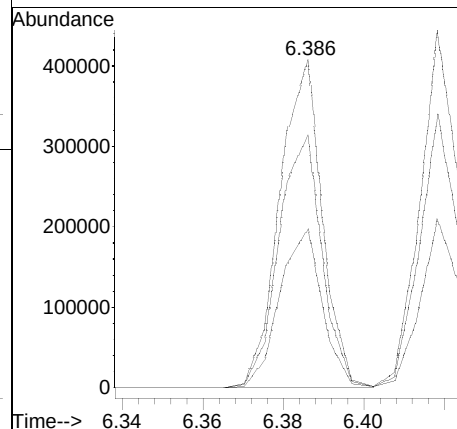
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 109     | 76.0  | 55.3  | 82.9   |
| 139     | 373.9 | 95.1  | 142.7# |

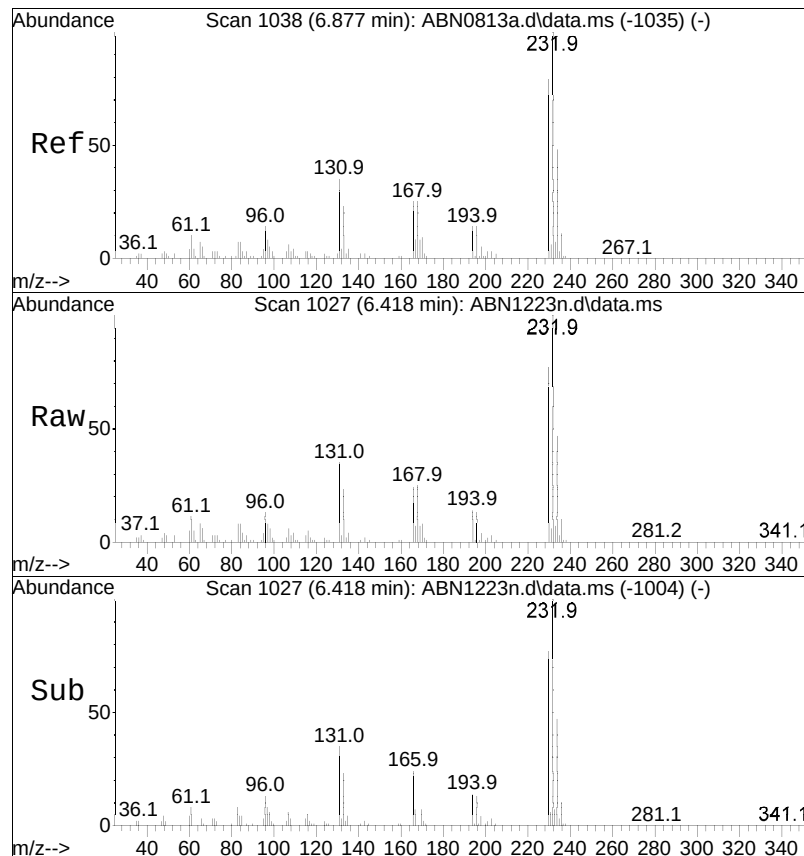




#70  
 2,3,5,6-Tetrachlorophenol  
 Concen: 59.73 ug/ml  
 RT: 6.386 min Scan# 1021  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

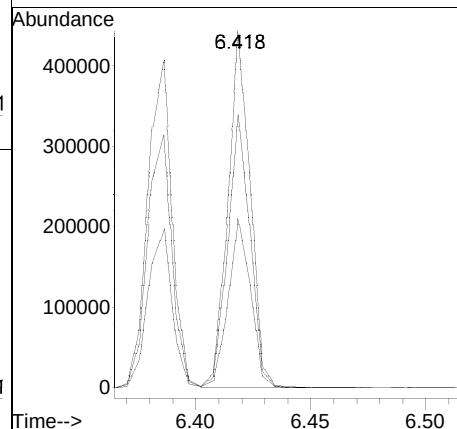
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:232 | Resp: | 299005 |
| Ion | Ratio   | Lower | Upper  |
| 232 | 100     |       |        |
| 230 | 78.2    | 64.4  | 96.6   |
| 234 | 48.6    | 38.9  | 58.3   |

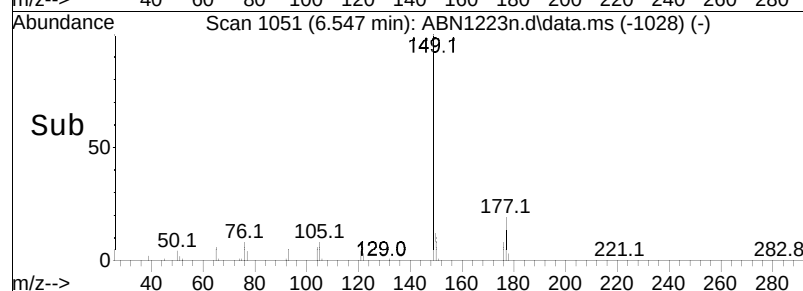
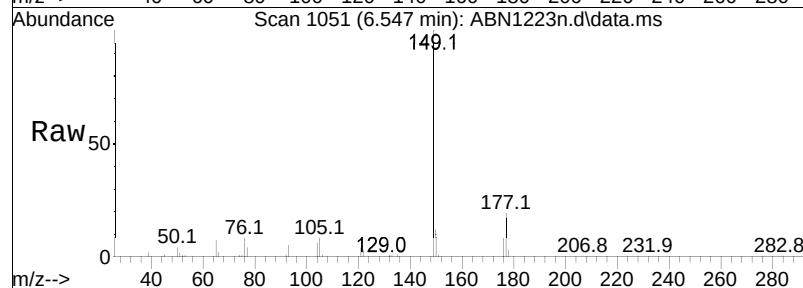
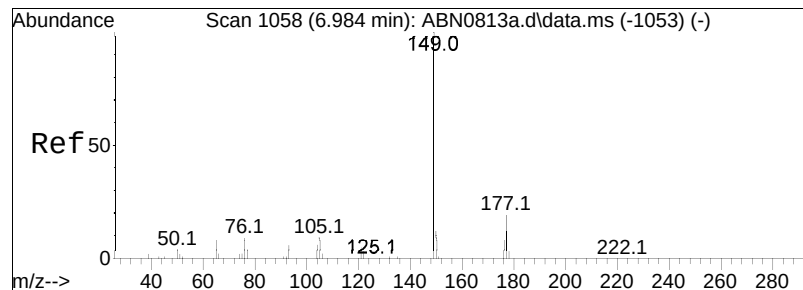




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 55.78 ug/ml  
 RT: 6.418 min Scan# 1027  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

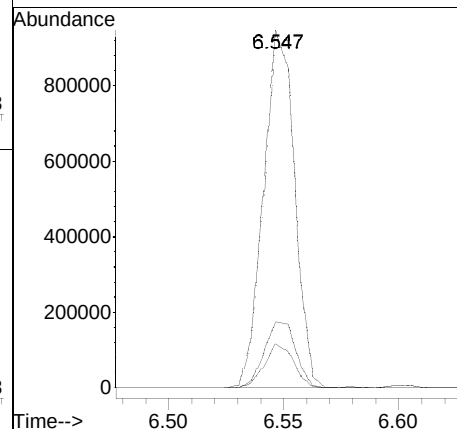
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 232     | 100   | 298824 |       |       |
| 230     | 76.7  |        | 64.2  | 96.4  |
| 234     | 47.9  |        | 38.4  | 57.6  |

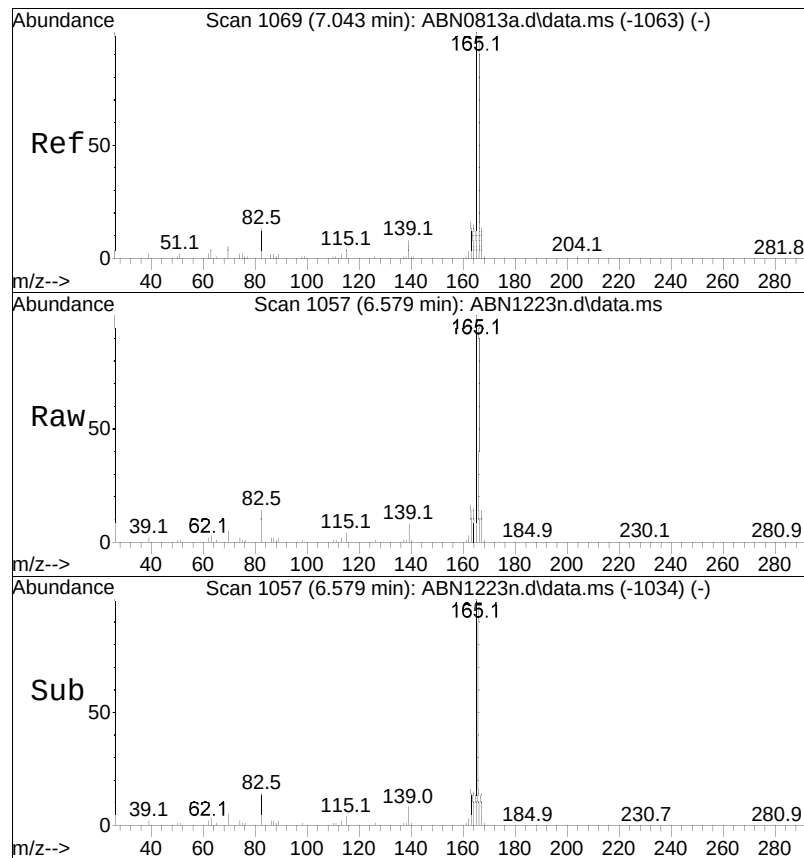




#72  
 Diethyl phthalate  
 Concen: 49.16 ug/ml  
 RT: 6.547 min Scan# 1051  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

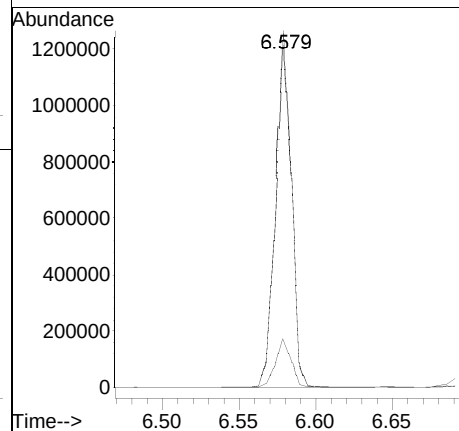
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 878166 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 177       | 19.0  | 16.2  | 24.2   |
| 150       | 11.7  | 9.4   | 14.0   |

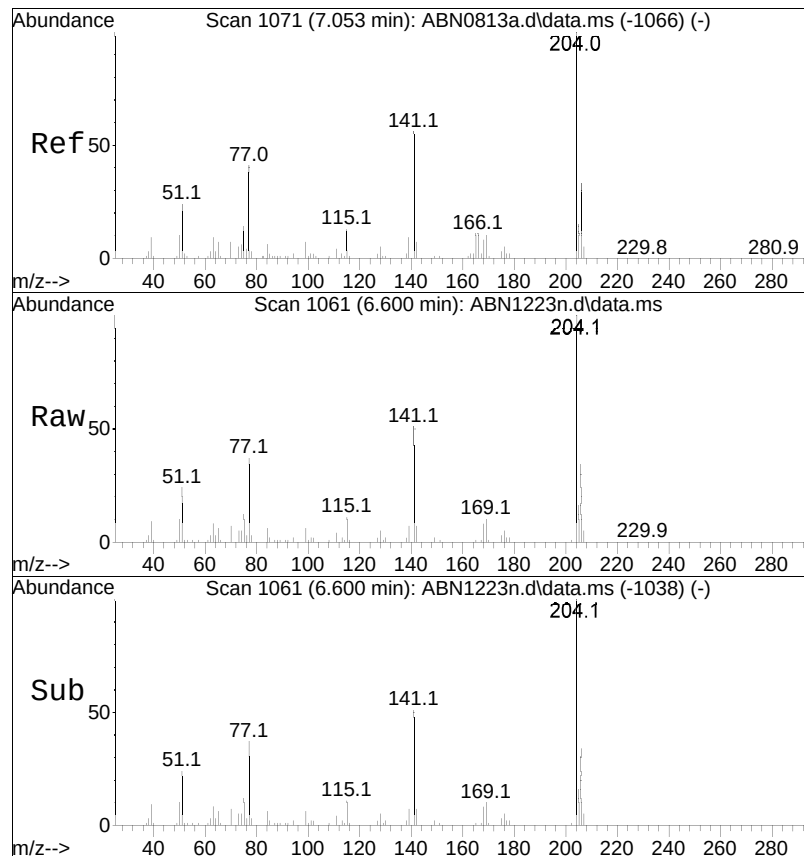




#73  
 Fluorene  
 Concen: 50.32 ug/ml  
 RT: 6.579 min Scan# 1057  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

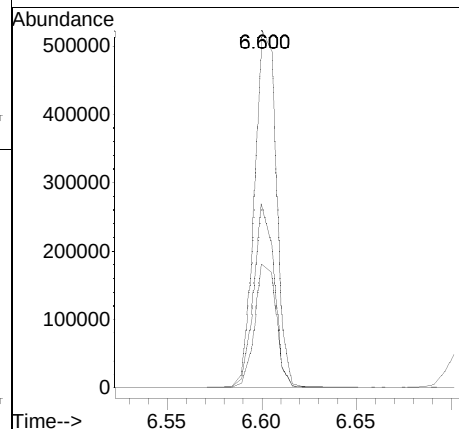
| Tgt | Ion   | Ratio | Resp   | Lower | Upper |
|-----|-------|-------|--------|-------|-------|
| 166 | 100   |       | 874905 |       |       |
| 165 | 103.0 | 77.2  |        | 115.8 |       |
| 167 | 14.2  | 10.9  |        | 16.3  |       |



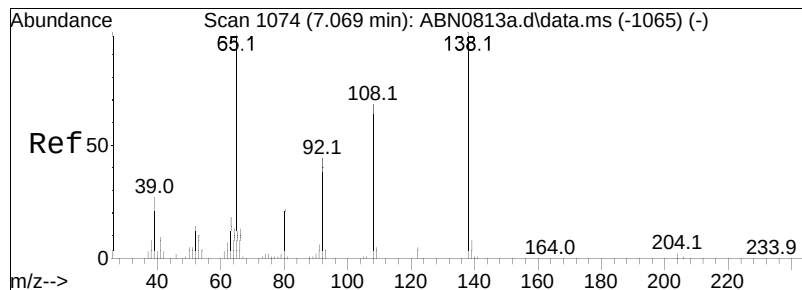


#74  
 4-Chlorophenyl phenyl ether  
 Concen: 47.05 ug/ml  
 RT: 6.600 min Scan# 1061  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 417024 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 34.2  | 27.0  | 40.6   |
| 141       | 48.1  | 42.2  | 63.2   |







#75

4-Nitroaniline

Concen: 53.47 ug/ml

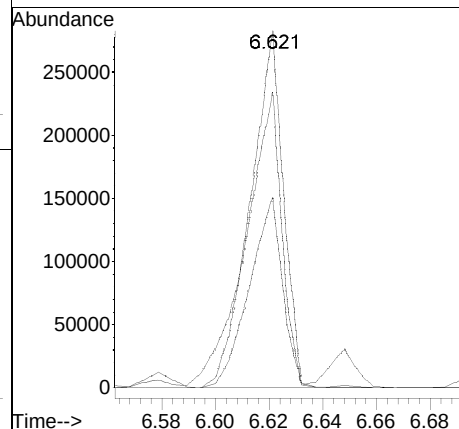
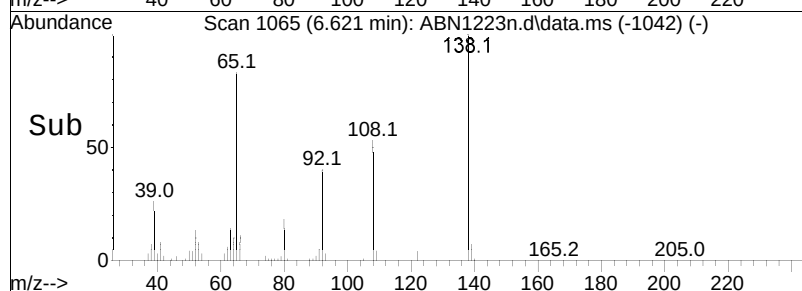
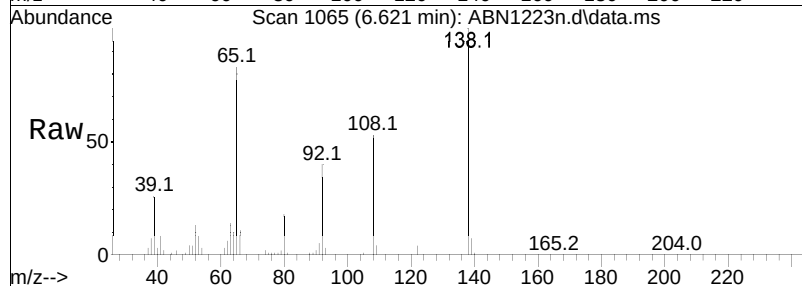
RT: 6.621 min Scan# 1065

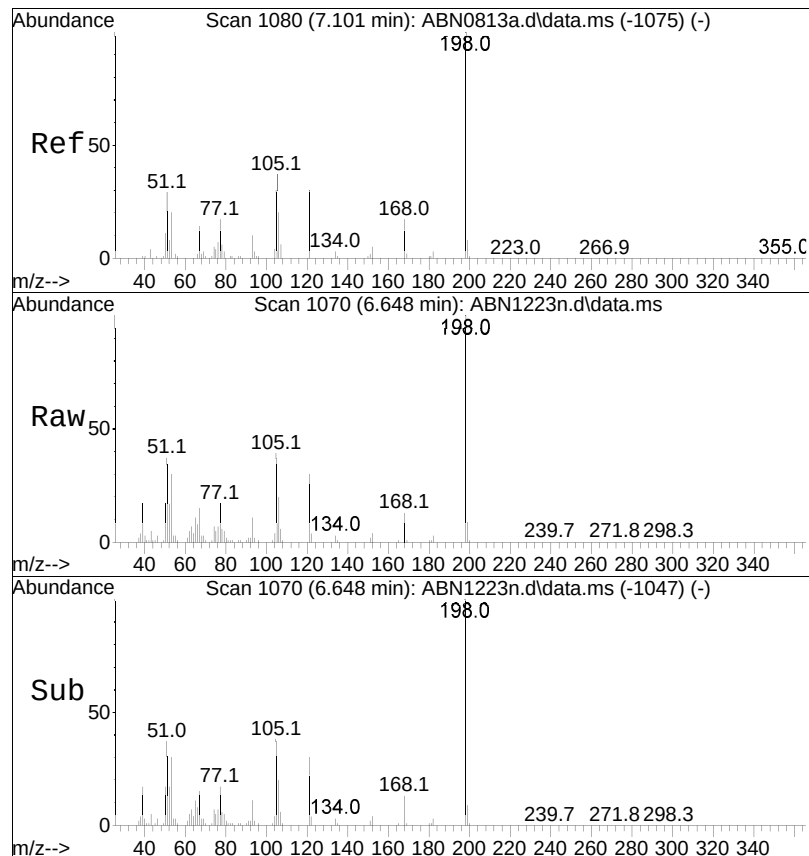
Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

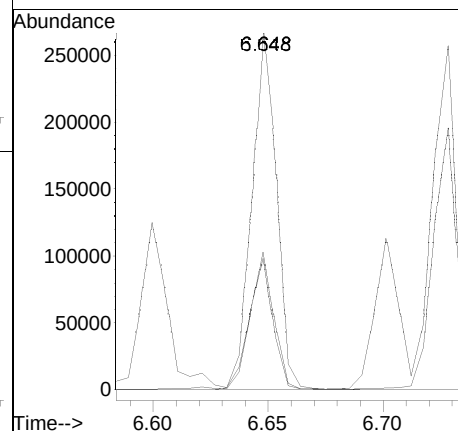
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 241288 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 53.3  | 46.7  | 70.1   |
| 65        | 89.7  | 81.2  | 121.8  |

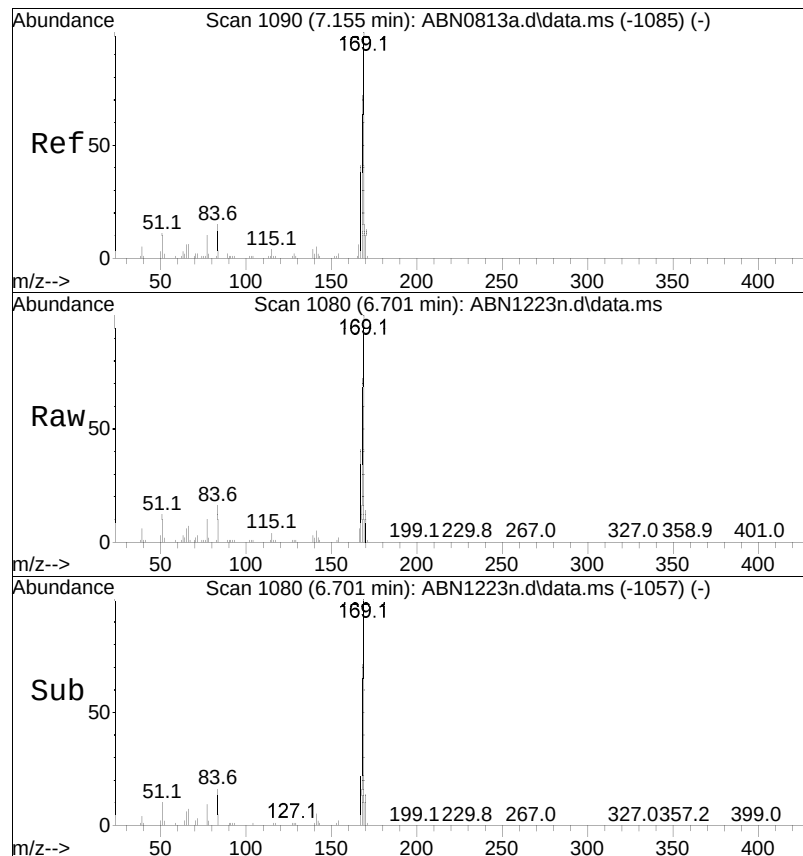




#76  
 4,6-Dinitro-o-cresol  
 Concen: 72.29 ug/ml  
 RT: 6.648 min Scan# 1070  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

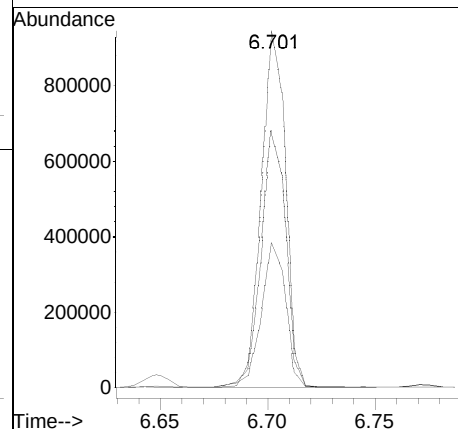
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 198     | 100   | 198821 |       |       |
| 51      | 34.5  |        | 35.0  | 52.6# |
| 105     | 38.0  |        | 32.3  | 48.5  |

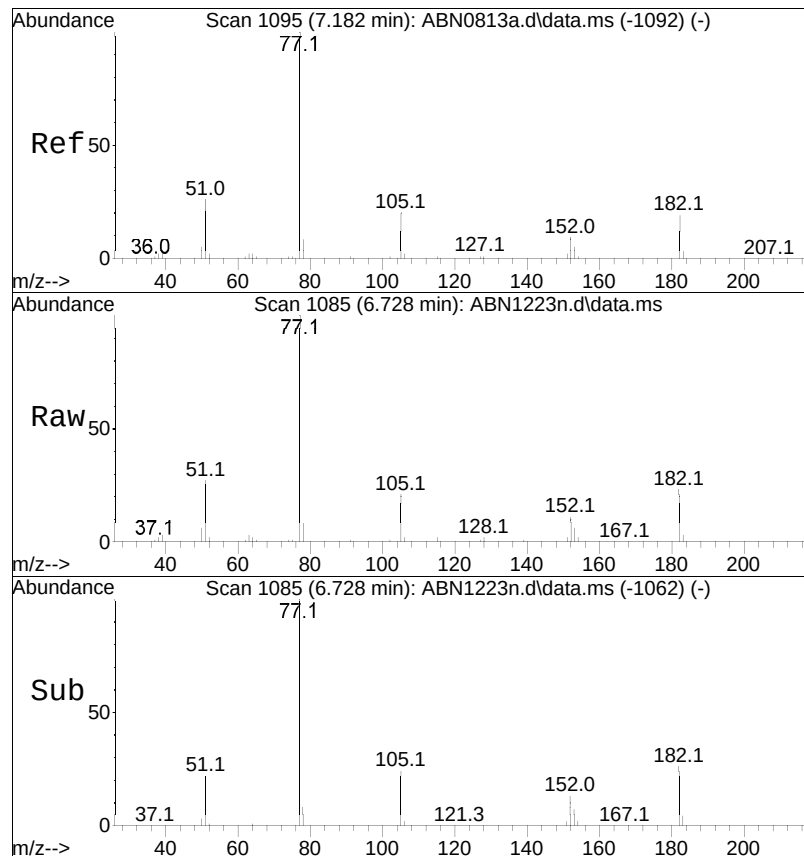




#77  
 NDPA/DPA  
 Concen: 50.03 ug/ml  
 RT: 6.701 min Scan# 1080  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

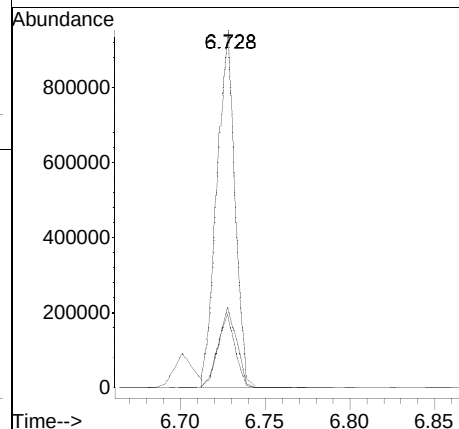
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 169     | 100   | 741997 |       |       |
| 168     | 73.3  |        | 54.6  | 82.0  |
| 167     | 41.4  |        | 30.7  | 46.1  |

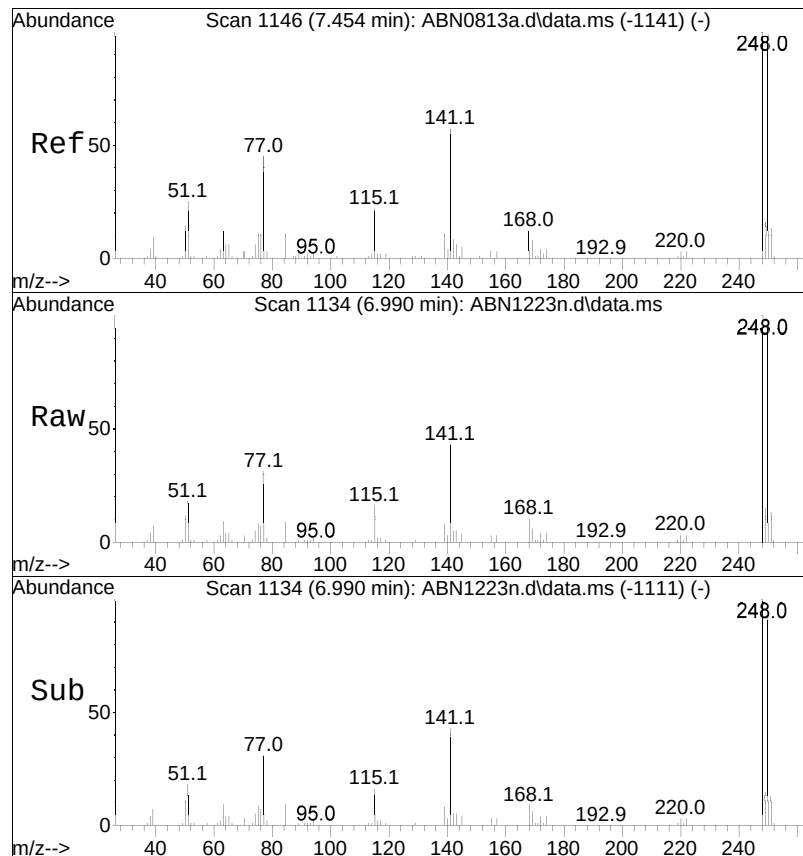




#78  
 Azobenzene  
 Concen: 43.67 ug/ml  
 RT: 6.728 min Scan# 1085  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

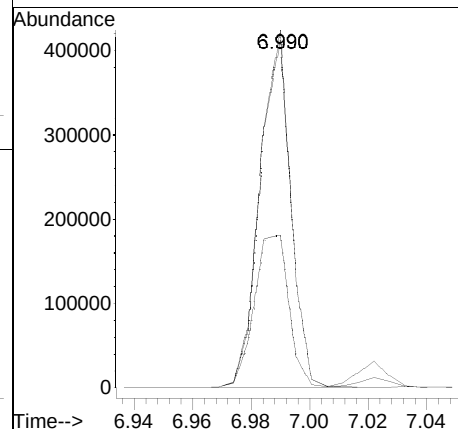
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 22.9  | 19.8  | 29.8  |
| 105     | 20.5  | 12.1  | 18.1# |

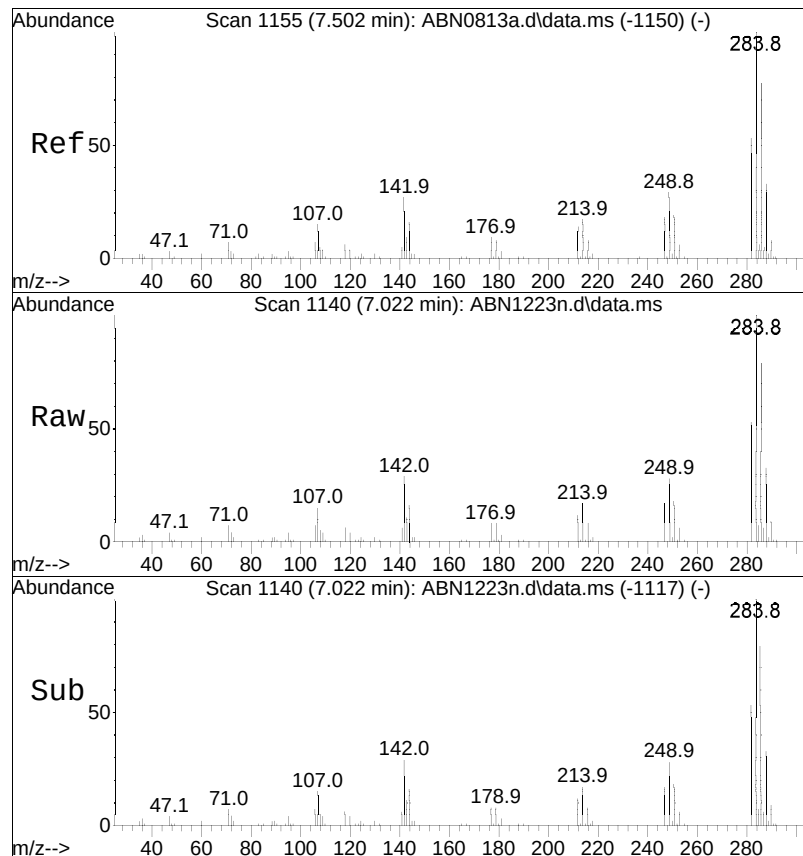




#80  
 4-Bromophenyl phenyl ether  
 Concen: 53.51 ug/ml  
 RT: 6.990 min Scan# 1134  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

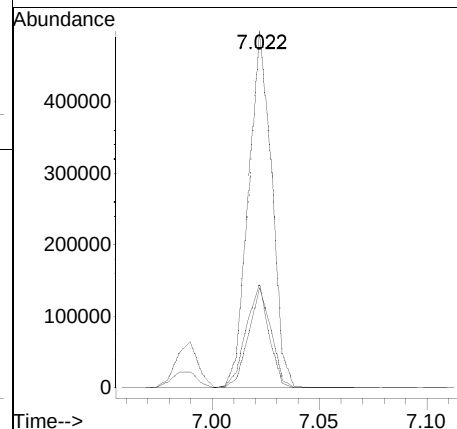
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 306077 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 48.1  | 46.6  | 70.0   |
| 250       | 97.6  | 79.4  | 119.2  |

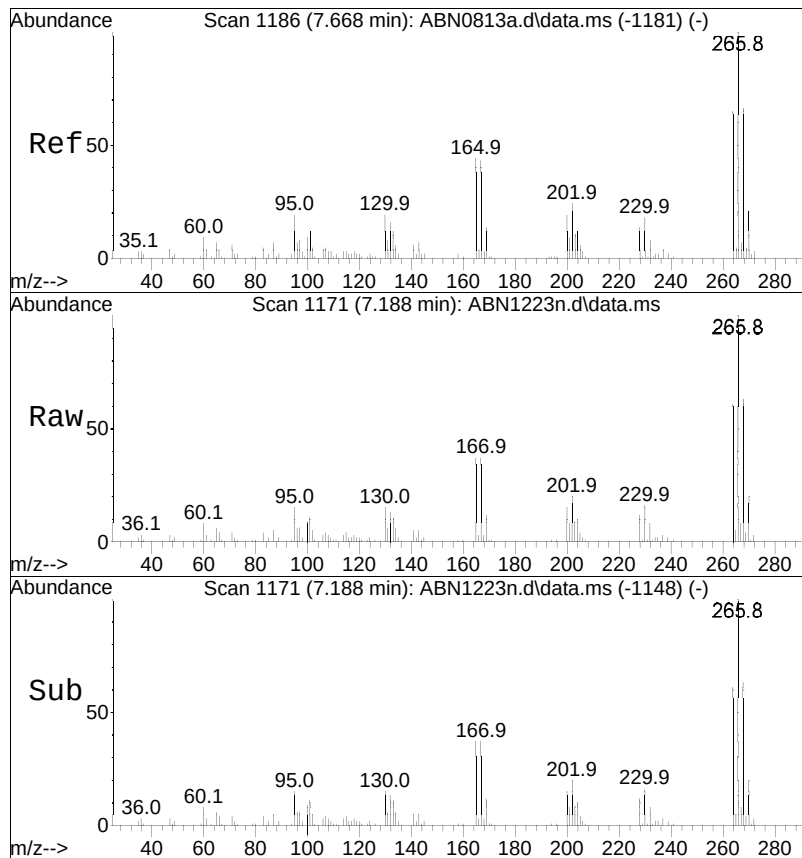




#81  
 Hexachlorobenzene  
 Concen: 55.36 ug/ml  
 RT: 7.022 min Scan# 1140  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

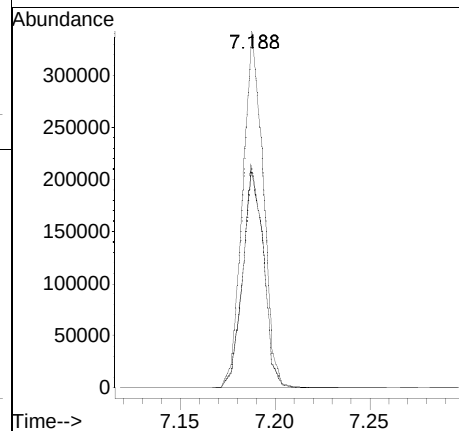
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 284     | 100   | 375786 |       |       |
| 142     | 28.4  |        | 26.0  | 39.0  |
| 249     | 27.4  |        | 20.6  | 30.8  |

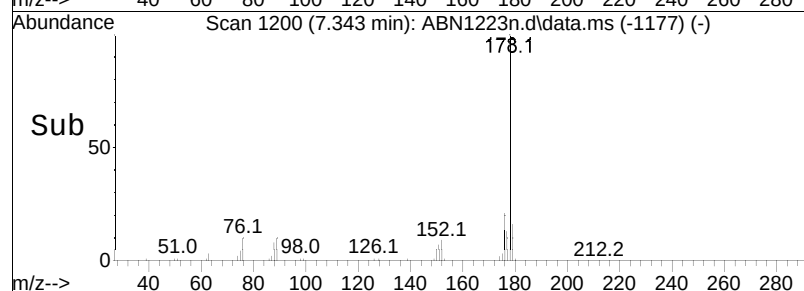
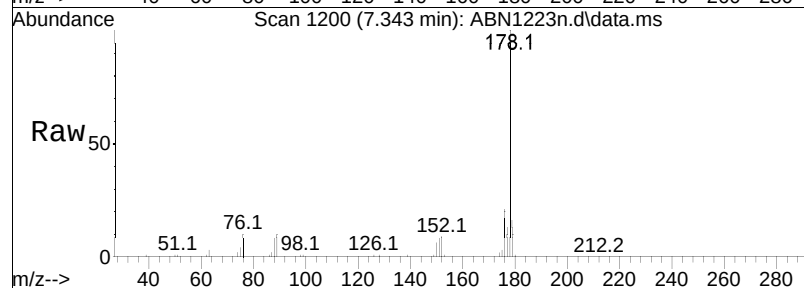
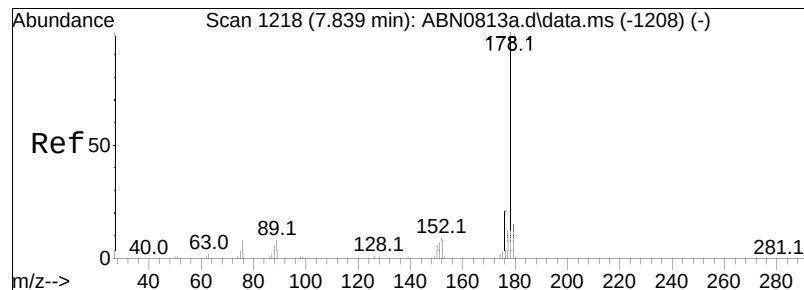




#82  
 Pentachlorophenol  
 Concen: 58.49 ug/ml  
 RT: 7.188 min Scan# 1171  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

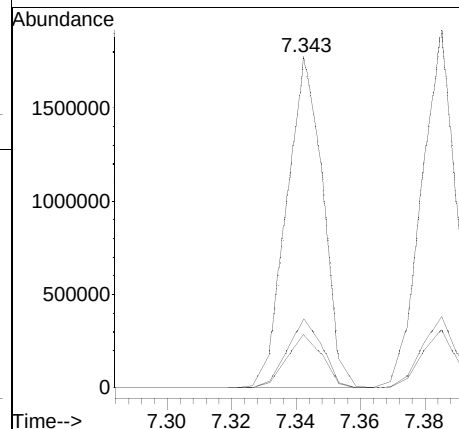
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 255777 |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 62.8  | 51.2  | 76.8   |
| 268       | 62.9  | 51.5  | 77.3   |



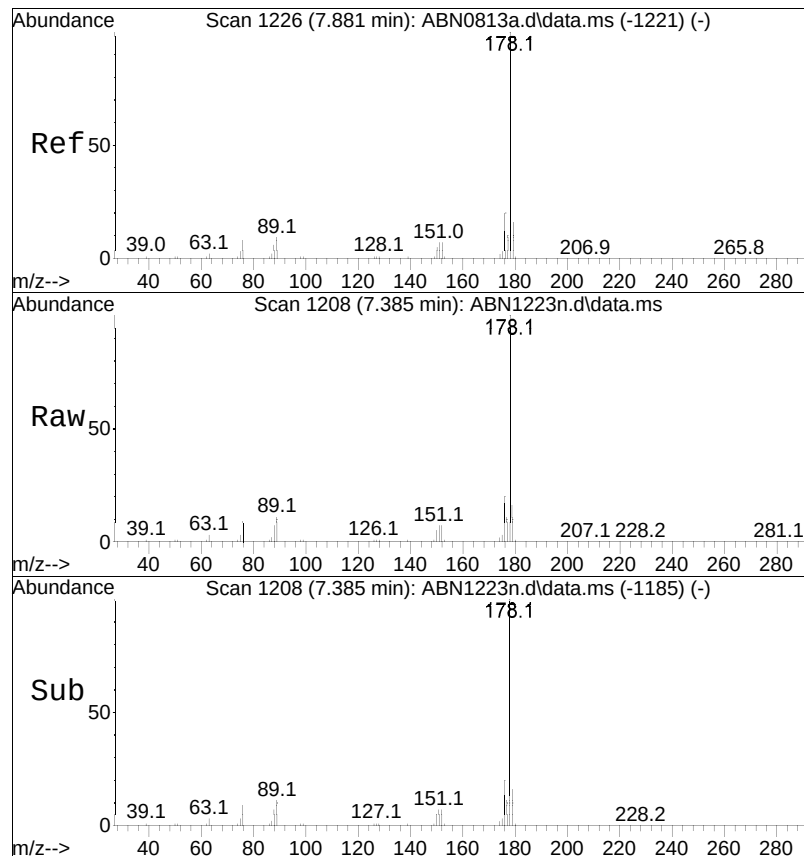


#89  
 Phenanthrene  
 Concen: 45.33 ug/ml  
 RT: 7.343 min Scan# 1200  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.9  | 12.7  | 19.1  |
| 176     | 20.2  | 15.8  | 23.6  |

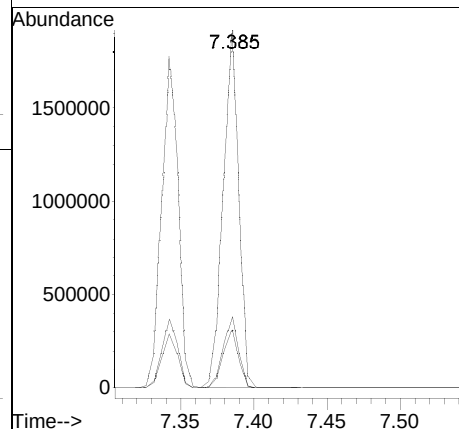


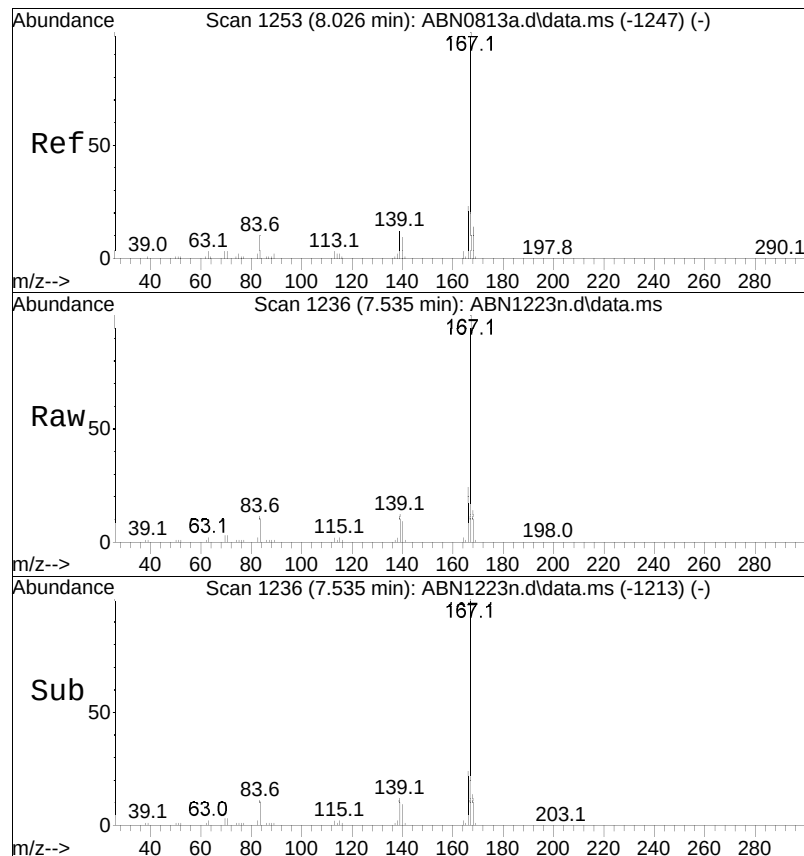




#90  
 Anthracene  
 Concen: 47.22 ug/ml  
 RT: 7.385 min Scan# 1208  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

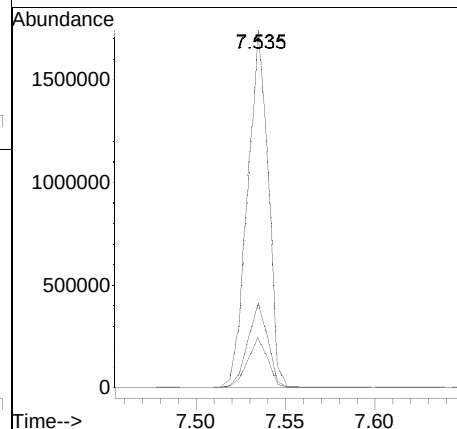
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1422620 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 16.0  | 12.5  | 18.7    |
| 176       | 19.6  | 15.4  | 23.0    |

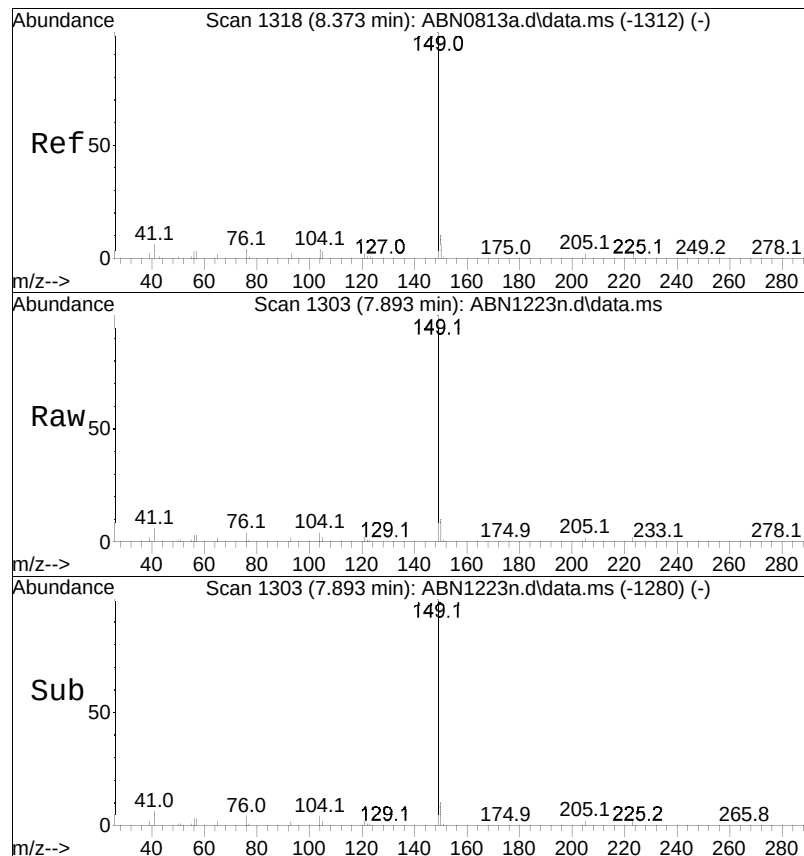




#91  
 Carbazole  
 Concen: 49.81 ug/ml  
 RT: 7.535 min Scan# 1236  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

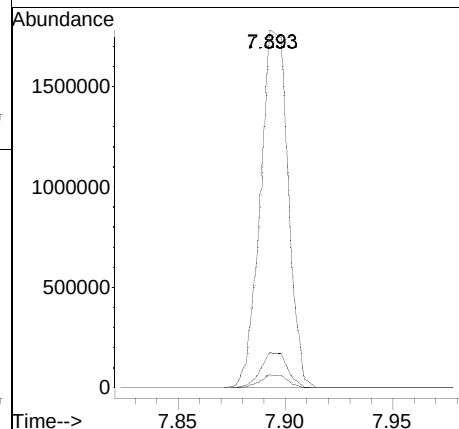
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 167   | Resp: | 1380512 |
| Ion Ratio | Lower | Upper |         |
| 167       | 100   |       |         |
| 168       | 13.9  | 11.3  | 16.9    |
| 166       | 23.3  | 17.8  | 26.8    |

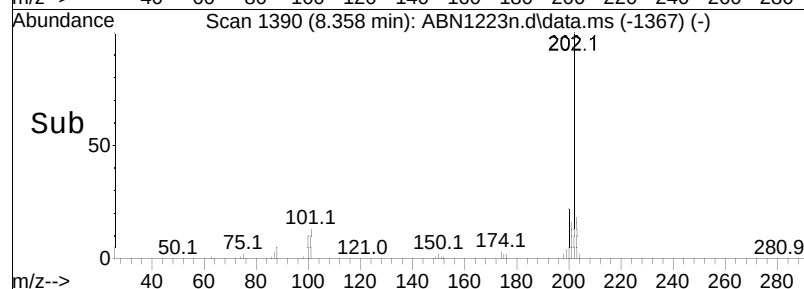
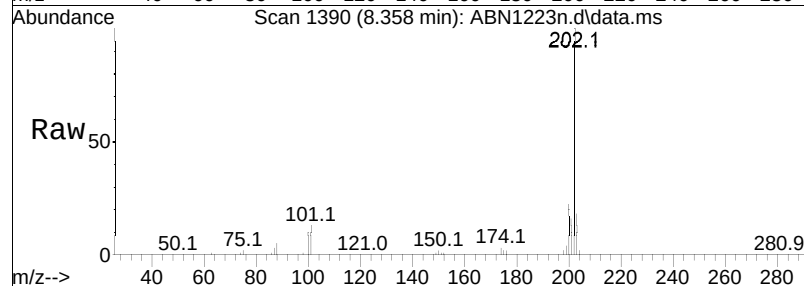
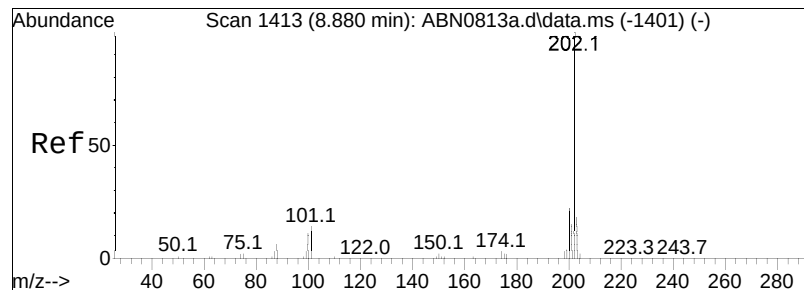




#92  
 Di-n-butylphthalate  
 Concen: 52.05 ug/ml  
 RT: 7.893 min Scan# 1303  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 1574946 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 150       | 9.7   | 7.4   | 11.2    |
| 104       | 3.7   | 3.8   | 5.8#    |





#93

Fluoranthene

Concen: 48.95 ug/ml

RT: 8.358 min Scan# 1390

Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

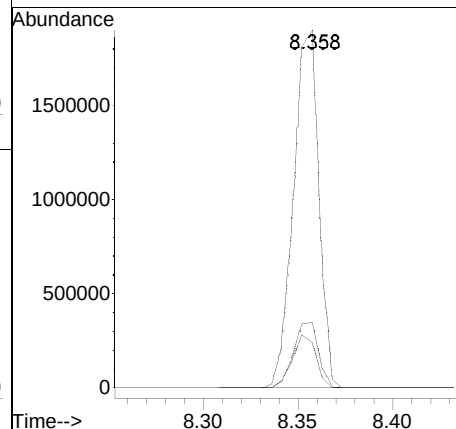
Tgt Ion:202 Resp: 1749685

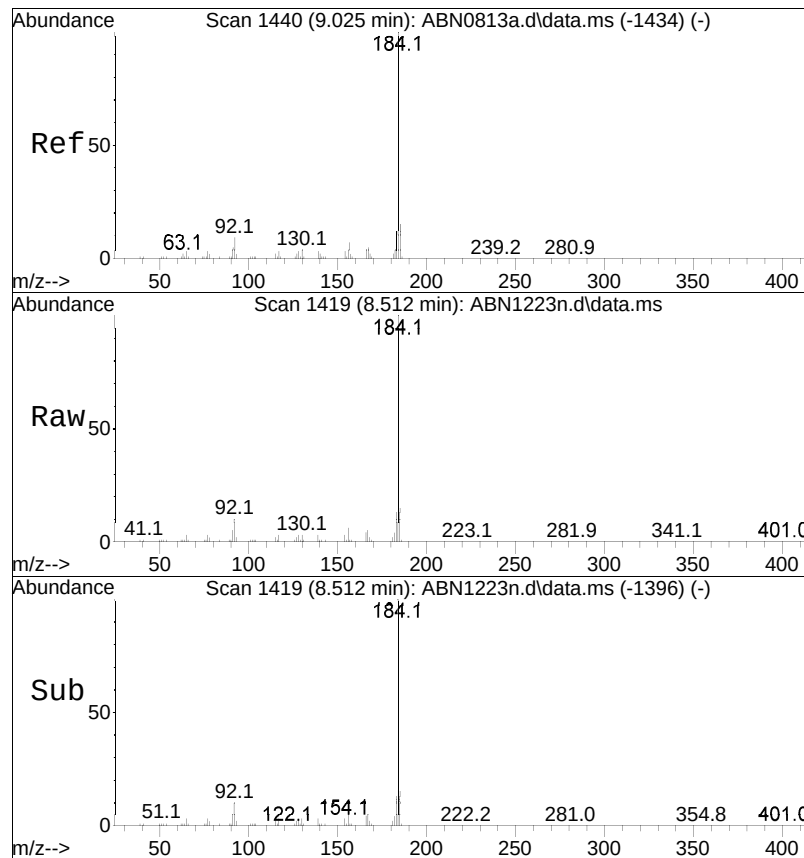
Ion Ratio Lower Upper

202 100

101 14.1 12.6 19.0

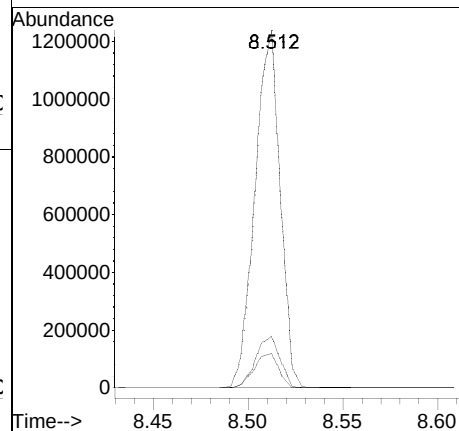
203 18.3 14.4 21.6

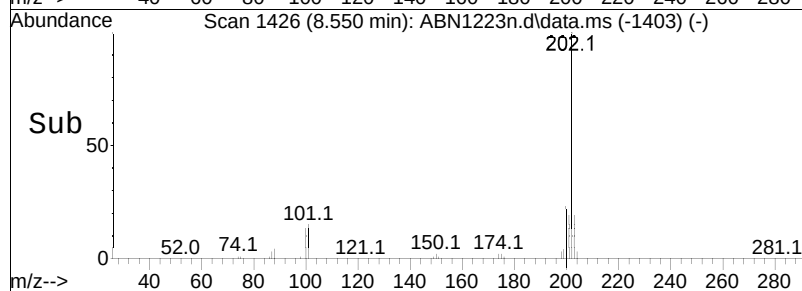
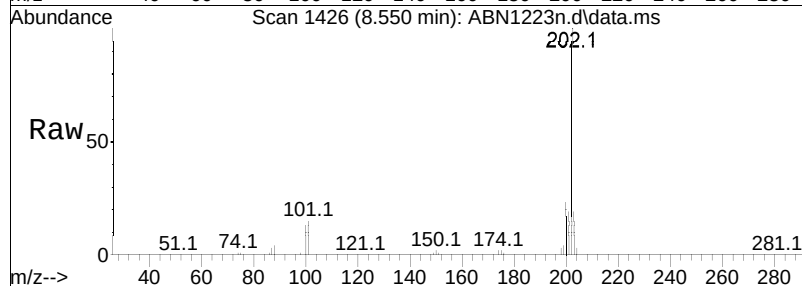
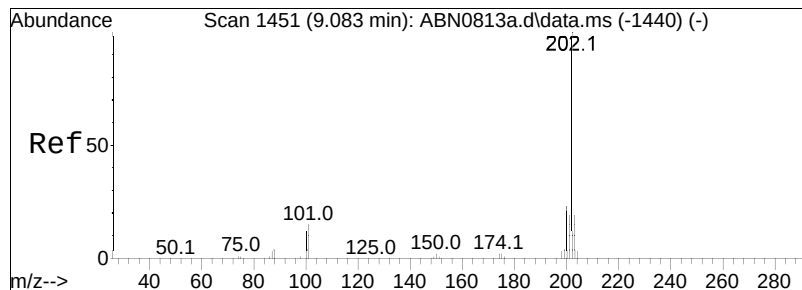




#94  
Benzidine  
Concen: 51.51 ug/ml  
RT: 8.512 min Scan# 1419  
Delta R.T. 0.000 min  
Lab File: ABN1223n.d  
Acq: 24 Dec 2019 12:38 am

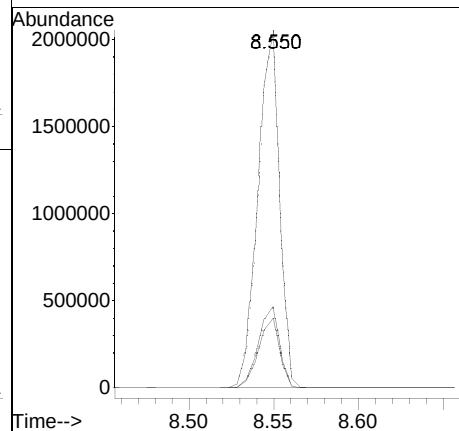
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 92      | 9.6   | 8.4   | 12.6  |
| 185     | 14.3  | 11.5  | 17.3  |

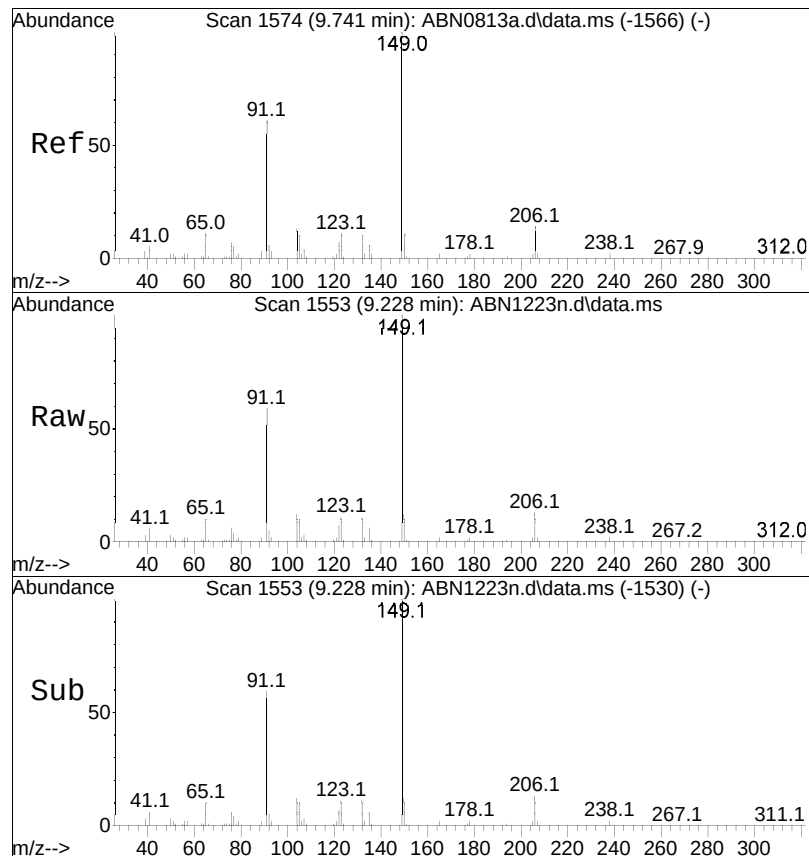




#95  
 Pyrene  
 Concen: 46.58 ug/ml  
 RT: 8.550 min Scan# 1426  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

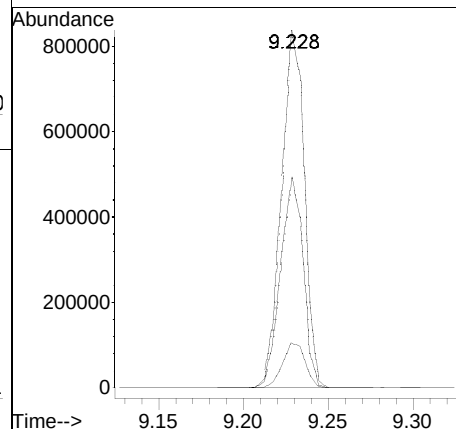
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.4  | 17.2  | 25.8  |
| 203     | 19.2  | 15.0  | 22.6  |

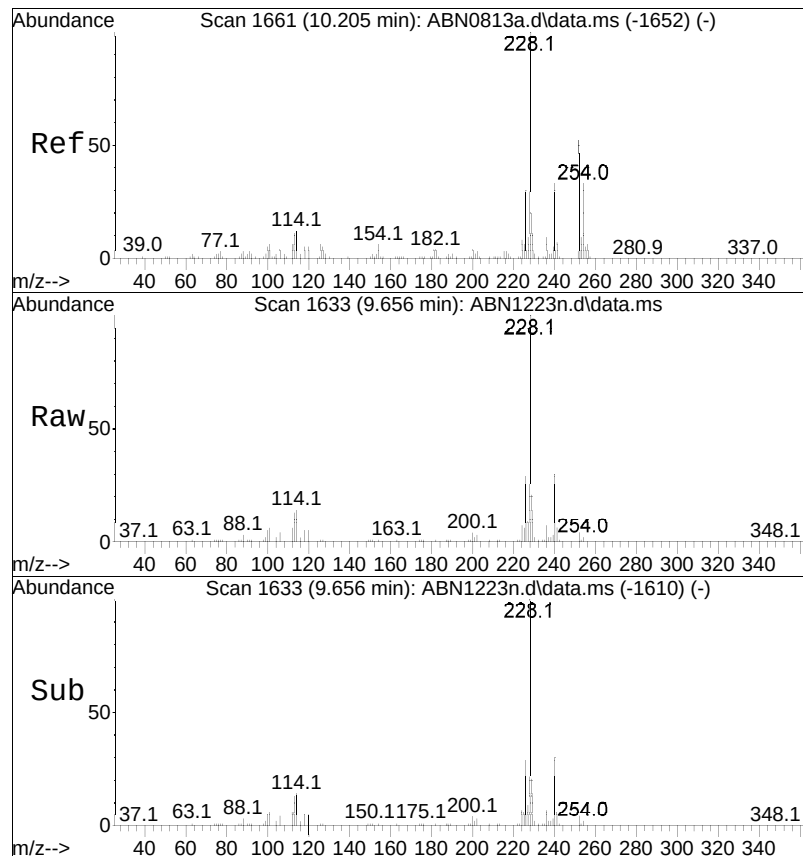




#97  
 Butyl benzyl phthalate  
 Concen: 54.29 ug/ml  
 RT: 9.228 min Scan# 1553  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

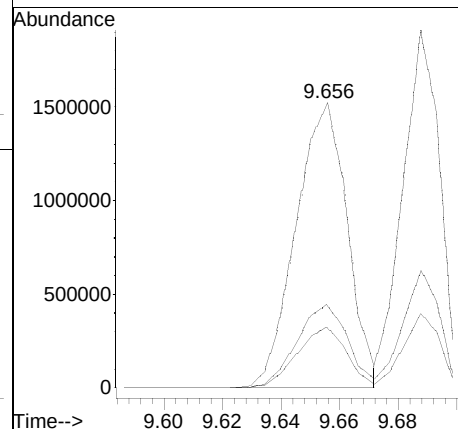
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 776512 |       |       |
| 91      | 58.3  |        | 53.4  | 80.2  |
| 206     | 12.7  |        | 13.3  | 19.9  |



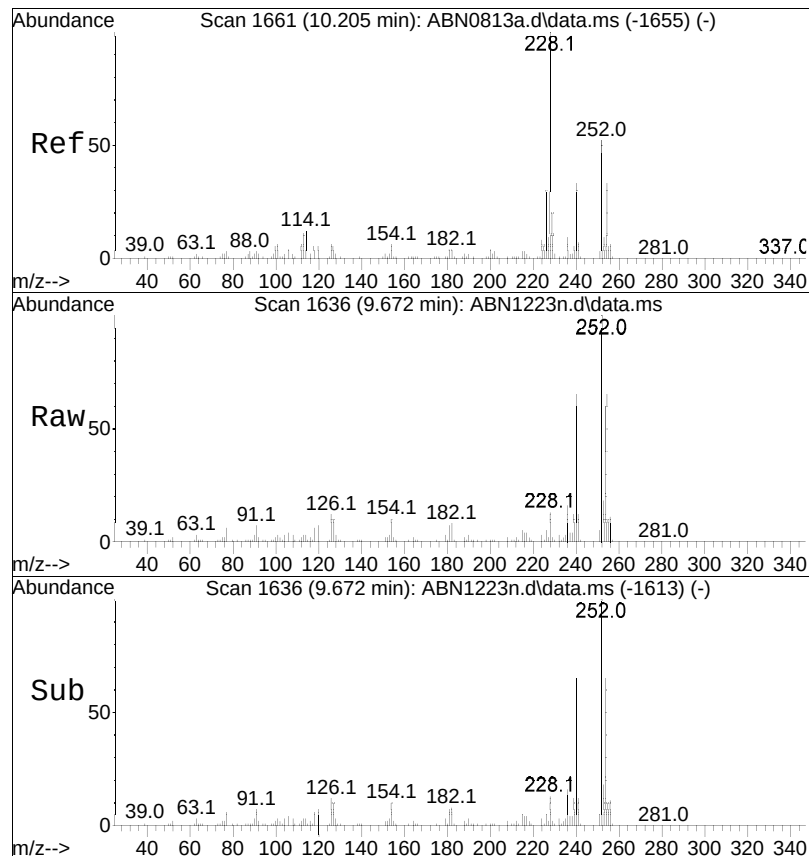


#105  
 Benzo(a)anthracene  
 Concen: 50.17 ug/ml  
 RT: 9.656 min Scan# 1633  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 22.9  | 34.3  |
| 229     | 20.8  | 16.1  | 24.1  |

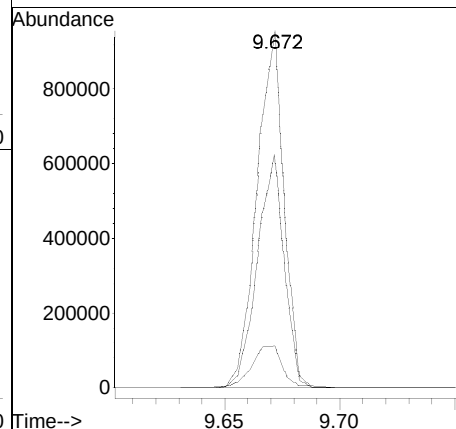


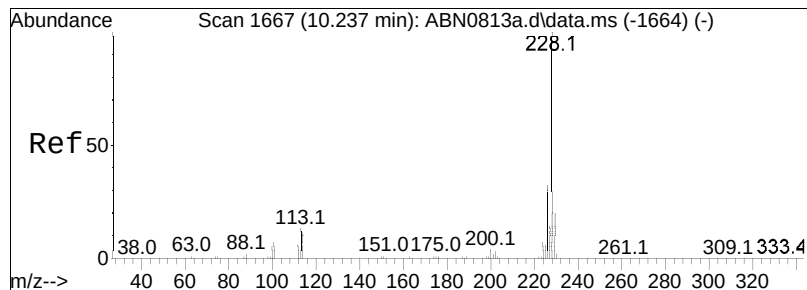




#106  
 3,3'-Dichlorobenzidine  
 Concen: 55.48 ug/ml  
 RT: 9.672 min Scan# 1636  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 774053 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 126       | 14.0  | 13.4  | 20.0   |
| 254       | 65.2  | 52.8  | 79.2   |





#107

Chrysene

Concen: 42.64 ug/ml

RT: 9.688 min Scan# 1639

Delta R.T. 0.000 min

Lab File: ABN1223n.d

Acq: 24 Dec 2019 12:38 am

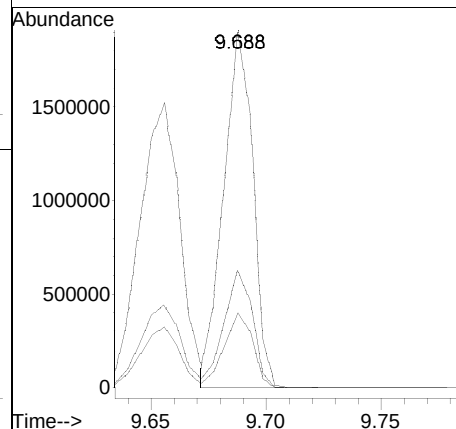
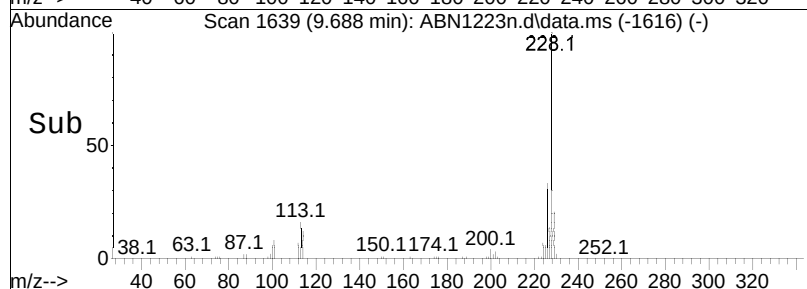
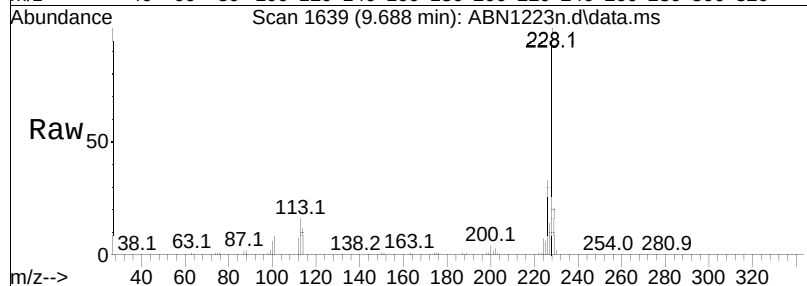
Tgt Ion: 228 Resp: 1685200

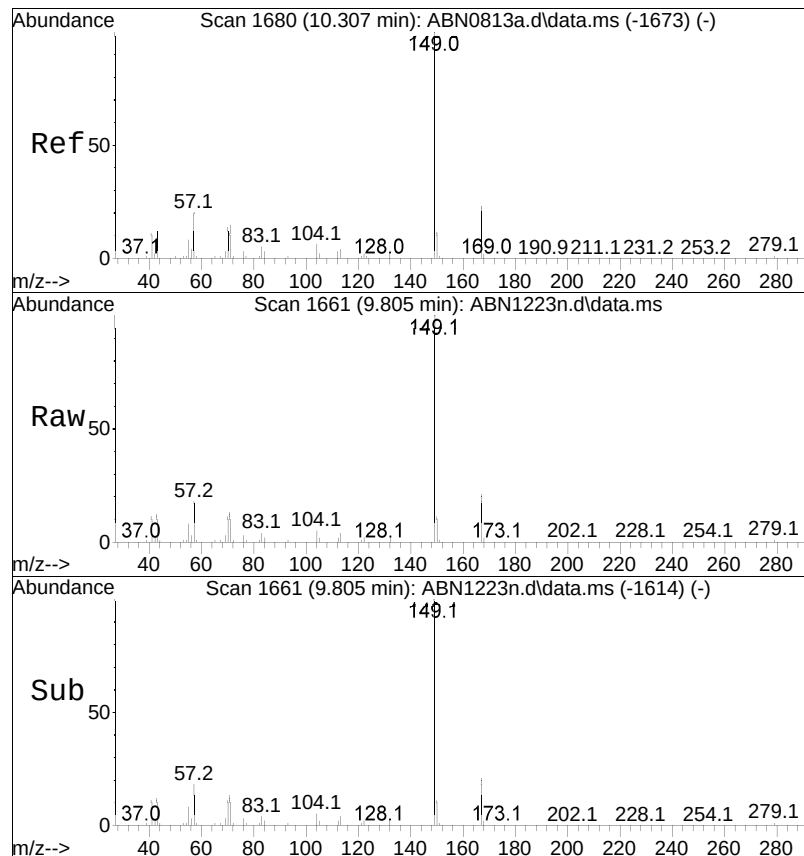
Ion Ratio Lower Upper

228 100

226 32.3 24.9 37.3

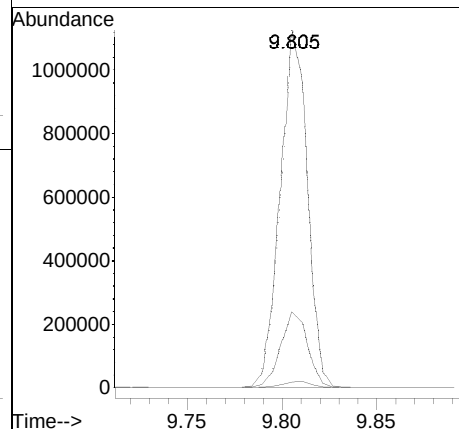
229 20.5 16.6 24.8

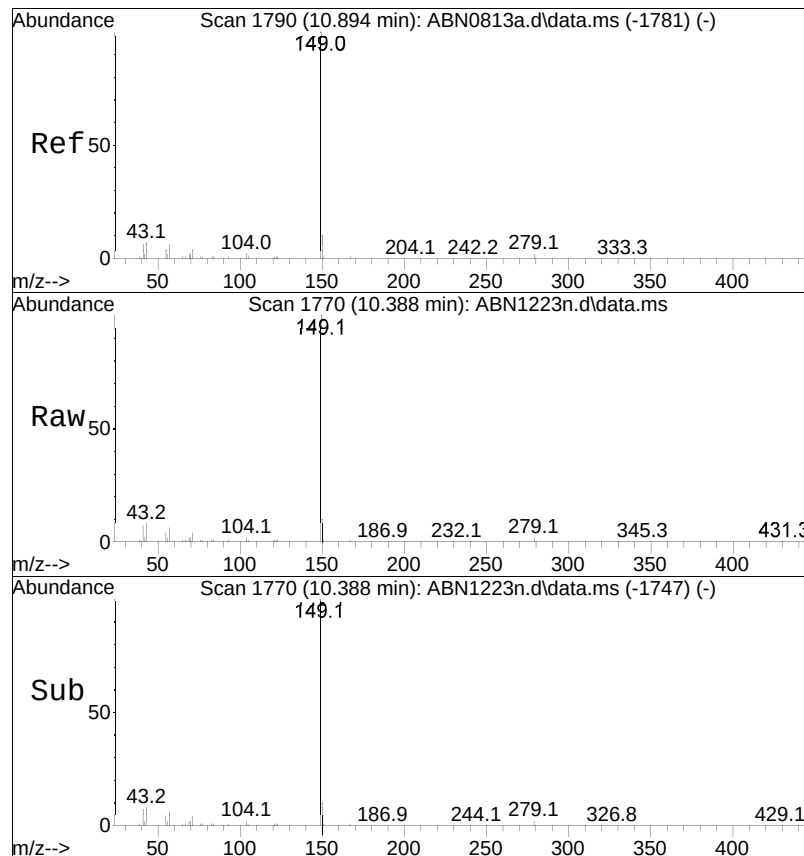




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 46.17 ug/ml  
 RT: 9.805 min Scan# 1661  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

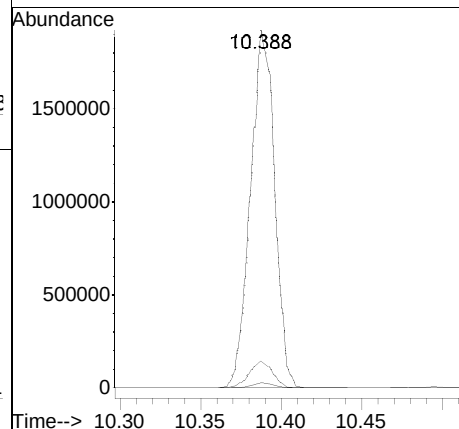
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 1104885 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 167       | 21.3  | 21.2  | 31.8    |
| 279       | 1.6   | 3.8   | 5.6#    |

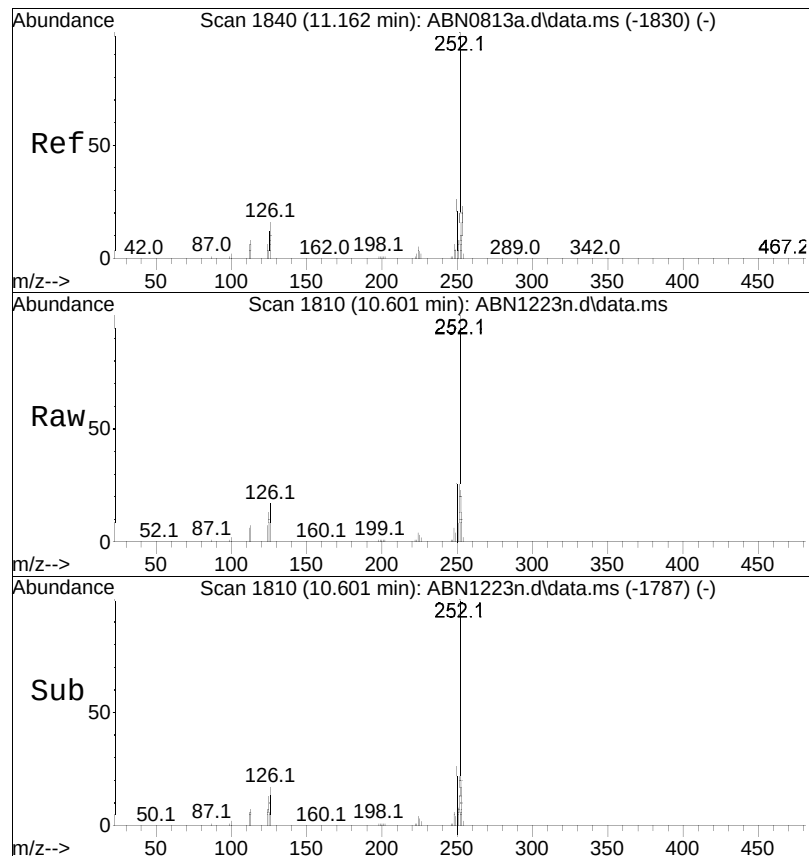




#109  
 Di-n-octylphthalate  
 Concen: 52.05 ug/ml  
 RT: 10.388 min Scan# 1770  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

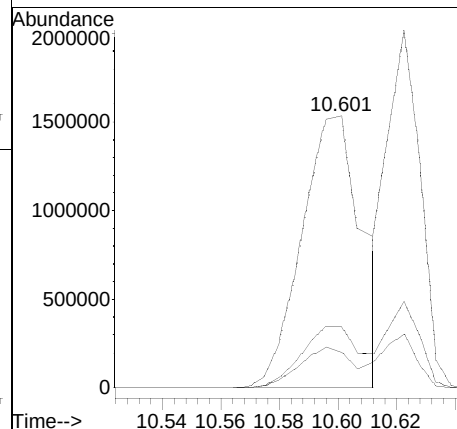
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 43      | 7.3   | 8.0   | 12.0# |
| 167     | 1.2   | 1.0   | 1.6   |

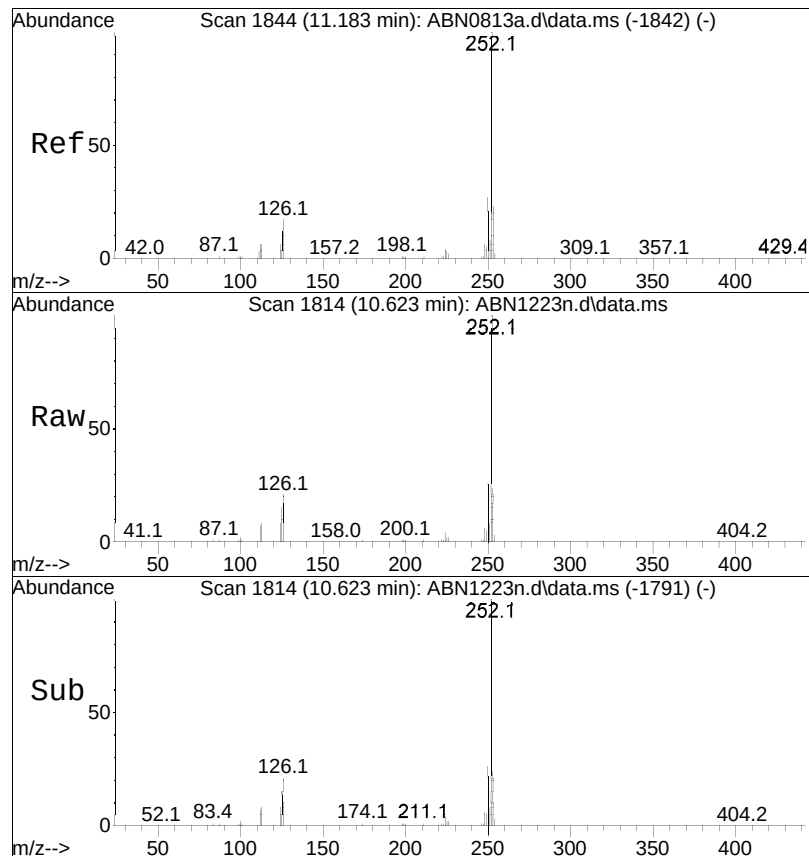




#110  
 Benzo(b)fluoranthene  
 Concen: 54.14 ug/ml  
 RT: 10.601 min Scan# 1810  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

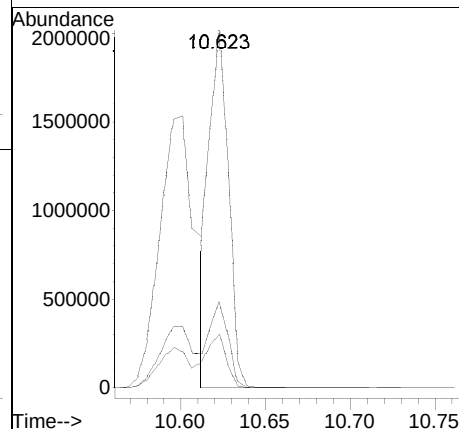
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 2201703 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 125       | 13.0  | 12.6  | 18.8    |
| 253       | 22.7  | 18.2  | 27.2    |

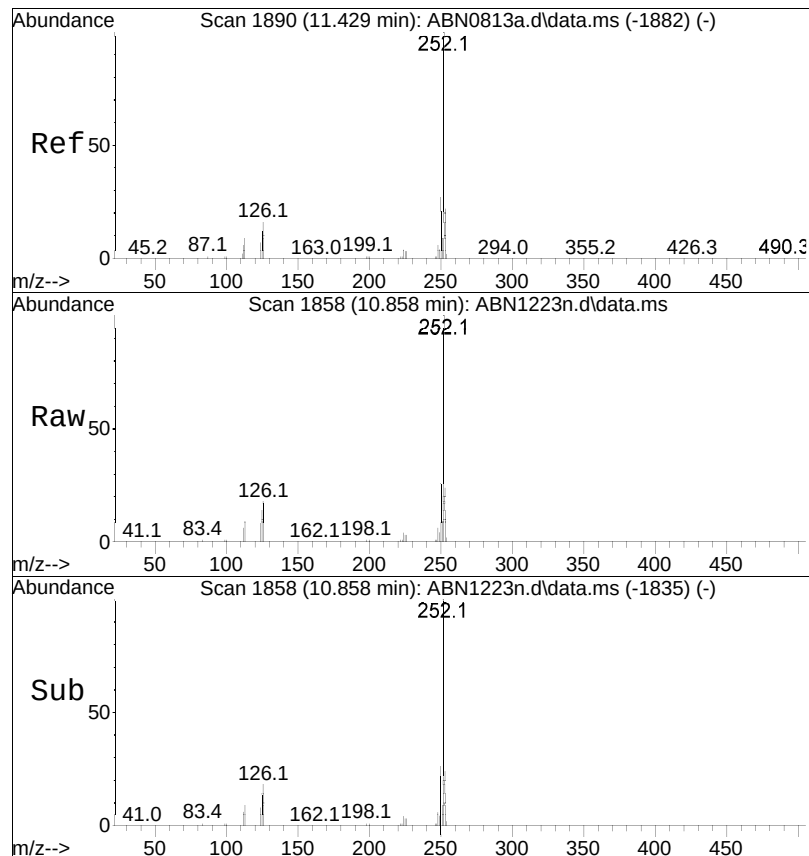




#111  
 Benzo(k)fluoranthene  
 Concen: 41.27 ug/ml  
 RT: 10.623 min Scan# 1814  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

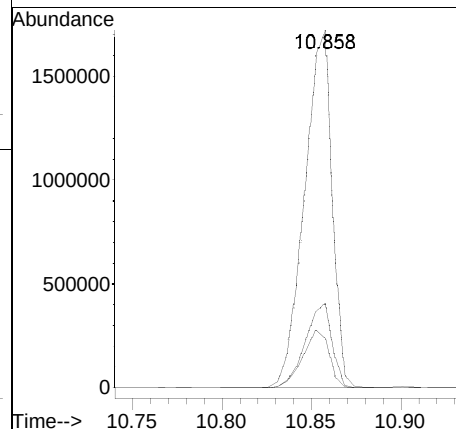
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1581381 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 125       | 16.9  | 12.1  | 18.1    |
| 253       | 23.3  | 18.1  | 27.1    |

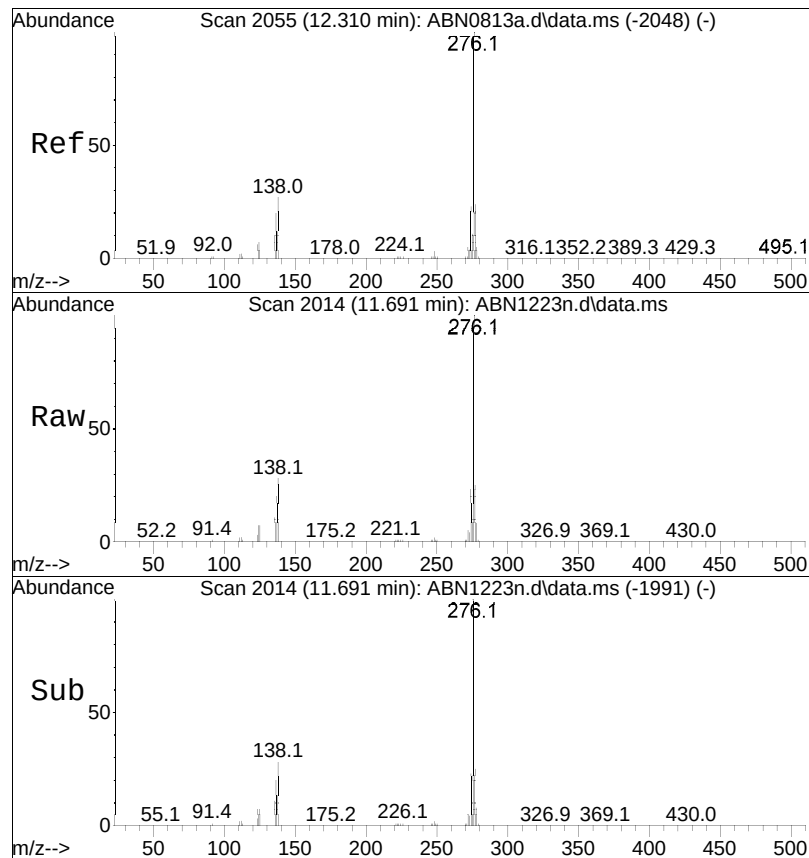




#112  
 Benzo(a)pyrene  
 Concen: 47.15 ug/ml  
 RT: 10.858 min Scan# 1858  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

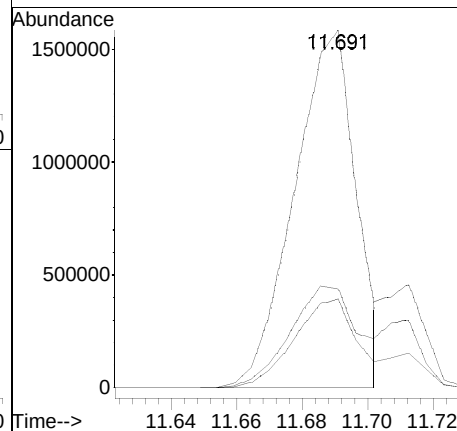
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 252 | 100  |       |       |       |
| 125 | 15.8 | 13.3  | 19.9  |       |
| 253 | 23.1 | 18.2  | 27.4  |       |



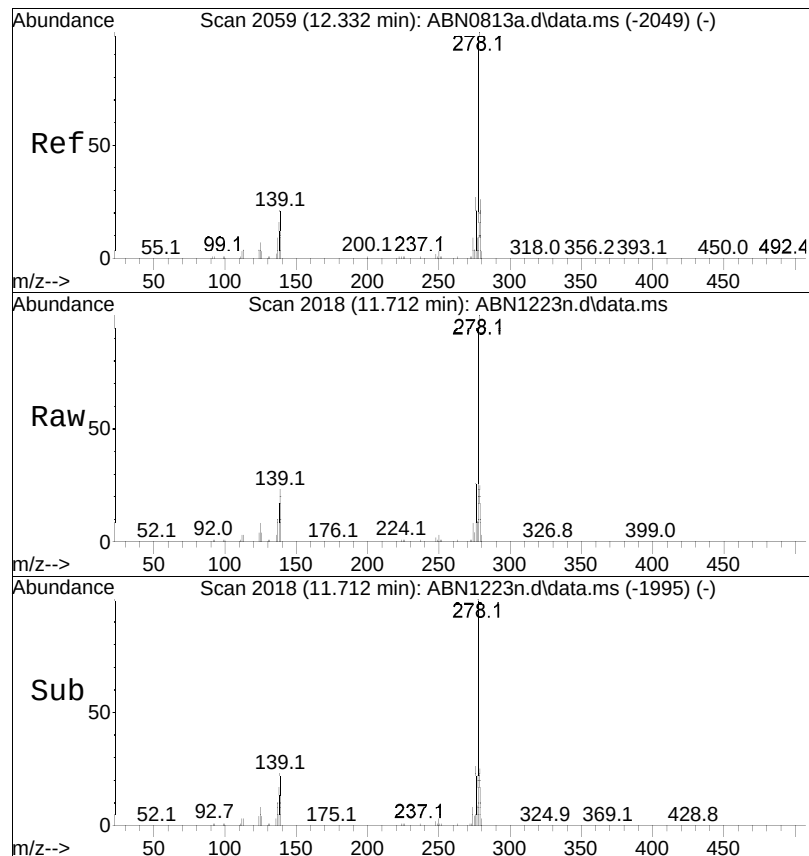


#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 57.06 ug/mL M6  
 RT: 11.691 min Scan# 2014  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 276   | Resp: | 2075558 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 138       | 31.8  | 26.7  | 40.1    |
| 277       | 31.3  | 20.4  | 30.6#   |

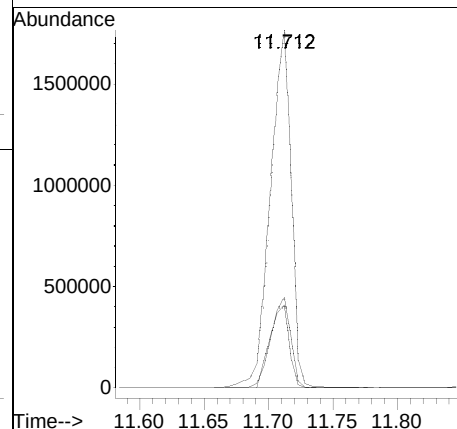


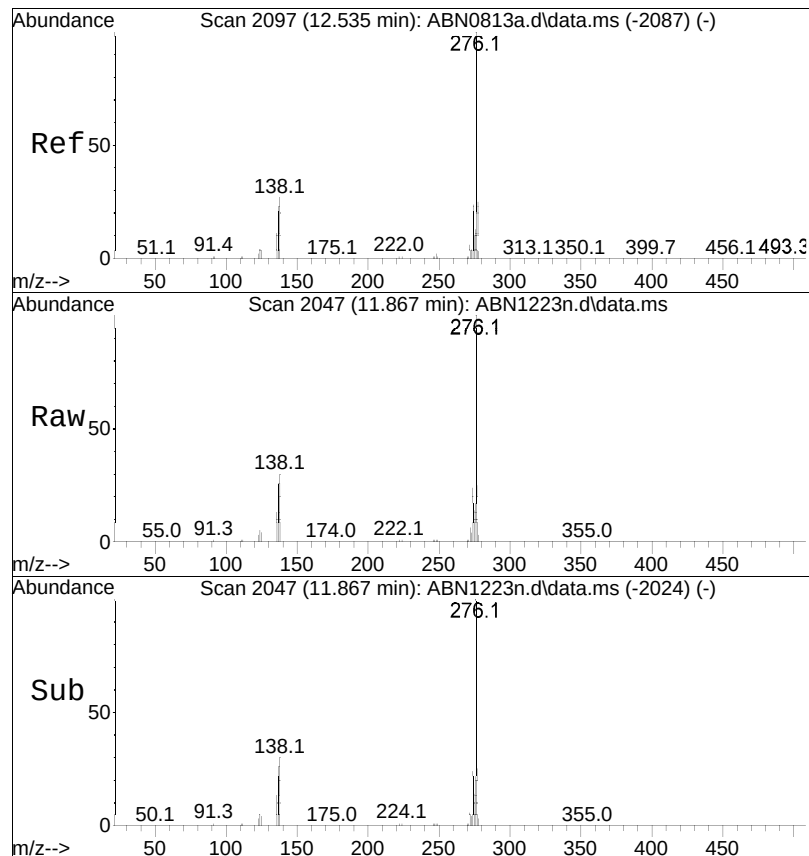




#115  
 Dibenzo(a,h)anthracene  
 Concen: 54.72 ug/ml  
 RT: 11.712 min Scan# 2018  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

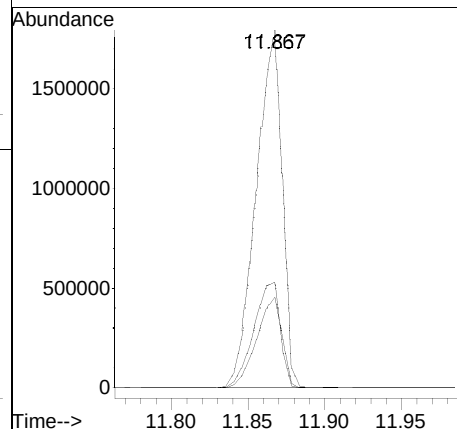
| Tgt | Ion  | Ratio | Resp    | Lower | Upper |
|-----|------|-------|---------|-------|-------|
| 278 | 100  |       | 1957078 |       |       |
| 139 | 21.9 | 18.2  |         | 27.4  |       |
| 279 | 24.4 | 19.3  |         | 28.9  |       |





#116  
 Benzo(ghi)perylene  
 Concen: 53.76 ug/ml  
 RT: 11.867 min Scan# 2047  
 Delta R.T. 0.000 min  
 Lab File: ABN1223n.d  
 Acq: 24 Dec 2019 12:38 am

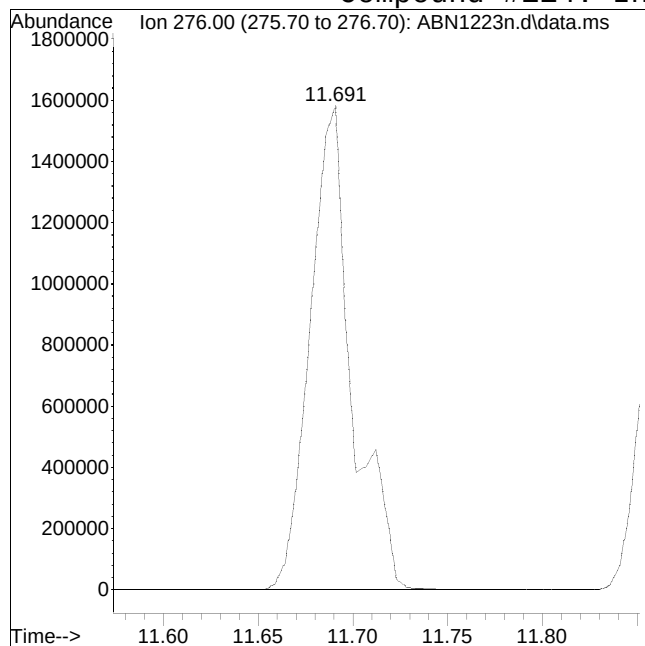
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.3  | 26.1  | 39.1  |
| 277     | 25.0  | 19.4  | 29.0  |



# Manual Integration Report

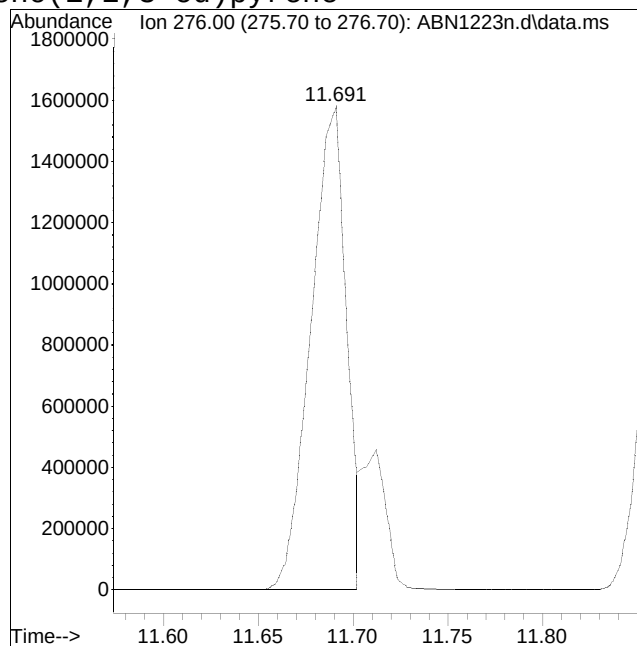
Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : ABN1223n.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 12:38 am Instrument : GCMS5  
Sample : wg1324236-3,32,,ABN CCV LoQuant Date : 12/26/2019 11:50 am

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2453174

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2075558 M6

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : AP91223n.d  
 Acq On : 24 Dec 2019 1:01 am  
 Operator : gcms5:ek  
 Sample : wg1324236-4,32,,AP9 CCV Lot # 8513  
 Misc : wg1324236,,ical15860  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 26 11:53:09 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF    | CCRF   | %Dev   | Area% | Dev(min) |
|-------|----------------------------|----------|--------|--------|-------|----------|
| ----- |                            |          |        |        |       |          |
| 27 I  | IS2_1,4-Dichlorobenzene-d4 | 1.000    | 1.000  | 0.0    | 126   | 0.00     |
| 28 T  | Benzaldehyde               | 0.853    | 1.054  | -23.6# | 144   | 0.00     |
| 29 T  | Acetophenone               | 1.611    | 1.680  | -4.3   | 125   | 0.00     |
| 30 T  | m-Toluidine                | 1.430    | 1.732  | -21.1# | 134   | 0.00     |
| 31 T  | 2-Chloroaniline            | 1.515    | 1.661  | -9.6   | 131   | 0.00     |
|       |                            |          |        |        |       |          |
| 55 I  | IS2_Naphthalene-d8         | 1.000    | 1.000  | 0.0    | 120   | 0.00     |
| 56 T  | a-Terpineol                | 0.233    | 0.231  | 0.9    | 107   | 0.00     |
| 57 T  | 3-Chloroaniline            | 0.126    | 0.116  | 7.9    | 108   | 0.00     |
| 58 T  | 2,6-Dichlorophenol         | 0.289    | 0.338  | -17.0  | 127   | 0.00     |
| 59 T  | 1-chloro-2-nitrobenzene    | 0.127    | 0.138  | -8.7   | 120   | 0.00     |
| 60 T  | Caprolactam                | 0.142    | 0.142  | 0.0    | 112   | 0.00     |
| 61 T  | 1,2,4,5-Tetrachlorobenzene | 0.391    | 0.408  | -4.3   | 124   | 0.00     |
| 62 T  | Biphenyl                   | 0.845    | 0.858  | -1.5   | 122   | 0.00     |
|       |                            |          |        |        |       |          |
| 83 I  | IS2_Acenaphthene-d10       | 1.000    | 1.000  | 0.0    | 112   | 0.00     |
| 84 T  | Dichloran                  | * 50.000 | 61.929 | -23.9# | 142   | 0.00     |
| 85 T  | Pentachloronitrobenzene    | 0.183    | 0.198  | -8.2   | 116   | 0.00     |
|       |                            |          |        |        |       |          |
| 98 I  | IS2_Phenanthrene-d10       | 1.000    | 1.000  | 0.0    | 116   | 0.00     |
| 99 T  | Diphenamid                 | 0.454    | 0.496  | -9.3   | 117   | 0.00     |
| ----- |                            |          |        |        |       |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : AP91223n.d  
 Acq On : 24 Dec 2019 1:01 am  
 Operator : gcms5:ek  
 Sample : wg1324236-4,32,,AP9 CCV Lot # 8513  
 Misc : wg1324236,,ical15860  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 26 11:53:09 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| -----                         |       |      |          |        |       |          |
| Internal Standards            |       |      |          |        |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.587 | 152  | 218924   | 40.000 | ug/ml | 0.00     |
| 55) IS2_Naphthalene-d8        | 4.693 | 136  | 792530   | 40.000 | ug/ml | 0.00     |
| 83) IS2_Acenaphthene-d10      | 6.135 | 164  | 449723   | 40.000 | ug/ml | 0.00     |
| 98) IS2_Phenanthrene-d10      | 7.321 | 188  | 942519   | 40.000 | ug/ml | 0.00     |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 28) Benzaldehyde              | 3.170 | 105  | 288391   | 61.757 | ug/ml  | 87     |
| 29) Acetophenone              | 3.966 | 105  | 459831   | 52.138 | ug/ml# | 86     |
| 30) m-Toluidine               | 4.041 | 106  | 473881   | 60.566 | ug/ml  | 99     |
| 31) 2-Chloroaniline           | 4.362 | 127  | 454515   | 54.822 | ug/ml  | 97     |
| 56) a-Terpineol               | 4.762 | 59   | 228438   | 49.570 | ug/ml  | 100    |
| 57) 3-Chloroaniline           | 4.773 | 65   | 114934   | 46.159 | ug/ml  | 75     |
| 58) 2,6-Dichlorophenol        | 4.794 | 162  | 334989   | 58.577 | ug/ml  | 99     |
| 59) 1-chloro-2-nitrobenzene   | 5.008 | 111  | 136978   | 54.300 | ug/ml  | 85     |
| 60) Caprolactam               | 5.061 | 55   | 140325   | 49.928 | ug/ml# | 89     |
| 61) 1,2,4,5-Tetrachloroben... | 5.441 | 216  | 403969   | 52.098 | ug/ml  | 99     |
| 62) Biphenyl                  | 5.692 | 154  | 849506   | 50.724 | ug/ml  | 100    |
| 84) Dichloran                 | 7.075 | 206  | 133236   | 61.929 | ug/ml# | 80     |
| 85) Pentachloronitrobenzene   | 7.198 | 237  | 111415   | 54.141 | ug/ml# | 88     |
| 99) Diphenamid                | 8.133 | 167  | 584310   | 54.575 | ug/ml# | 82     |

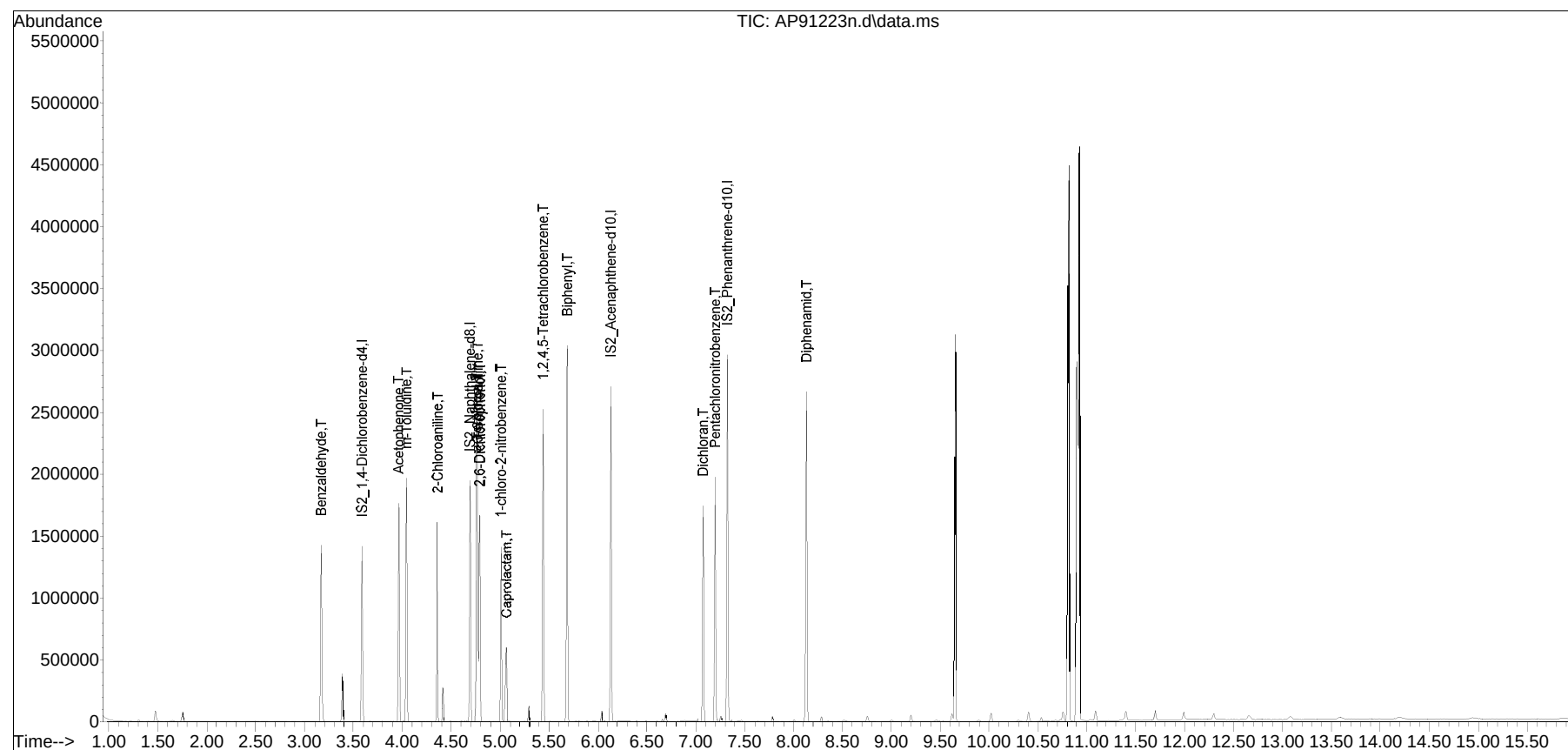
(#) = qualifier out of range (m) = manual integration (+) = signals summed

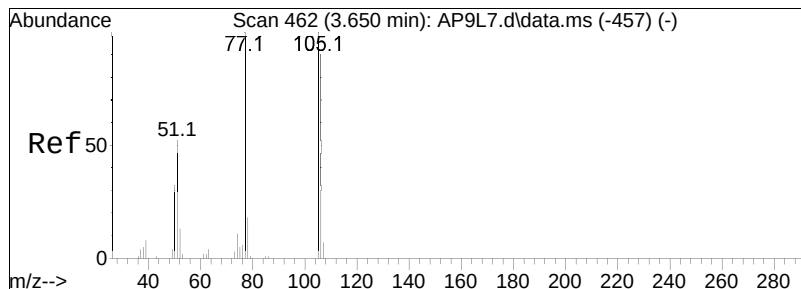
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : AP91223n.d  
 Acq On : 24 Dec 2019 1:01 am  
 Operator : gcms5:ek  
 Sample : wg1324236-4,32,,AP9 CCV Lot # 8513  
 Misc : wg1324236,,ical15860  
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Dec 26 11:53:09 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

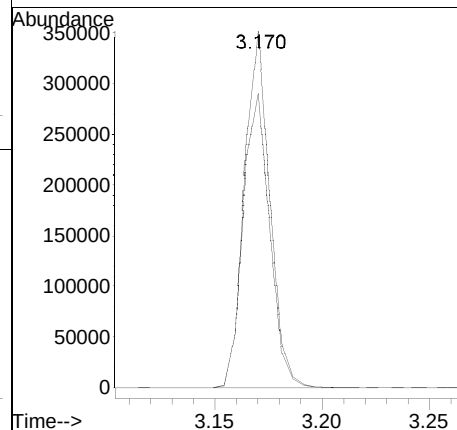
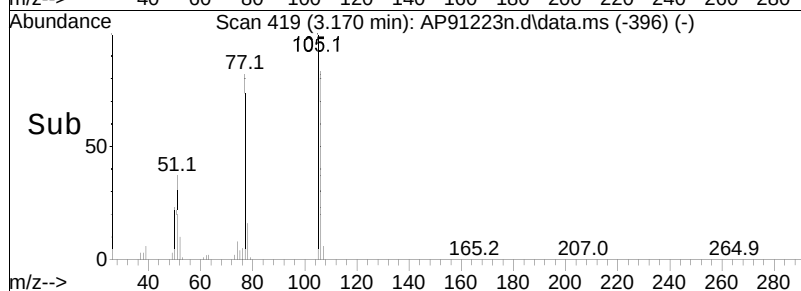
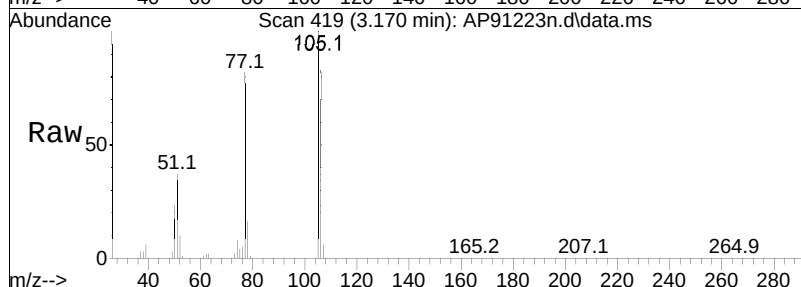
Sub List : AP9ical - AP9 ical sublist

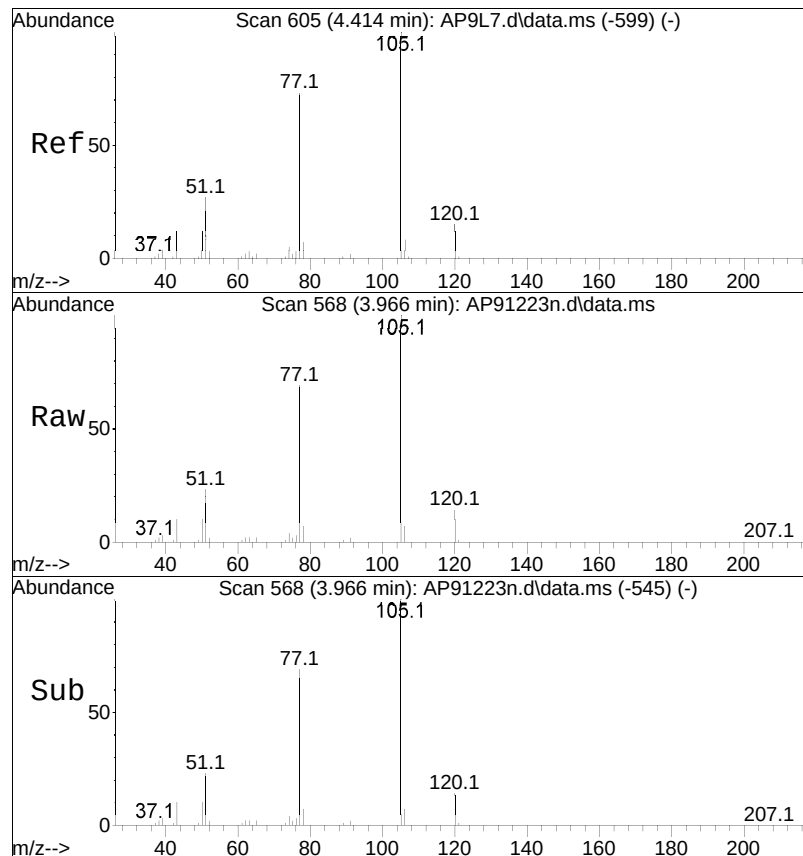




#28  
Benzaldehyde  
Concen: 61.76 ug/ml  
RT: 3.170 min Scan# 419  
Delta R.T. 0.000 min  
Lab File: AP91223n.d  
Acq: 24 Dec 2019 1:01 am

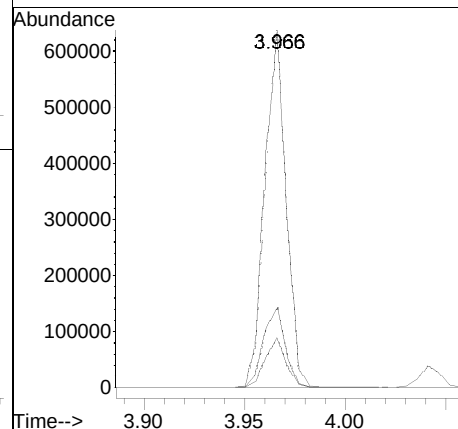
Tgt Ion:105 Resp: 288391  
Ion Ratio Lower Upper  
105 100  
77 86.6 79.3 118.9



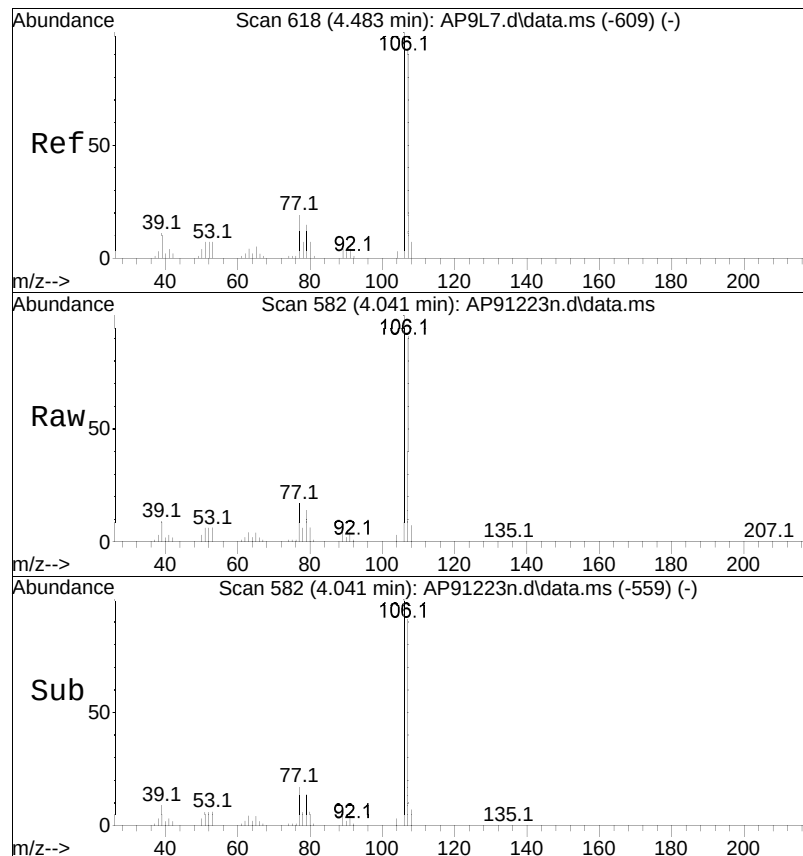


#29  
 Acetophenone  
 Concen: 52.14 ug/ml  
 RT: 3.966 min Scan# 568  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 459831 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 13.8  | 17.4  | 26.2#  |
| 51        | 23.4  | 23.8  | 35.6#  |

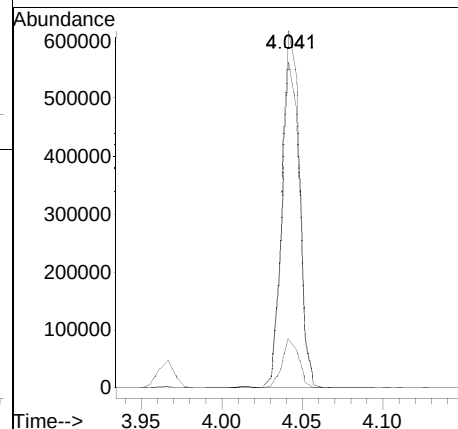


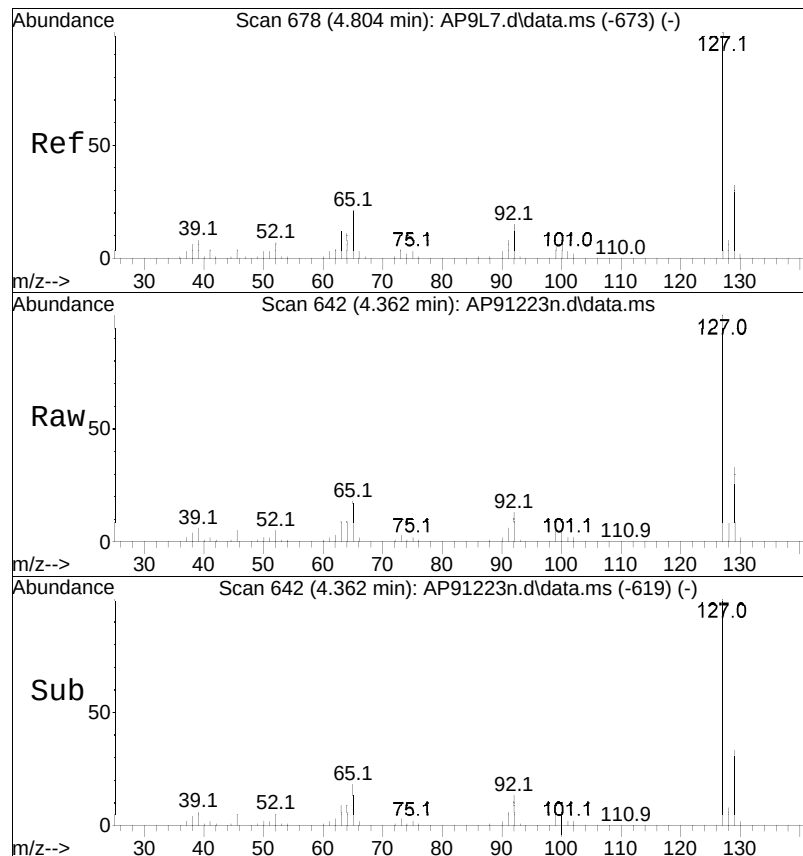




#30  
 m-Toluidine  
 Concen: 60.57 ug/ml  
 RT: 4.041 min Scan# 582  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

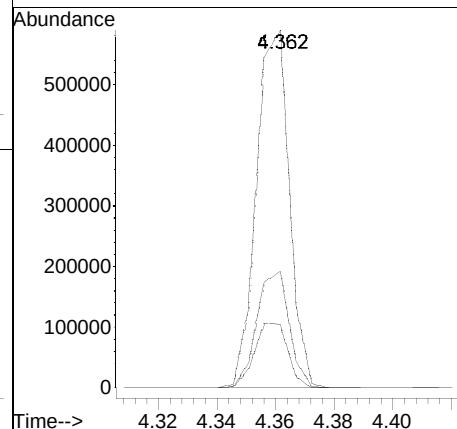
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 106   | Resp: | 473881 |
| Ion Ratio | Lower | Upper |        |
| 106       | 100   |       |        |
| 107       | 90.8  | 72.5  | 108.7  |
| 79        | 13.0  | 11.4  | 17.2   |

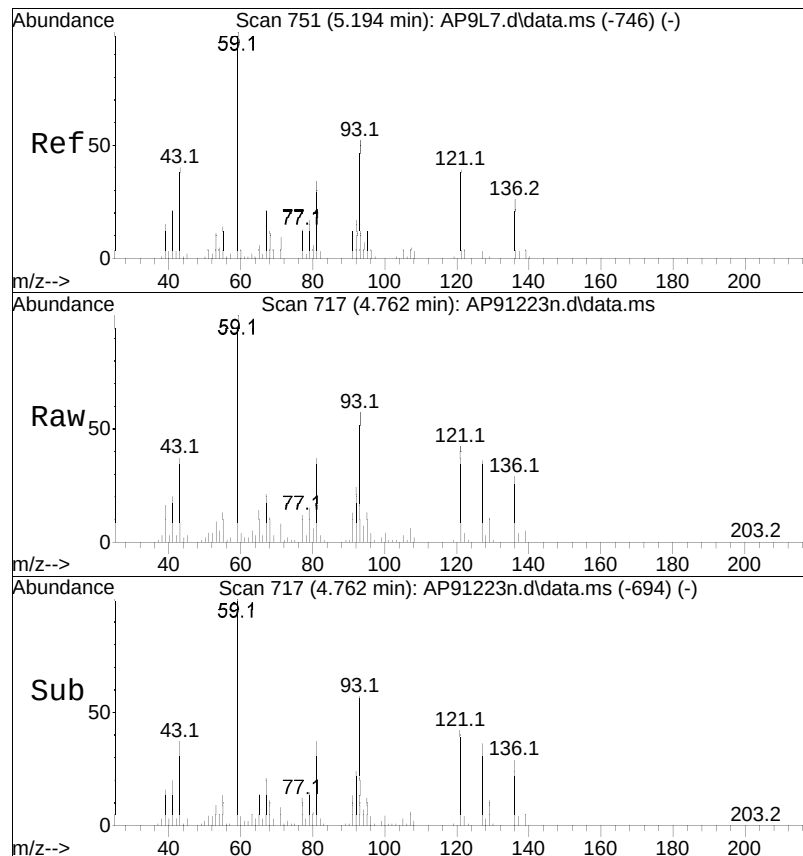




#31  
 2-Chloroaniline  
 Concen: 54.82 ug/ml  
 RT: 4.362 min Scan# 642  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

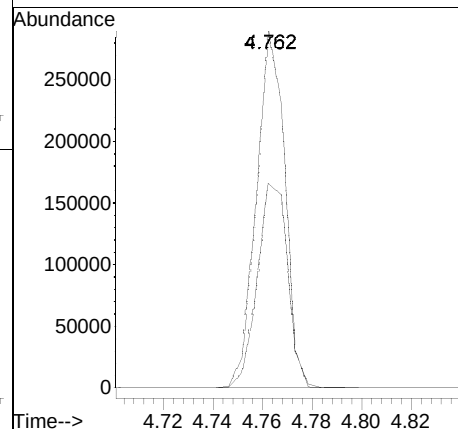
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 127   | Resp: | 454515 |
| Ion Ratio | Lower | Upper |        |
| 127       | 100   |       |        |
| 129       | 32.3  | 25.5  | 38.3   |
| 65        | 18.6  | 17.3  | 25.9   |

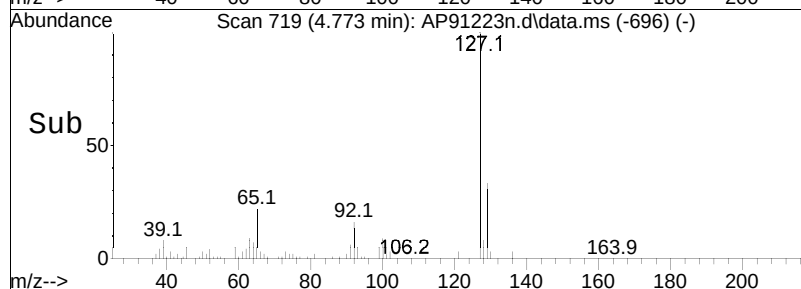
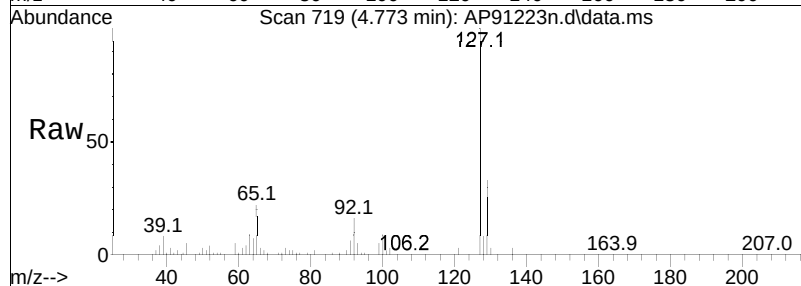
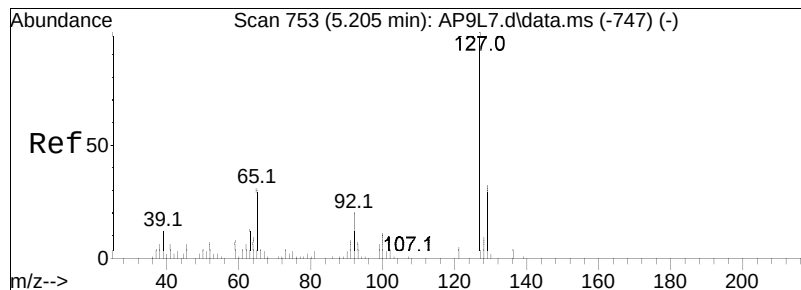




#56  
a-Terpineol  
Concen: 49.57 ug/ml  
RT: 4.762 min Scan# 717  
Delta R.T. 0.000 min  
Lab File: AP91223n.d  
Acq: 24 Dec 2019 1:01 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 93      | 61.4  | 49.3  | 73.9  |





#57

3-Chloroaniline

Concen: 46.16 ug/ml

RT: 4.773 min Scan# 719

Delta R.T. 0.000 min

Lab File: AP91223n.d

Acq: 24 Dec 2019 1:01 am

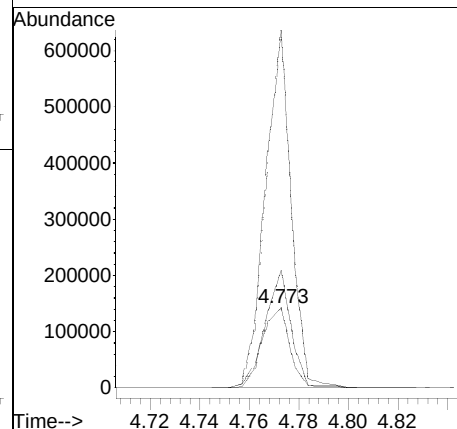
Tgt Ion: 65 Resp: 114934

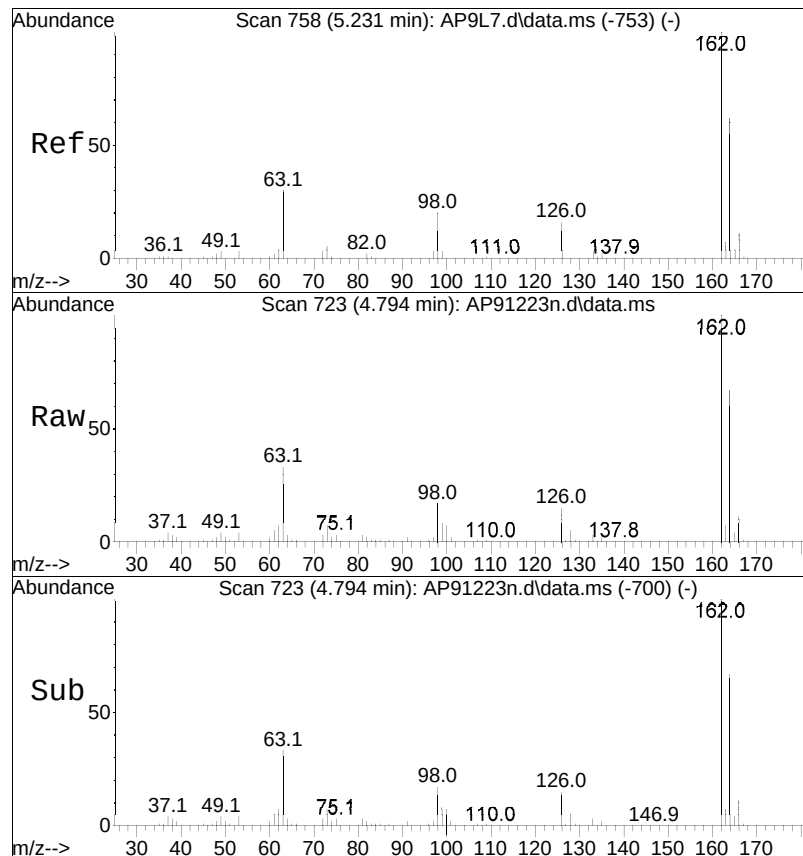
Ion Ratio Lower Upper

65 100

127 393.6 269.3 403.9

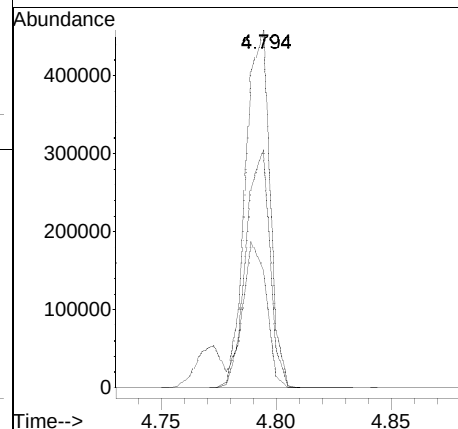
129 129.0 88.2 132.4

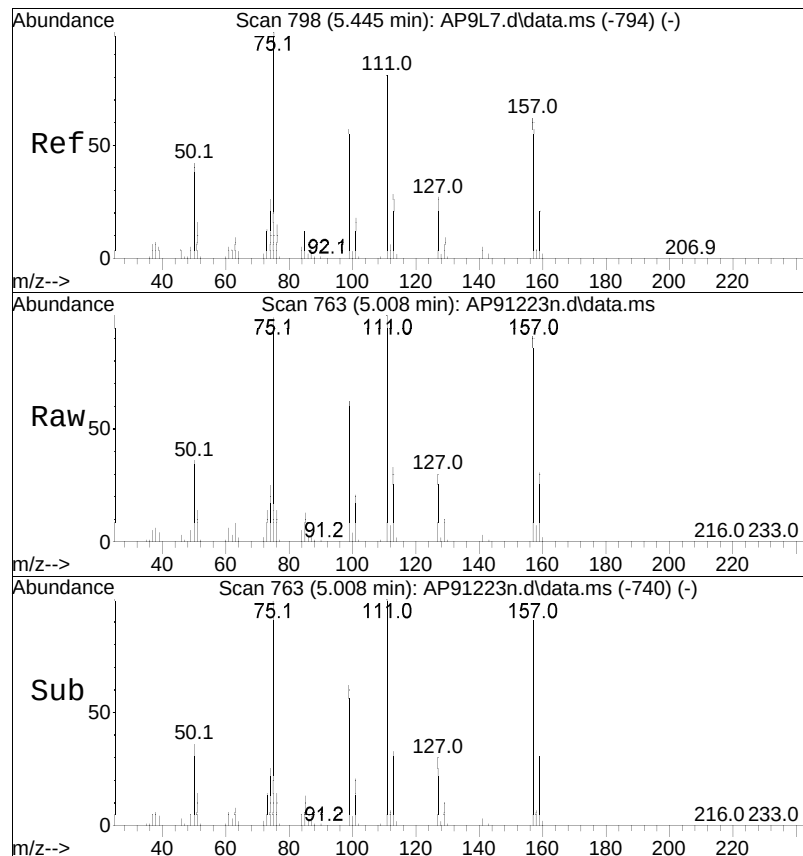




#58  
 2,6-Dichlorophenol  
 Concen: 58.58 ug/ml  
 RT: 4.794 min Scan# 723  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

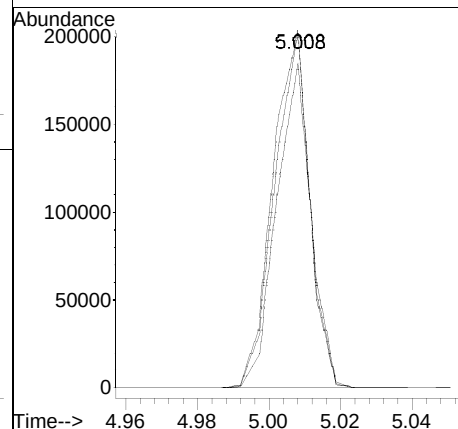
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 334989 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 65.2  | 51.8  | 77.6   |
| 63        | 52.6  | 41.7  | 62.5   |

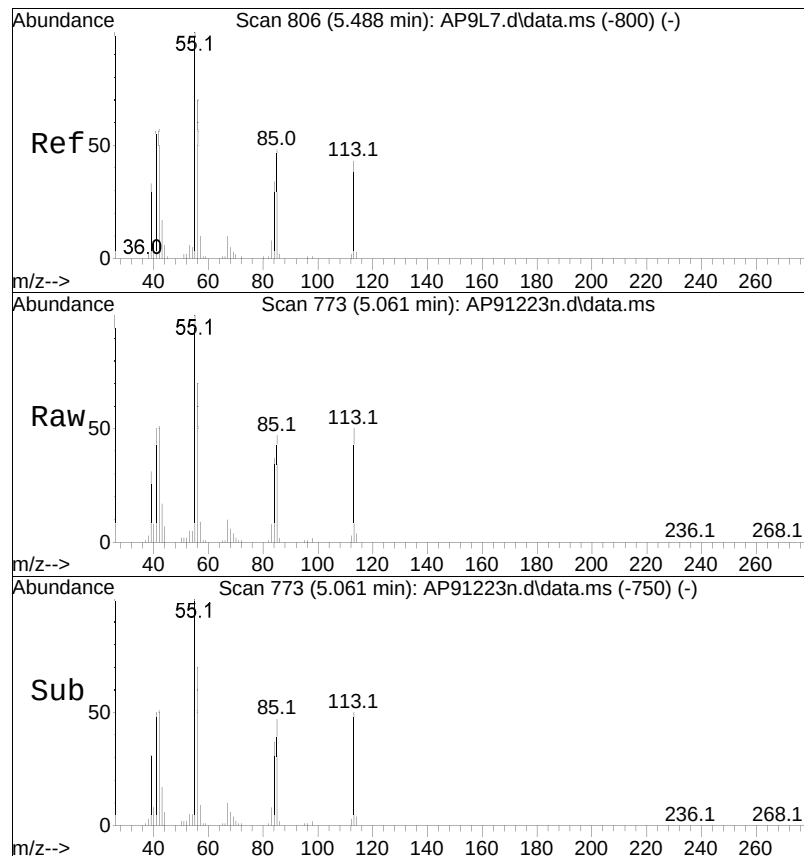




#59  
 1-chloro-2-nitrobenzene  
 Concen: 54.30 ug/ml  
 RT: 5.008 min Scan# 763  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

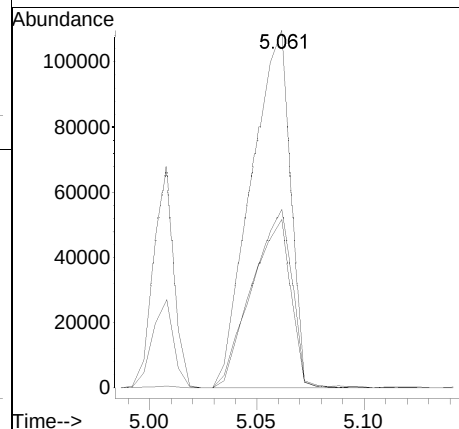
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 111   | Resp: | 136978 |
| Ion Ratio | Lower | Upper |        |
| 111       | 100   |       |        |
| 157       | 89.7  | 67.6  | 101.4  |
| 75        | 104.4 | 102.5 | 153.7  |

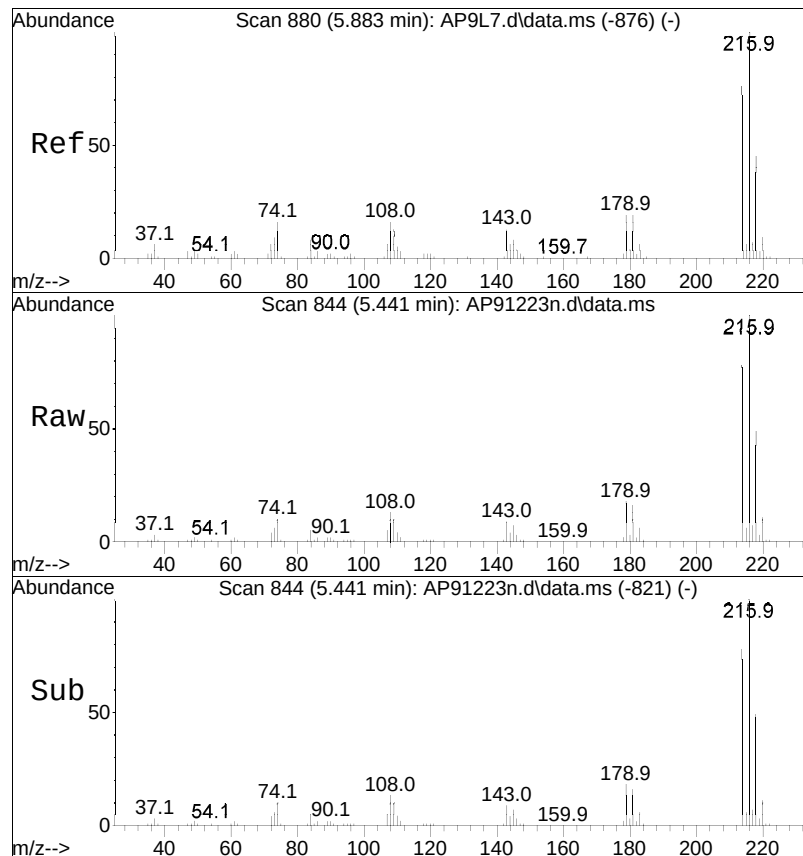




#60  
 Caprolactam  
 Concen: 49.93 ug/ml  
 RT: 5.061 min Scan# 773  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

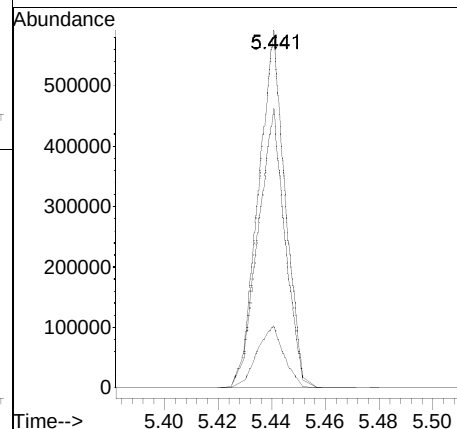
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 55    | Resp: | 140325 |
| Ion Ratio | Lower | Upper |        |
| 55        | 100   |       |        |
| 85        | 47.5  | 36.6  | 54.8   |
| 113       | 50.1  | 50.2  | 75.2#  |



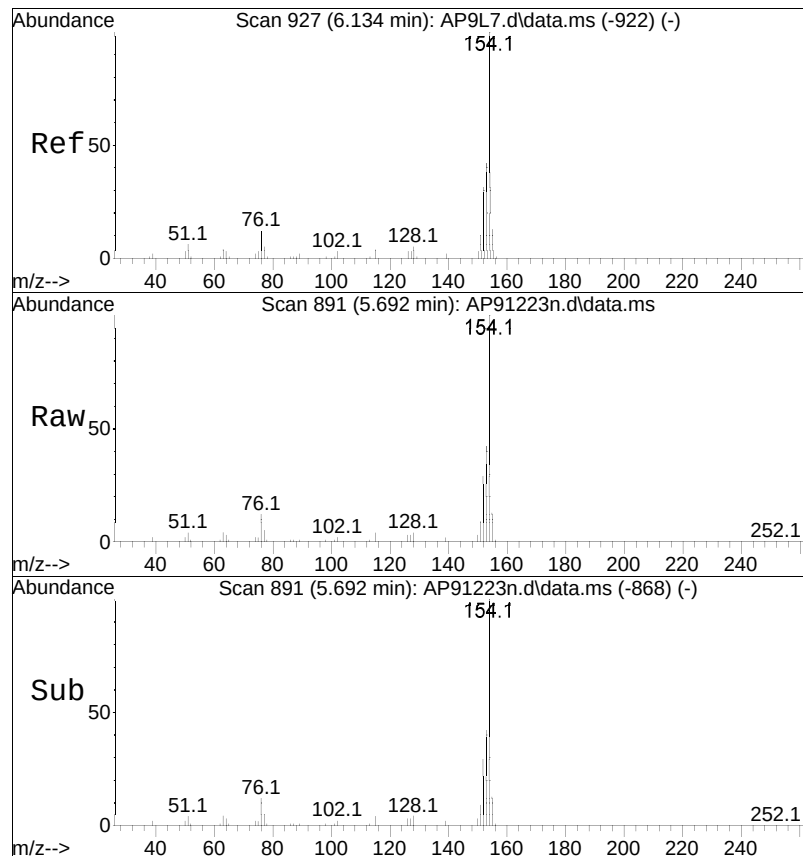


#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 52.10 ug/ml  
 RT: 5.441 min Scan# 844  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:216 | Resp: | 403969 |
| Ion | Ratio   | Lower | Upper  |
| 216 | 100     |       |        |
| 214 | 78.9    | 63.0  | 94.4   |
| 179 | 17.7    | 15.3  | 22.9   |

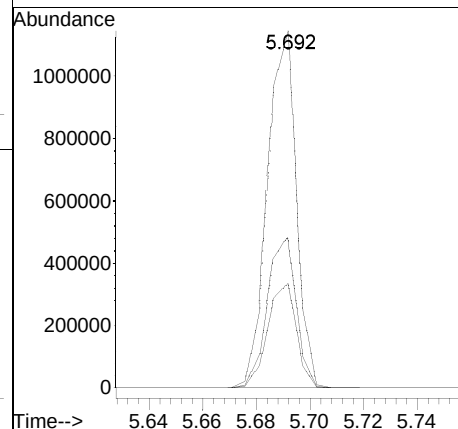


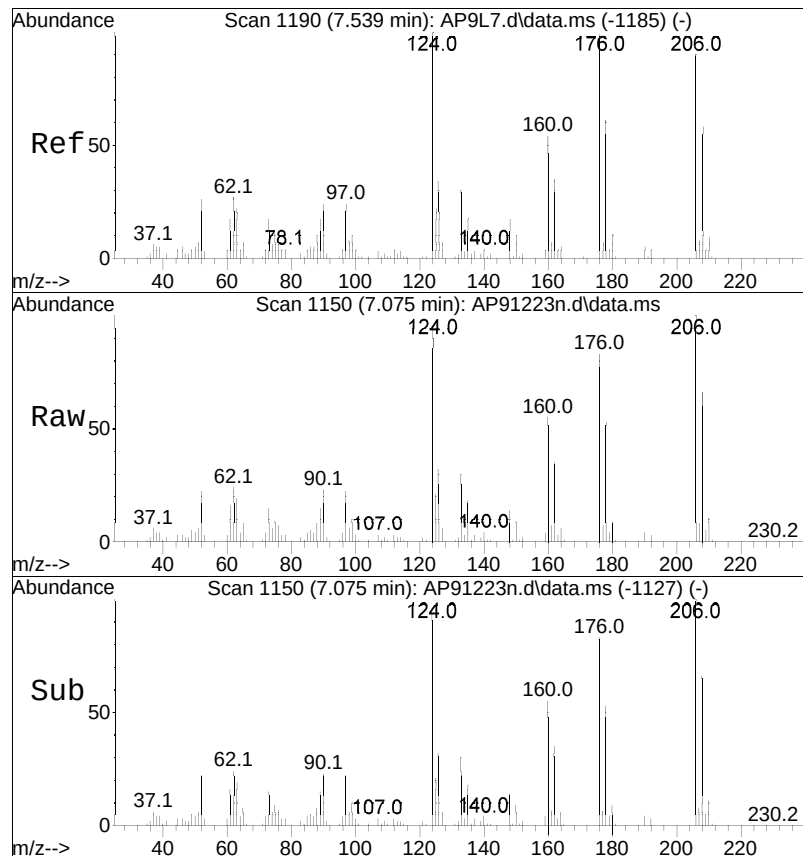




#62  
 Biphenyl  
 Concen: 50.72 ug/ml  
 RT: 5.692 min Scan# 891  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

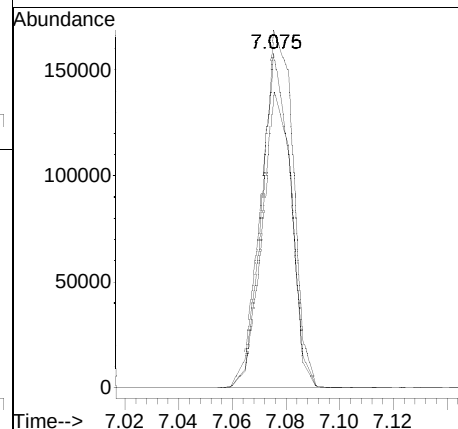
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 849506 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 42.3  | 33.8  | 50.8   |
| 152       | 29.4  | 23.0  | 34.6   |

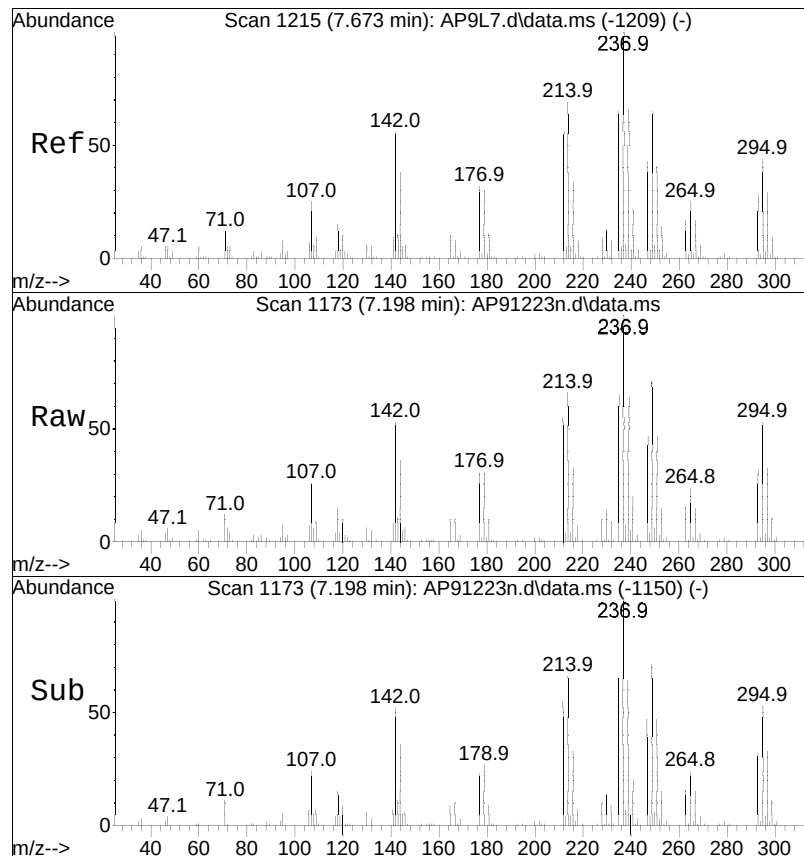




#84  
 Dichloran  
 Concen: 61.93 ug/ml  
 RT: 7.075 min Scan# 1150  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

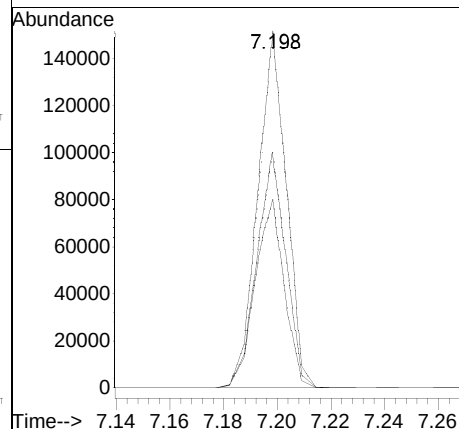
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:206 | Resp: | 133236 |
| Ion | Ratio   | Lower | Upper  |
| 206 | 100     |       |        |
| 176 | 80.7    | 82.7  | 124.1# |
| 124 | 89.6    | 86.2  | 129.4  |

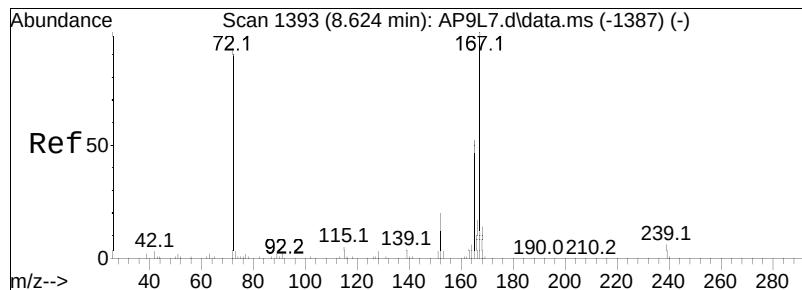




#85  
 Pentachloronitrobenzene  
 Concen: 54.14 ug/ml  
 RT: 7.198 min Scan# 1173  
 Delta R.T. 0.000 min  
 Lab File: AP91223n.d  
 Acq: 24 Dec 2019 1:01 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:237 | Resp: | 111415 |
| Ion | Ratio   | Lower | Upper  |
| 237 | 100     |       |        |
| 142 | 53.9    | 57.4  | 86.2#  |
| 214 | 67.1    | 55.0  | 82.6   |





#99

Diphenamid

Concen: 54.57 ug/ml

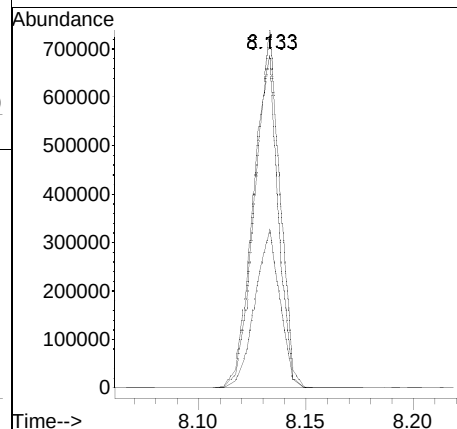
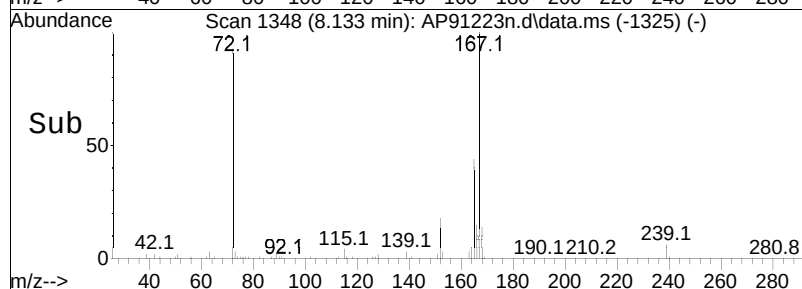
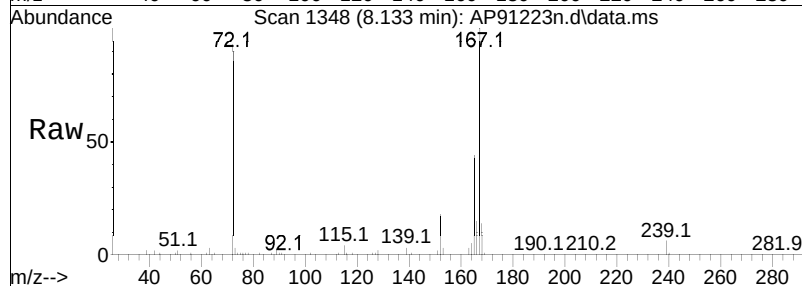
RT: 8.133 min Scan# 1348

Delta R.T. 0.000 min

Lab File: AP91223n.d

Acq: 24 Dec 2019 1:01 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 584310 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 72        | 94.7  | 95.0  | 142.6# |
| 165       | 44.8  | 40.4  | 60.6   |



# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : AP91223n.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 1:01 am Instrument : GCMS5  
Sample : wg1324236-4,32,,AP9 CCV LoQuant Date : 12/26/2019 11:52 am

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ADP1223n.d  
 Acq On : 24 Dec 2019 1:23 am  
 Operator : gcms5:ek  
 Sample : wg1324236-5,32,,ADP CCV Lot # 8502  
 Misc : wg1324236,,ical15860  
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 26 11:52:08 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:51:33 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF    | CCRF   | %Dev | Area% | Dev(min) |
|-------|----------------------------|----------|--------|------|-------|----------|
| 32 I  | IS3_1,4-Dichlorobenzene-d4 | 1.000    | 1.000  | 0.0  | 130   | 0.00     |
| 33 T  | 1,4-Dioxane                | 0.423    | 0.464  | -9.7 | 140   | 0.00     |
| 34 T  | n-Decane                   | 1.099    | 0.891  | 18.9 | 105   | 0.00     |
| 86 I  | IS3_Acenaphthene-d10       | 1.000    | 1.000  | 0.0  | 124   | 0.00     |
| 87 T  | Atrazine                   | * 50.000 | 53.070 | -6.1 | 130   | 0.00     |
| 100 I | IS3_Phenanthrene-d10       | 1.000    | 1.000  | 0.0  | 127   | 0.00     |
| 101 T | n-Octadecane               | 0.358    | 0.290  | 19.0 | 93    | 0.00     |
| 102 T | Parathion                  | * 50.000 | 54.592 | -9.2 | 139   | 0.00     |
| 103 T | 3,3'-Dimethylbenzidine     | * 50.000 | 53.583 | -7.2 | 131   | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : ADP1223n.d  
 Acq On : 24 Dec 2019 1:23 am  
 Operator : gcms5:ek  
 Sample : wg1324236-5,32,,ADP CCV Lot # 8502  
 Misc : wg1324236,,ical15860  
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 26 11:52:08 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:51:33 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| -----                         |       |      |          |        |       |          |
| Internal Standards            |       |      |          |        |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.587 | 152  | 228352   | 40.000 | ug/ml | 0.00     |
| 86) IS3_Acenaphthene-d10      | 6.135 | 164  | 468017   | 40.000 | ug/ml | 0.00     |
| 100) IS3_Phenanthrene-d10     | 7.321 | 188  | 989066   | 40.000 | ug/ml | 0.00     |

## System Monitoring Compounds

| Target Compounds            | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-----------------------------|-------|------|----------|--------|-------|--------|
| 33) 1,4-Dioxane             | 1.018 | 88   | 132489   | 54.853 | ug/ml | 98     |
| 34) n-Decane                | 3.507 | 57   | 254451   | 40.542 | ug/ml | 98     |
| 87) Atrazine                | 7.156 | 200  | 217318   | 53.070 | ug/ml | 92     |
| 101) n-Octadecane           | 7.337 | 57   | 359091   | 40.555 | ug/ml | 94     |
| 102) Parathion              | 8.027 | 109  | 153999   | 54.592 | ug/ml | 90     |
| 103) 3,3'-Dimethylbenzidine | 9.180 | 212  | 996202   | 53.583 | ug/ml | 99     |

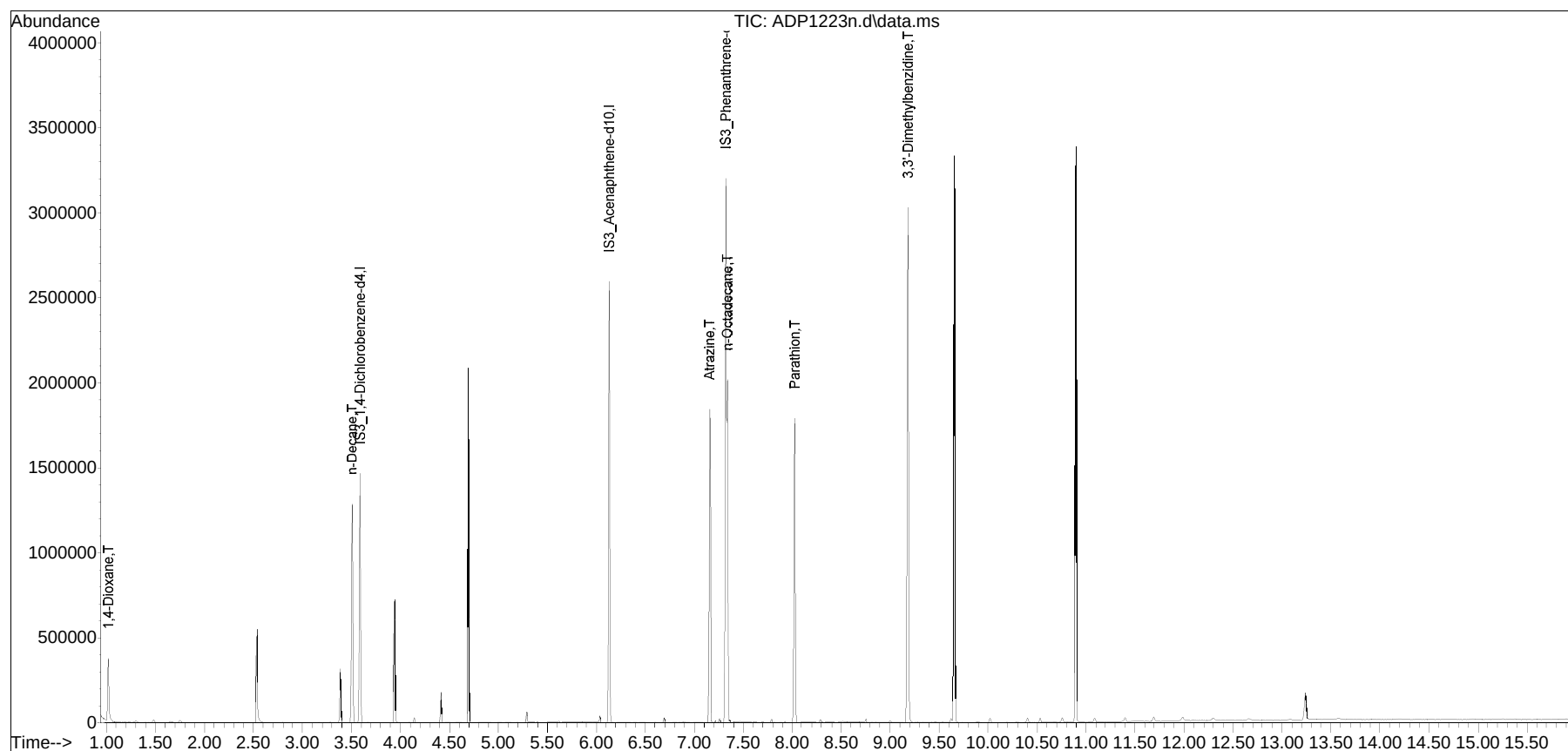
(#) = qualifier out of range (m) = manual integration (+) = signals summed

# Quantitation Report (QT Reviewed)

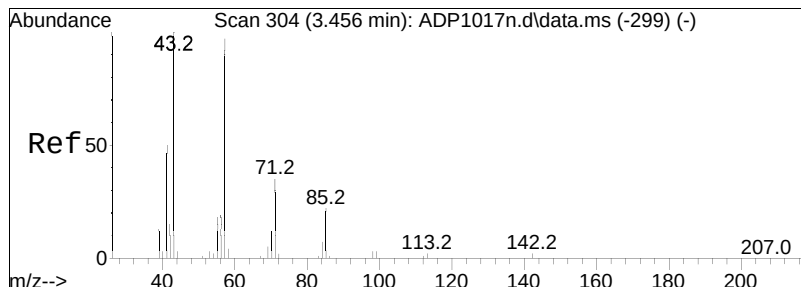
Data Path : I:\8270\GCMS5\191223n\  
 Data File : ADP1223n.d  
 Acq On : 24 Dec 2019 1:23 am  
 Operator : gcms5:ek  
 Sample : wg1324236-5,32,,ADP CCV Lot # 8502  
 Misc : wg1324236,,ical15860  
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Dec 26 11:52:08 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:51:33 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublist

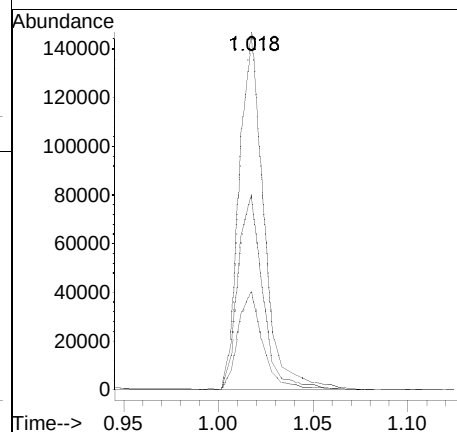
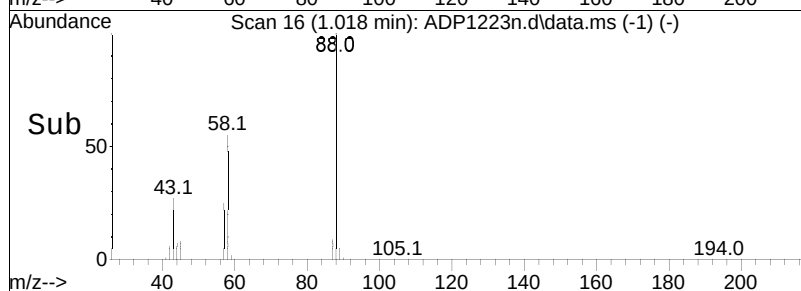
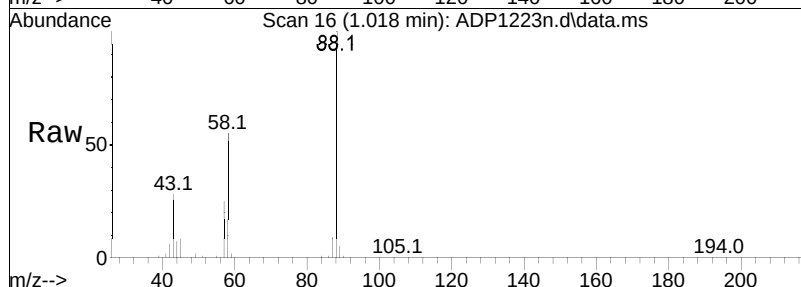


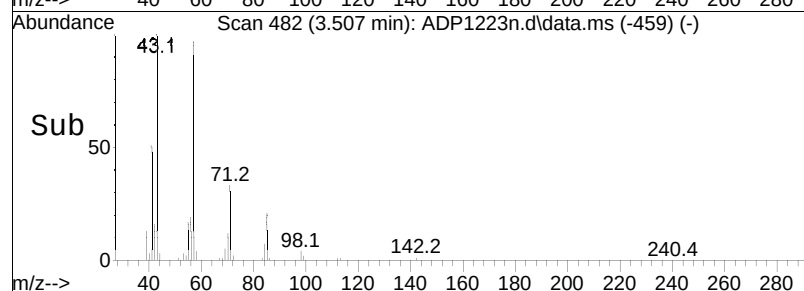
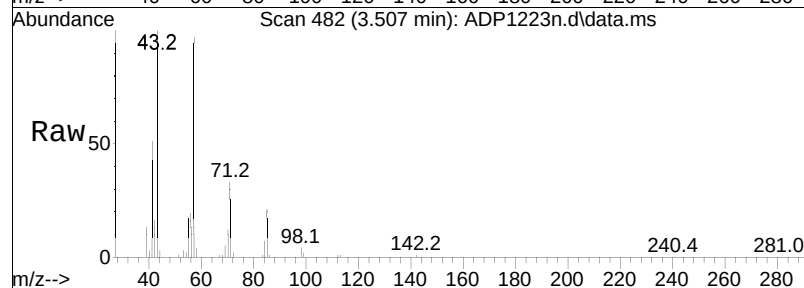
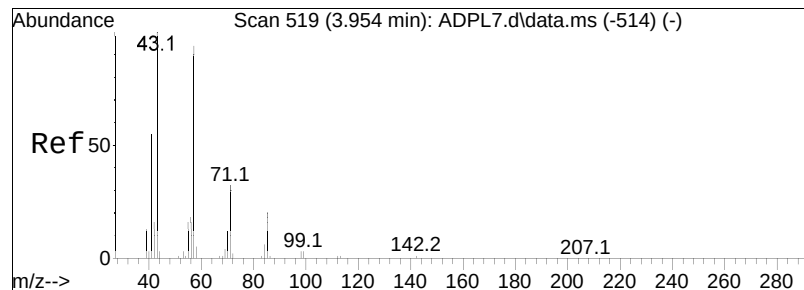




#33  
 1,4-Dioxane  
 Concen: 54.85 ug/ml  
 RT: 1.018 min Scan# 16  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.d  
 Acq: 24 Dec 2019 1:23 am

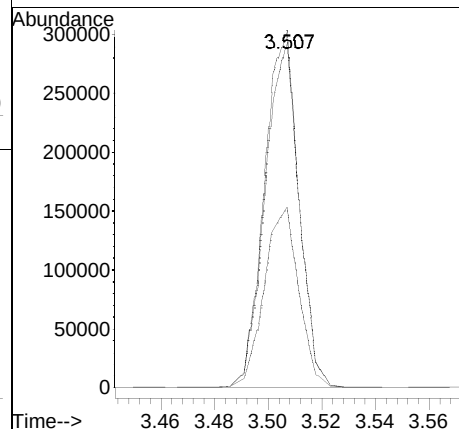
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 88    | Resp: | 132489 |
| Ion Ratio | Lower | Upper |        |
| 88        | 100   |       |        |
| 58        | 55.0  | 44.8  | 67.2   |
| 43        | 28.4  | 20.8  | 31.2   |

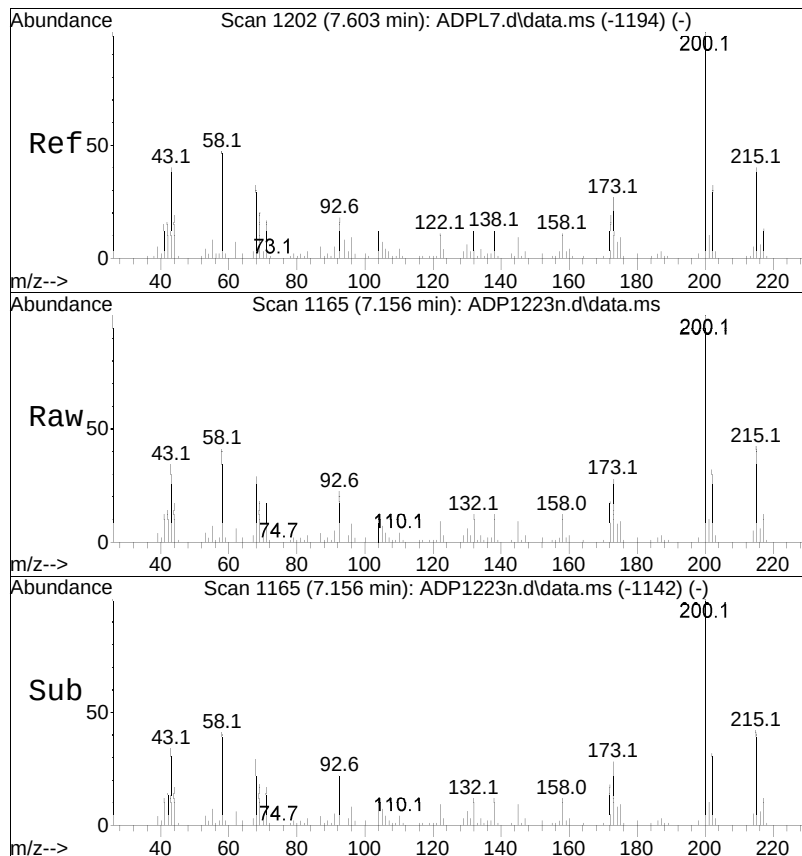




#34  
 n-Decane  
 Concen: 40.54 ug/ml  
 RT: 3.507 min Scan# 482  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.d  
 Acq: 24 Dec 2019 1:23 am

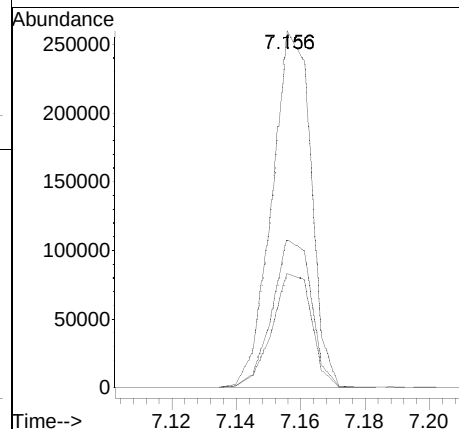
| Tgt | Ion   | Resp   | Lower | Upper |
|-----|-------|--------|-------|-------|
| 57  | 100   | 254451 |       |       |
| 43  | 104.5 | 84.2   | 126.2 |       |
| 41  | 53.5  | 45.8   | 68.8  |       |

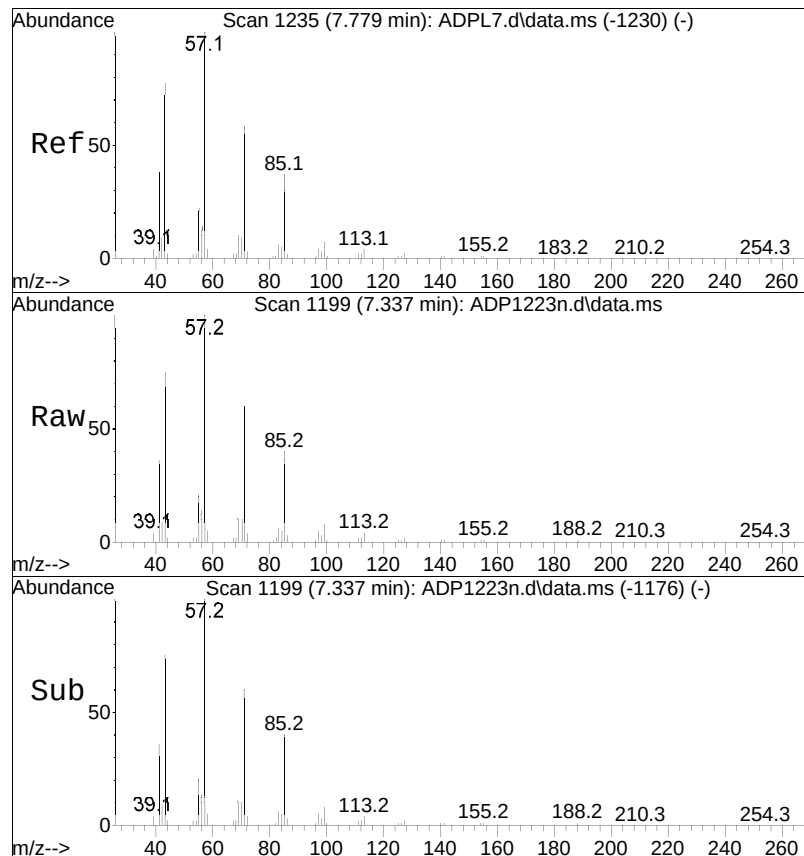




#87  
 Atrazine  
 Concen: 53.07 ug/ml  
 RT: 7.156 min Scan# 1165  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.d  
 Acq: 24 Dec 2019 1:23 am

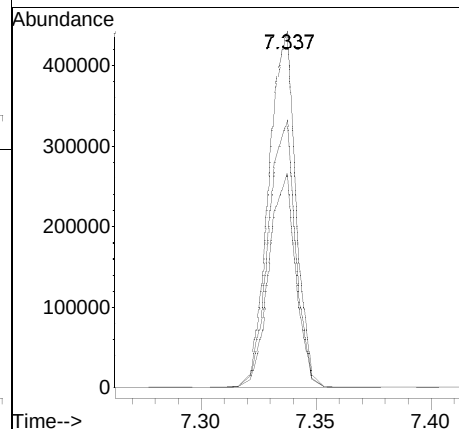
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 200     | 100   | 217318 |       |       |
| 202     | 32.6  |        | 25.8  | 38.8  |
| 215     | 41.7  |        | 40.3  | 60.5  |

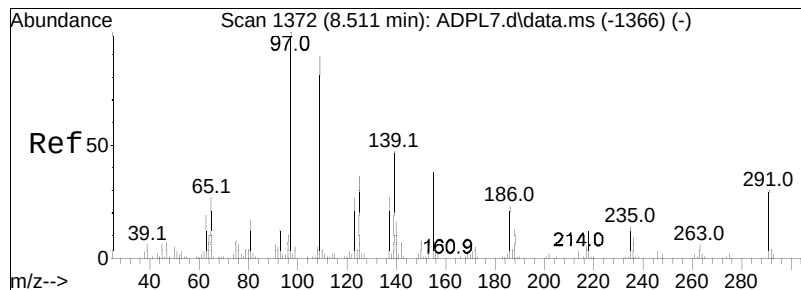




#101  
 n-Octadecane  
 Concen: 40.55 ug/ml  
 RT: 7.337 min Scan# 1199  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.d  
 Acq: 24 Dec 2019 1:23 am

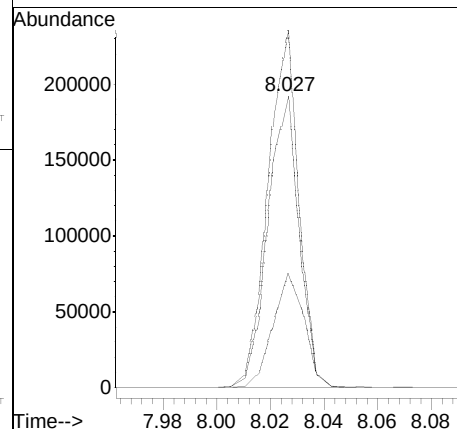
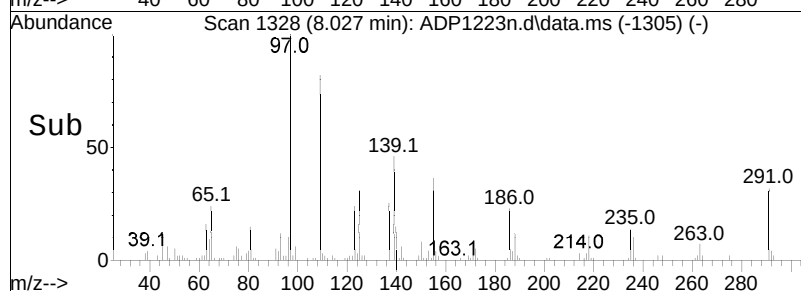
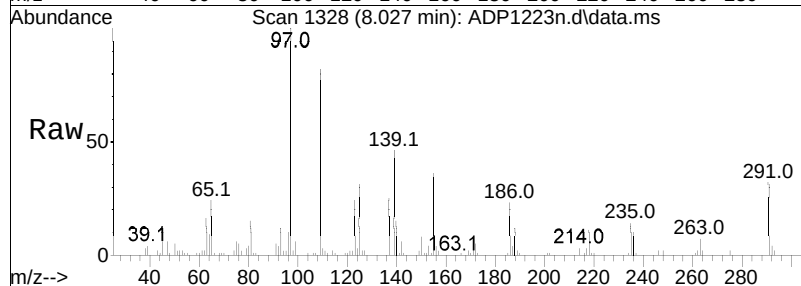
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 57 | Resp: | 359091 |
| Ion | Ratio   | Lower | Upper  |
| 57  | 100     |       |        |
| 43  | 75.1    | 65.0  | 97.4   |
| 71  | 59.5    | 50.5  | 75.7   |

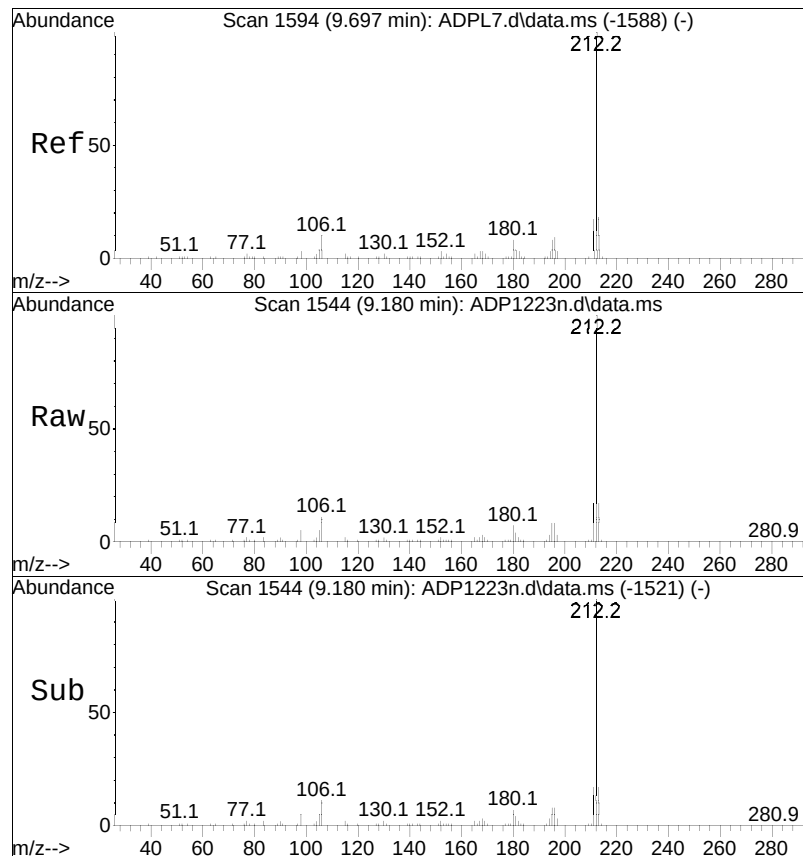




#102  
 Parathion  
 Concen: 54.59 ug/ml  
 RT: 8.027 min Scan# 1328  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.d  
 Acq: 24 Dec 2019 1:23 am

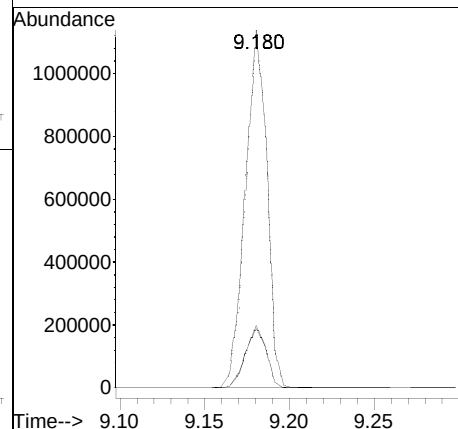
| Tgt Ion   | 109   | Resp  | 153999 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 109       | 100   |       |        |
| 97        | 120.9 | 88.6  | 133.0  |
| 291       | 39.4  | 36.5  | 54.7   |





#103  
 3,3'-Dimethylbenzidine  
 Concen: 53.58 ug/ml  
 RT: 9.180 min Scan# 1544  
 Delta R.T. 0.000 min  
 Lab File: ADP1223n.d  
 Acq: 24 Dec 2019 1:23 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 211     | 16.8  | 13.2  | 19.8  |
| 213     | 16.7  | 13.9  | 20.9  |



# Manual Integration Report

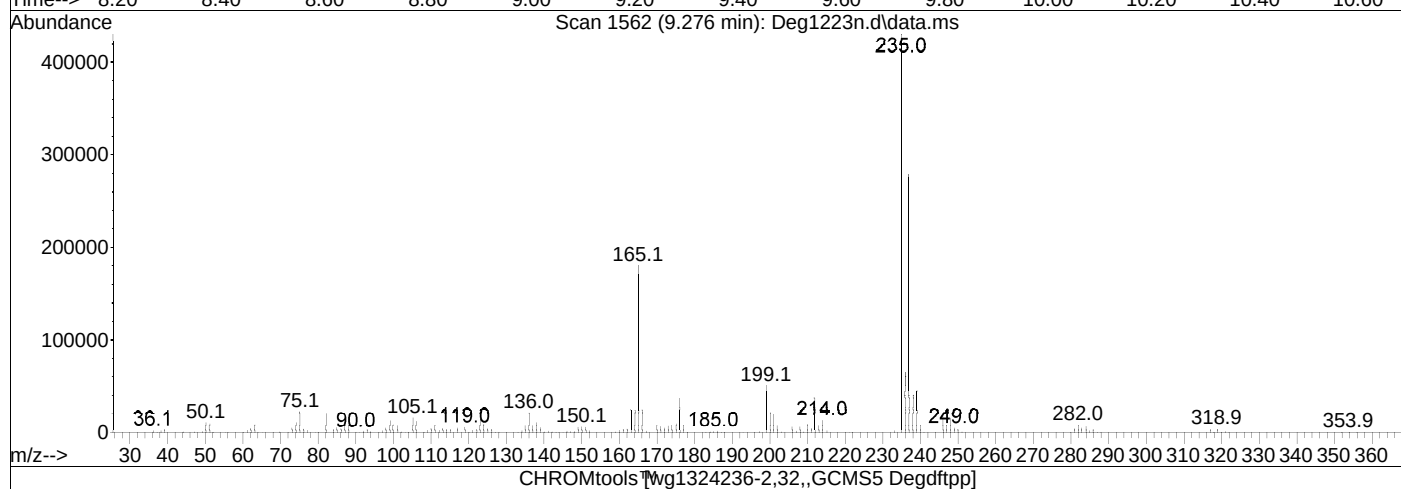
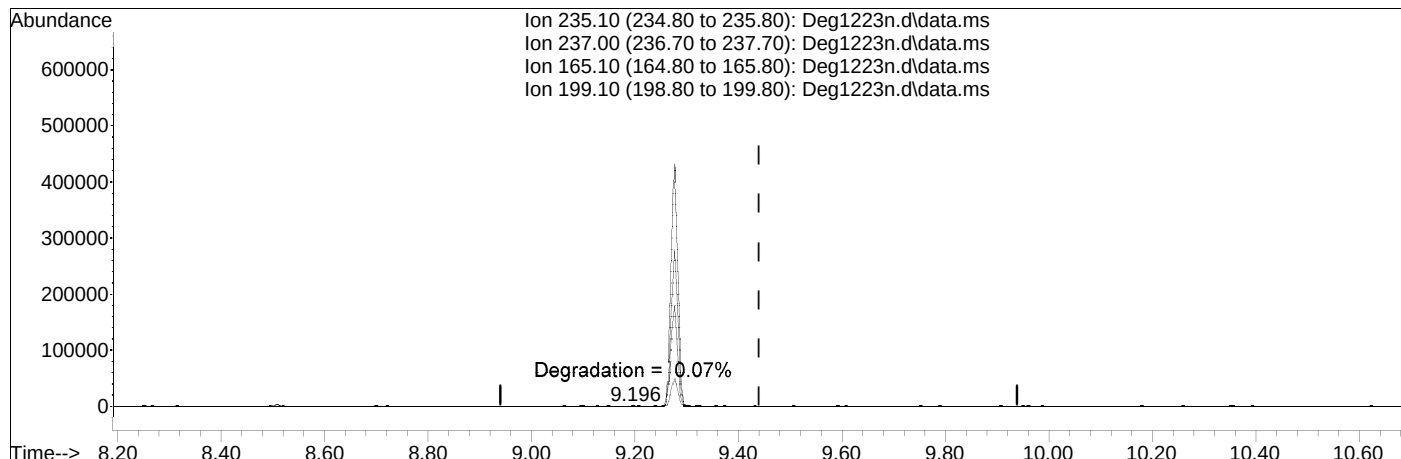
Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : ADP1223n.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 1:23 am Instrument : GCMS5  
Sample : wg1324236-5,32,,ADP CCV LoQuant Date : 12/26/2019 11:51 am

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

# Quantitation Report (Qedit)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : Deg1223n.d  
 Acq On : 24 Dec 2019 12:15 am  
 Operator : gcms5:ek  
 Sample : wg1324236-2,32,,GCMS5 Degdftpp  
 Misc : wg1324236,,ical15860  
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 24 00:37:31 2019  
 Quant Method : I:\8270\GCMS5\191223n\dftppgcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Wed Dec 18 23:48:38 2019  
 Response via : Initial Calibration



(6) ddt (T)  
 9.276min (-0.164) 60.04  
 response 365964  

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 66.00  | 63.52  |
| 165.10 | 41.20  | 40.85  |

 Duplicate Retention Times  
 (4) DDE 246.00  
 (5) DDD 235.00

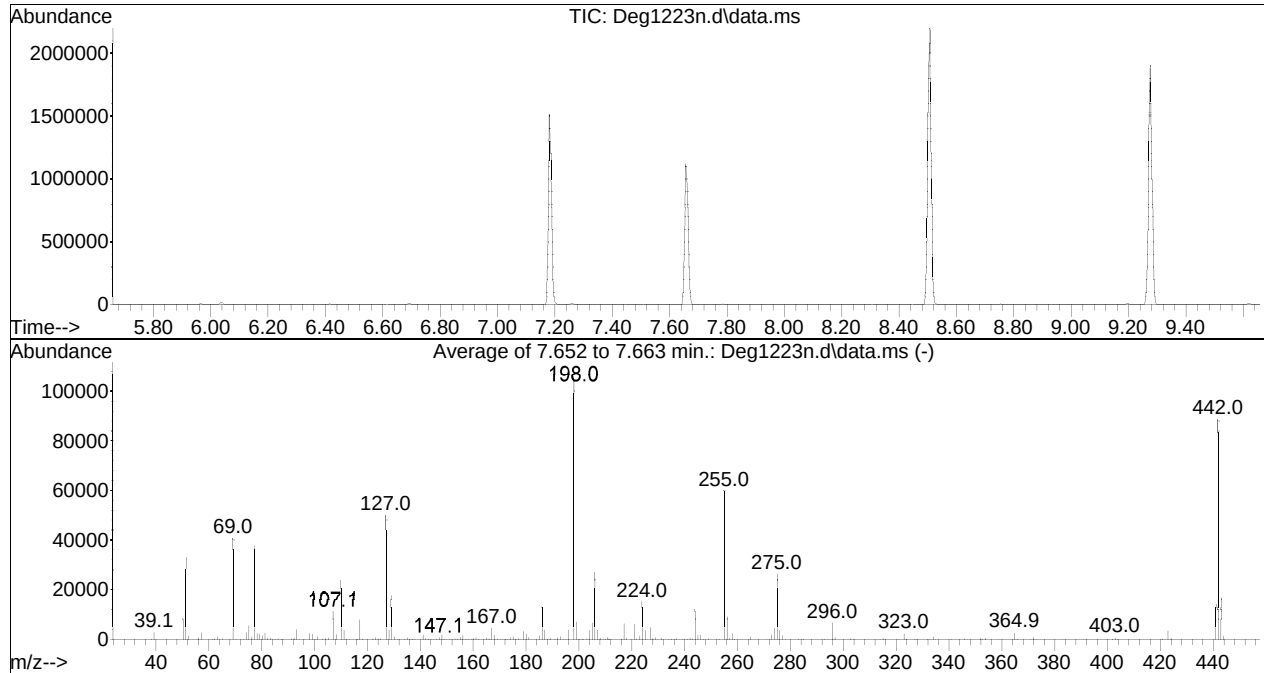


# DFTPP

Data Path : I:\8270\GCMS5\191223n\  
 Data File : Deg1223n.d  
 Acq On : 24 Dec 2019 12:15 am  
 Operator : gcms5:ek  
 Sample : wg1324236-1,32,,GCMS5 Degdftpp  
 Misc : wg1324236,,ical15860  
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Thu Dec 26 11:52:31 2019

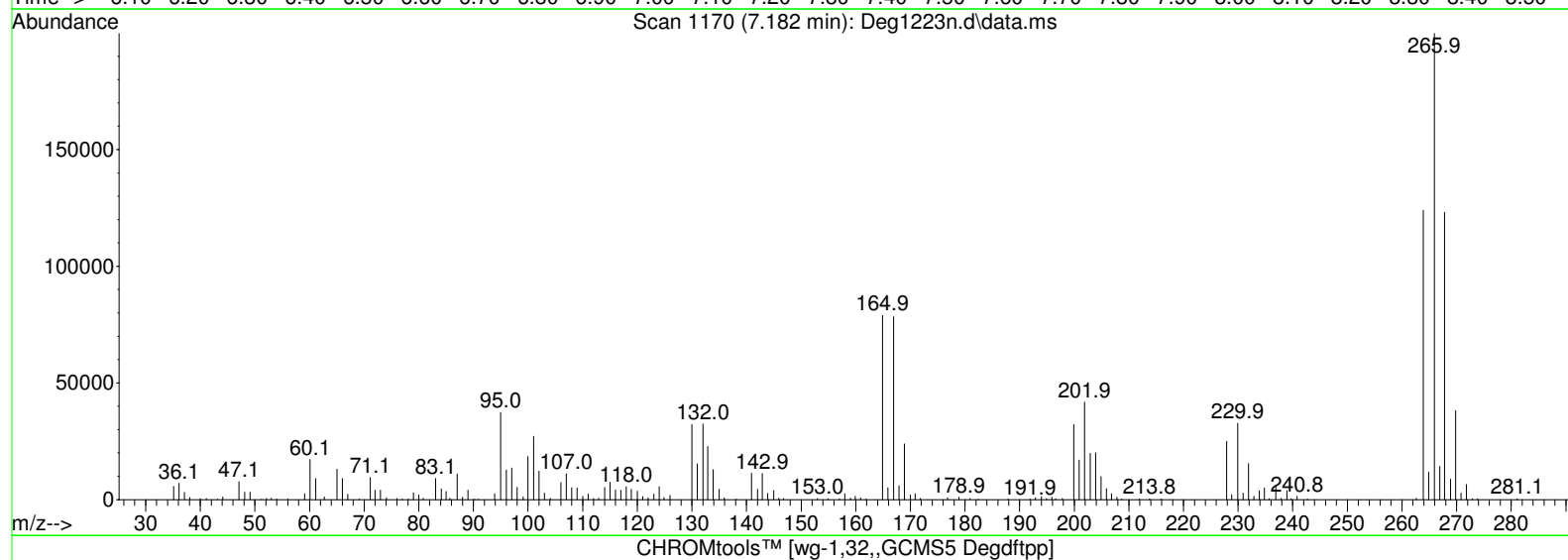
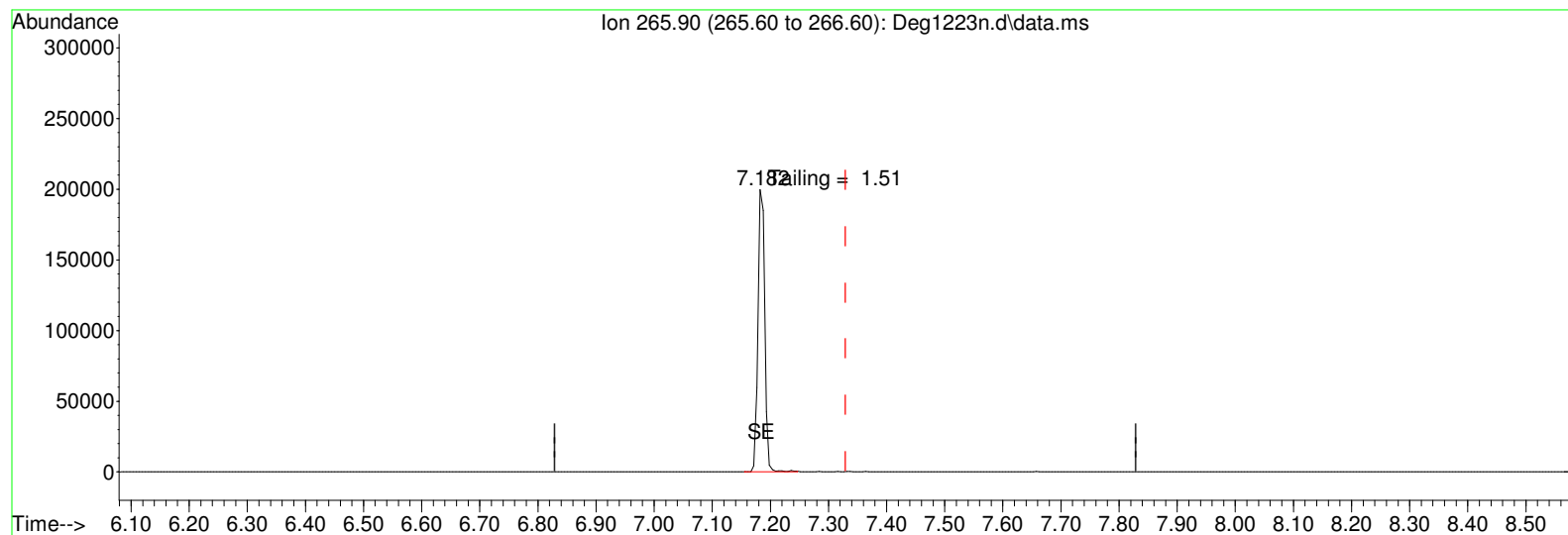


Spectrum Information: Average of 7.652 to 7.663 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 31.0      | 32989   | PASS             |
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 70          | 69           | 0.00         | 2            | 0.7       | 297     | PASS             |
| 127         | 198          | 10           | 80           | 47.1      | 50085   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 106259  | PASS             |
| 199         | 198          | 5            | 9            | 6.5       | 6953    | PASS             |
| 275         | 198          | 10           | 60           | 24.7      | 26228   | PASS             |
| 365         | 198          | 1            | 100          | 2.5       | 2703    | PASS             |
| 441         | 442          | 0.01         | 24           | 16.0      | 14151   | PASS             |
| 442         | 198          | 50           | 100          | 83.5      | 88688   | PASS             |
| 443         | 442          | 15           | 24           | 19.1      | 16968   | PASS             |

Data Path : I:\8270\GCMS5\191223n\  
Data File : Deg1223n.d  
Acq On : 24 Dec 2019 12:15 am  
Operator : gcms5:  
Sample : wg-1,32,,GCMS5 Degdftpp  
Misc : wg,wg,ical15860  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 24 00:37:31 2019  
Quant Method : I:\8270\GCMS5\191223n\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Wed Dec 18 23:48:38 2019  
Response via : Initial Calibration



(1) pentachlorophenol (T)

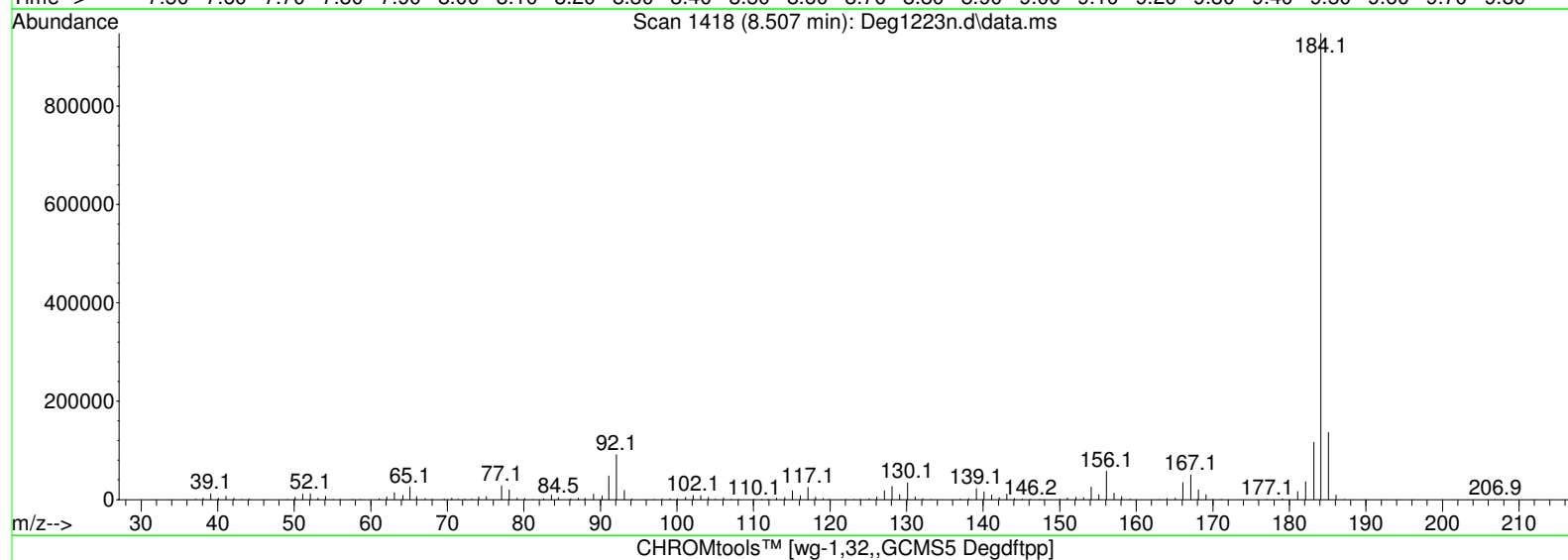
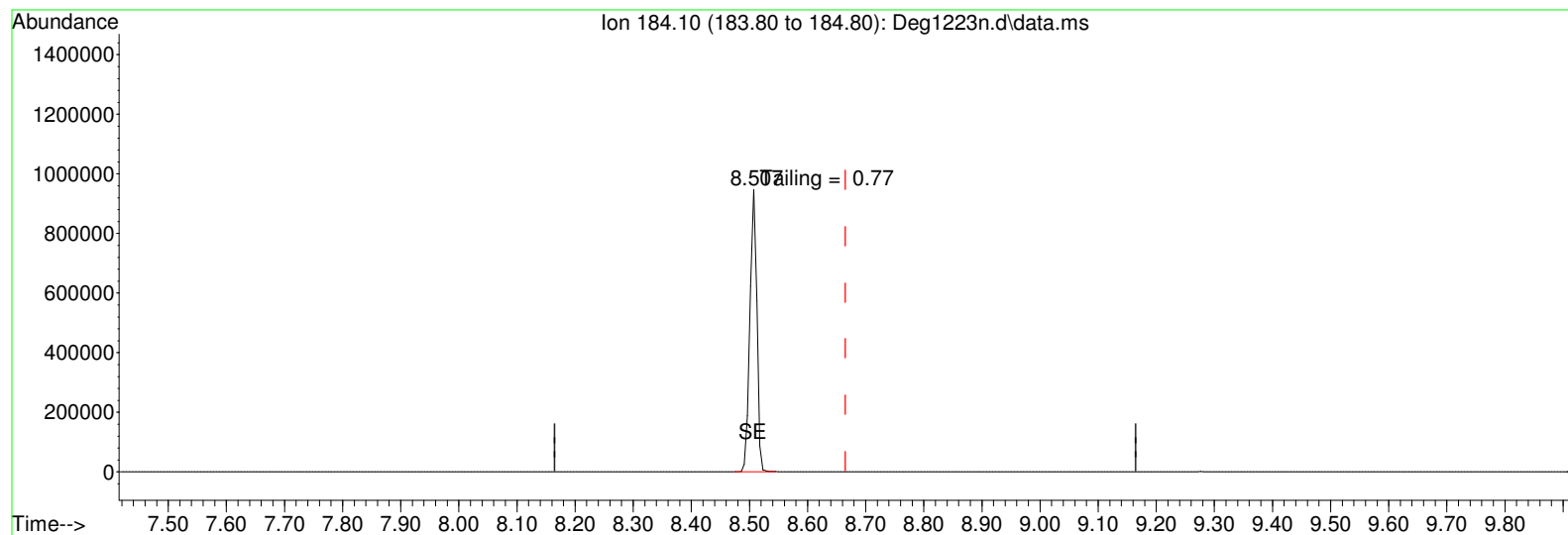
7.182min (-0.147) 76.41 Lin

response 160497

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

Data Path : I:\8270\GCMS5\191223n\  
Data File : Deg1223n.d  
Acq On : 24 Dec 2019 12:15 am  
Operator : gcms5:  
Sample : wg-1,32,,GCMS5 Degdftpp  
Misc : wg,wg,ical15860  
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Dec 24 00:37:31 2019  
Quant Method : I:\8270\GCMS5\191223n\dftppgcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Wed Dec 18 23:48:38 2019  
Response via : Initial Calibration



CHROMtools™ [wg-1,32,,GCMS5 Degdftpp]

(3) benzidine (T)

8.507min (-0.158) 77.63 Lin

response 790298

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191226\  
 Data File : ABN1226.d  
 Acq On : 26 Dec 2019 9:52 am  
 Operator : SV103:jg  
 Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
 Misc : wg1324867,,ical16333  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:18:13 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | IS1_1,4-Dichlorobenzene-d4  | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 2 t  | n-Nitrosodimethylamine      | 0.731 | 0.704 | 3.7   | 76    | 0.00     |
| 3 t  | Pyridine                    | 1.183 | 1.118 | 5.5   | 75    | 0.00     |
| 4 S  | 2-Fluorophenol              | 1.075 | 1.204 | -12.0 | 85    | 0.00     |
| 5 T  | Aniline                     | 1.865 | 1.845 | 1.1   | 79    | 0.00     |
| 6 t  | 2-Chlorophenol              | 1.241 | 1.417 | -14.2 | 87    | 0.00     |
| 7 S  | Phenol-d6                   | 1.348 | 1.488 | -10.4 | 82    | 0.00     |
| 8 T  | Phenol                      | 1.515 | 1.508 | 0.5   | 79    | 0.00     |
| 9 T  | Bis(2-chloroethyl)ether     | 1.119 | 1.181 | -5.5  | 82    | 0.00     |
| 10 T | 1,3-Dichlorobenzene         | 1.460 | 1.597 | -9.4  | 89    | 0.00     |
| 11 T | 1,4-Dichlorobenzene         | 1.496 | 1.611 | -7.7  | 89    | 0.00     |
| 12 T | 1,2-Dichlorobenzene         | 1.451 | 1.550 | -6.8  | 88    | 0.00     |
| 13 t | Benzyl alcohol              | 0.976 | 1.026 | -5.1  | 81    | 0.00     |
| 14 T | Bis(2-chloroisopropyl)ether | 2.503 | 2.219 | 11.3  | 73    | 0.00     |
| 15 T | 2-Methylphenol              | 1.182 | 1.185 | -0.3  | 80    | 0.00     |
| 16 T | Hexachloroethane            | 0.599 | 0.620 | -3.5  | 86    | 0.00     |
| 17 T | n-Nitrosodi-n-propylamine   | 0.916 | 0.916 | 0.0   | 78    | 0.00     |
| 18 T | 3-Methylphenol/4-Methylphen | 1.240 | 1.248 | -0.6  | 80    | 0.00     |
| 19 S | Nitrobenzene-d5             | 1.224 | 1.349 | -10.2 | 83    | 0.00     |
| 20 T | Nitrobenzene                | 1.328 | 1.373 | -3.4  | 82    | 0.00     |
| 21 T | Isophorone                  | 2.442 | 2.514 | -2.9  | 81    | 0.00     |
| 22 T | 2-Nitrophenol               | 0.708 | 0.786 | -11.0 | 89    | 0.00     |
| 23 T | 2,4-Dimethylphenol          | 1.236 | 1.314 | -6.3  | 84    | 0.00     |
| 24 T | Bis(2-chloroethoxy)methane  | 1.491 | 1.544 | -3.6  | 80    | 0.00     |
| 25 T | 2,4-Dichlorophenol          | 1.156 | 1.231 | -6.5  | 85    | 0.00     |
| 26 T | 1,2,4-Trichlorobenzene      | 1.261 | 1.345 | -6.7  | 87    | 0.00     |
| 35 I | IS1_Naphthalene-d8          | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 36 T | Naphthalene                 | 0.977 | 1.022 | -4.6  | 86    | 0.00     |
| 37 T | Benzoic Acid                | 0.220 | 0.248 | -12.7 | 91    | 0.00     |
| 38 T | 4-Chloroaniline             | 0.117 | 0.120 | -2.6  | 83    | 0.00     |
| 39 T | Hexachlorobutadiene         | 0.166 | 0.171 | -3.0  | 81    | 0.00     |
| 40 T | p-Chloro-m-cresol           | 0.270 | 0.288 | -6.7  | 85    | 0.00     |
| 41 T | 2-Methylnaphthalene         | 0.678 | 0.703 | -3.7  | 85    | 0.00     |
| 42 T | 1-Methylnaphthalene         | 0.215 | 0.228 | -6.0  | 88    | 0.00     |
| 43 T | Hexachlorocyclopentadiene   | 0.182 | 0.156 | 14.3  | 69    | 0.00     |
| 44 T | 2,4,6-Trichlorophenol       | 0.202 | 0.221 | -9.4  | 89    | 0.00     |
| 45 T | 2,4,5-Trichlorophenol       | 0.216 | 0.232 | -7.4  | 88    | 0.00     |
| 46 S | 2-Fluorobiphenyl            | 0.709 | 0.779 | -9.9  | 85    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191226\  
 Data File : ABN1226.d  
 Acq On : 26 Dec 2019 9:52 am  
 Operator : SV103:jg  
 Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
 Misc : wg1324867,,ical16333  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:18:13 2019  
 Response via : Initial Calibration

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

|      | Compound                    | AvgRF    | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|----------|--------|-------|-------|----------|
| 47 T | 2-Chloronaphthalene         | 0.624    | 0.673  | -7.9  | 88    | 0.00     |
| 48 T | 2-Nitroaniline              | 0.211    | 0.235  | -11.4 | 89    | 0.00     |
| 49 T | 1,4-Dinitrobenzene          | 0.099    | 0.108  | -9.1  | 91    | 0.00     |
| 50 T | 1,3-Dinitrobenzene          | 0.111    | 0.122  | -9.9  | 88    | 0.00     |
| 51 T | Dimethyl phthalate          | 0.768    | 0.810  | -5.5  | 88    | 0.00     |
| 52 T | Acenaphthylene              | 1.050    | 1.103  | -5.0  | 88    | 0.00     |
| 53 T | 2,6-Dinitrotoluene          | 0.166    | 0.187  | -12.7 | 90    | 0.00     |
| 54 T | 1,2-Dinitrobenzene          | 0.073    | 0.078  | -6.8  | 88    | 0.00     |
| 63 I | IS1_Acenaphthene-d10        | 1.000    | 1.000  | 0.0   | 80    | 0.00     |
| 64 T | 3-Nitroaniline              | 0.311    | 0.358  | -15.1 | 92    | 0.00     |
| 65 T | Acenaphthene                | 1.084    | 1.141  | -5.3  | 85    | 0.00     |
| 66 T | 2,4-Dinitrophenol           | * 50.000 | 45.956 | 8.1   | 76    | 0.00     |
| 67 T | Dibenzofuran                | 1.601    | 1.769  | -10.5 | 88    | 0.00     |
| 68 T | 2,4-Dinitrotoluene          | 0.384    | 0.443  | -15.4 | 90    | 0.00     |
| 69 T | 4-Nitrophenol               | 0.230    | 0.248  | -7.8  | 87    | 0.00     |
| 70 T | 2,3,5,6-Tetrachlorophenol   | 0.307    | 0.324  | -5.5  | 83    | 0.00     |
| 71 T | 2,3,4,6-Tetrachlorophenol   | 0.319    | 0.331  | -3.8  | 82    | 0.00     |
| 72 T | Diethyl phthalate           | 1.372    | 1.543  | -12.5 | 90    | 0.00     |
| 73 T | Fluorene                    | 1.313    | 1.393  | -6.1  | 85    | 0.00     |
| 74 T | 4-Chlorophenyl phenyl ether | 0.617    | 0.659  | -6.8  | 86    | 0.00     |
| 75 T | 4-Nitroaniline              | 0.302    | 0.350  | -15.9 | 92    | 0.00     |
| 76 T | 4,6-Dinitro-o-cresol        | 0.230    | 0.261  | -13.5 | 86    | 0.00     |
| 77 T | NDPA/DPA                    | 1.051    | 1.223  | -16.4 | 87    | 0.00     |
| 78 T | Azobenzene                  | 1.242    | 1.370  | -10.3 | 86    | 0.00     |
| 79 S | 2,4,6-Tribromophenol        | 0.182    | 0.193  | -6.0  | 84    | 0.00     |
| 80 T | 4-Bromophenyl phenyl ether  | 0.342    | 0.362  | -5.8  | 84    | 0.00     |
| 81 T | Hexachlorobenzene           | 0.383    | 0.412  | -7.6  | 85    | 0.00     |
| 82 T | Pentachlorophenol           | 0.178    | 0.210  | -18.0 | 81    | 0.00     |
| 88 I | IS1_Phenanthrene-d10        | 1.000    | 1.000  | 0.0   | 83    | 0.00     |
| 89 T | Phenanthrene                | 1.036    | 1.086  | -4.8  | 87    | 0.00     |
| 90 T | Anthracene                  | 1.045    | 1.126  | -7.8  | 86    | 0.00     |
| 91 T | Carbazole                   | 0.944    | 1.021  | -8.2  | 86    | 0.00     |
| 92 T | Di-n-butylphthalate         | 1.214    | 1.414  | -16.5 | 92    | 0.00     |
| 93 T | Fluoranthene                | 1.140    | 1.221  | -7.1  | 87    | 0.00     |
| 94 T | Benzidine                   | 0.754    | 0.859  | -13.9 | 88    | 0.00     |
| 95 T | Pyrene                      | 1.199    | 1.279  | -6.7  | 88    | 0.00     |
| 96 S | 4-Terphenyl-d14             | 0.692    | 0.792  | -14.5 | 88    | 0.00     |

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191226\  
 Data File : ABN1226.d  
 Acq On : 26 Dec 2019 9:52 am  
 Operator : SV103:jg  
 Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
 Misc : wg1324867,,ical16333  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:18:13 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|----------------------------|-------|-------|--------|-------|----------|
| 97 T  | Butyl benzyl phthalate     | 0.538 | 0.643 | -19.5  | 94    | 0.00     |
| 104 I | IS1_Chrysene-d12           | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 105 T | Benzo(a)anthracene         | 1.174 | 1.260 | -7.3   | 90    | 0.00     |
| 106 T | 3,3'-Dichlorobenzidine     | 0.446 | 0.498 | -11.7  | 88    | 0.00     |
| 107 T | Chrysene                   | 1.204 | 1.247 | -3.6   | 90    | 0.00     |
| 108 T | Bis(2-ethylhexyl)phthalate | 0.901 | 1.084 | -20.3# | 94    | 0.00     |
| 109 T | Di-n-octylphthalate        | 1.566 | 1.865 | -19.1  | 95    | 0.00     |
| 110 T | Benzo(b)fluoranthene       | 1.072 | 1.210 | -12.9  | 92    | 0.00     |
| 111 T | Benzo(k)fluoranthene       | 1.116 | 1.272 | -14.0  | 91    | 0.00     |
| 112 T | Benzo(a)pyrene             | 1.010 | 1.140 | -12.9  | 92    | 0.00     |
| 113 I | IS1_Perylene-d12           | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 114 T | Indeno(1,2,3-cd)pyrene     | 0.958 | 1.077 | -12.4  | 93    | 0.00     |
| 115 T | Dibenzo(a,h)anthracene     | 0.923 | 1.070 | -15.9  | 91    | 0.00     |
| 116 T | Benzo(ghi)perylene         | 1.046 | 1.157 | -10.6  | 91    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : ABN1226.d  
 Acq On : 26 Dec 2019 9:52 am  
 Operator : SV103:jg  
 Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
 Misc : wg1324867,, ical16333  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:18:13 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

| Compound                      | R.T.   | QIon           | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|--------|----------|----------|
| -----                         |        |                |          |        |          |          |
| Internal Standards            |        |                |          |        |          |          |
| 1) IS1_1,4-Dichlorobenzen...  | 4.033  | 152            | 124940   | 40.000 | ug/ml    | 0.00     |
| 35) IS1_Naphthalene-d8        | 5.283  | 136            | 510434   | 40.000 | ug/ml    | # 0.00   |
| 63) IS1_Acenaphthene-d10      | 6.974  | 164            | 284683   | 40.000 | ug/ml    | 0.00     |
| 88) IS1_Phenanthrene-d10      | 8.383  | 188            | 550424   | 40.000 | ug/ml    | 0.00     |
| 104) IS1_Chrysene-d12         | 10.992 | 240            | 503667   | 40.000 | ug/ml    | 0.00     |
| 113) IS1_Perylene-d12         | 12.844 | 264            | 526137   | 40.000 | ug/ml    | 0.00     |
| System Monitoring Compounds   |        |                |          |        |          |          |
| 4) 2-Fluorophenol             | 2.709  | 112            | 188027   | 56.016 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 112.03%# |          |
| 7) Phenol-d6                  | 3.755  | 99             | 232381   | 55.204 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 110.41%# |          |
| 19) Nitrobenzene-d5           | 4.596  | 82             | 210642   | 55.108 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 220.43%# |          |
| 46) 2-Fluorobiphenyl          | 6.360  | 172            | 497198   | 54.963 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 219.85%# |          |
| 79) 2,4,6-Tribromophenol      | 7.736  | 330            | 68855    | 53.048 | ug/ml    | 0.00     |
| Spiked Amount                 | 50.000 | Range 15 - 110 | Recovery | =      | 106.10%  |          |
| 96) 4-Terphenyl-d14           | 9.955  | 244            | 544693   | 57.181 | ug/ml    | 0.00     |
| Spiked Amount                 | 25.000 | Range 30 - 130 | Recovery | =      | 228.72%# |          |
| Target Compounds              |        |                |          |        |          |          |
|                               |        |                |          |        |          | Qvalue   |
| 2) n-Nitrosodimethylamine     | 1.328  | 74             | 109999   | 48.186 | ug/ml#   | 78       |
| 3) Pyridine                   | 1.342  | 79             | 174577   | 47.264 | ug/ml    | 93       |
| 5) Aniline                    | 3.712  | 93             | 288074   | 49.446 | ug/ml#   | 90       |
| 6) 2-Chlorophenol             | 3.826  | 128            | 221248   | 57.090 | ug/ml    | 92       |
| 8) Phenol                     | 3.769  | 94             | 235565   | 49.788 | ug/ml#   | 89       |
| 9) Bis(2-chloroethyl)ether    | 3.809  | 93             | 184399   | 52.741 | ug/ml    | 96       |
| 10) 1,3-Dichlorobenzene       | 3.971  | 146            | 249365   | 54.668 | ug/ml    | 94       |
| 11) 1,4-Dichlorobenzene       | 4.047  | 146            | 251539   | 53.818 | ug/ml    | 94       |
| 12) 1,2-Dichlorobenzene       | 4.195  | 146            | 242128   | 53.441 | ug/ml    | 96       |
| 13) Benzyl alcohol            | 4.212  | 79             | 160261   | 52.579 | ug/ml    | 94       |
| 14) Bis(2-chloroisopropyl)... | 4.354  | 45             | 346517   | 44.320 | ug/ml    | 99       |
| 15) 2-Methylphenol            | 4.366  | 108            | 185041   | 50.120 | ug/ml    | 99       |
| 16) Hexachloroethane          | 4.519  | 117            | 96800    | 51.775 | ug/ml    | 87       |
| 17) n-Nitrosodi-n-propylamine | 4.485  | 70             | 143128   | 50.024 | ug/ml    | 95       |
| 18) 3-Methylphenol/4-Methy... | 4.530  | 108            | 194861   | 50.309 | ug/ml    | 98       |
| 20) Nitrobenzene              | 4.613  | 77             | 214360   | 51.663 | ug/ml    | 94       |
| 21) Isophorone                | 4.860  | 82             | 392626   | 51.480 | ug/ml    | 96       |
| 22) 2-Nitrophenol             | 4.931  | 139            | 122747   | 55.501 | ug/ml#   | 87       |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : ABN1226.d  
 Acq On : 26 Dec 2019 9:52 am  
 Operator : SV103:jg  
 Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
 Misc : wg1324867,, ical16333  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:18:13 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

|     | Compound                  | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----|---------------------------|-------|------|----------|--------|--------|----------|
| 23) | 2,4-Dimethylphenol        | 5.039 | 107  | 205282   | 53.192 | ug/ml  | 93       |
| 24) | Bis(2-chloroethoxy)met... | 5.113 | 93   | 241212   | 51.796 | ug/ml  | 98       |
| 25) | 2,4-Dichlorophenol        | 5.184 | 162  | 192300   | 53.269 | ug/ml  | 94       |
| 26) | 1,2,4-Trichlorobenzene    | 5.244 | 180  | 210050   | 53.332 | ug/ml  | 97       |
| 36) | Naphthalene               | 5.300 | 128  | 651991   | 52.269 | ug/ml  | 100      |
| 37) | Benzoic Acid              | 5.190 | 105  | 158453   | 56.499 | ug/ml  | 94       |
| 38) | 4-Chloroaniline           | 5.394 | 65   | 76443    | 51.010 | ug/ml# | 67       |
| 39) | Hexachlorobutadiene       | 5.457 | 225  | 108981   | 51.351 | ug/ml  | 99       |
| 40) | p-Chloro-m-cresol         | 5.914 | 107  | 183492   | 53.289 | ug/ml  | 88       |
| 41) | 2-Methylnaphthalene       | 5.982 | 142  | 448765   | 51.893 | ug/ml  | 98       |
| 42) | 1-Methylnaphthalene       | 6.073 | 115  | 145700   | 53.152 | ug/ml  | 82       |
| 43) | Hexachlorocyclopentadiene | 6.150 | 237  | 99431    | 42.735 | ug/ml  | 95       |
| 44) | 2,4,6-Trichlorophenol     | 6.284 | 196  | 140769   | 54.554 | ug/ml  | 93       |
| 45) | 2,4,5-Trichlorophenol     | 6.318 | 196  | 147928   | 53.738 | ug/ml  | 97       |
| 47) | 2-Chloronaphthalene       | 6.443 | 162  | 429692   | 53.991 | ug/ml  | 94       |
| 48) | 2-Nitroaniline            | 6.573 | 138  | 149652   | 55.679 | ug/ml  | 84       |
| 49) | 1,4-Dinitrobenzene        | 6.724 | 168  | 68935    | 54.357 | ug/ml# | 75       |
| 50) | 1,3-Dinitrobenzene        | 6.798 | 168  | 77957    | 54.950 | ug/ml  | 78       |
| 51) | Dimethyl phthalate        | 6.784 | 163  | 516562   | 52.704 | ug/ml  | 99       |
| 52) | Acenaphthylene            | 6.832 | 152  | 704053   | 52.569 | ug/ml  | 98       |
| 53) | 2,6-Dinitrotoluene        | 6.823 | 165  | 119056   | 56.061 | ug/ml# | 83       |
| 54) | 1,2-Dinitrobenzene        | 6.863 | 168  | 49554    | 53.353 | ug/ml# | 21       |
| 64) | 3-Nitroaniline            | 6.974 | 138  | 127405   | 57.480 | ug/ml  | 87       |
| 65) | Acenaphthene              | 7.005 | 154  | 405961   | 52.639 | ug/ml  | 96       |
| 66) | 2,4-Dinitrophenol         | 7.091 | 184  | 57768    | 45.956 | ug/ml  | 89       |
| 67) | Dibenzofuran              | 7.176 | 168  | 629438   | 55.241 | ug/ml  | 91       |
| 68) | 2,4-Dinitrotoluene        | 7.213 | 165  | 157553   | 57.616 | ug/ml# | 78       |
| 69) | 4-Nitrophenol             | 7.201 | 65   | 88154    | 53.854 | ug/ml  | 91       |
| 70) | 2,3,5,6-Tetrachlorophenol | 7.278 | 232  | 115365   | 52.775 | ug/ml  | 99       |
| 71) | 2,3,4,6-Tetrachlorophenol | 7.318 | 232  | 117633   | 51.787 | ug/ml  | 98       |
| 72) | Diethyl phthalate         | 7.466 | 149  | 549131   | 56.230 | ug/ml  | 99       |
| 73) | Fluorene                  | 7.500 | 166  | 495678   | 53.028 | ug/ml  | 96       |
| 74) | 4-Chlorophenyl phenyl ... | 7.528 | 204  | 234478   | 53.417 | ug/ml# | 88       |
| 75) | 4-Nitroaniline            | 7.557 | 138  | 124659   | 57.917 | ug/ml# | 76       |
| 76) | 4,6-Dinitro-o-cresol      | 7.605 | 198  | 92910    | 56.646 | ug/ml# | 82       |
| 77) | NDPA/DPA                  | 7.650 | 169  | 435125   | 58.145 | ug/ml  | 97       |
| 78) | Azobenzene                | 7.679 | 77   | 487479   | 55.133 | ug/ml  | 96       |
| 80) | 4-Bromophenyl phenyl e... | 7.988 | 248  | 128725   | 52.825 | ug/ml# | 89       |
| 81) | Hexachlorobenzene         | 8.034 | 284  | 146634   | 53.829 | ug/ml  | 99       |
| 82) | Pentachlorophenol         | 8.239 | 266  | 74857    | 58.974 | ug/ml  | 97       |
| 89) | Phenanthrene              | 8.406 | 178  | 747506   | 52.413 | ug/ml  | 98       |



# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : ABN1226.d  
 Acq On : 26 Dec 2019 9:52 am  
 Operator : SV103:jg  
 Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
 Misc : wg1324867,, ical16333  
 ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 13:18:13 2019  
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 90)  | Anthracene                | 8.457  | 178  | 774473   | 53.840 | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.636  | 167  | 702278   | 54.040 | ug/ml  | 97       |
| 92)  | Di-n-butylphthalate       | 9.043  | 149  | 972677   | 58.247 | ug/ml  | 99       |
| 93)  | Fluoranthene              | 9.546  | 202  | 840169   | 53.562 | ug/ml  | 97       |
| 94)  | Benazidine                | 9.716  | 184  | 590677   | 56.949 | ug/ml# | 97       |
| 95)  | Pyrene                    | 9.753  | 202  | 880022   | 53.349 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 10.475 | 149  | 442062   | 59.659 | ug/ml  | 92       |
| 105) | Benzo(a)anthracene        | 10.983 | 228  | 792979   | 53.664 | ug/ml  | 98       |
| 106) | 3,3'-Dichlorobenzidine    | 11.000 | 252  | 313591   | 55.837 | ug/ml  | 98       |
| 107) | Chrysene                  | 11.020 | 228  | 785368   | 51.823 | ug/ml  | 98       |
| 108) | Bis(2-ethylhexyl)phtha... | 11.174 | 149  | 682562   | 60.176 | ug/ml  | 99       |
| 109) | Di-n-octylphthalate       | 12.023 | 149  | 1174011  | 59.539 | ug/ml  | 97       |
| 110) | Benzo(b)fluoranthene      | 12.336 | 252  | 761978   | 56.430 | ug/ml  | 98       |
| 111) | Benzo(k)fluoranthene      | 12.376 | 252  | 801106M1 | 57.003 | ug/ml  |          |
| 112) | Benzo(a)pyrene            | 12.765 | 252  | 717741   | 56.430 | ug/ml  | 99       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.333 | 276  | 708136   | 56.191 | ug/mL  | 98       |
| 115) | Dibenzo(a,h)anthracene    | 14.385 | 278  | 703759   | 57.958 | ug/ml  | 98       |
| 116) | Benzo(ghi)perylene        | 14.680 | 276  | 761163   | 55.314 | ug/ml  | 97       |

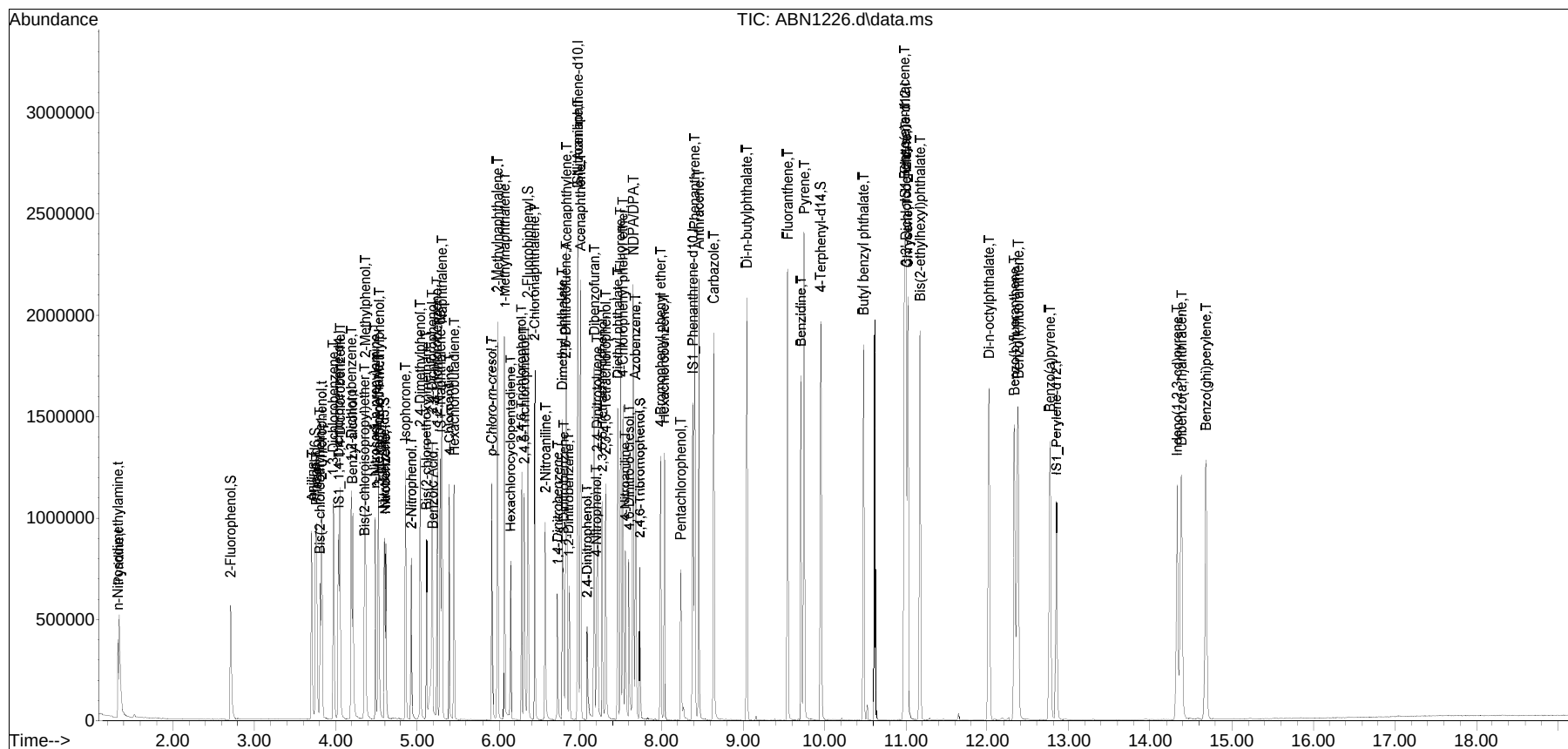
(#) = qualifier out of range (m) = manual integration (+) = signals summed

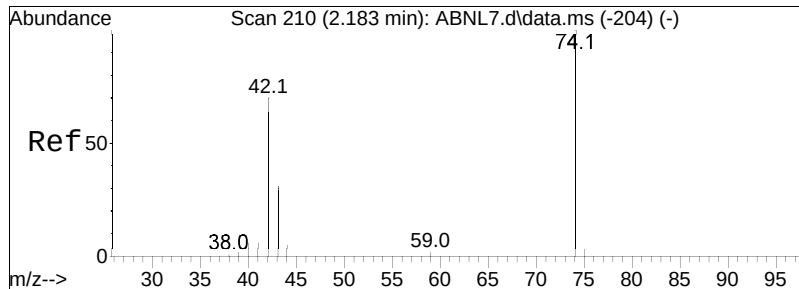
(QT Reviewed)

Data Path : I:\8270\SV103\191226\  
Data File : ABN1226.d  
Acq On : 26 Dec 2019 9:52 am  
Operator : SV103:jg  
Sample : wg1324867-3,32,, ABN CCV Lot # 8524  
Misc : wg1324867,,ical16333  
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 26 13:58:18 2019  
Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Thu Dec 26 13:18:13 2019  
Response via : Initial Calibration

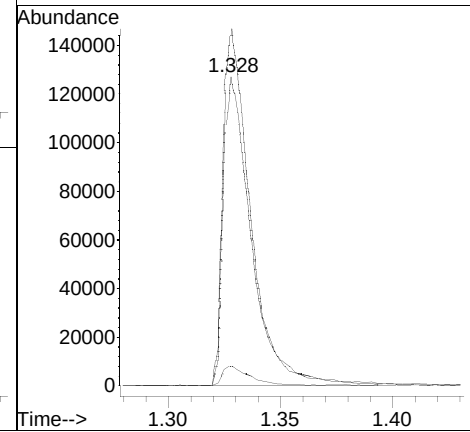
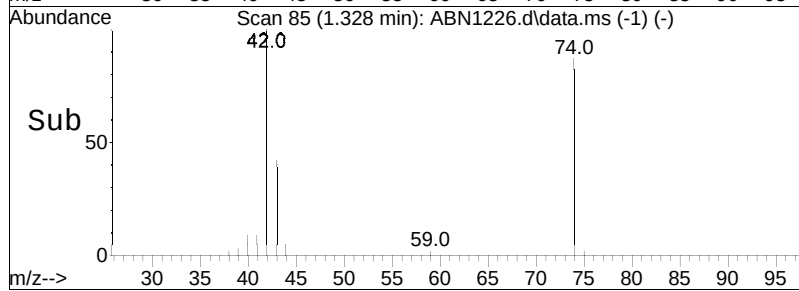
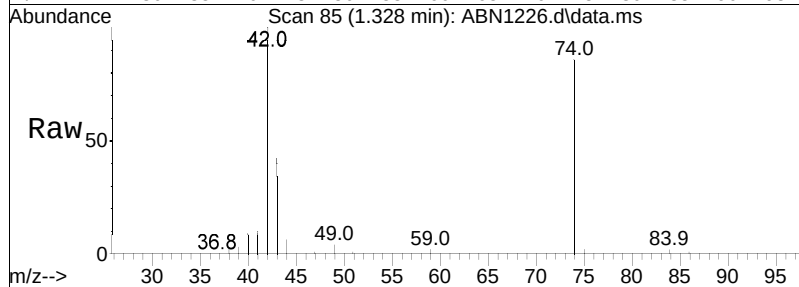
Sub List : ABNical - ABN ical sublist

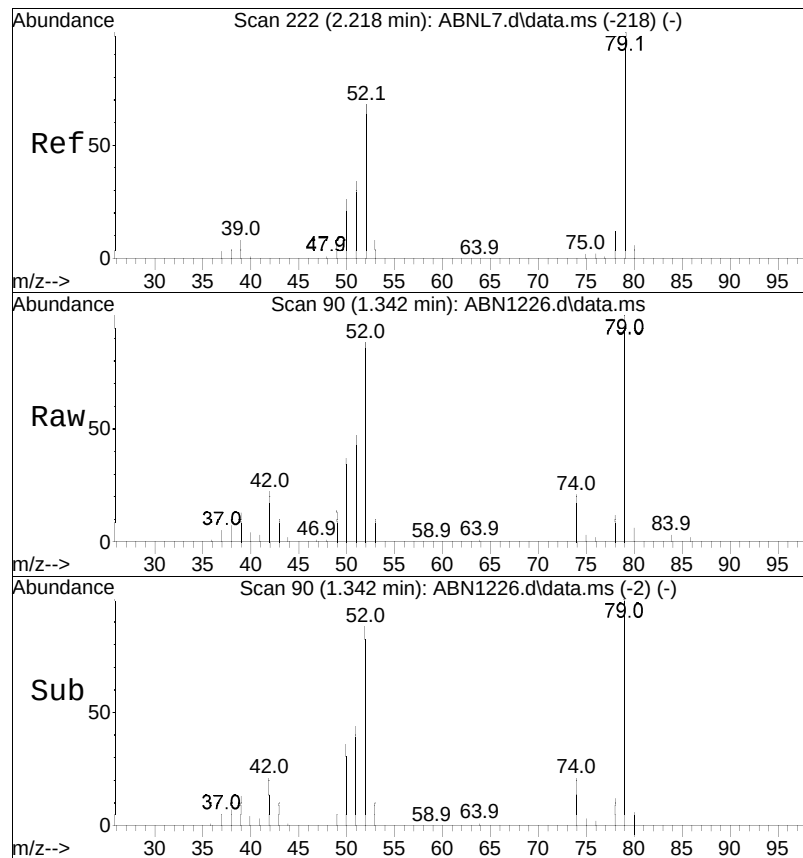




#2  
 n-Nitrosodimethylamine  
 Concen: 48.19 ug/ml  
 RT: 1.328 min Scan# 85  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

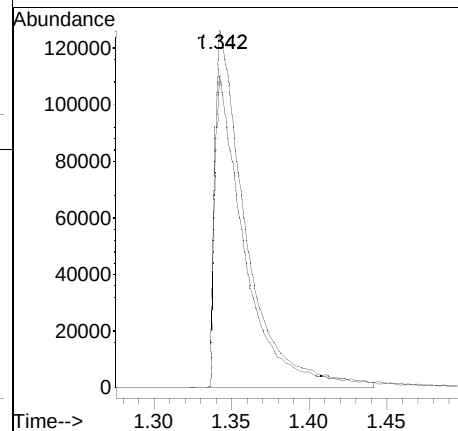
Tgt Ion: 74 Resp: 109999  
 Ion Ratio Lower Upper  
 74 100  
 42 115.4 74.5 111.7#  
 44 6.2 5.5 8.3

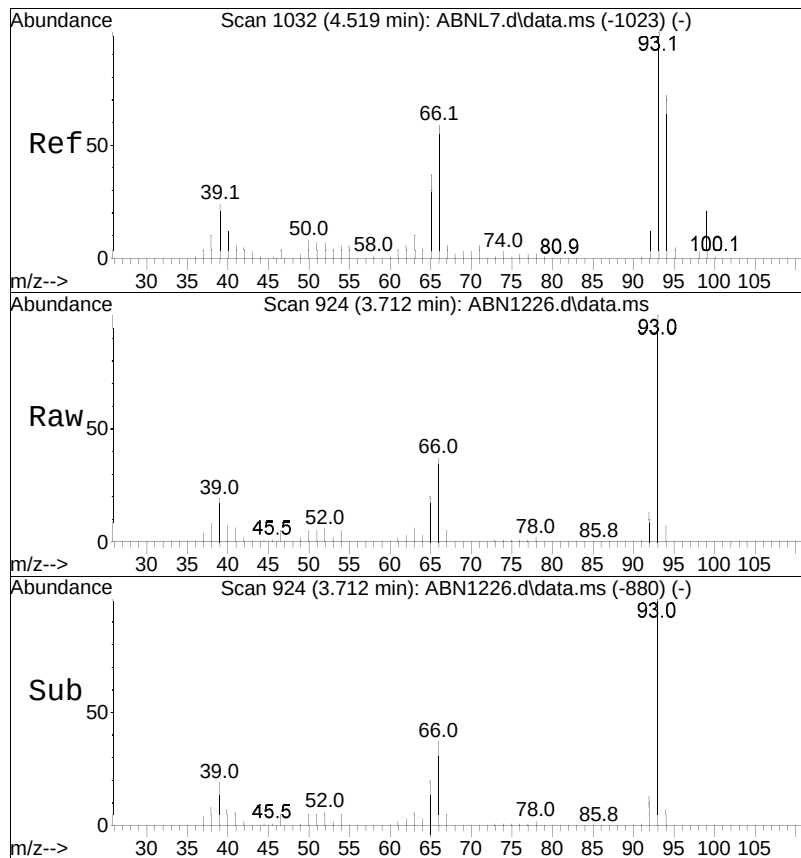




#3  
 Pyridine  
 Concen: 47.26 ug/ml  
 RT: 1.342 min Scan# 90  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

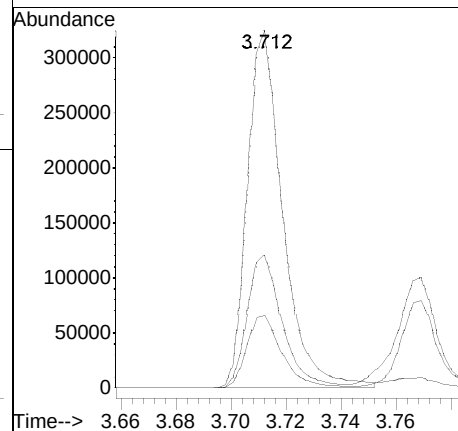
| Tgt Ion: | 79 | 52 | Ratio | 100 | 84.5 | Resp: | 174577 | Lower | Upper |
|----------|----|----|-------|-----|------|-------|--------|-------|-------|
| Ion      | 79 | 52 | Ratio | 100 | 84.5 | Resp: | 174577 | Lower | Upper |
|          |    |    |       |     |      |       |        | 72.9  | 109.3 |

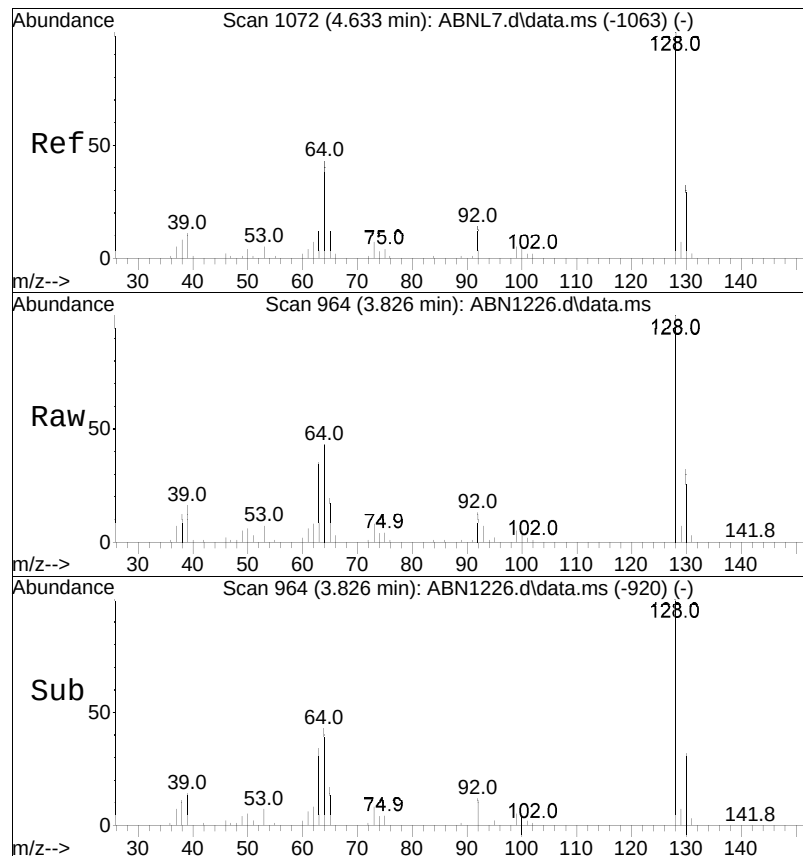




#5  
 Aniline  
 Concen: 49.45 ug/ml  
 RT: 3.712 min Scan# 924  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

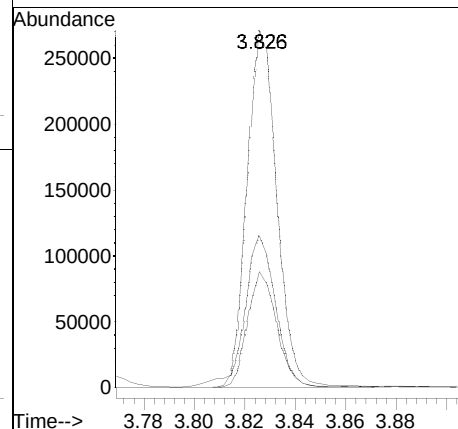
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 288074 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 66        | 37.2  | 37.3  | 55.9#  |
| 65        | 20.3  | 16.7  | 25.1   |

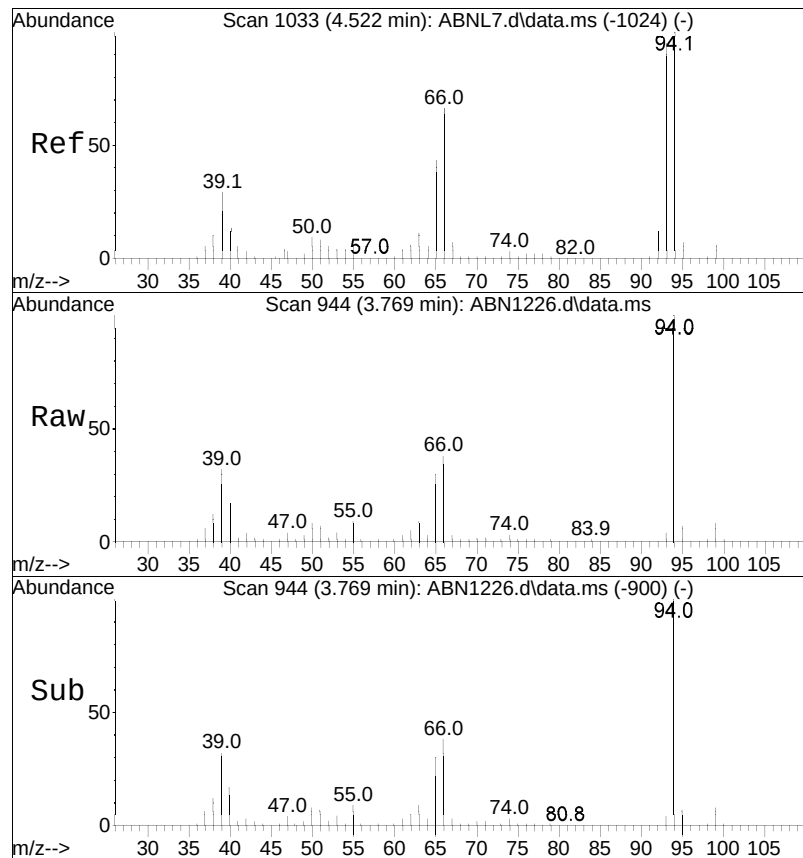




#6  
 2-Chlorophenol  
 Concen: 57.09 ug/ml  
 RT: 3.826 min Scan# 964  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

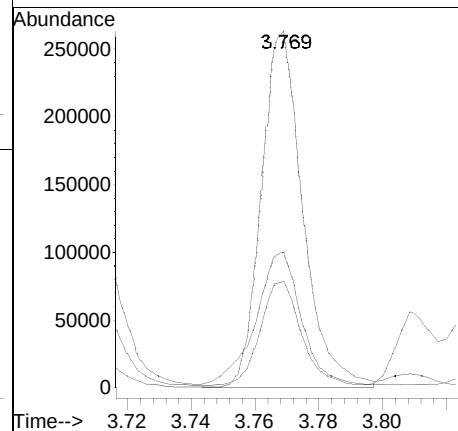
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 221248 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 64  | 43.9    | 42.7  | 64.1   |
| 130 | 32.1    | 25.8  | 38.6   |

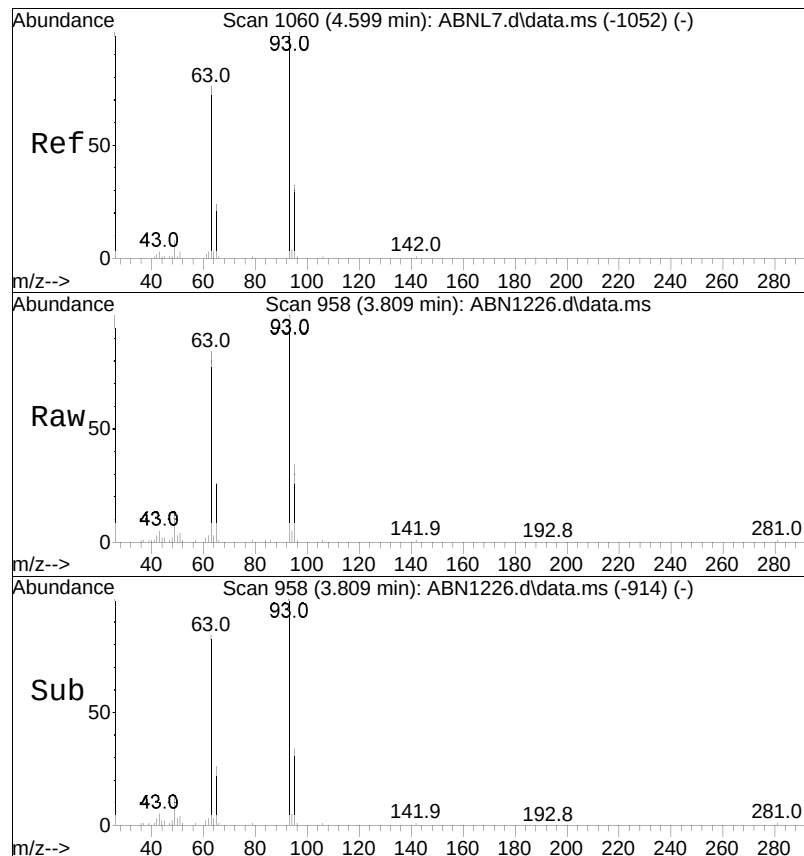




#8  
 Phenol  
 Concen: 49.79 ug/ml  
 RT: 3.769 min Scan# 944  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

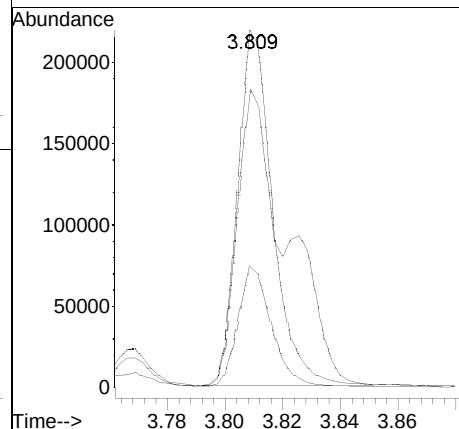
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 235565 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 31.0  | 20.5  | 30.7#  |
| 66        | 43.6  | 0.0   | 0.0#   |



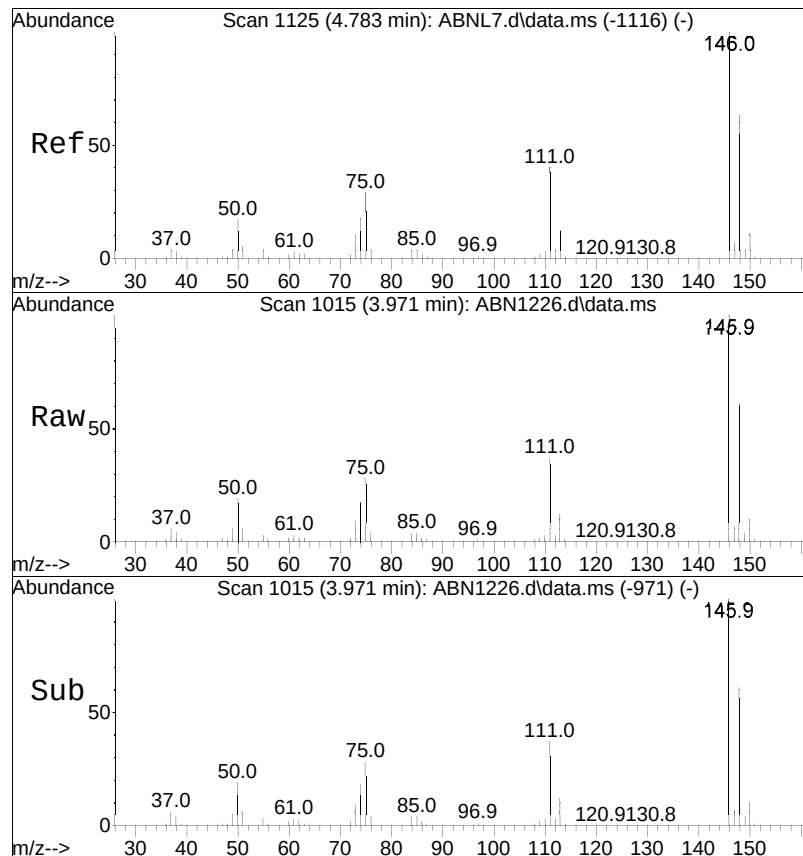


#9  
 Bis(2-chloroethyl)ether  
 Concen: 52.74 ug/ml  
 RT: 3.809 min Scan# 958  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 184399 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 82.7  | 70.4  | 105.6  |
| 95        | 32.5  | 25.8  | 38.6   |

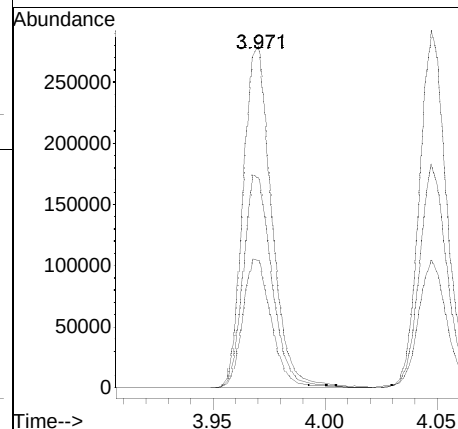


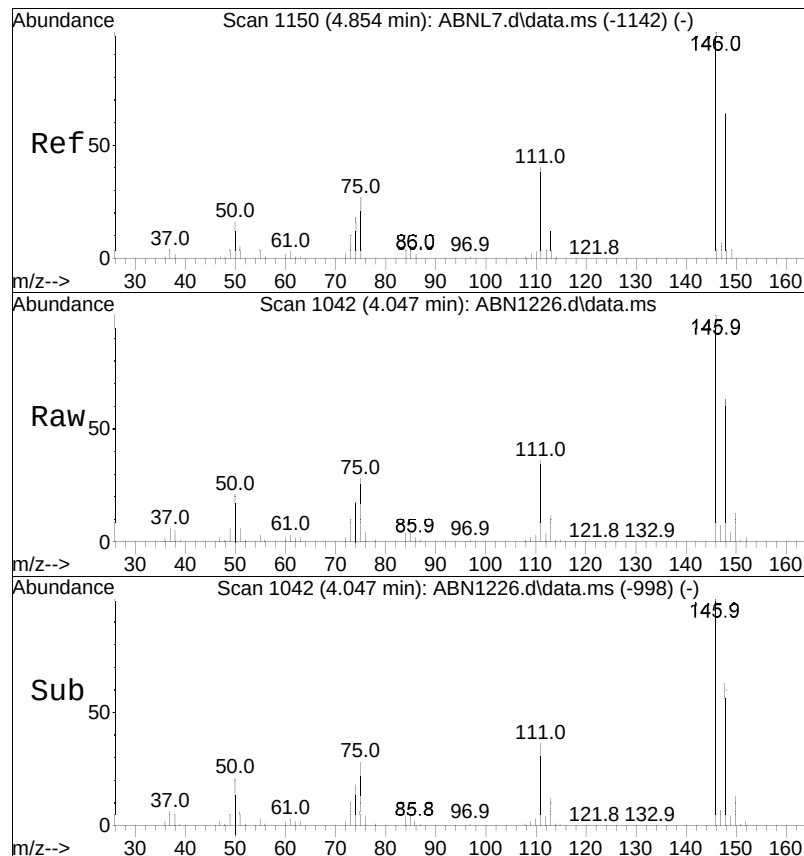




#10  
 1,3-Dichlorobenzene  
 Concen: 54.67 ug/ml  
 RT: 3.971 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

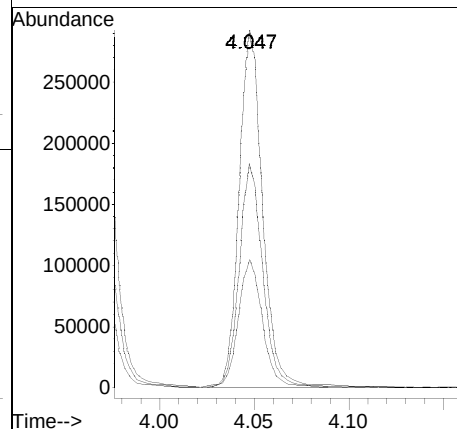
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 249365 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 37.9  | 35.8  | 53.6   |
| 148       | 62.4  | 51.2  | 76.8   |

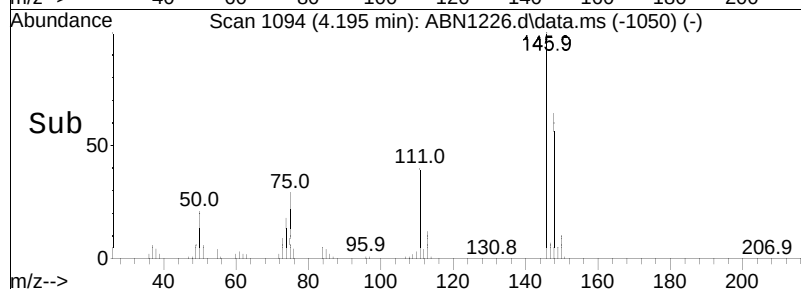
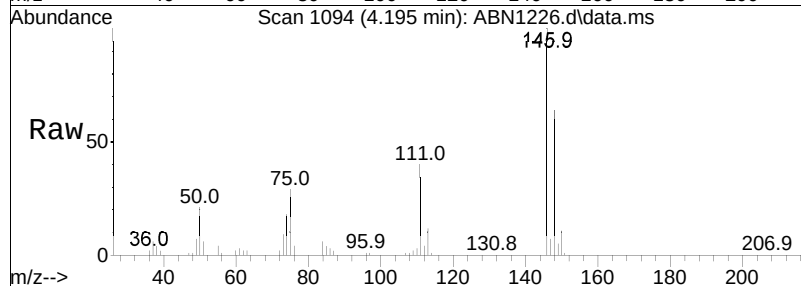
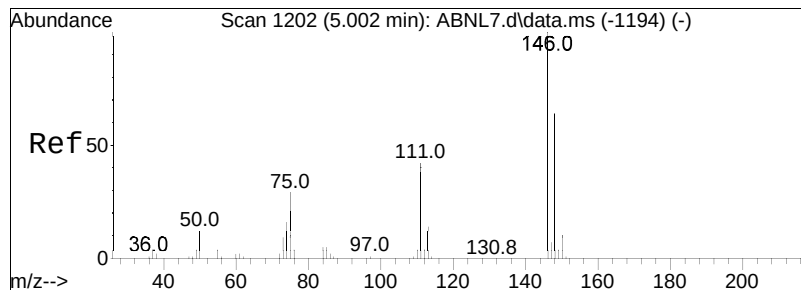




#11  
 1,4-Dichlorobenzene  
 Concen: 53.82 ug/ml  
 RT: 4.047 min Scan# 1042  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

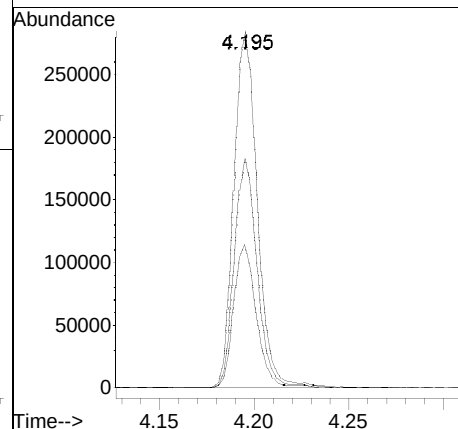
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 251539 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 62.7  | 51.6  | 77.4   |
| 111       | 37.1  | 35.3  | 52.9   |

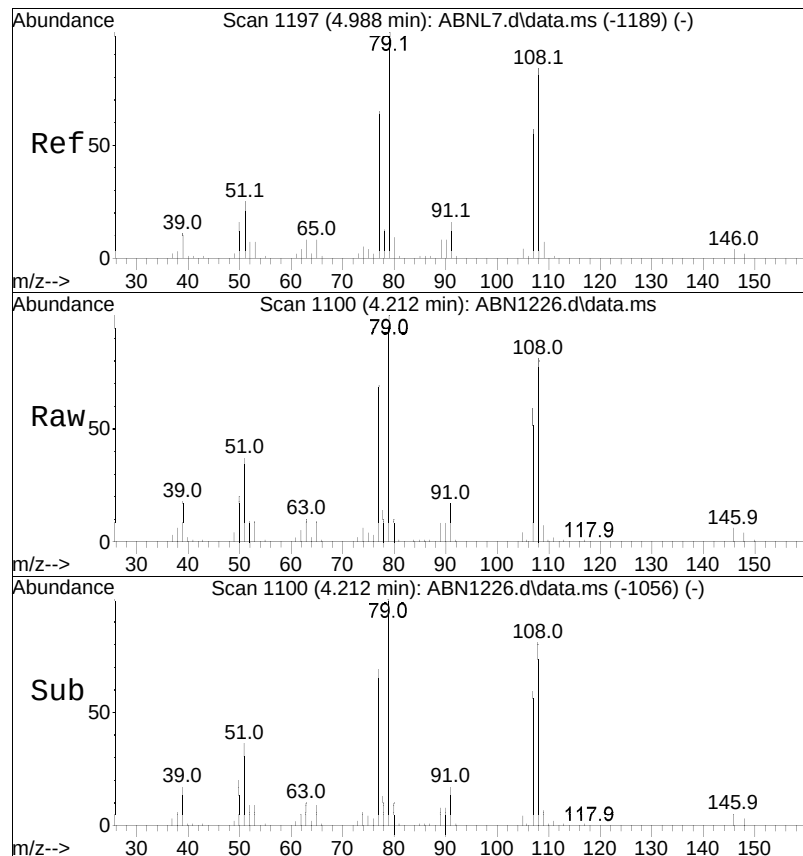




#12  
 1,2-Dichlorobenzene  
 Concen: 53.44 ug/ml  
 RT: 4.195 min Scan# 1094  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

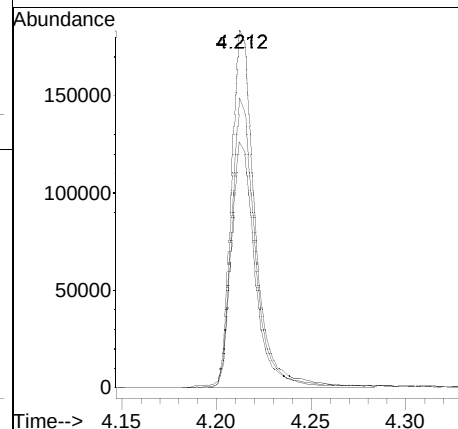
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.3  | 36.0  | 54.0  |
| 148     | 63.0  | 49.9  | 74.9  |

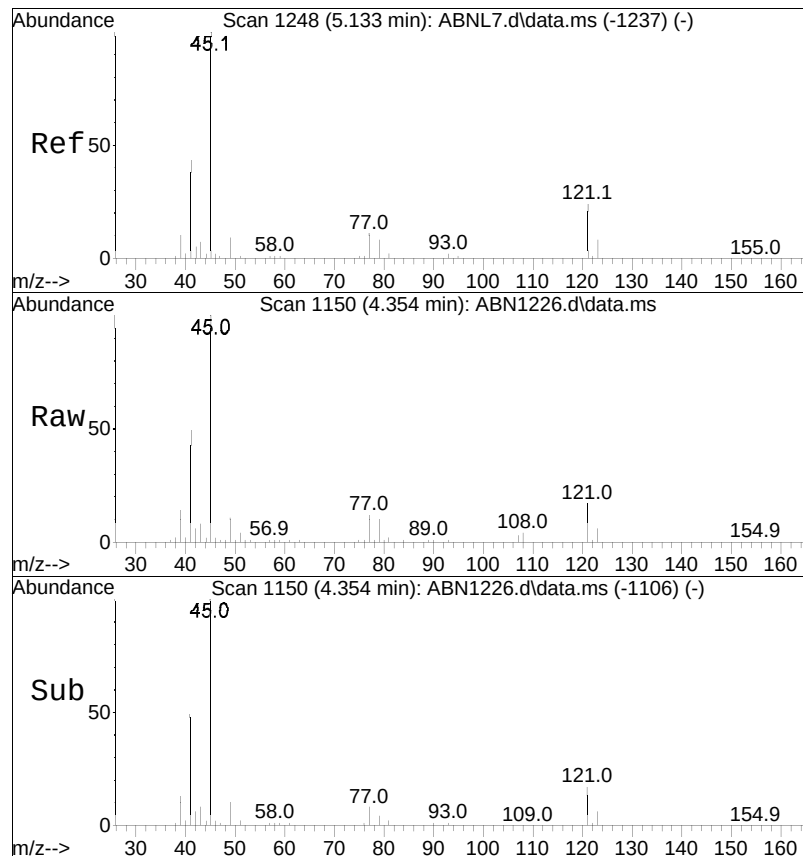




#13  
 Benzyl alcohol  
 Concen: 52.58 ug/ml  
 RT: 4.212 min Scan# 1100  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

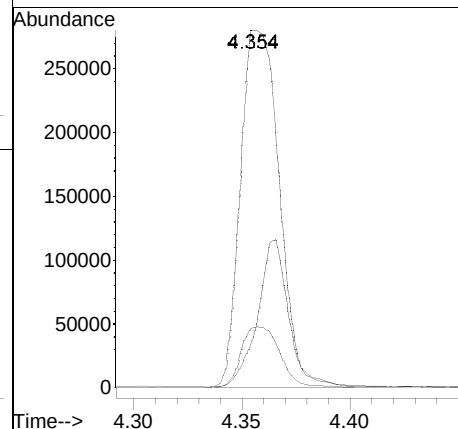
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 79    | Resp: | 160261 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 77        | 68.5  | 52.3  | 78.5   |
| 108       | 81.5  | 60.2  | 90.4   |

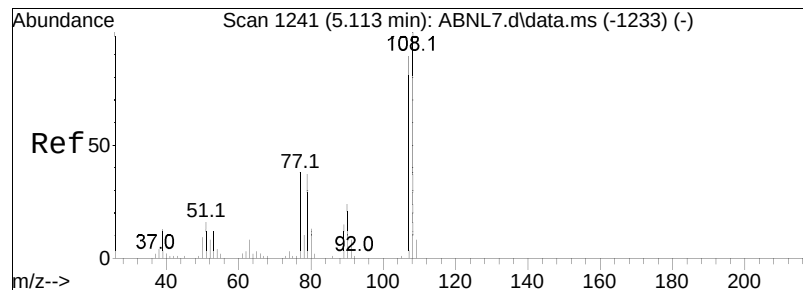




#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 44.32 ug/ml  
 RT: 4.354 min Scan# 1150  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

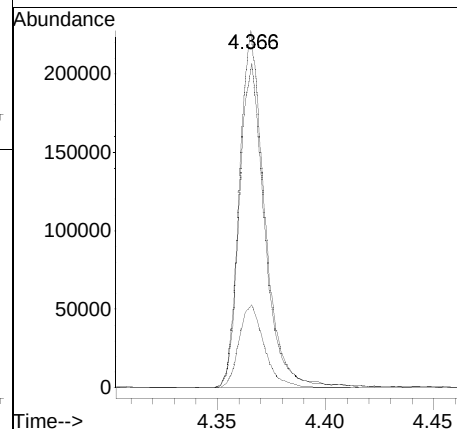
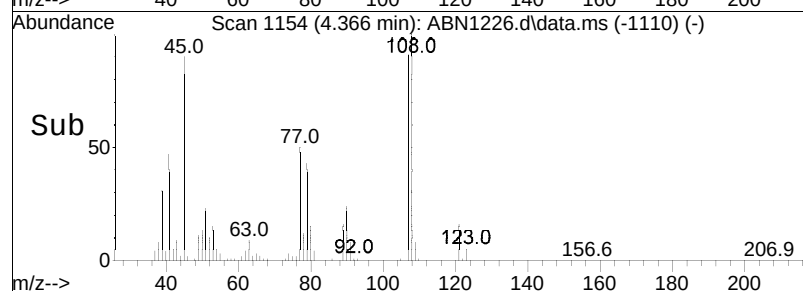
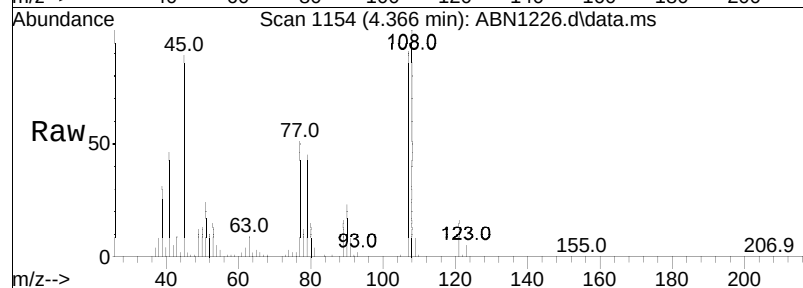
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 346517 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 121       | 17.0  | 12.6  | 19.0   |
| 77        | 33.4  | 26.4  | 39.6   |

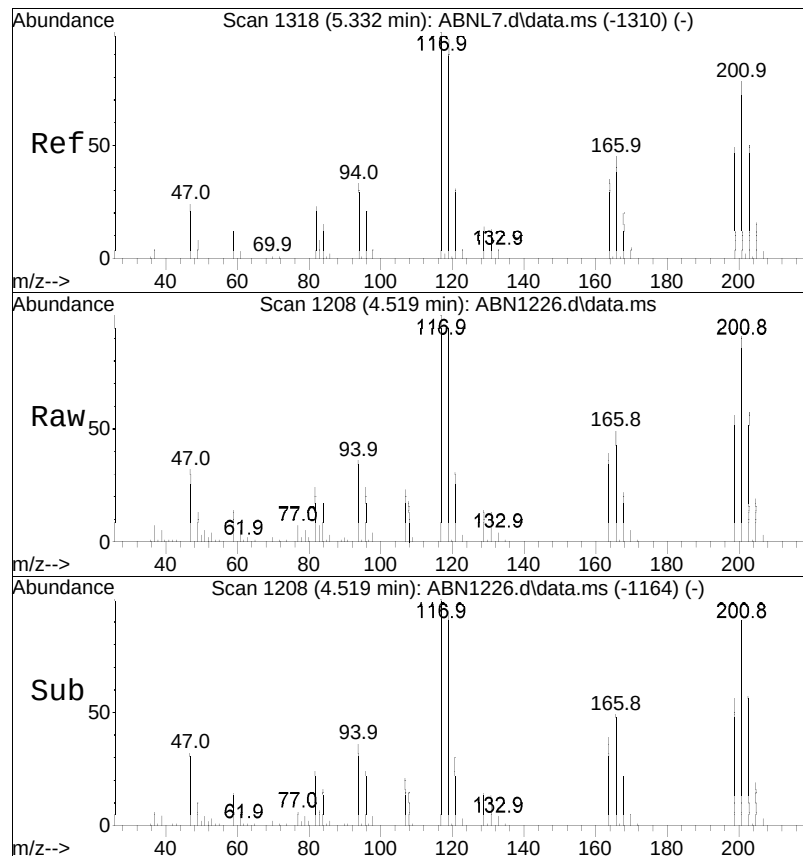




#15  
 2-Methylphenol  
 Concen: 50.12 ug/ml  
 RT: 4.366 min Scan# 1154  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

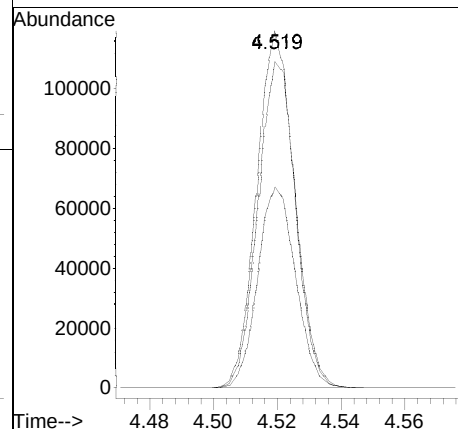
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 90.9  | 72.8  | 109.2 |
| 90      | 23.4  | 20.2  | 30.4  |

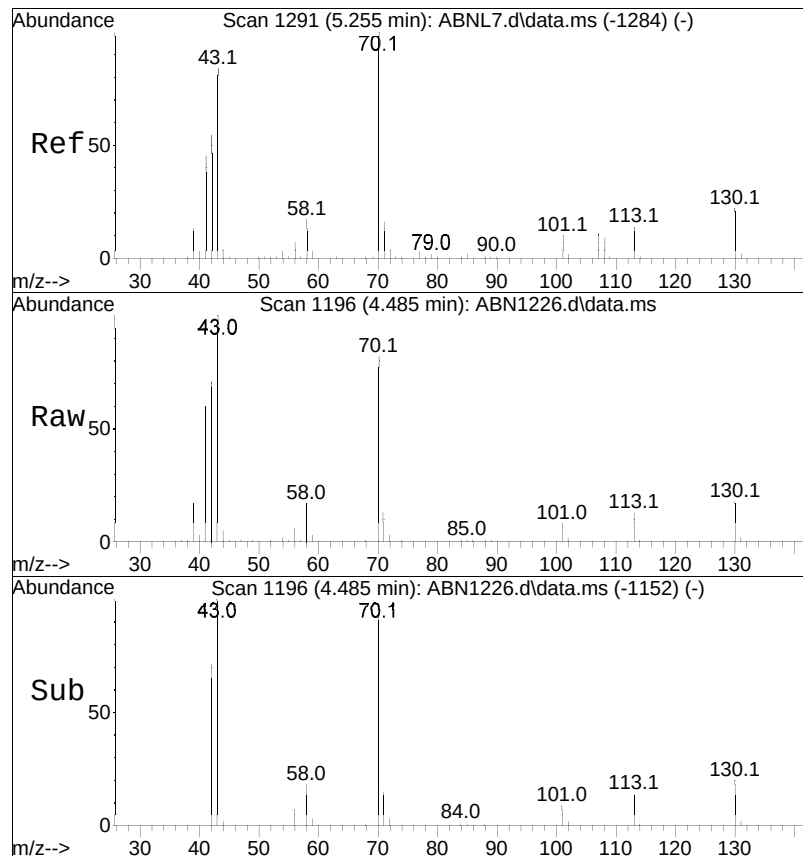




#16  
 Hexachloroethane  
 Concen: 51.78 ug/ml  
 RT: 4.519 min Scan# 1208  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

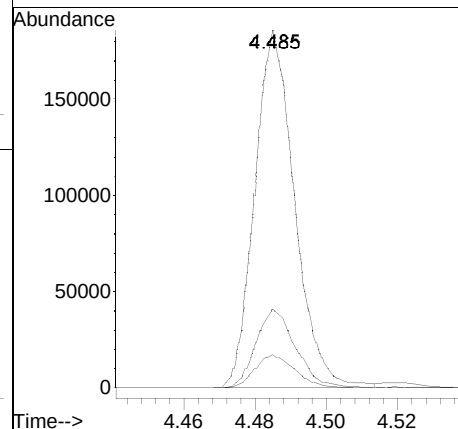
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 96800 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 93.3  | 64.5  | 96.7  |
| 199       | 57.2  | 40.3  | 60.5  |



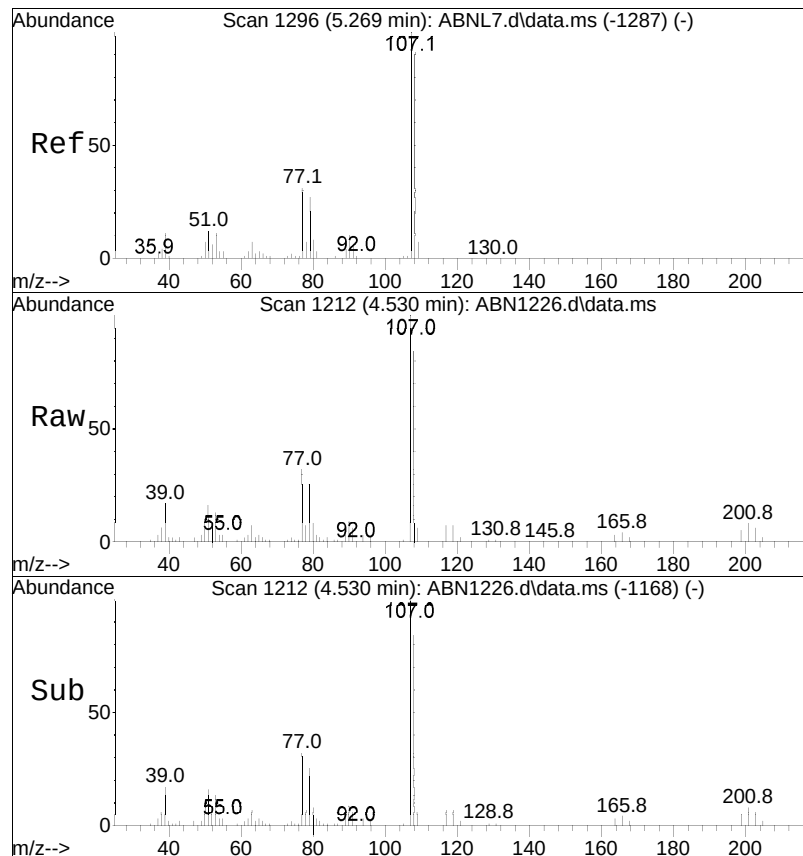


#17  
 n-Nitrosodi-n-propylamine  
 Concen: 50.02 ug/ml  
 RT: 4.485 min Scan# 1196  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 70    | Resp: | 143128 |
| Ion Ratio | Lower | Upper |        |
| 70        | 100   |       |        |
| 130       | 22.0  | 15.0  | 22.4   |
| 101       | 9.3   | 7.4   | 11.0   |

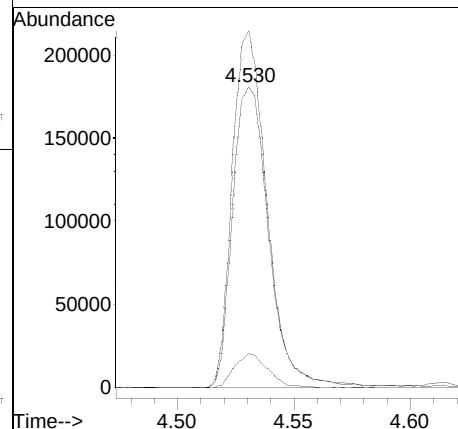


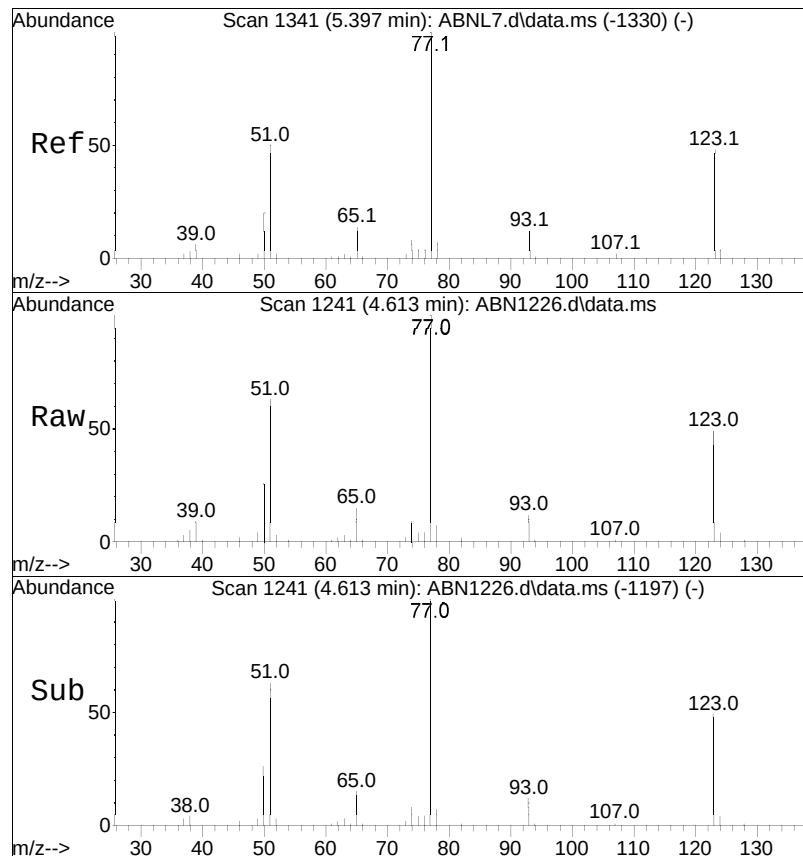




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 50.31 ug/ml  
 RT: 4.530 min Scan# 1212  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

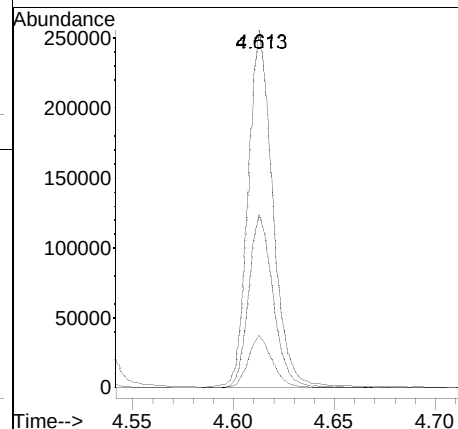
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:108 | Resp: | 194861 |
| Ion | Ratio   | Lower | Upper  |
| 108 | 100     |       |        |
| 107 | 115.0   | 90.4  | 135.6  |
| 90  | 11.1    | 9.2   | 13.8   |

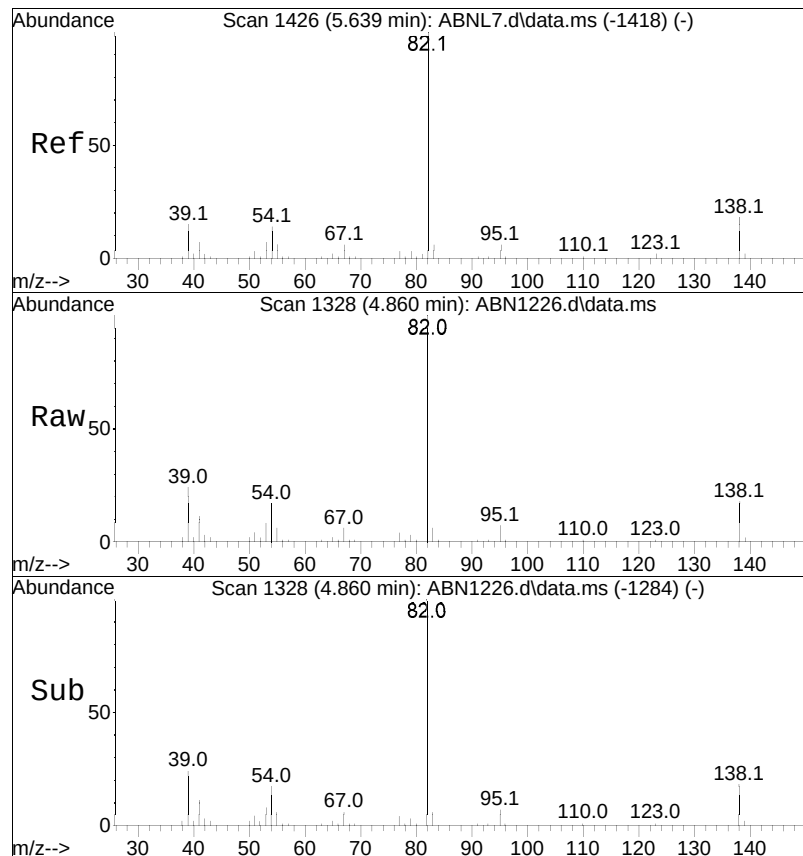




#20  
 Nitrobenzene  
 Concen: 51.66 ug/ml  
 RT: 4.613 min Scan# 1241  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

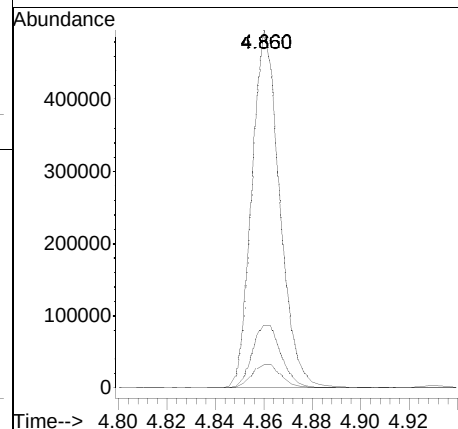
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 214360 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 48.6  | 35.0  | 52.4   |
| 65        | 14.5  | 11.5  | 17.3   |

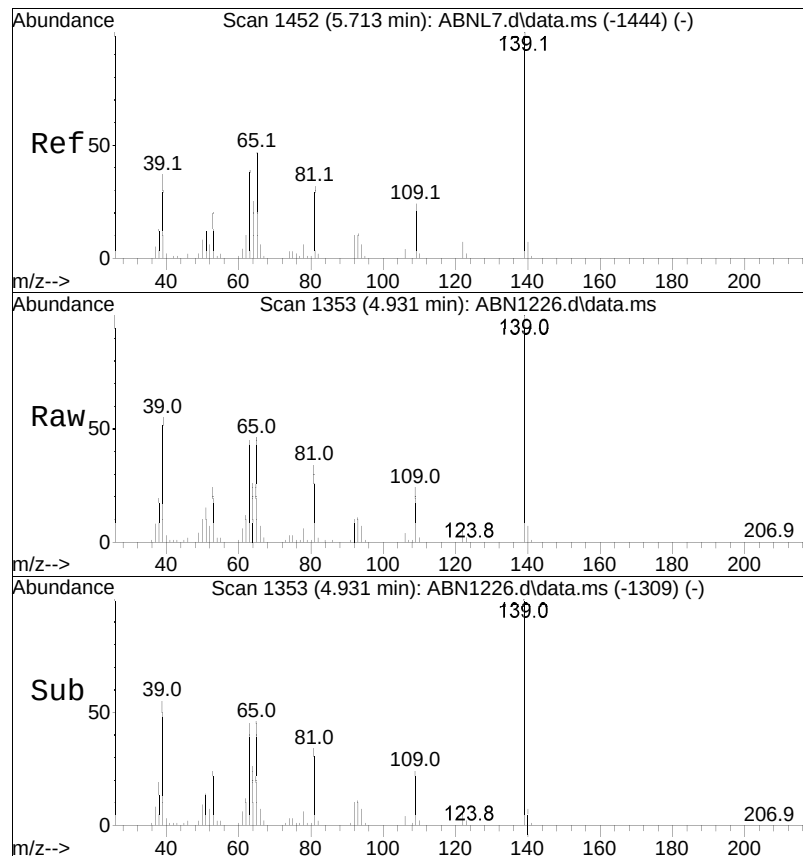




#21  
 Isophorone  
 Concen: 51.48 ug/ml  
 RT: 4.860 min Scan# 1328  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

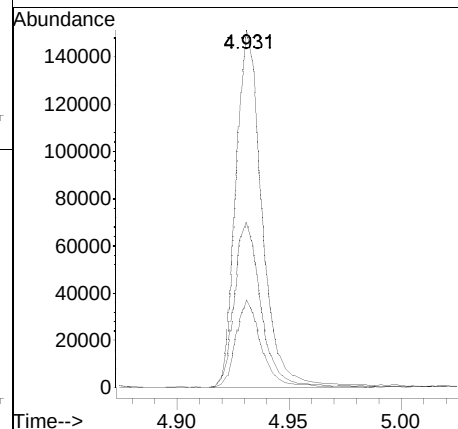
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 392626 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 138       | 18.5  | 12.8  | 19.2   |
| 95        | 7.1   | 5.5   | 8.3    |

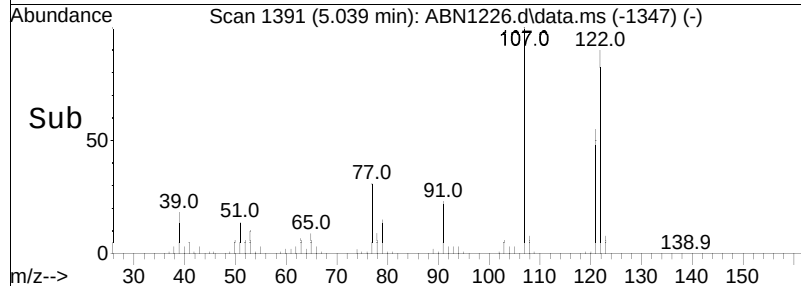
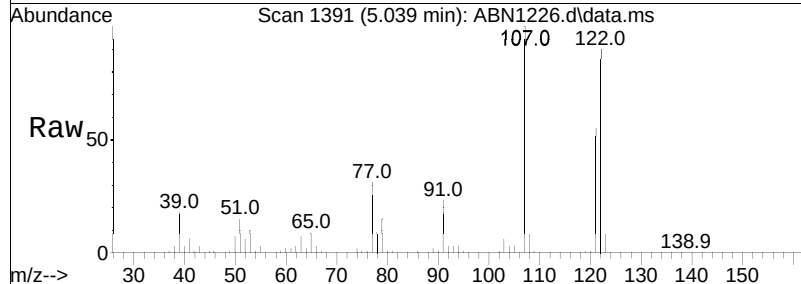
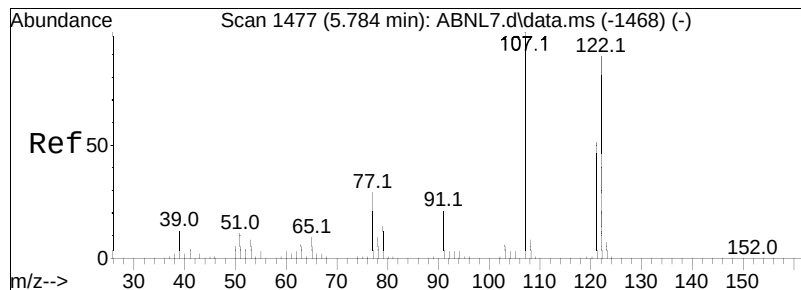




#22  
 2-Nitrophenol  
 Concen: 55.50 ug/ml  
 RT: 4.931 min Scan# 1353  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

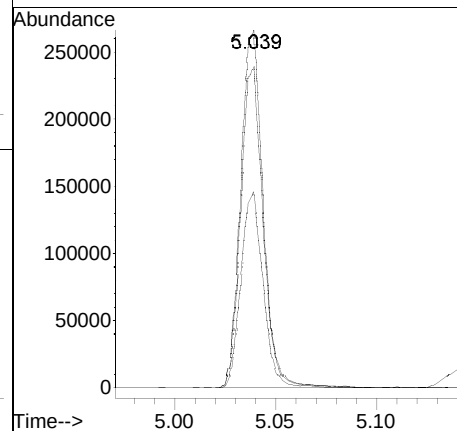
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 139   | Resp: | 122747 |
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 23.8  | 24.8  | 37.2#  |
| 65        | 46.8  | 45.5  | 68.3   |

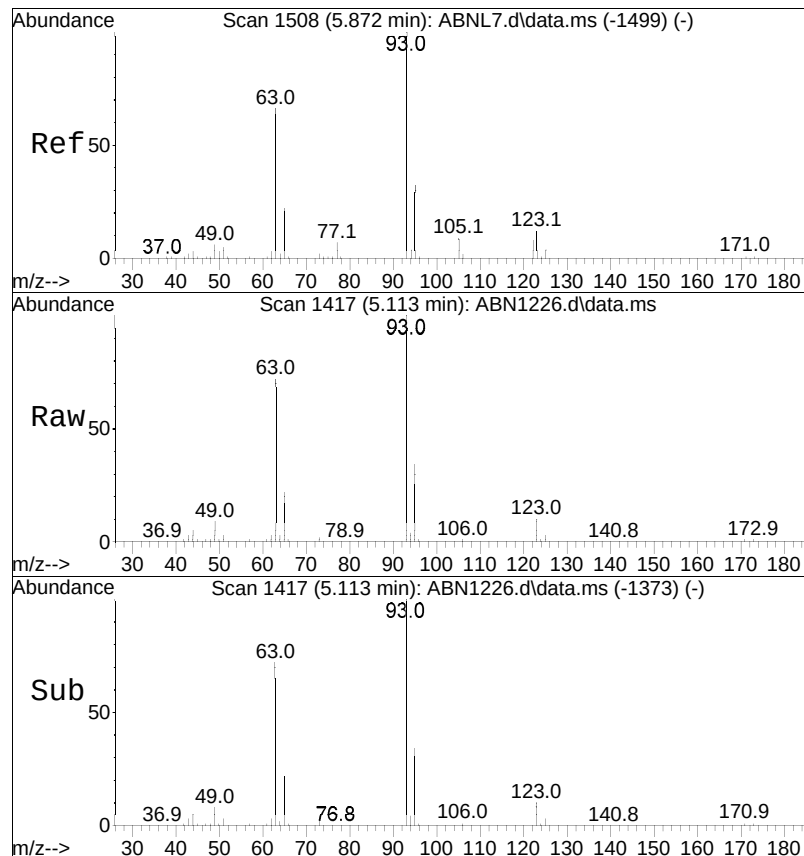




#23  
 2,4-Dimethylphenol  
 Concen: 53.19 ug/ml  
 RT: 5.039 min Scan# 1391  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

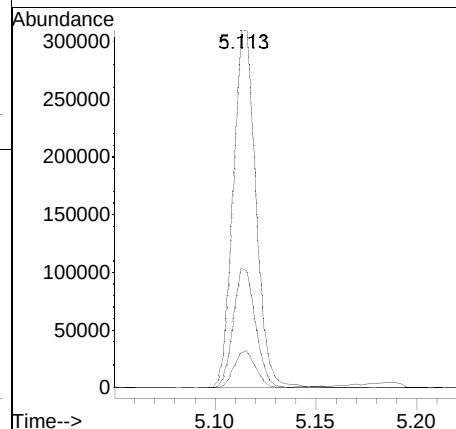
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 205282 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 54.2  | 39.7  | 59.5   |
| 122       | 89.6  | 66.8  | 100.2  |

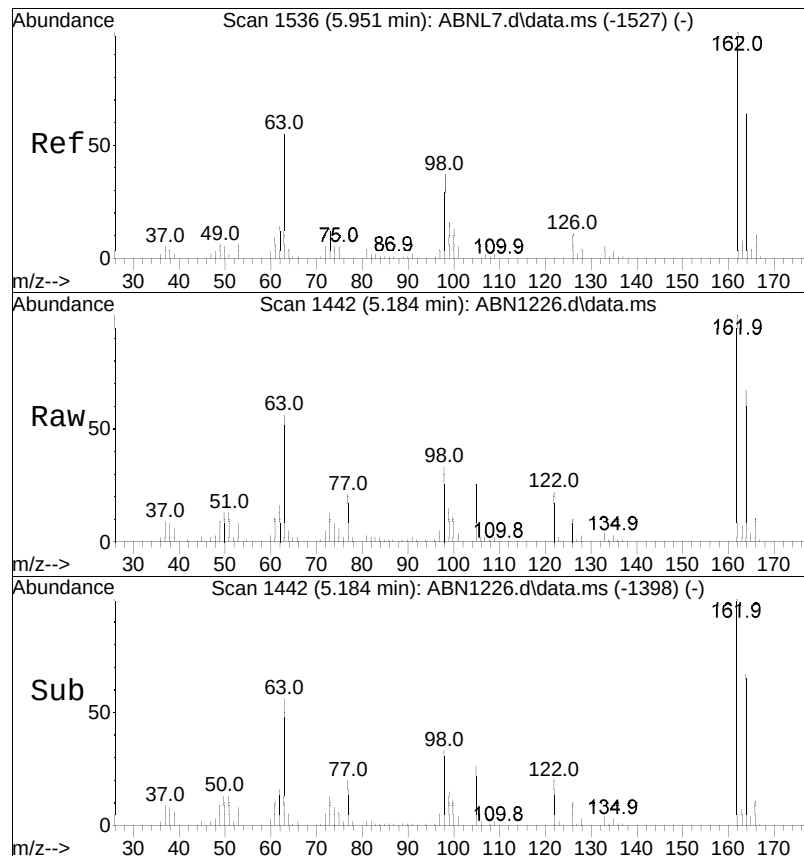




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 51.80 ug/ml  
 RT: 5.113 min Scan# 1417  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

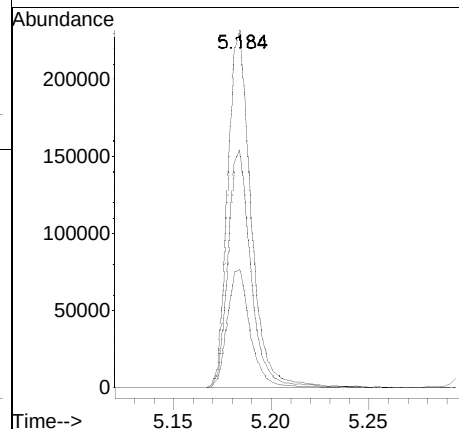
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 241212 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 33.0  | 26.1  | 39.1   |
| 123       | 10.1  | 9.8   | 14.8   |

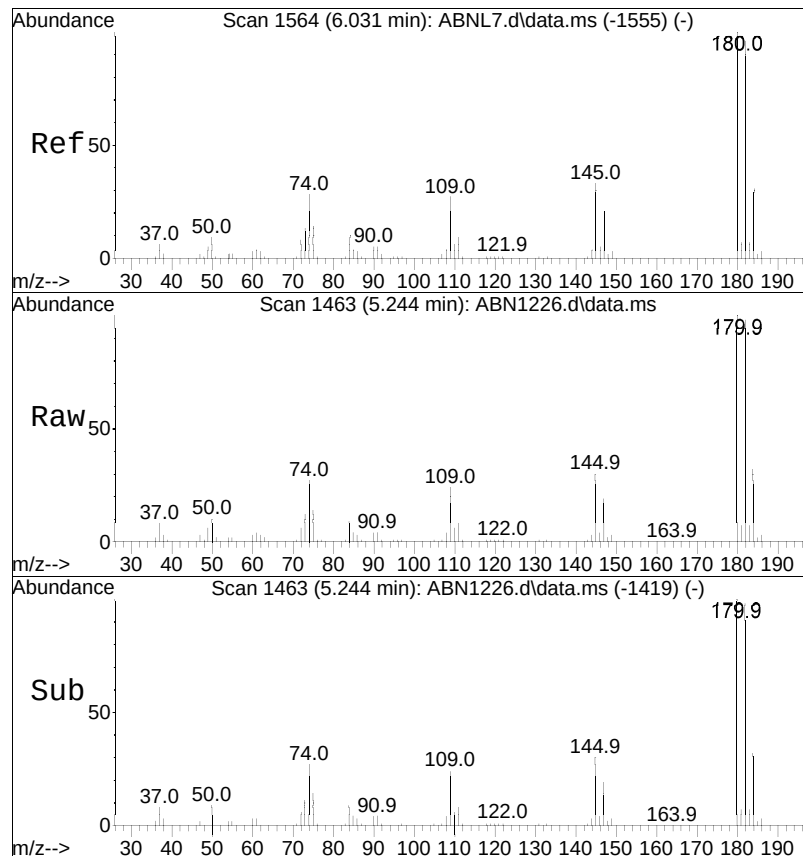




#25  
 2,4-Dichlorophenol  
 Concen: 53.27 ug/ml  
 RT: 5.184 min Scan# 1442  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

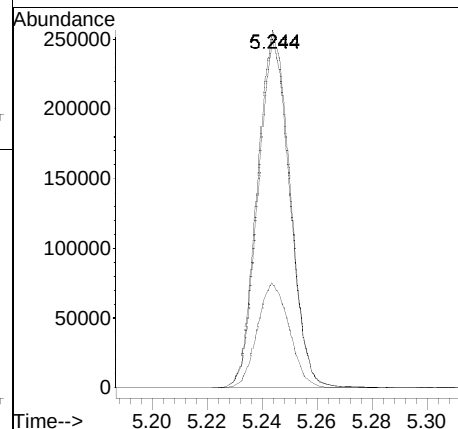
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 192300 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 65.2  | 50.4  | 75.6   |
| 98        | 33.0  | 31.6  | 47.4   |



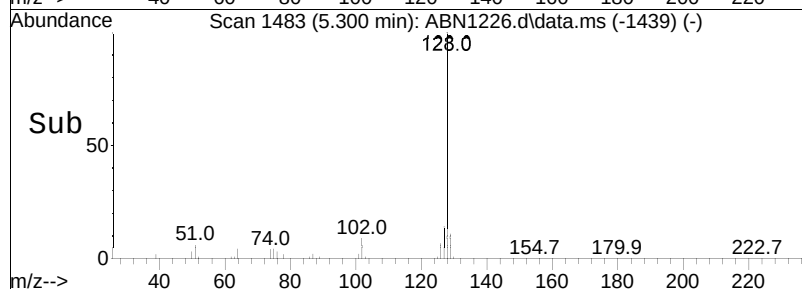
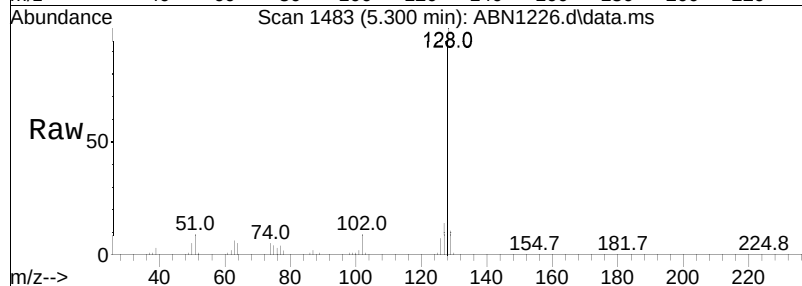
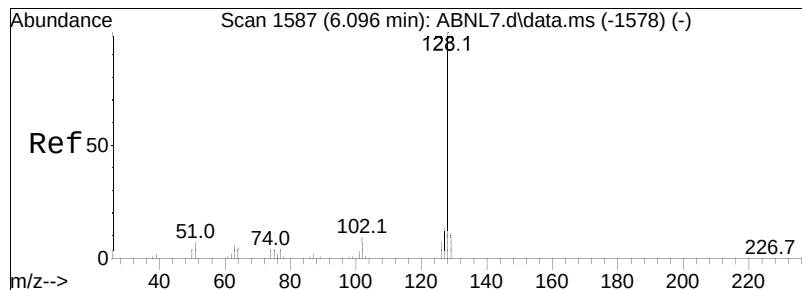


#26  
 1,2,4-Trichlorobenzene  
 Concen: 53.33 ug/ml  
 RT: 5.244 min Scan# 1463  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 210050 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.9  | 74.7  | 112.1  |
| 145       | 28.7  | 26.6  | 39.8   |

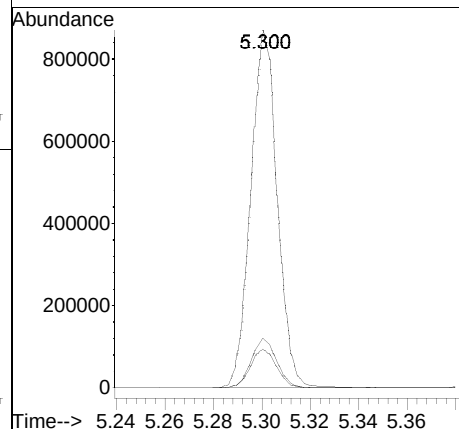


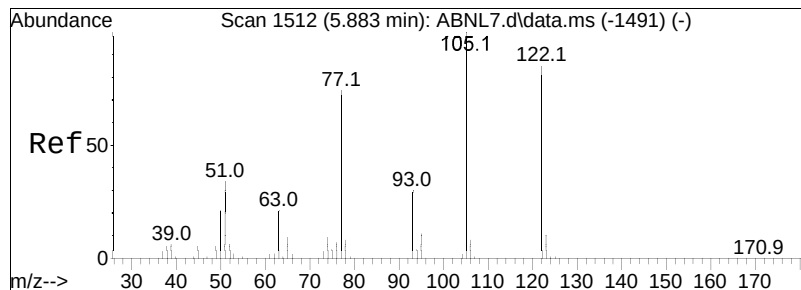




#36  
Naphthalene  
Concen: 52.27 ug/ml  
RT: 5.300 min Scan# 1483  
Delta R.T. 0.000 min  
Lab File: ABN1226.d  
Acq: 26 Dec 2019 9:52 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.7   | 13.1  |
| 127     | 13.6  | 10.7  | 16.1  |





#37

Benzoic Acid

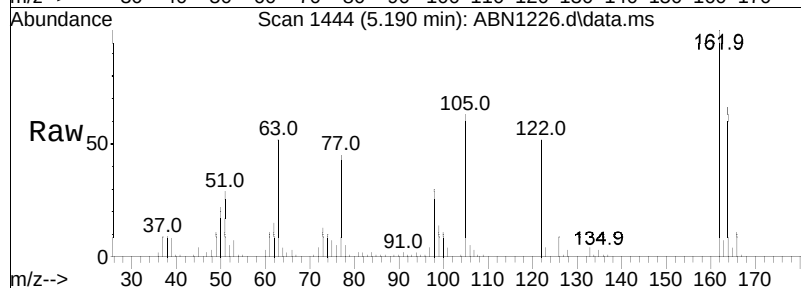
Concen: 56.50 ug/ml

RT: 5.190 min Scan# 1444

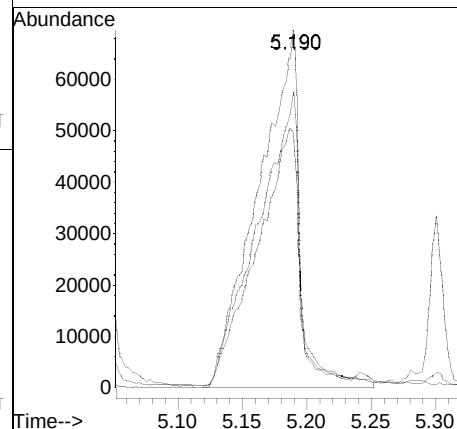
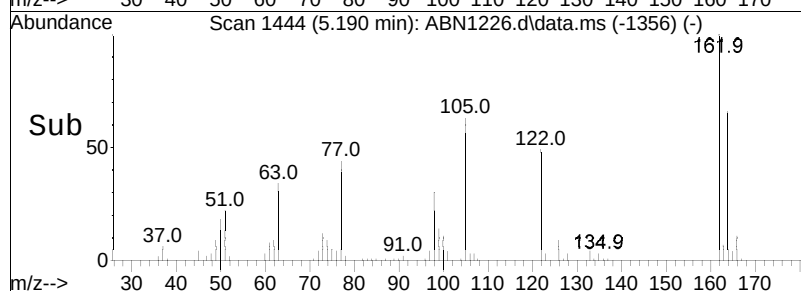
Delta R.T. 0.000 min

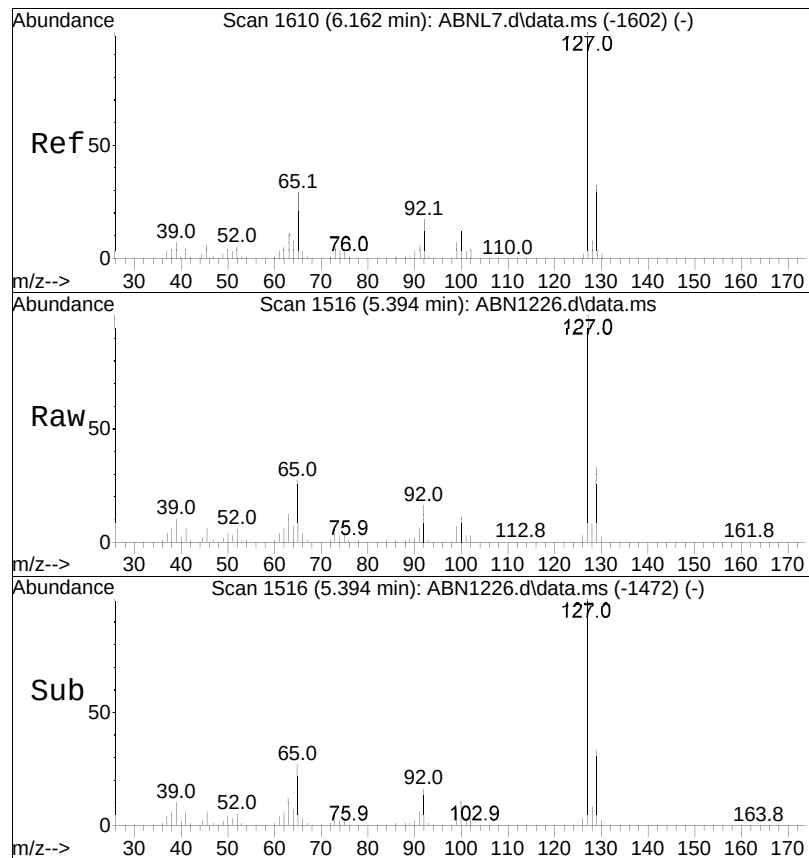
Lab File: ABN1226.d

Acq: 26 Dec 2019 9:52 am



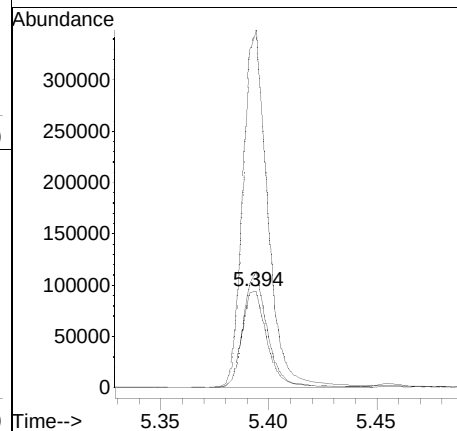
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 158453 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 122       | 83.1  | 61.8  | 92.6   |
| 77        | 72.6  | 62.2  | 93.4   |

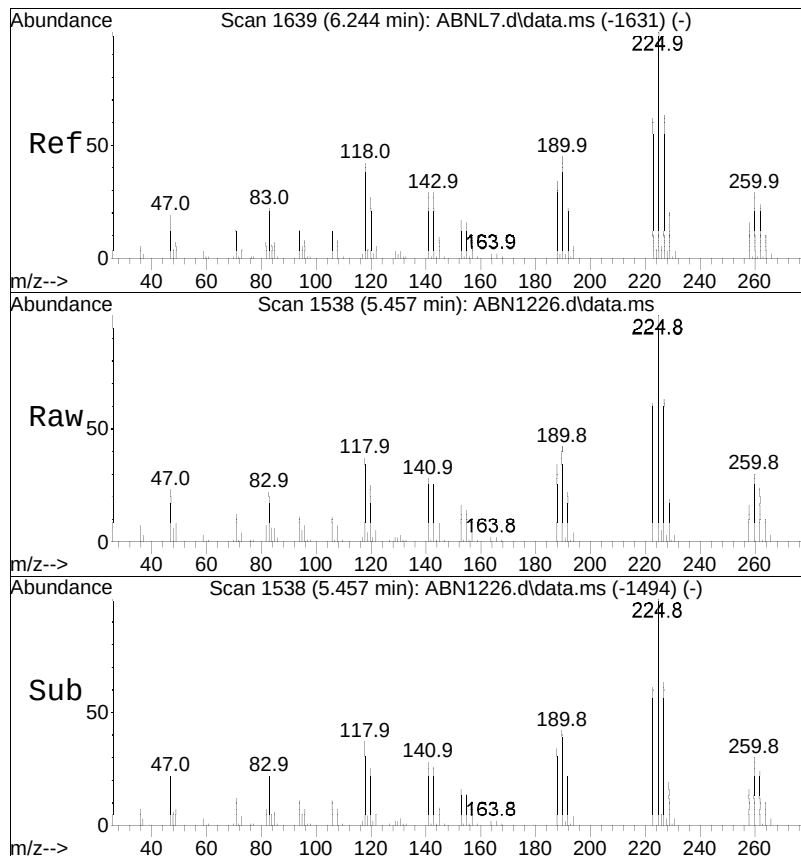




#38  
 4-Chloroaniline  
 Concen: 51.01 ug/ml  
 RT: 5.394 min Scan# 1516  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

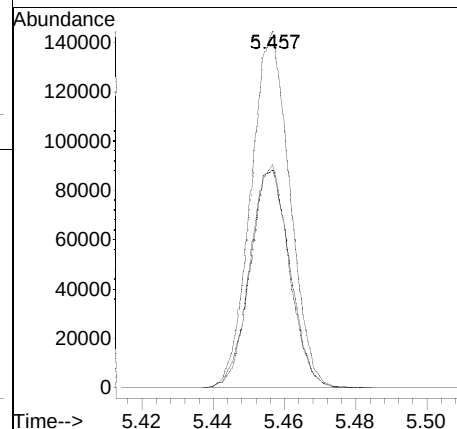
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 65 | Resp: | 76443  |
| Ion | Ratio   | Lower | Upper  |
| 65  | 100     |       |        |
| 127 | 361.2   | 233.2 | 349.8# |
| 129 | 114.7   | 74.6  | 111.8# |

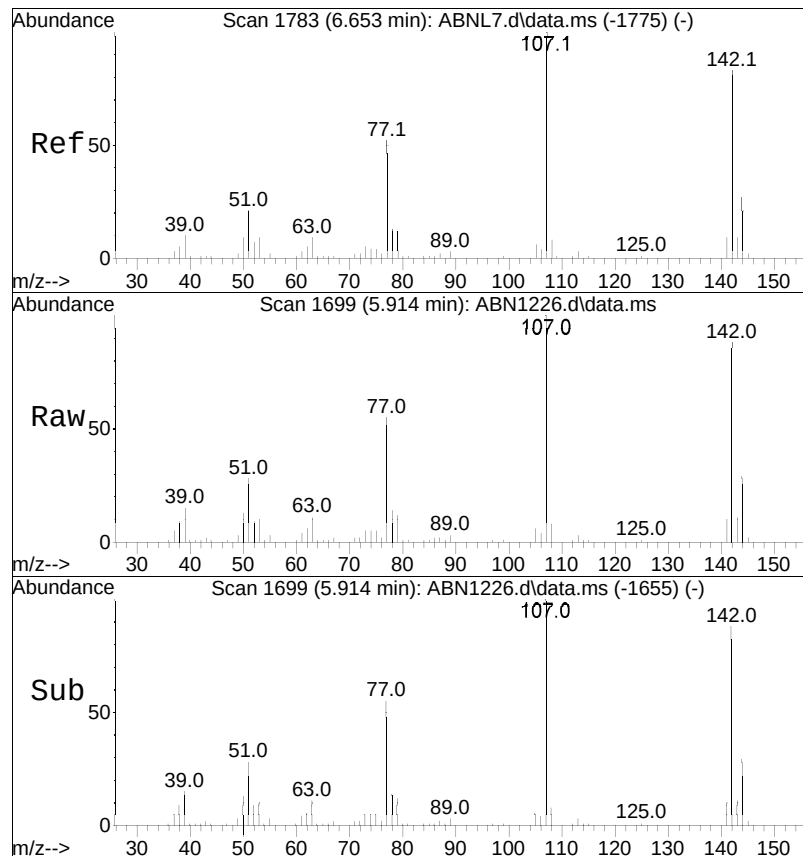




#39  
 Hexachlorobutadiene  
 Concen: 51.35 ug/ml  
 RT: 5.457 min Scan# 1538  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

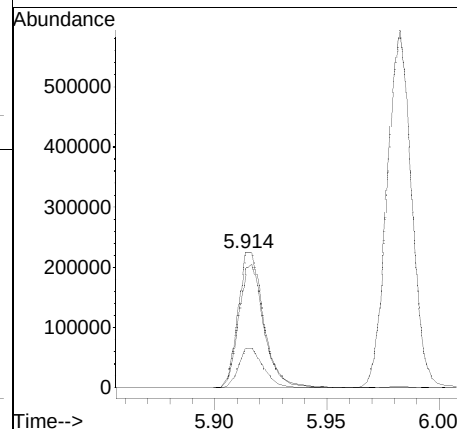
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 108981 |       |       |
| 223     | 62.6  |        | 49.4  | 74.0  |
| 227     | 62.7  |        | 50.8  | 76.2  |

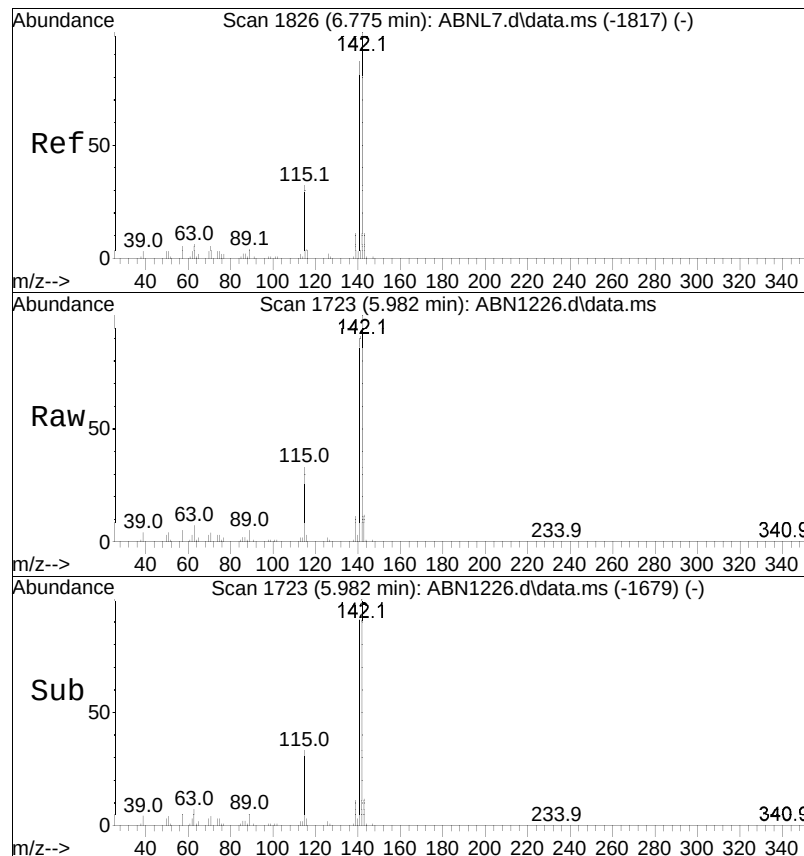




#40  
 p-Chloro-m-cresol  
 Concen: 53.29 ug/ml  
 RT: 5.914 min Scan# 1699  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

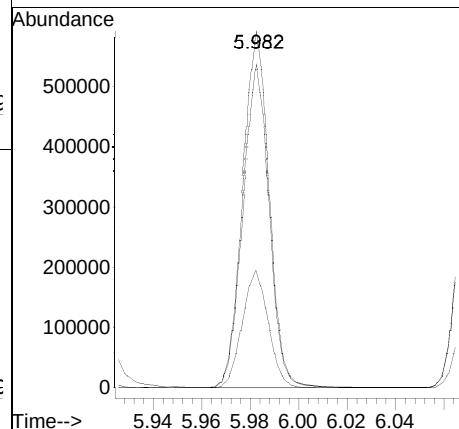
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 28.8  | 19.6  | 29.4  |
| 142     | 88.7  | 62.2  | 93.4  |

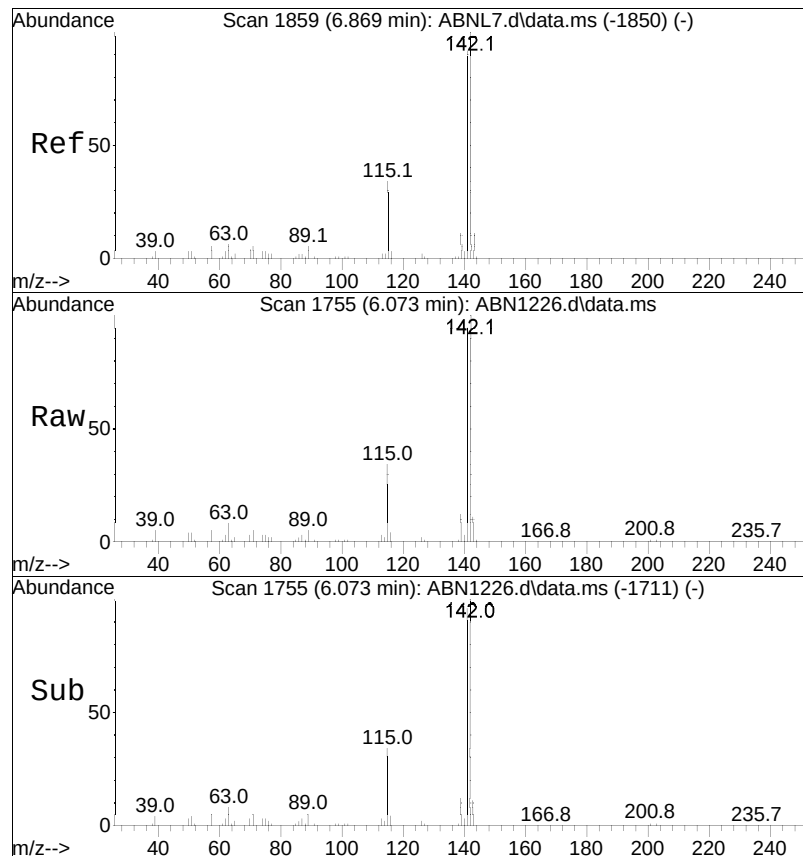




#41  
 2-Methylnaphthalene  
 Concen: 51.89 ug/ml  
 RT: 5.982 min Scan# 1723  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

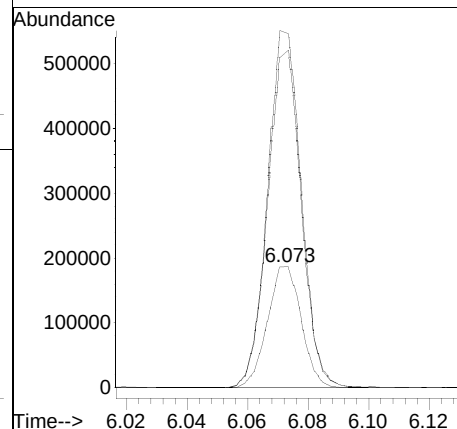
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 448765 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 90.3  | 71.8  | 107.8  |
| 115       | 32.9  | 29.1  | 43.7   |

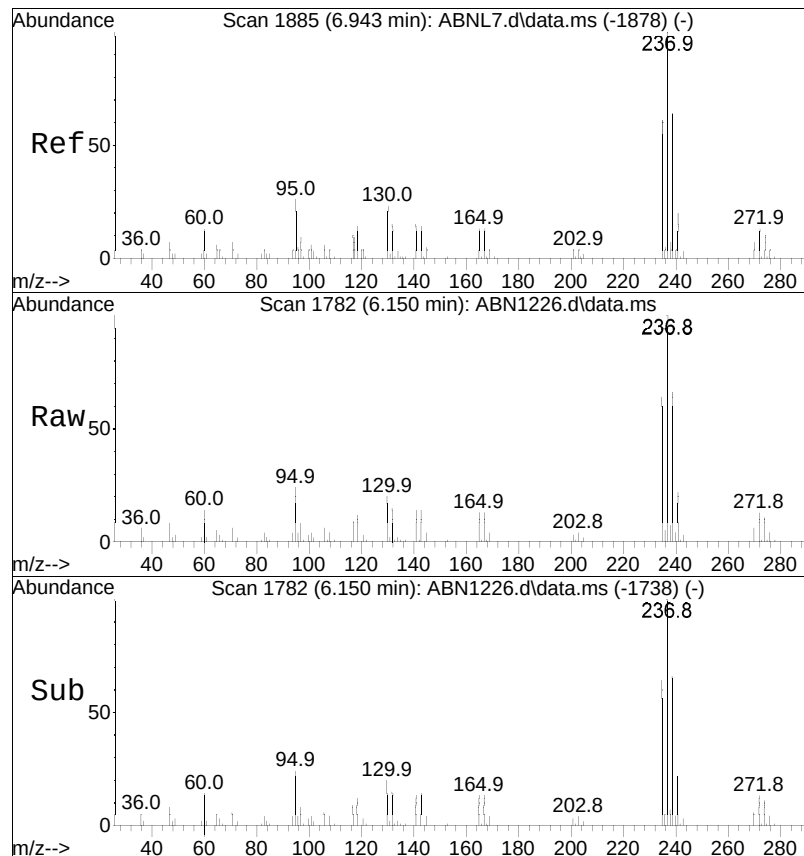




#42  
 1-Methylnaphthalene  
 Concen: 53.15 ug/ml  
 RT: 6.073 min Scan# 1755  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

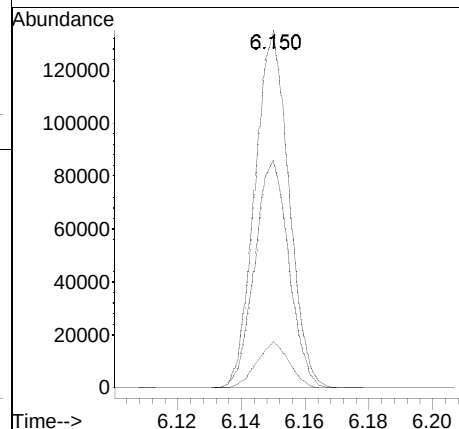
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 115     | 100   |       |       |
| 141     | 277.1 | 196.6 | 294.8 |
| 142     | 292.7 | 209.2 | 313.8 |



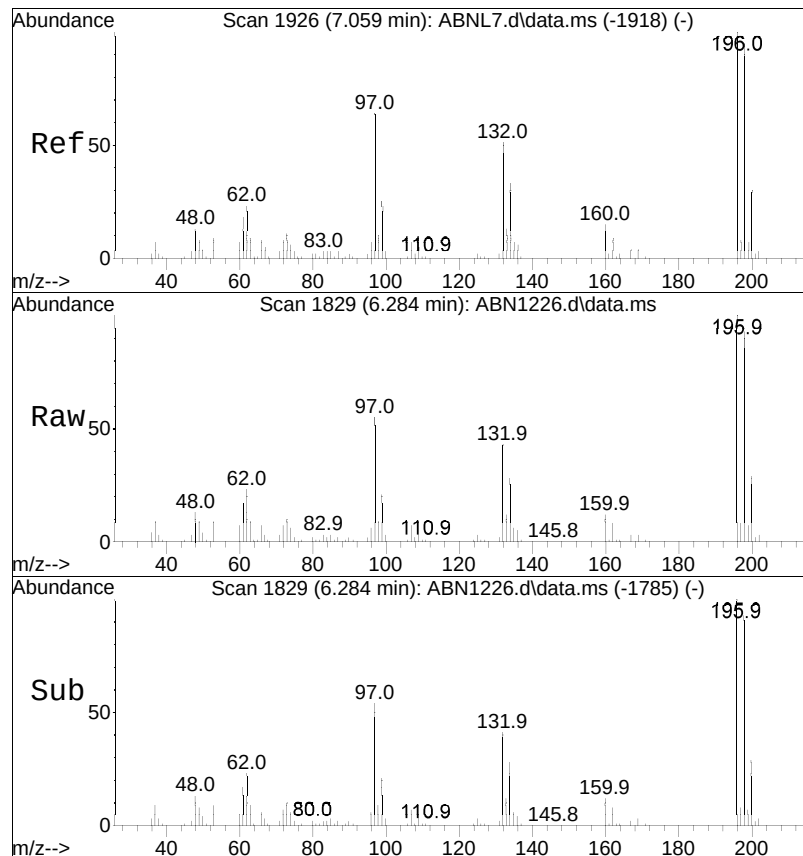


#43  
 Hexachlorocyclopentadiene  
 Concen: 42.74 ug/ml  
 RT: 6.150 min Scan# 1782  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:237 | Resp: | 99431 |
| Ion | Ratio   | Lower | Upper |
| 237 | 100     |       |       |
| 235 | 63.9    | 47.8  | 71.6  |
| 272 | 12.4    | 10.4  | 15.6  |

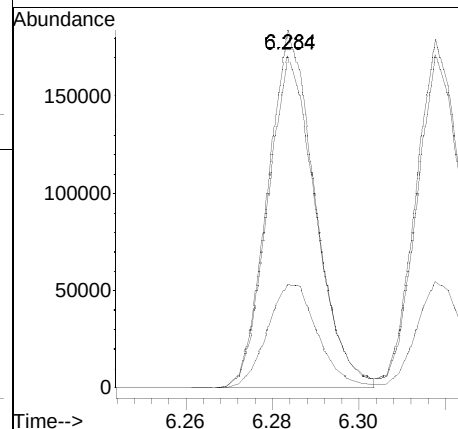


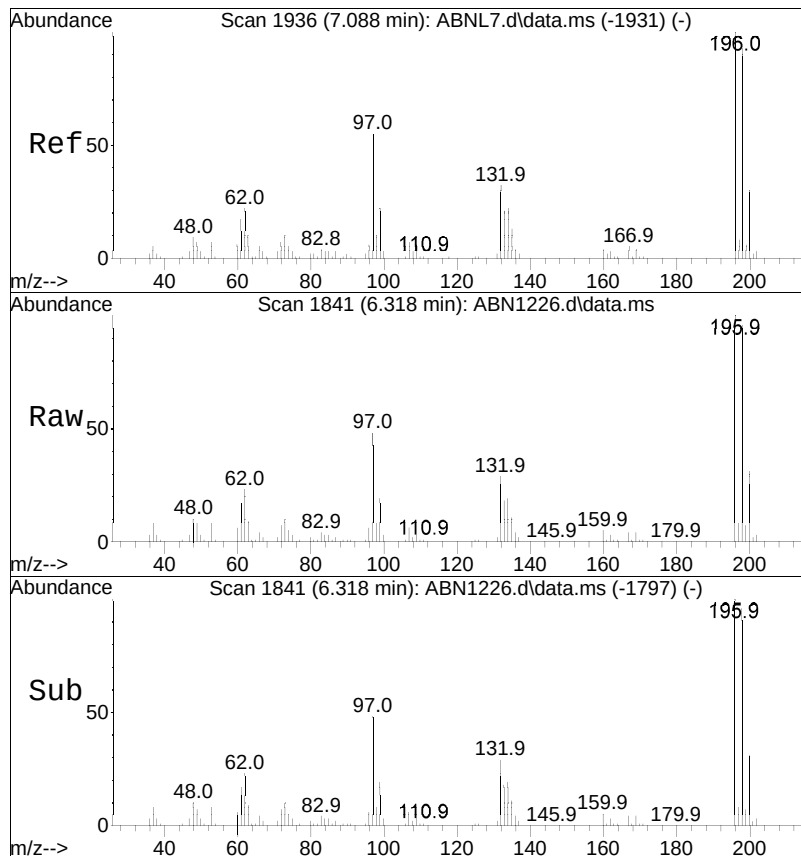




#44  
 2,4,6-Trichlorophenol  
 Concen: 54.55 ug/ml  
 RT: 6.284 min Scan# 1829  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

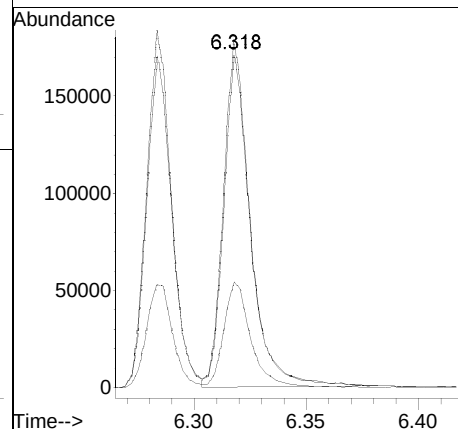
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 140769 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 93.5  | 81.5  | 122.3  |
| 200       | 30.7  | 26.2  | 39.2   |

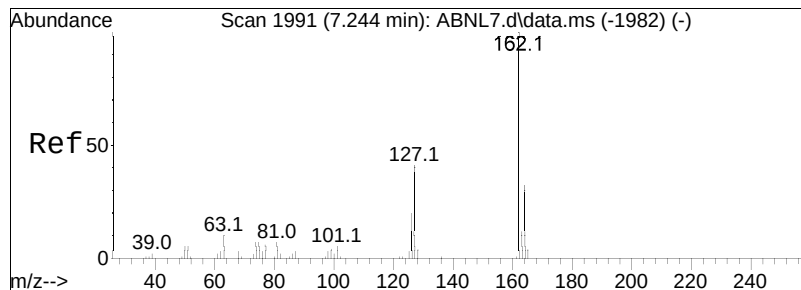




#45  
 2,4,5-Trichlorophenol  
 Concen: 53.74 ug/ml  
 RT: 6.318 min Scan# 1841  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

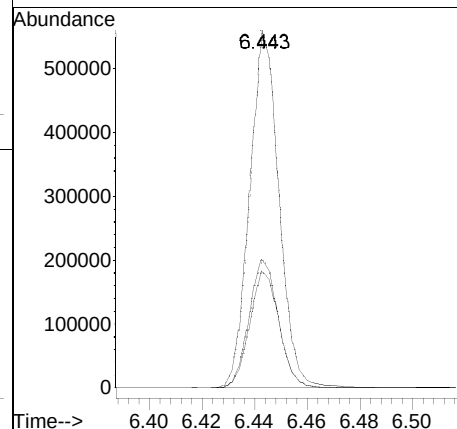
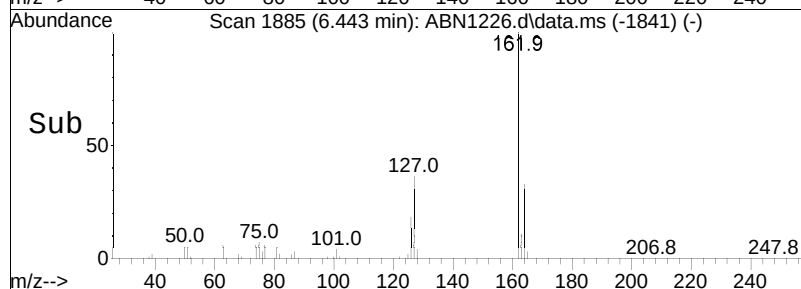
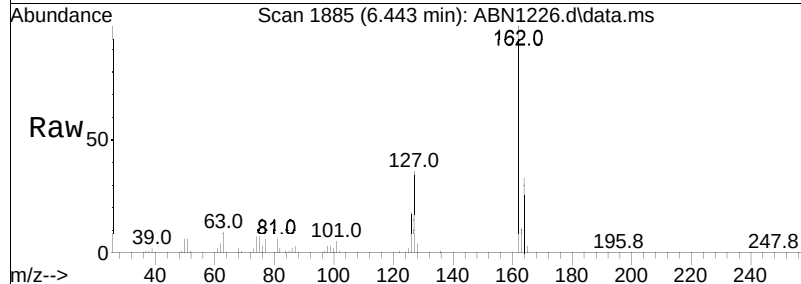
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 147928 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 31.7  | 25.5  | 38.3   |
| 198       | 95.7  | 79.2  | 118.8  |

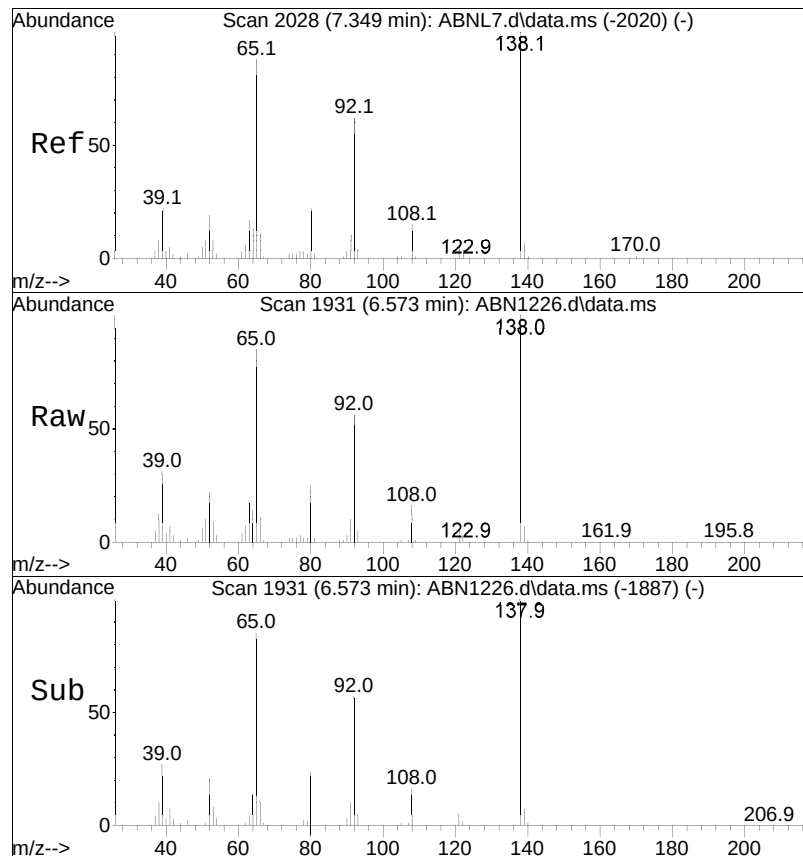




#47  
 2-Chloronaphthalene  
 Concen: 53.99 ug/ml  
 RT: 6.443 min Scan# 1885  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

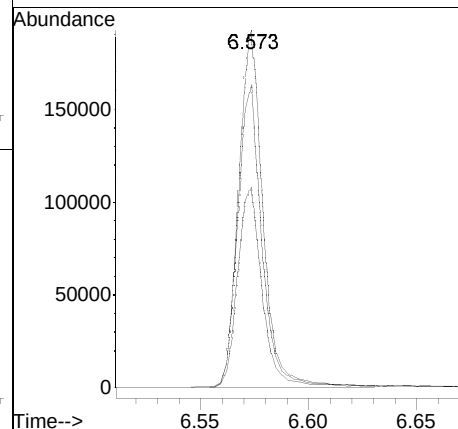
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 429692 |       |       |
| 127     | 36.3  |        | 33.6  | 50.4  |
| 164     | 33.2  |        | 25.8  | 38.8  |

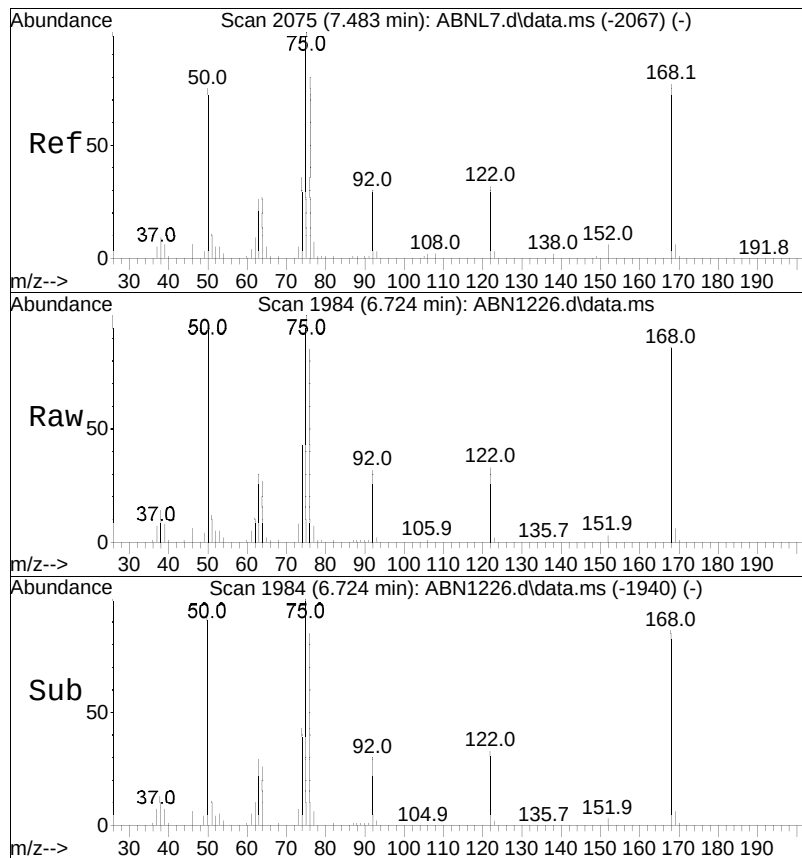




#48  
 2-Nitroaniline  
 Concen: 55.68 ug/ml  
 RT: 6.573 min Scan# 1931  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

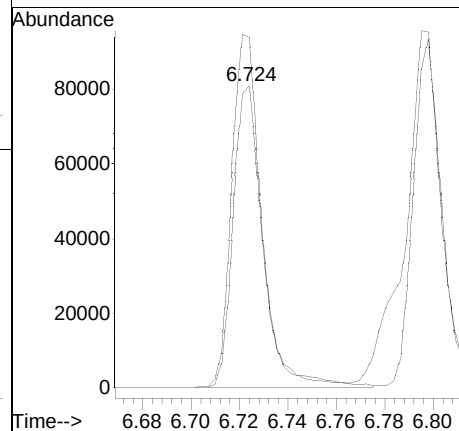
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 149652 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 56.8  | 54.2  | 81.2   |
| 65        | 84.7  | 82.8  | 124.2  |

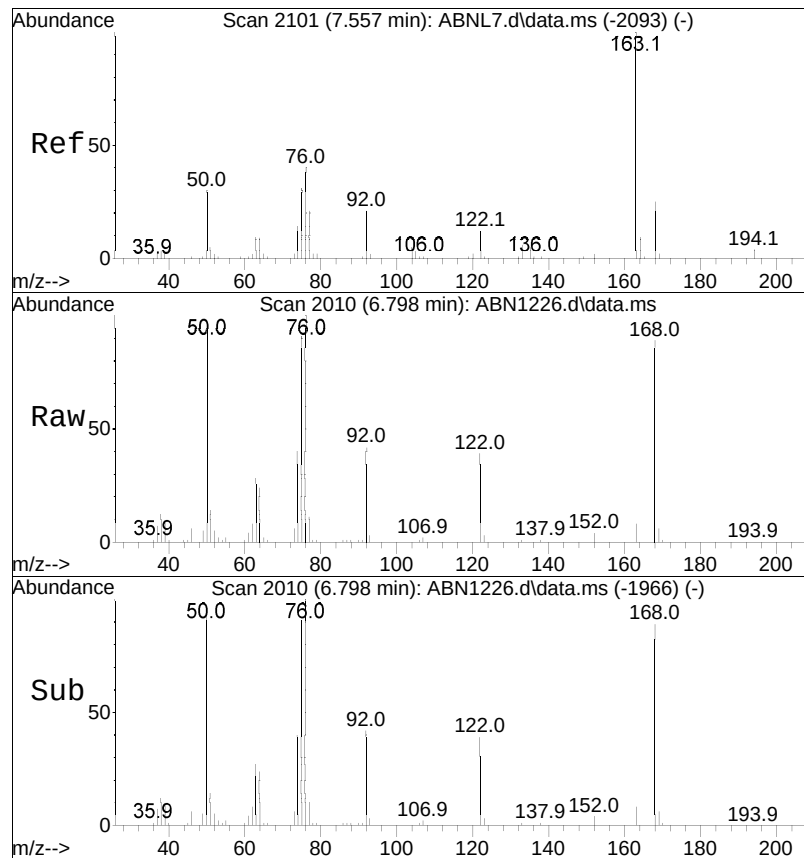




#49  
 1,4-Dinitrobenzene  
 Concen: 54.36 ug/ml  
 RT: 6.724 min Scan# 1984  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

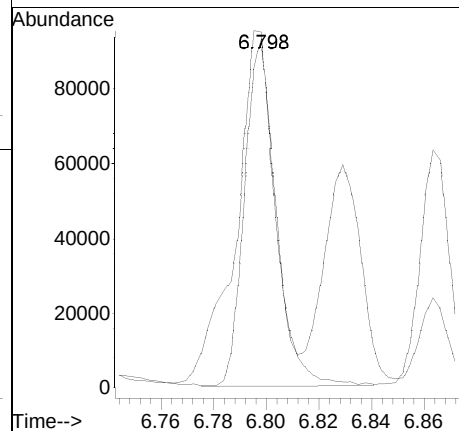
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 168     | 100   |       |        |
| 75      | 118.7 | 120.1 | 180.1# |

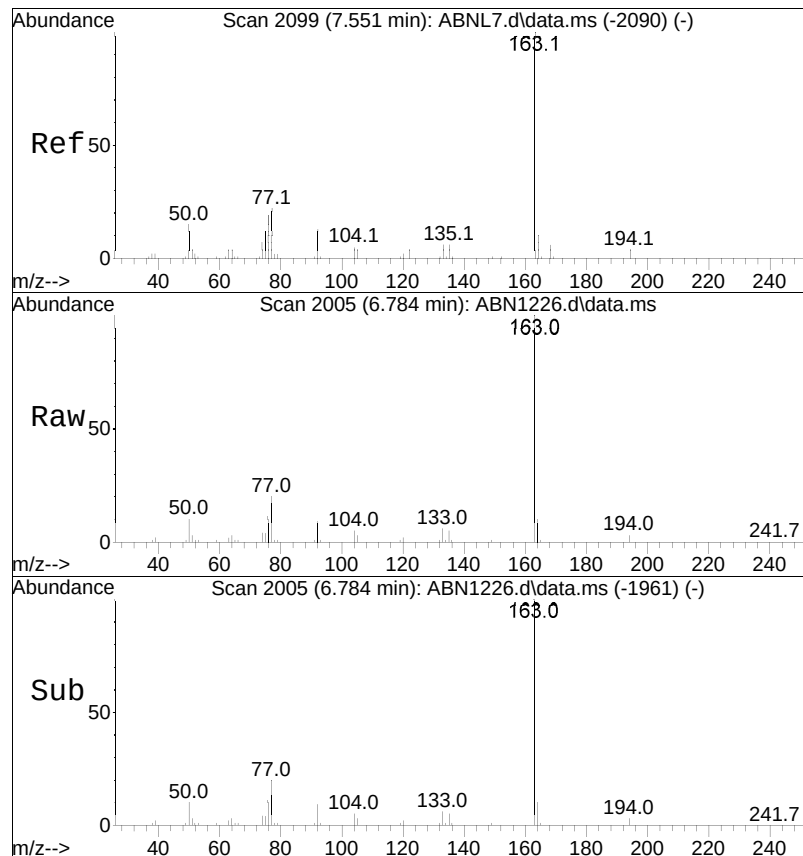




#50  
 1,3-Dinitrobenzene  
 Concen: 54.95 ug/ml  
 RT: 6.798 min Scan# 2010  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

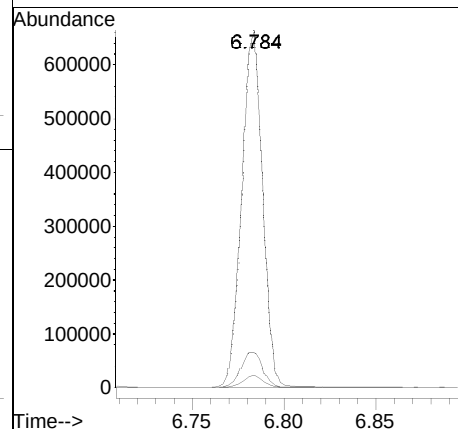
Tgt Ion:168 Resp: 77957  
 Ion Ratio Lower Upper  
 168 100  
 75 125.0 123.2 184.8

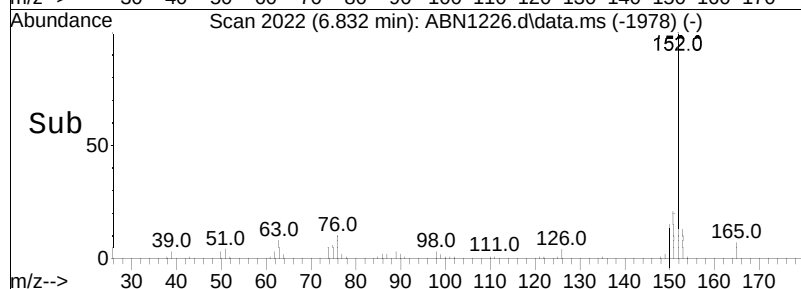
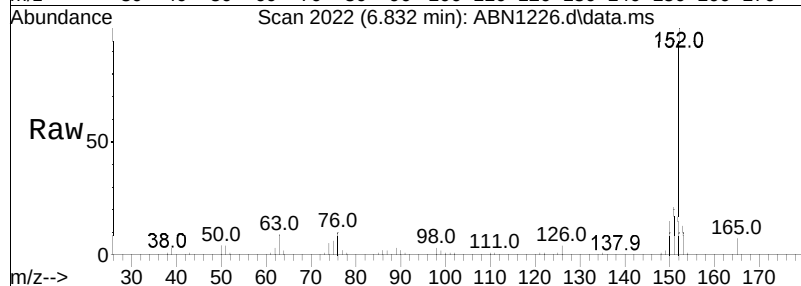
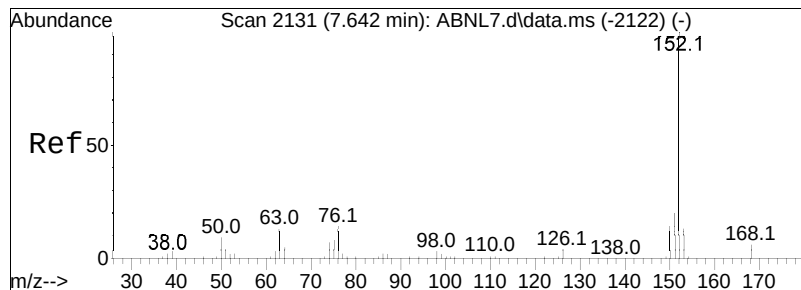




#51  
 Dimethyl phthalate  
 Concen: 52.70 ug/ml  
 RT: 6.784 min Scan# 2005  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

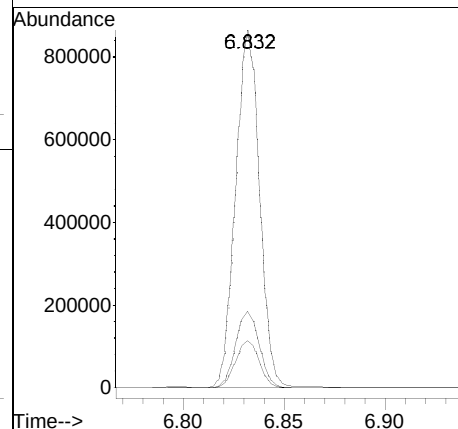
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 516562 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.1   | 2.6   | 4.0    |
| 164       | 10.6  | 8.2   | 12.4   |



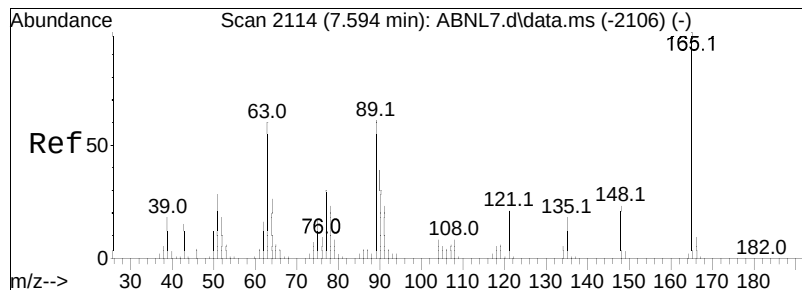


#52  
 Acenaphthylene  
 Concen: 52.57 ug/ml  
 RT: 6.832 min Scan# 2022  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 21.5  | 16.4  | 24.6  |
| 153     | 13.3  | 11.0  | 16.6  |

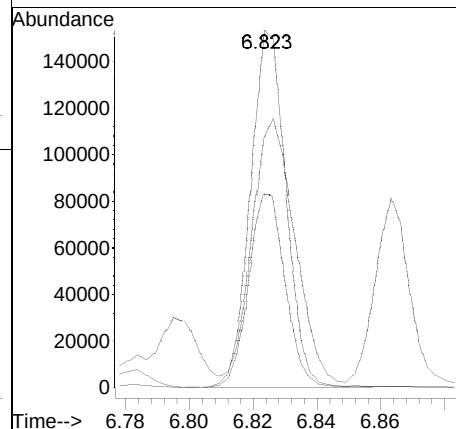
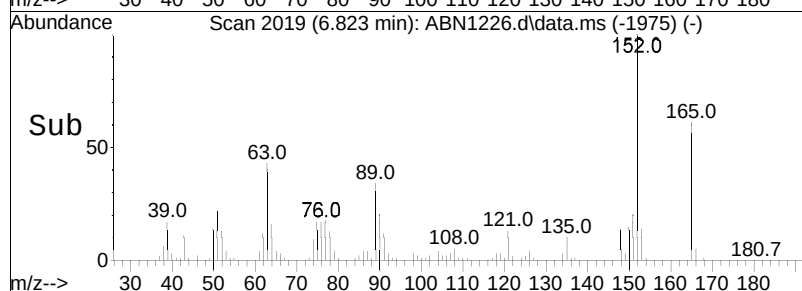
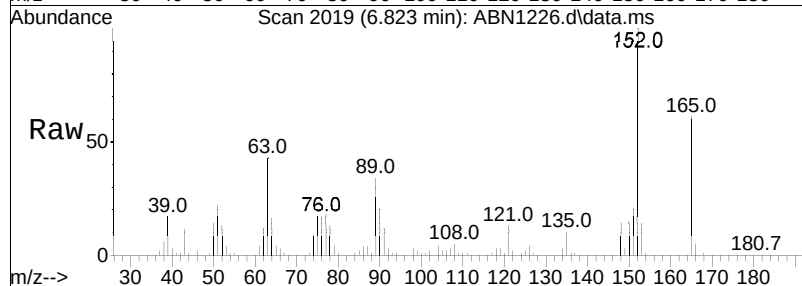


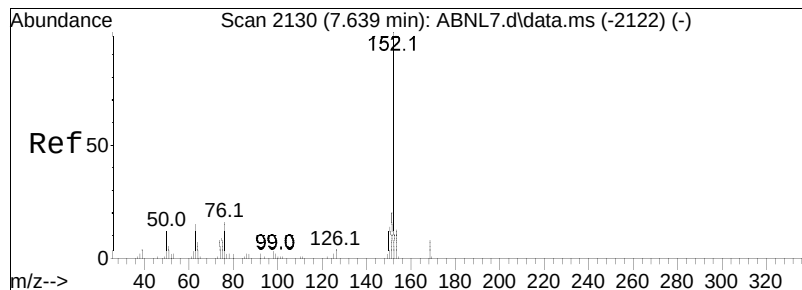




#53  
 2,6-Dinitrotoluene  
 Concen: 56.06 ug/ml  
 RT: 6.823 min Scan# 2019  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

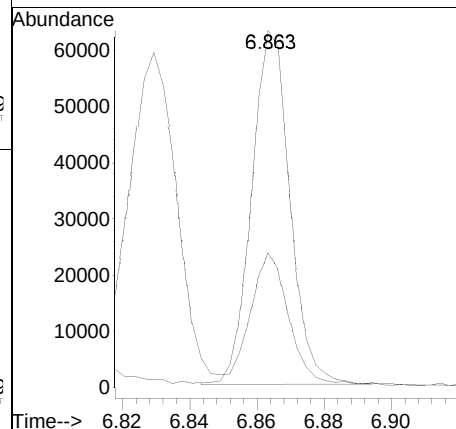
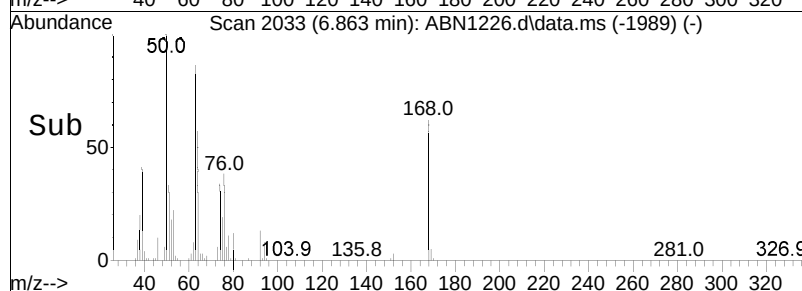
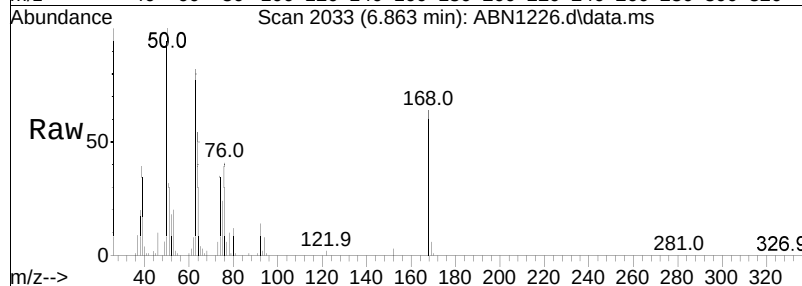
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 89      | 55.8  | 50.4  | 75.6  |
| 63      | 90.9  | 56.9  | 85.3# |

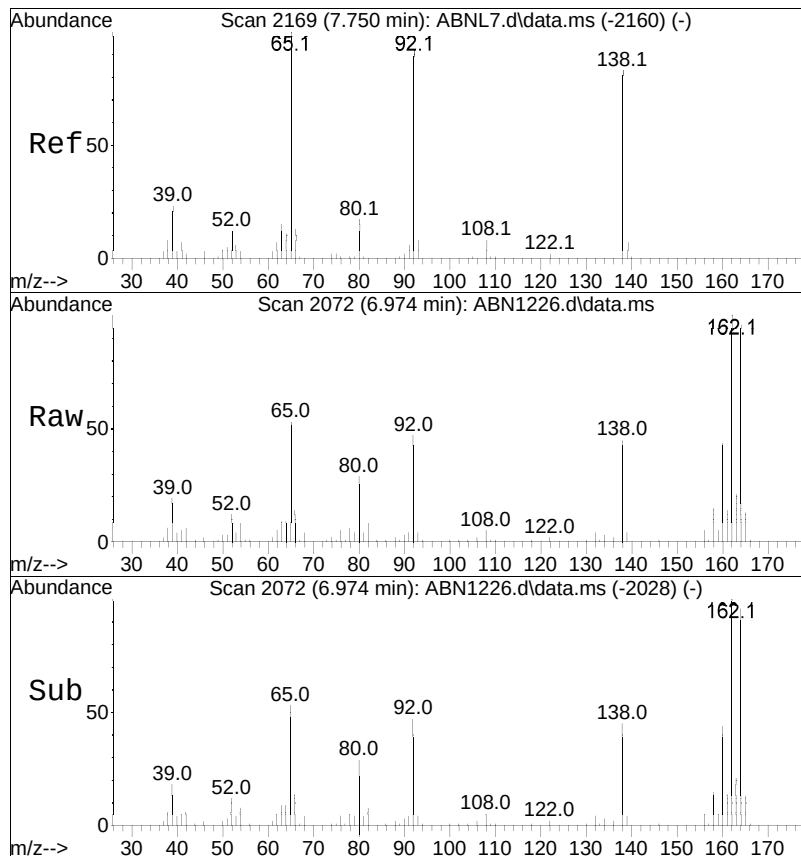




#54  
 1,2-Dinitrobenzene  
 Concen: 53.35 ug/ml  
 RT: 6.863 min Scan# 2033  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

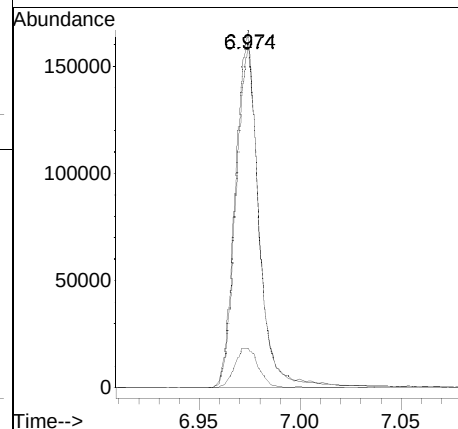
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 168     | 100   |       |        |
| 75      | 38.6  | 105.0 | 157.6# |

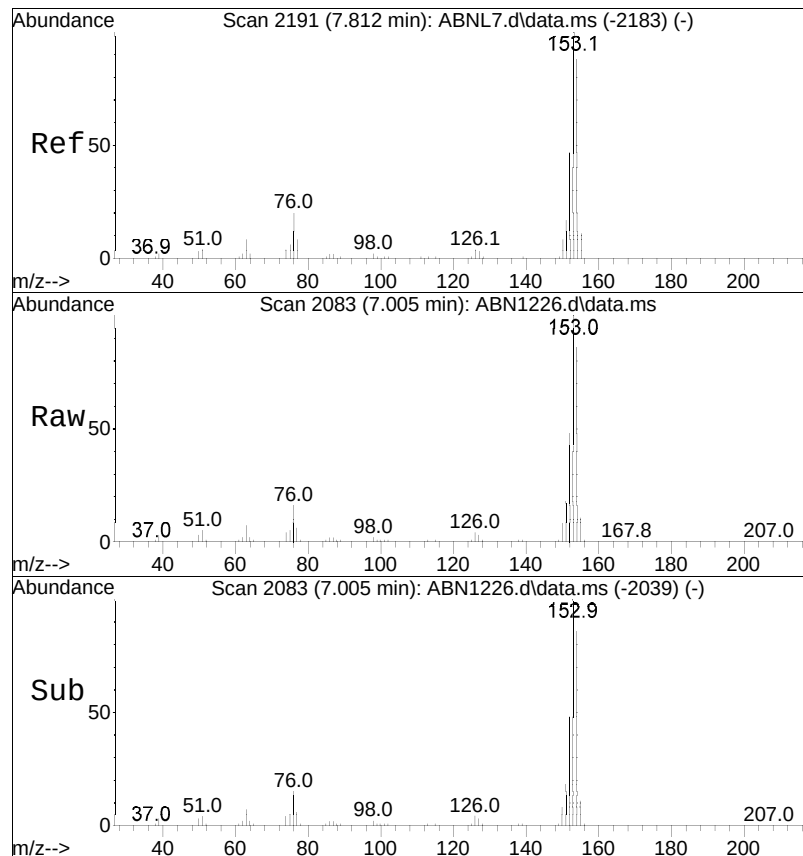




#64  
 3-Nitroaniline  
 Concen: 57.48 ug/ml  
 RT: 6.974 min Scan# 2072  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

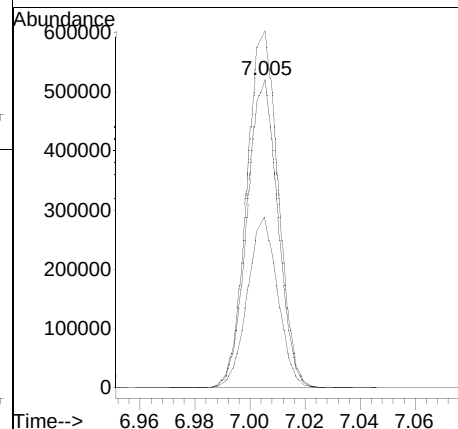
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 127405 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 104.1 | 95.4  | 143.2  |
| 108       | 12.0  | 8.6   | 12.8   |

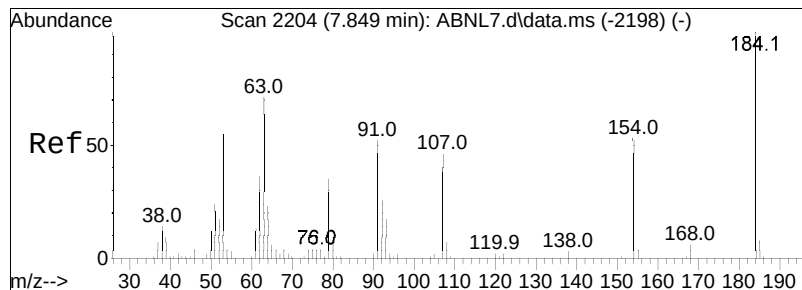




#65  
 Acenaphthene  
 Concen: 52.64 ug/ml  
 RT: 7.005 min Scan# 2083  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 405961 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 118.0 | 91.3  | 136.9  |
| 152       | 54.7  | 41.0  | 61.4   |





#66

2,4-Dinitrophenol

Concen: 45.96 ug/ml

RT: 7.091 min Scan# 2113

Delta R.T. 0.000 min

Lab File: ABN1226.d

Acq: 26 Dec 2019 9:52 am

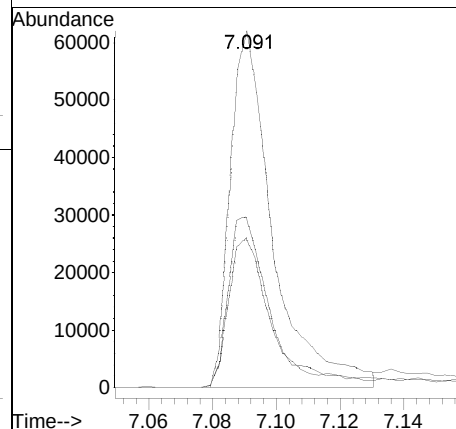
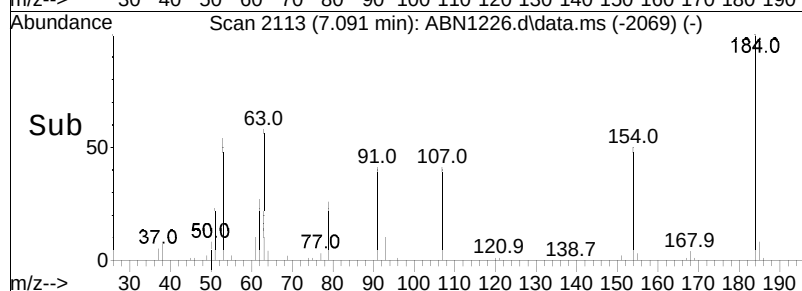
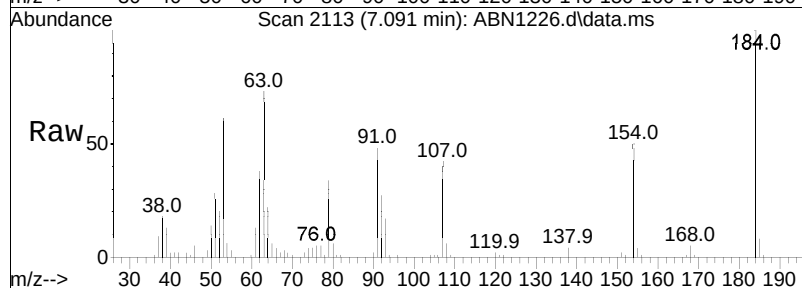
Tgt Ion:184 Resp: 57768

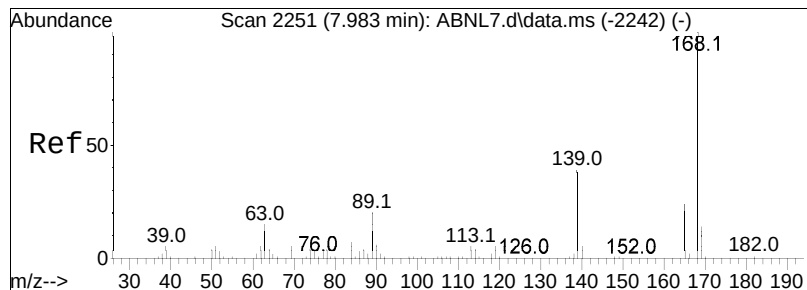
Ion Ratio Lower Upper

184 100

107 42.9 41.8 62.6

91 51.2 46.1 69.1





#67

Dibenzofuran

Concen: 55.24 ug/ml

RT: 7.176 min Scan# 2143

Delta R.T. 0.000 min

Lab File: ABN1226.d

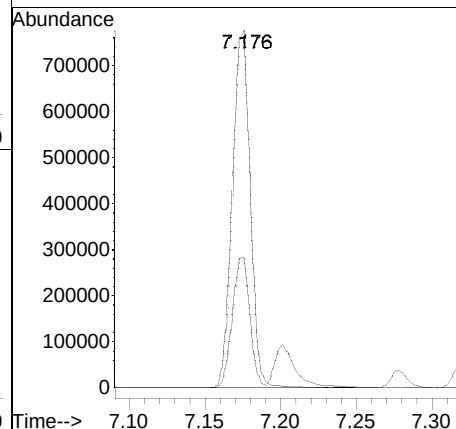
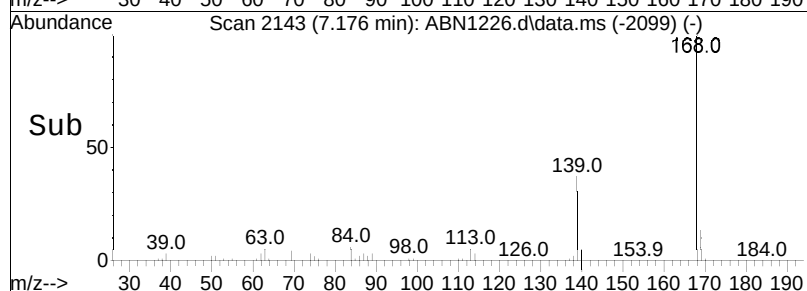
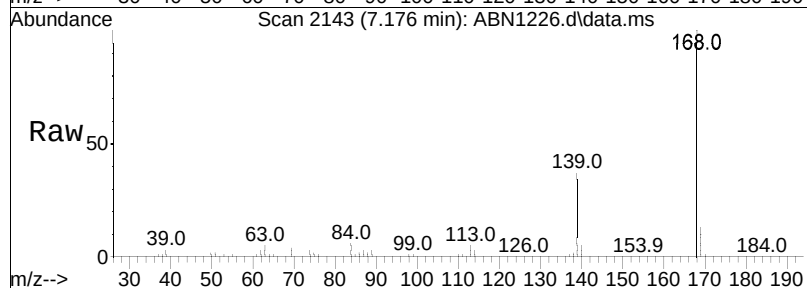
Acq: 26 Dec 2019 9:52 am

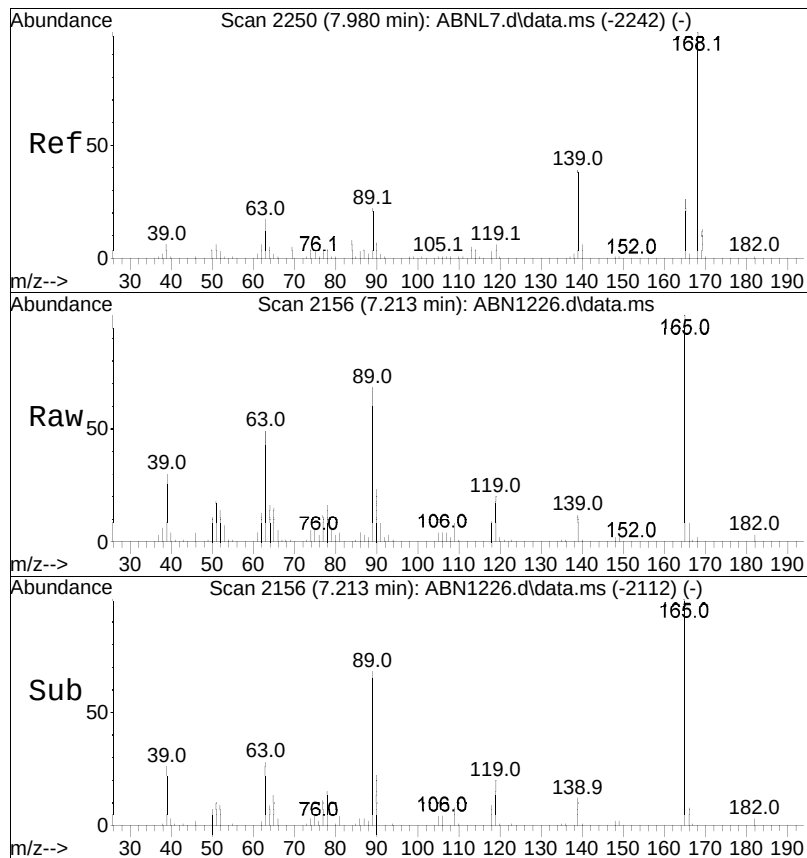
Tgt Ion:168 Resp: 629438

Ion Ratio Lower Upper

168 100

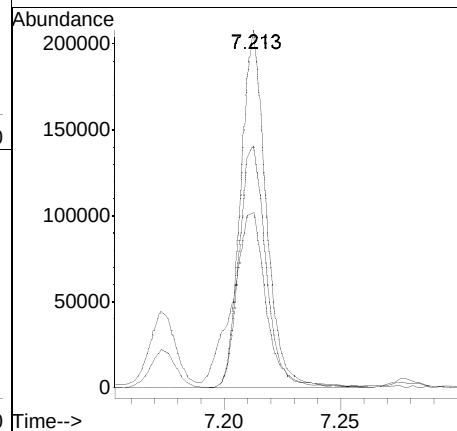
139 35.9 33.2 49.8

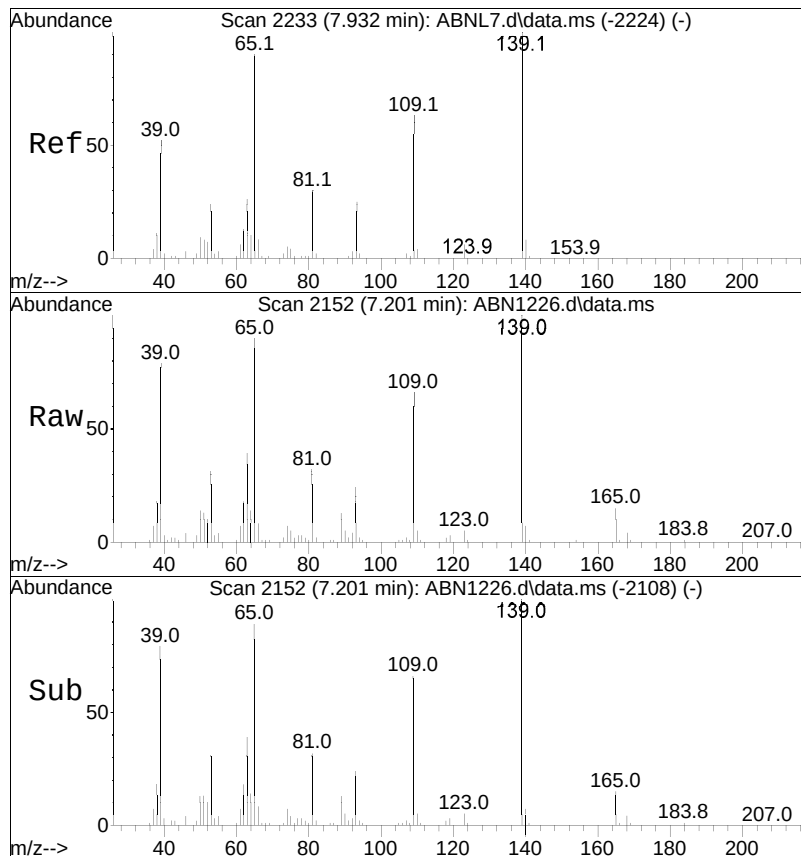




#68  
 2,4-Dinitrotoluene  
 Concen: 57.62 ug/ml  
 RT: 7.213 min Scan# 2156  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

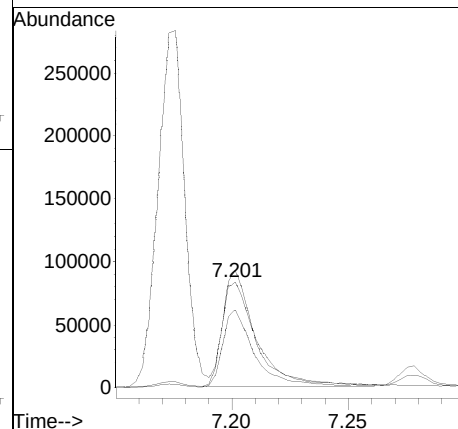
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 89      | 70.1  | 75.7  | 113.5# |
| 63      | 62.9  | 62.6  | 94.0   |



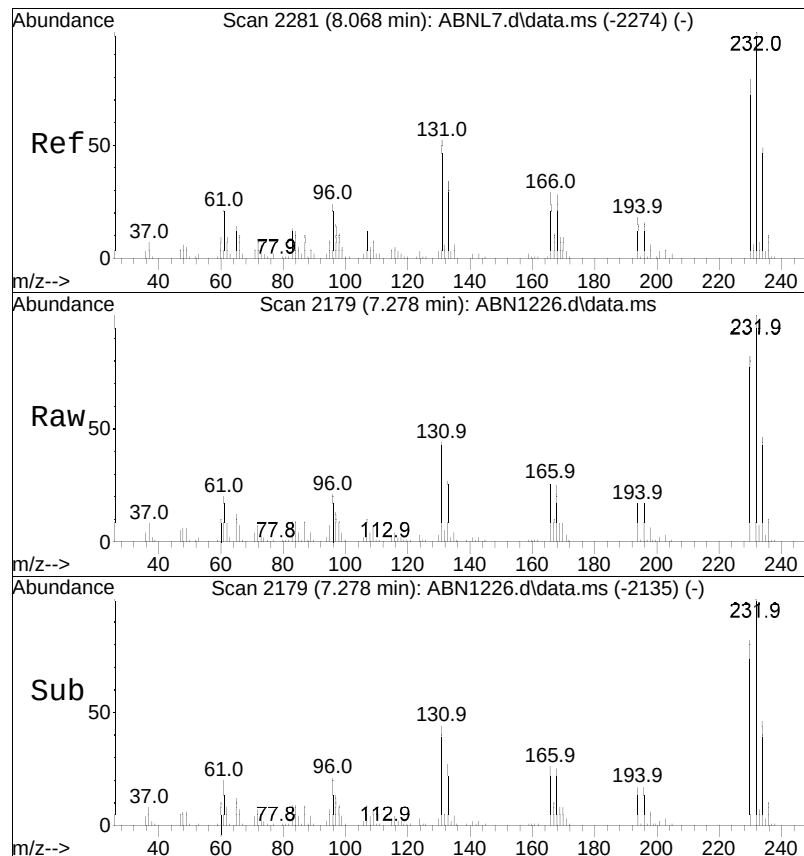


#69  
 4-Nitrophenol  
 Concen: 53.85 ug/ml  
 RT: 7.201 min Scan# 2152  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 65    | Resp: | 88154 |
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 109       | 67.0  | 55.4  | 83.2  |
| 139       | 103.5 | 72.9  | 109.3 |

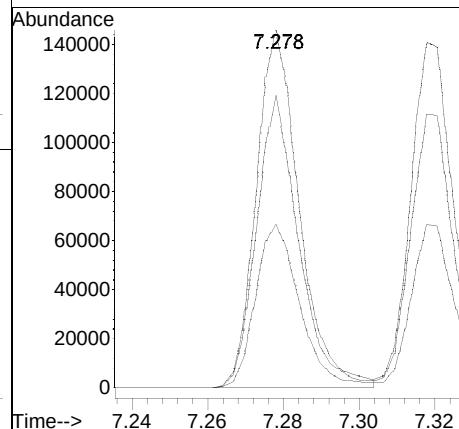


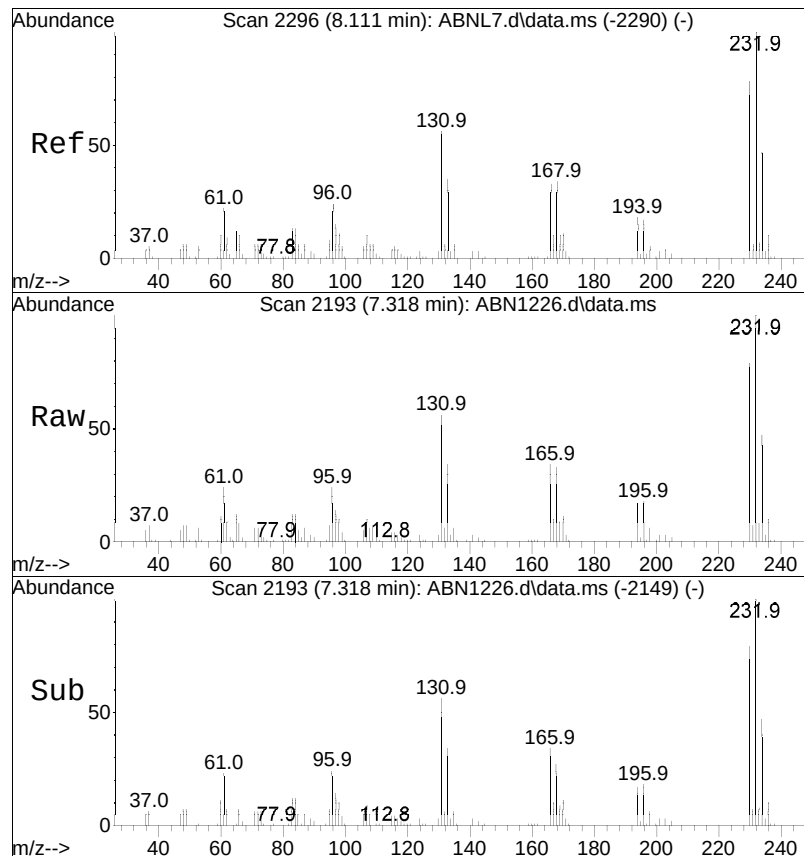




#70  
 2,3,5,6-Tetrachlorophenol  
 Concen: 52.78 ug/ml  
 RT: 7.278 min Scan# 2179  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

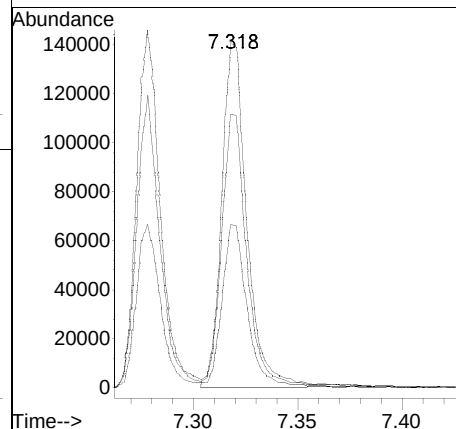
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 115365 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 79.8  | 65.0  | 97.6   |
| 234       | 47.0  | 37.8  | 56.8   |

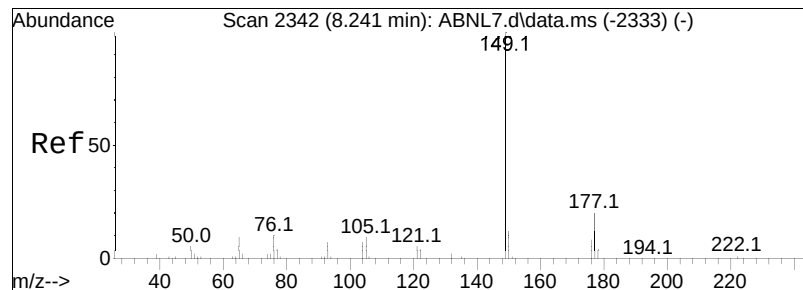




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 51.79 ug/ml  
 RT: 7.318 min Scan# 2193  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

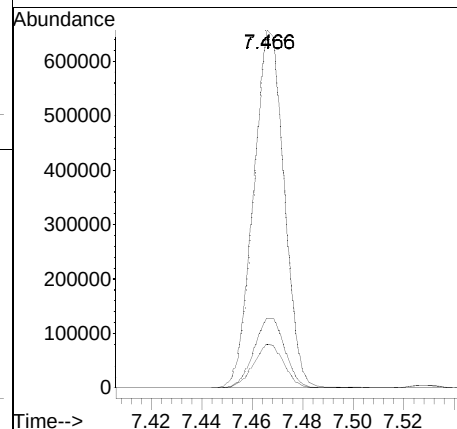
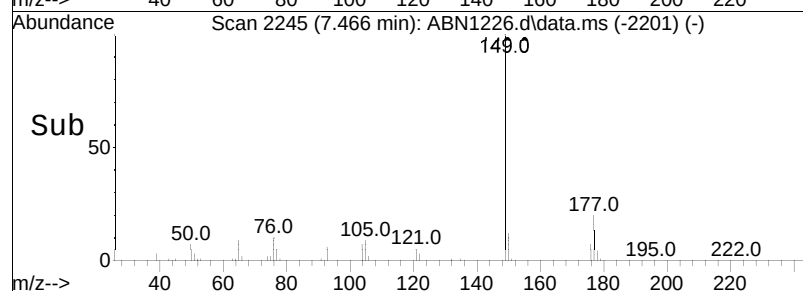
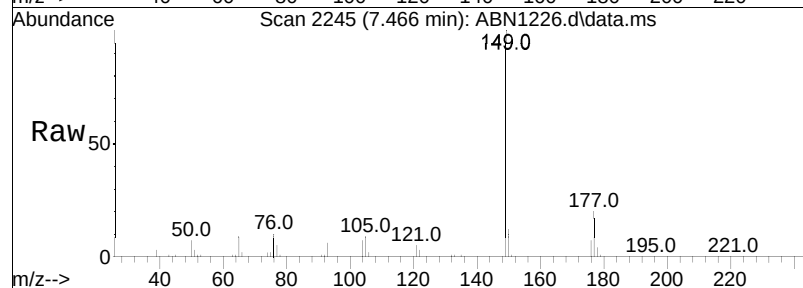
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 117633 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 77.3  | 63.7  | 95.5   |
| 234       | 48.0  | 38.4  | 57.6   |

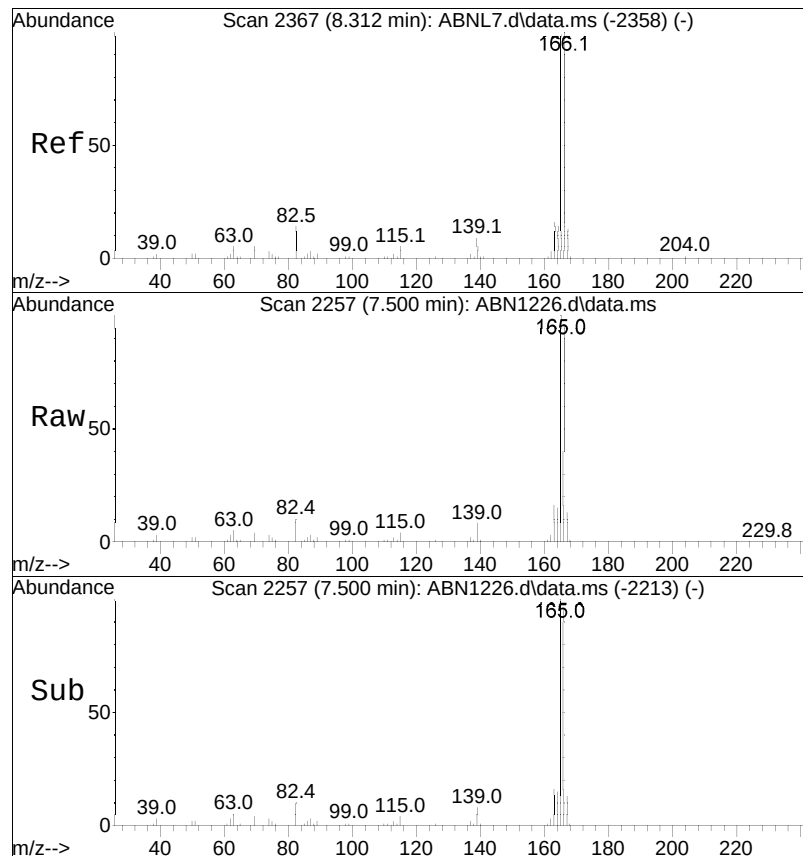




#72  
 Diethyl phthalate  
 Concen: 56.23 ug/ml  
 RT: 7.466 min Scan# 2245  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

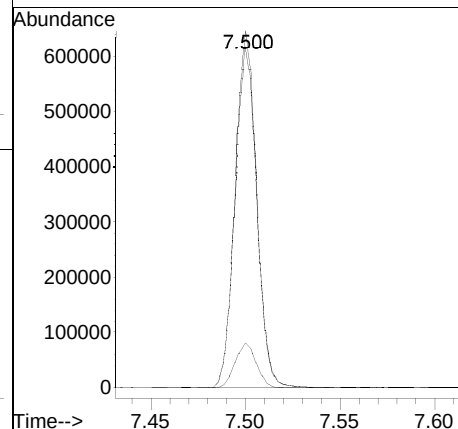
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 19.8  | 15.5  | 23.3  |
| 150     | 12.2  | 9.5   | 14.3  |

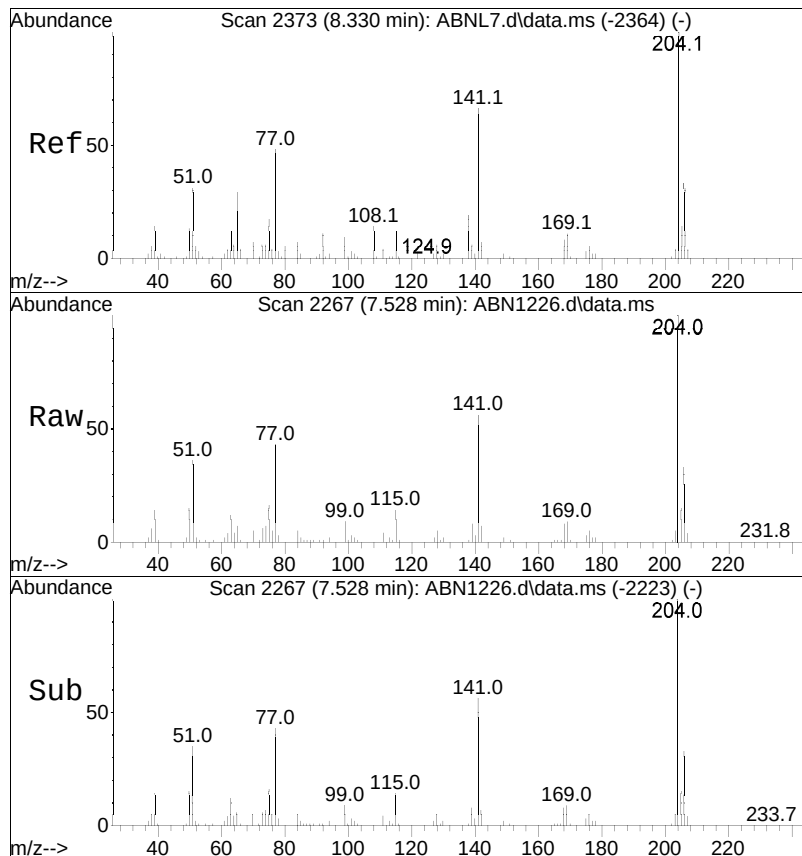




#73  
 Fluorene  
 Concen: 53.03 ug/ml  
 RT: 7.500 min Scan# 2257  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

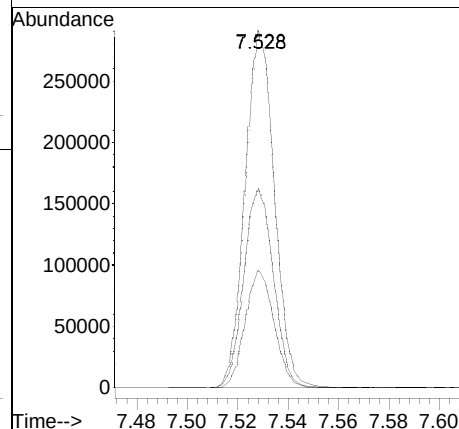
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 495678 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 103.6 | 79.3  | 118.9  |
| 167       | 13.0  | 10.6  | 16.0   |

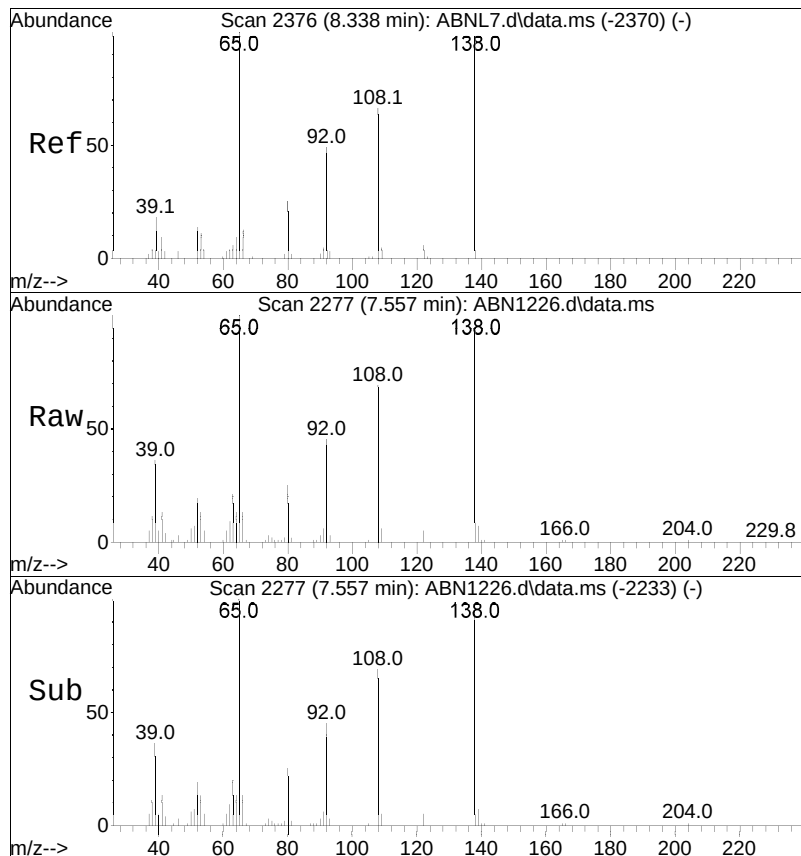




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 53.42 ug/ml  
 RT: 7.528 min Scan# 2267  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

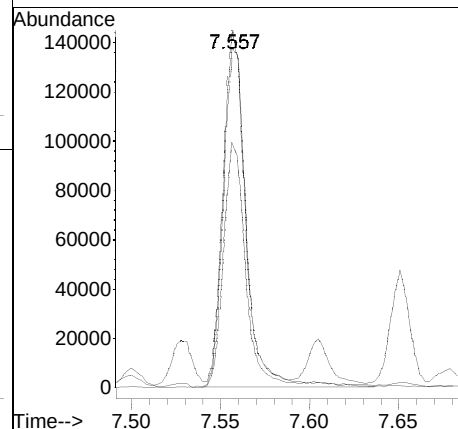
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 234478 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 32.6  | 26.2  | 39.4   |
| 141       | 56.7  | 57.2  | 85.8#  |

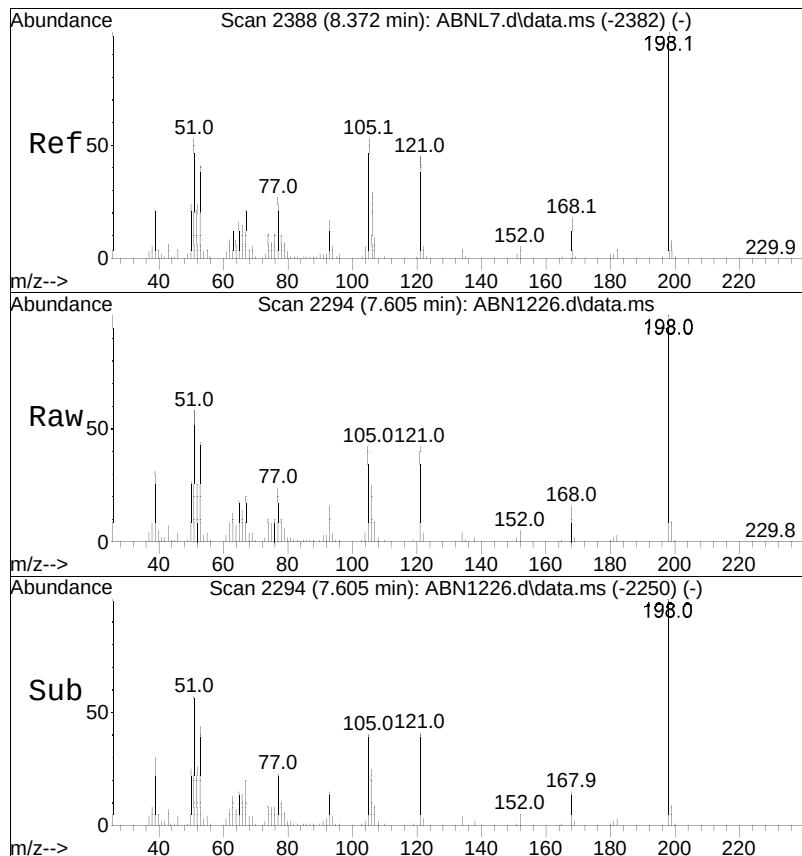




#75  
 4-Nitroaniline  
 Concen: 57.92 ug/ml  
 RT: 7.557 min Scan# 2277  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

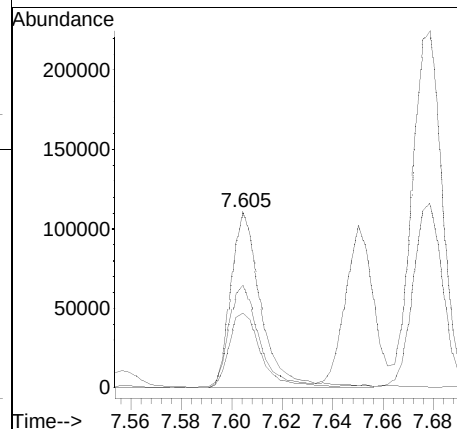
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 124659 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 68.6  | 62.7  | 94.1   |
| 65        | 96.8  | 107.8 | 161.6# |

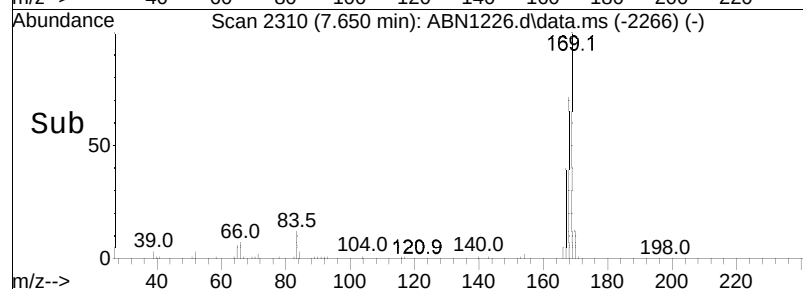
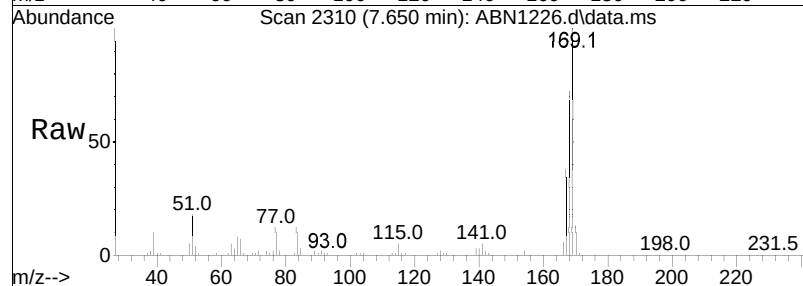
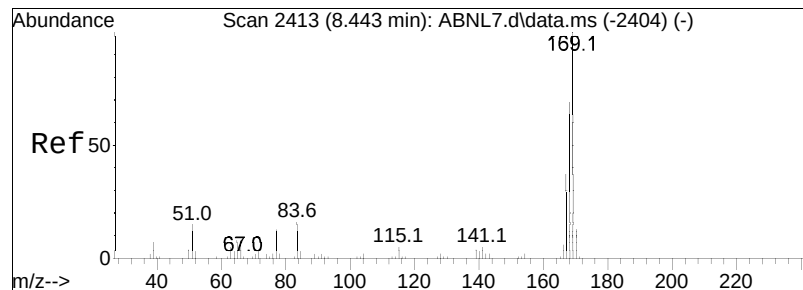




#76  
 4,6-Dinitro-o-cresol  
 Concen: 56.65 ug/ml  
 RT: 7.605 min Scan# 2294  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 92910 |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 57.2  | 59.0  | 88.4# |
| 105       | 44.8  | 45.0  | 67.6# |





#77

NDPA/DPA

Concen: 58.14 ug/ml

RT: 7.650 min Scan# 2310

Delta R.T. 0.000 min

Lab File: ABN1226.d

Acq: 26 Dec 2019 9:52 am

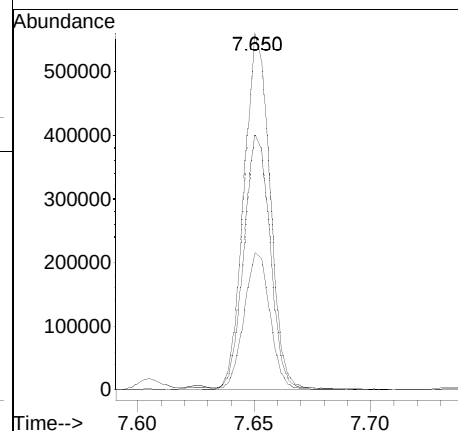
Tgt Ion:169 Resp: 435125

Ion Ratio Lower Upper

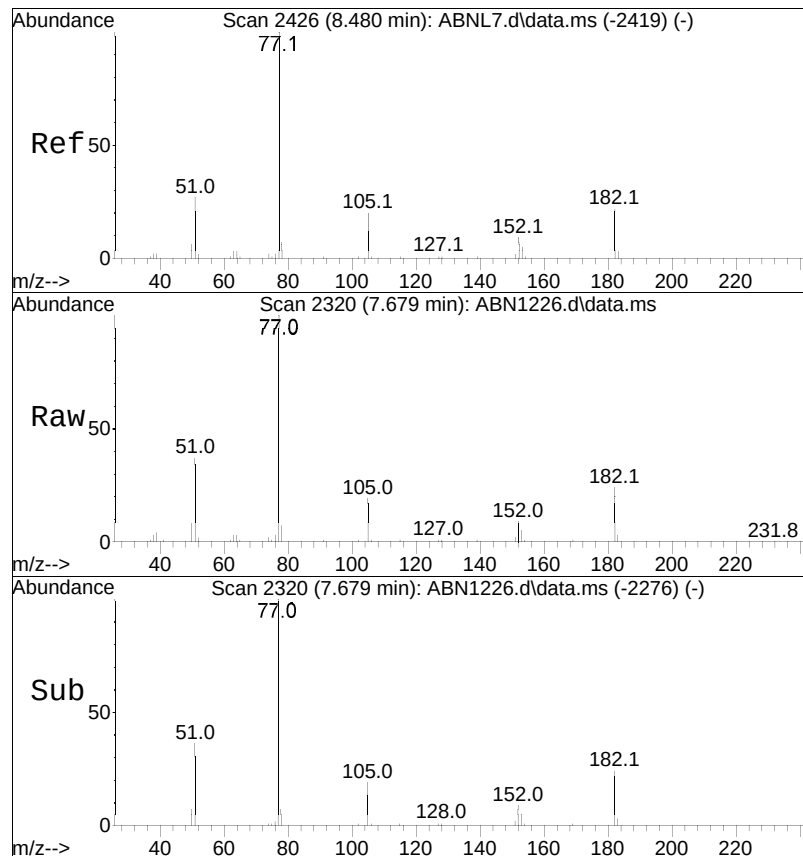
169 100

168 72.1 55.4 83.0

167 38.6 30.3 45.5

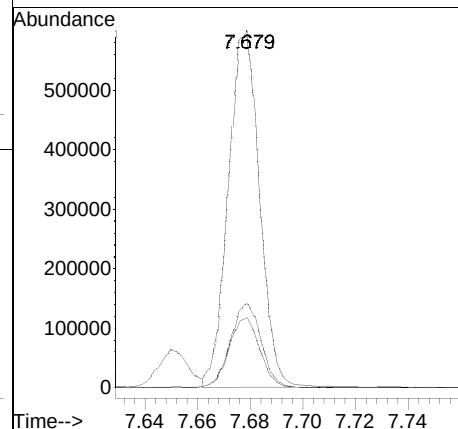


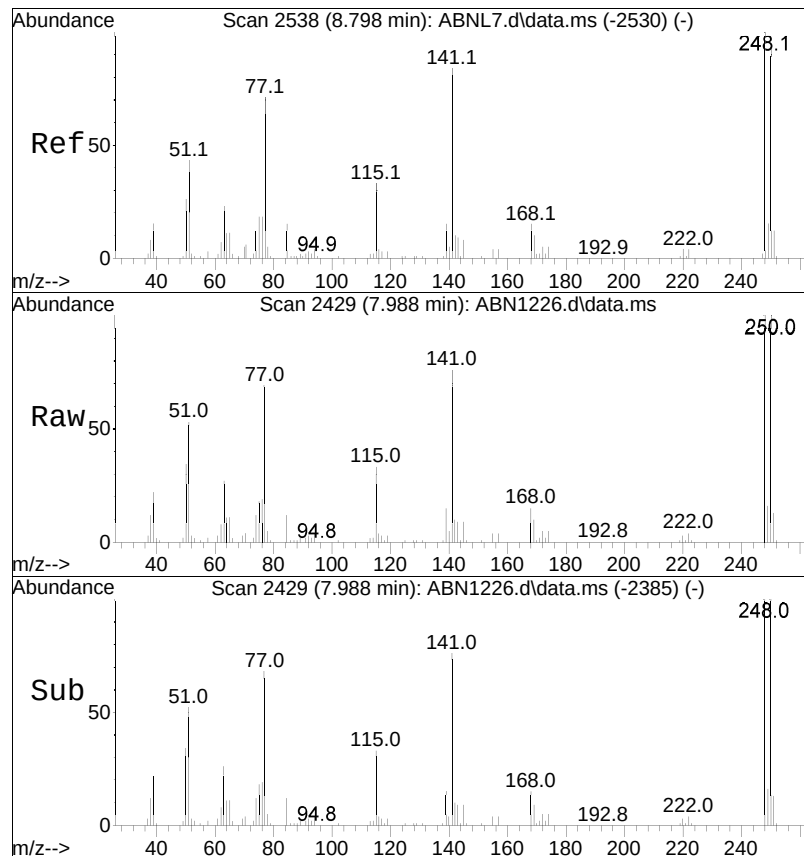




#78  
 Azobenzene  
 Concen: 55.13 ug/ml  
 RT: 7.679 min Scan# 2320  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

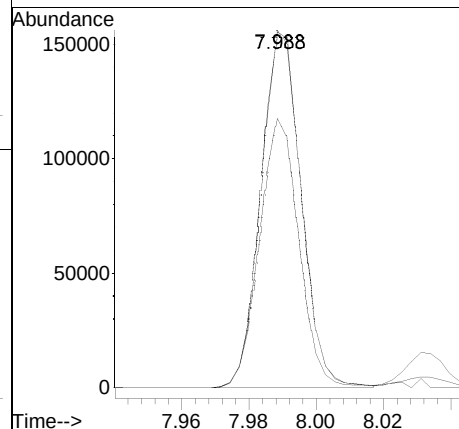
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 23.6  | 16.0  | 24.0  |
| 105     | 19.6  | 15.6  | 23.4  |

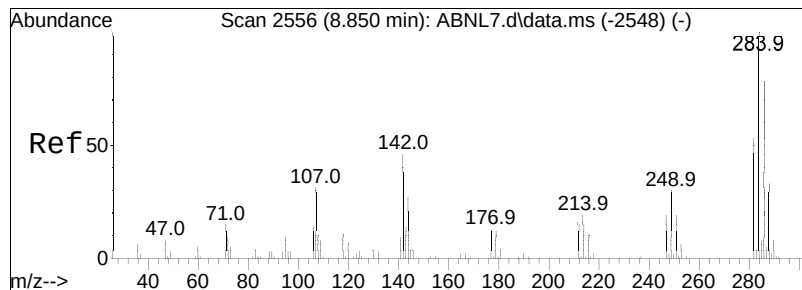




#80  
 4-Bromophenyl phenyl ether  
 Concen: 52.83 ug/ml  
 RT: 7.988 min Scan# 2429  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

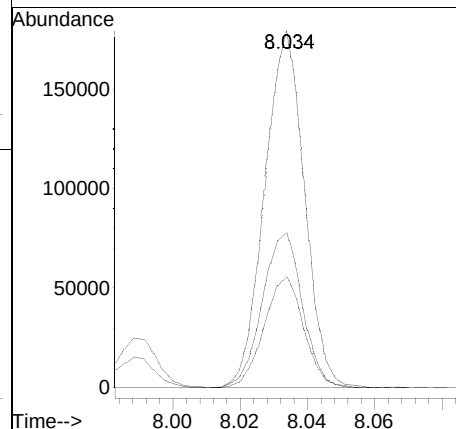
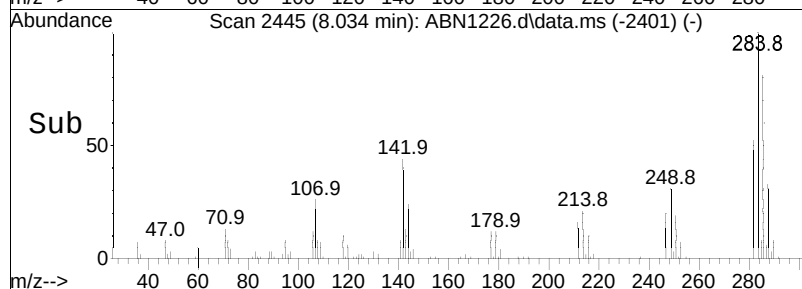
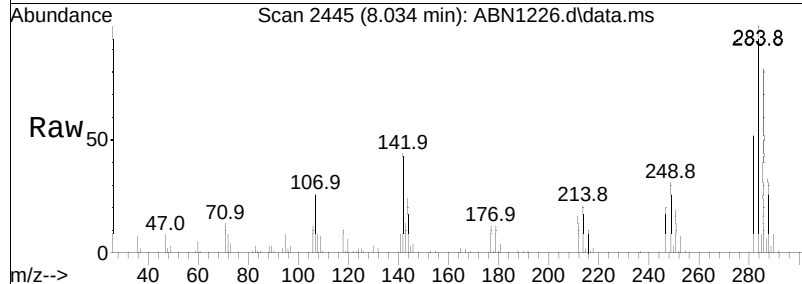
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 128725 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 73.7  | 76.8  | 115.2# |
| 250       | 99.4  | 79.7  | 119.5  |

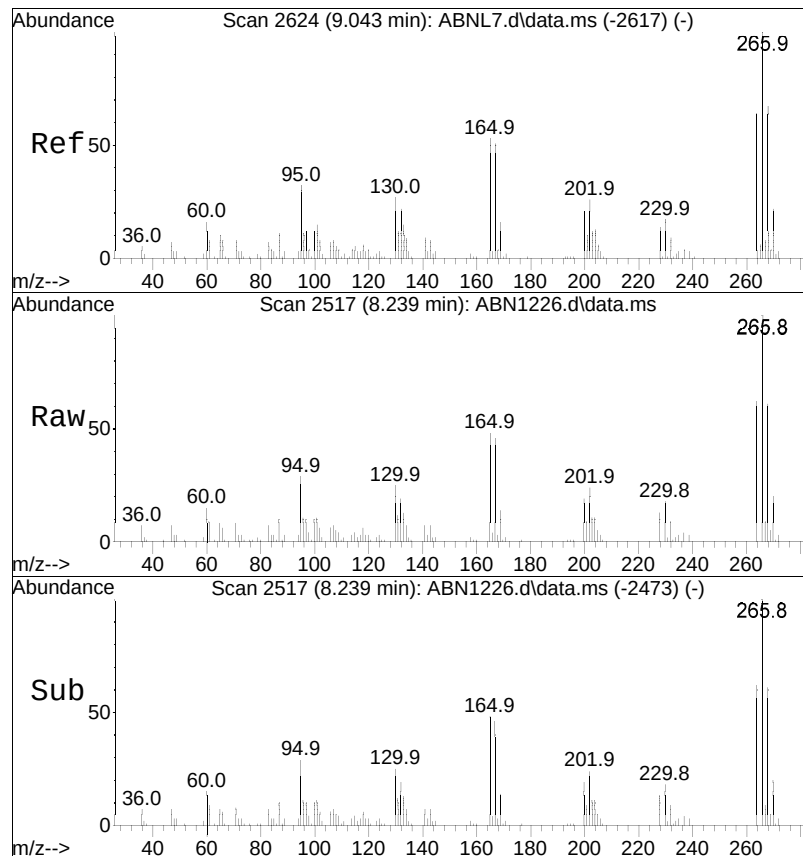




#81  
 Hexachlorobenzene  
 Concen: 53.83 ug/ml  
 RT: 8.034 min Scan# 2445  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

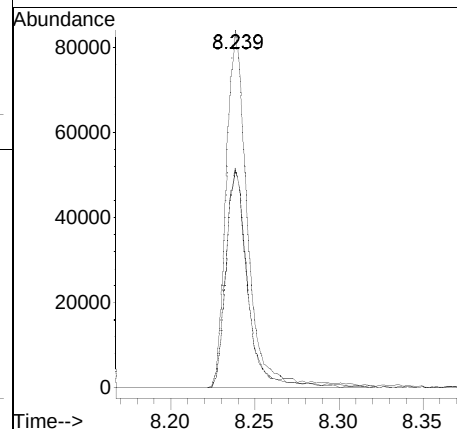
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:284 | Resp: | 146634 |
| Ion | Ratio   | Lower | Upper  |
| 284 | 100     |       |        |
| 142 | 44.1    | 35.8  | 53.6   |
| 249 | 31.2    | 24.7  | 37.1   |

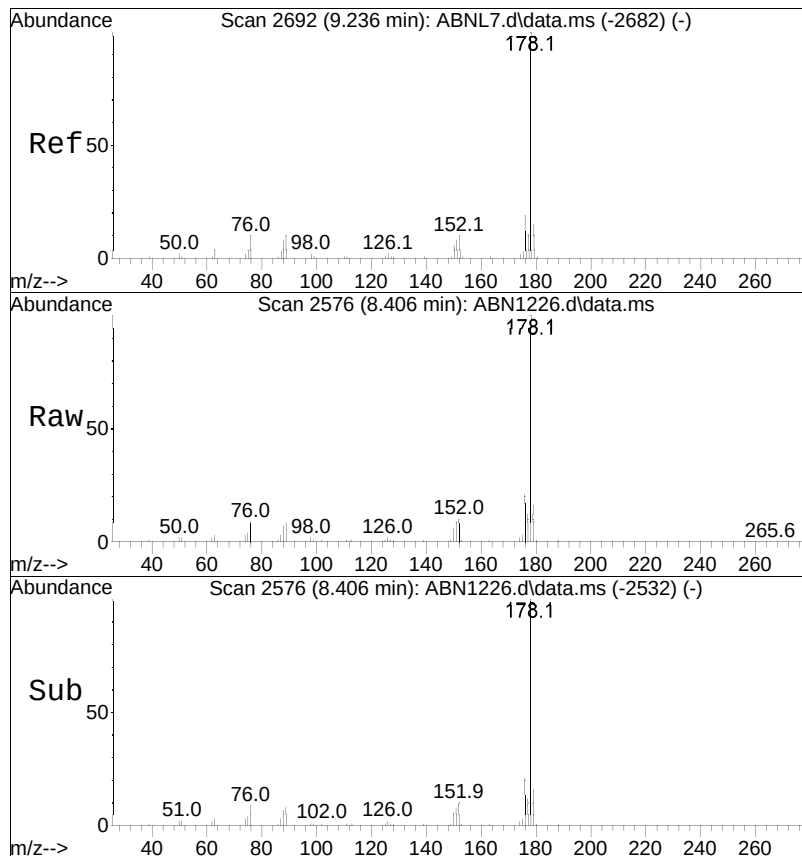




#82  
 Pentachlorophenol  
 Concen: 58.97 ug/ml  
 RT: 8.239 min Scan# 2517  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

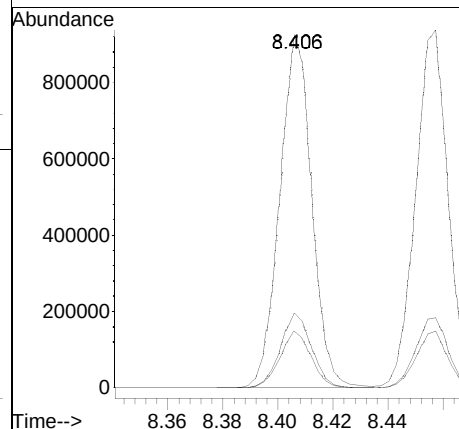
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 74857 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 60.6  | 51.8  | 77.6  |
| 268       | 61.0  | 49.8  | 74.8  |



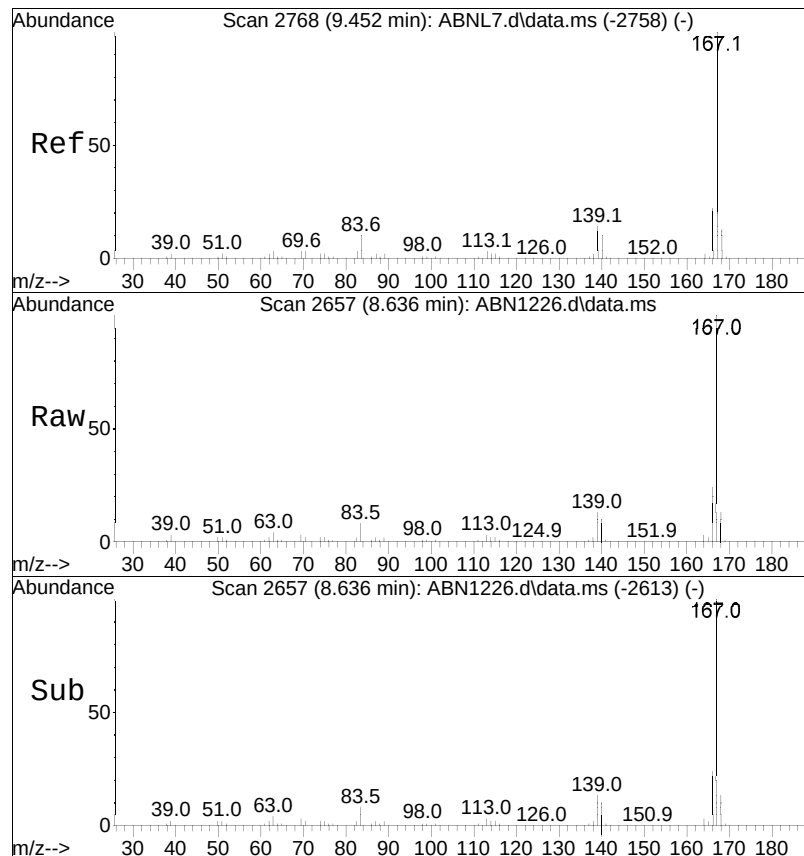


#89  
 Phenanthrene  
 Concen: 52.41 ug/ml  
 RT: 8.406 min Scan# 2576  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 178 | 100  |       | 747506 |       |       |
| 179 | 15.7 | 12.2  |        | 18.2  |       |
| 176 | 20.6 | 15.4  |        | 23.2  |       |

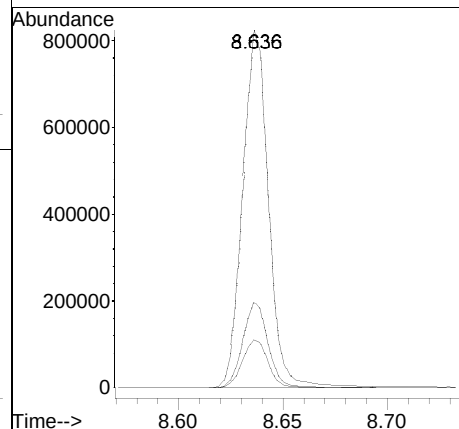


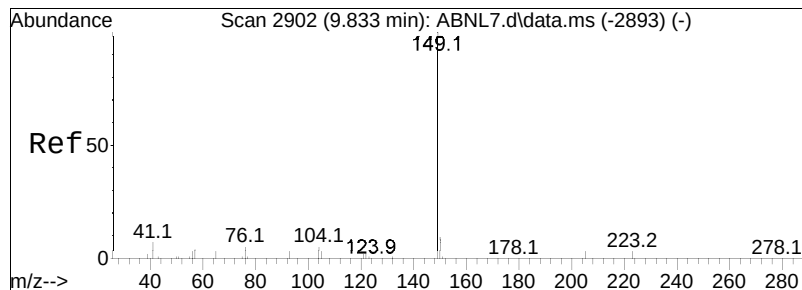




#91  
 Carbazole  
 Concen: 54.04 ug/ml  
 RT: 8.636 min Scan# 2657  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

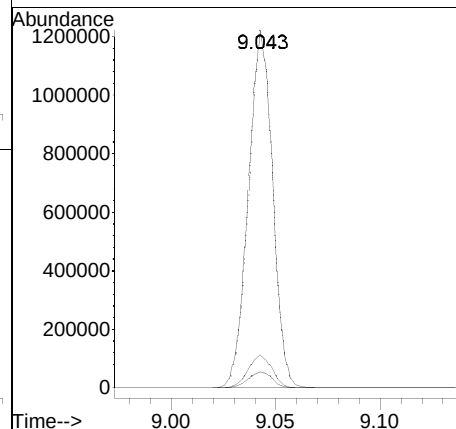
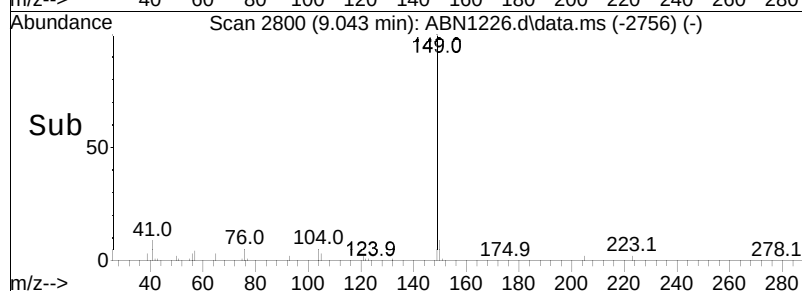
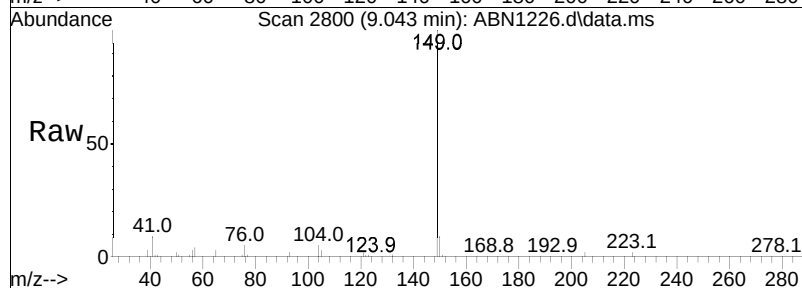
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 702278 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 168       | 13.7  | 10.6  | 15.8   |
| 166       | 23.8  | 17.7  | 26.5   |



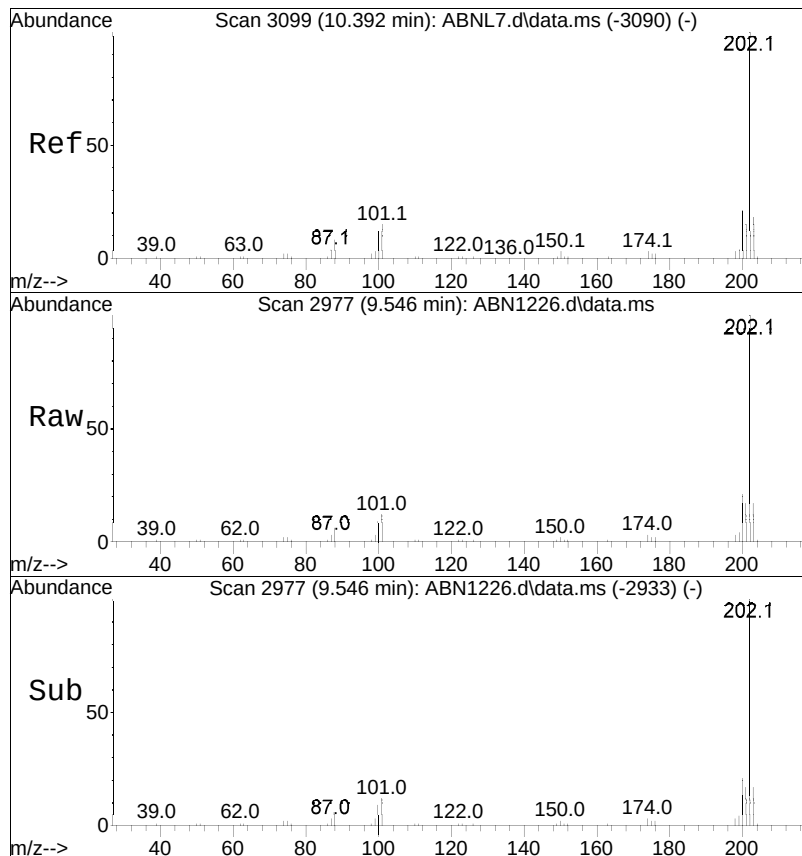


#92  
 Di-n-butylphthalate  
 Concen: 58.25 ug/ml  
 RT: 9.043 min Scan# 2800  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 972677 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 9.2   | 7.4   | 11.0   |
| 104       | 4.7   | 4.2   | 6.2    |

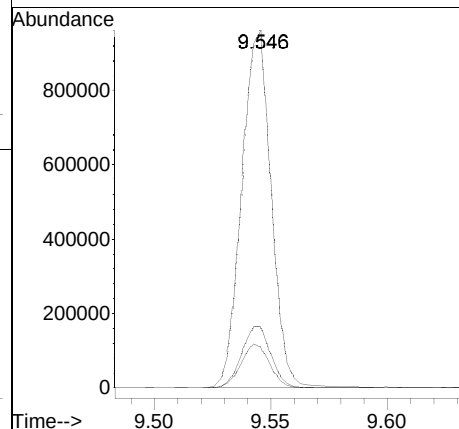


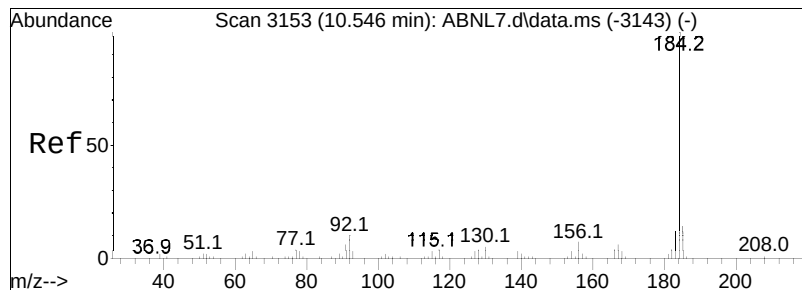




#93  
 Fluoranthene  
 Concen: 53.56 ug/ml  
 RT: 9.546 min Scan# 2977  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:202 | Resp: | 840169 |
| Ion | Ratio   | Lower | Upper  |
| 202 | 100     |       |        |
| 101 | 12.1    | 11.4  | 17.0   |
| 203 | 17.2    | 13.9  | 20.9   |





#94

Benzidine

Concen: 56.95 ug/ml

RT: 9.716 min Scan# 3037

Delta R.T. 0.000 min

Lab File: ABN1226.d

Acq: 26 Dec 2019 9:52 am

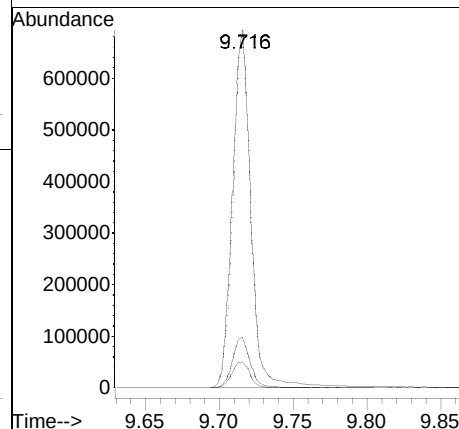
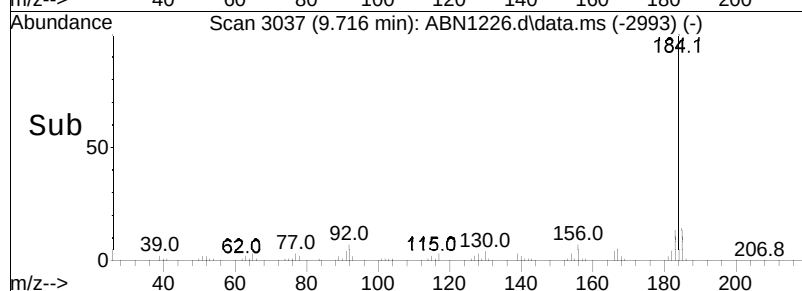
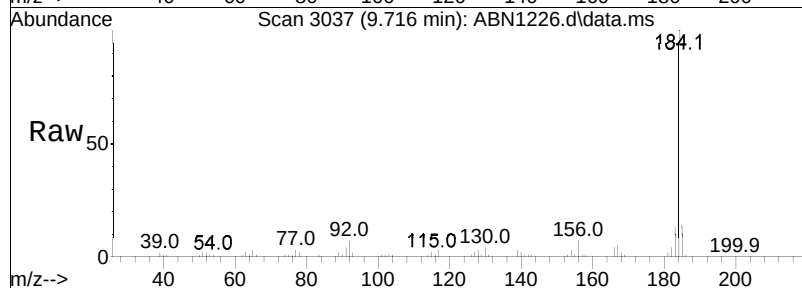
Tgt Ion:184 Resp: 590677

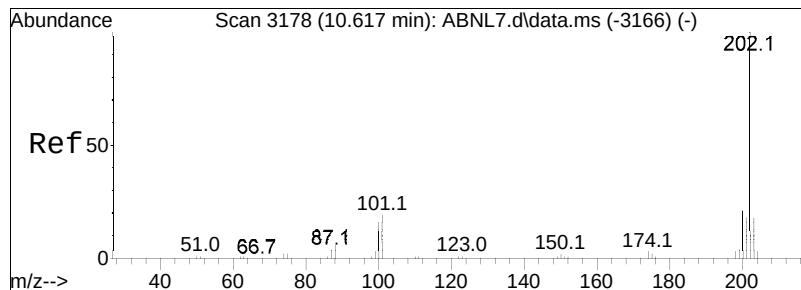
Ion Ratio Lower Upper

184 100

92 7.5 7.6 11.4#

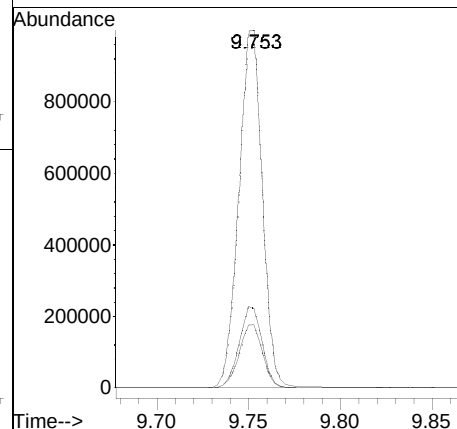
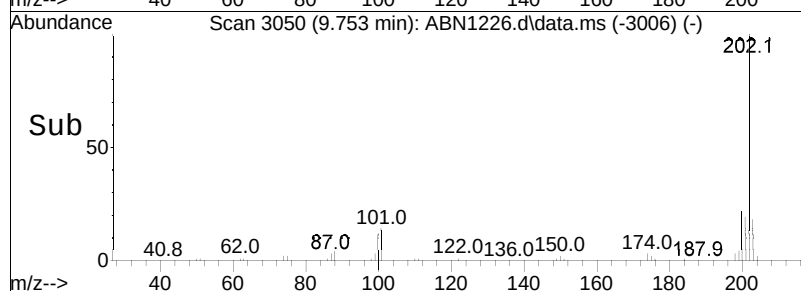
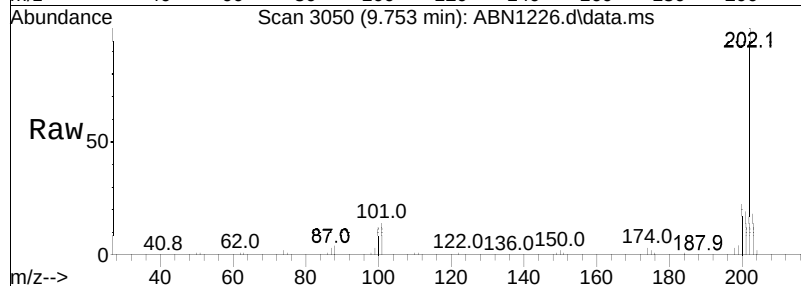
185 13.8 11.5 17.3

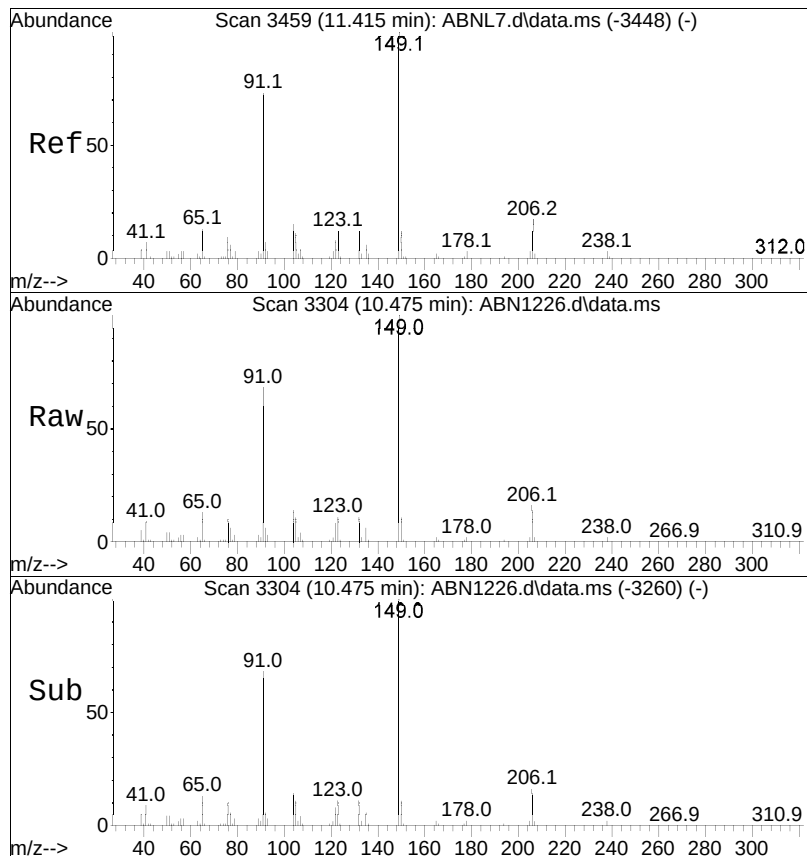




#95  
 Pyrene  
 Concen: 53.35 ug/ml  
 RT: 9.753 min Scan# 3050  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

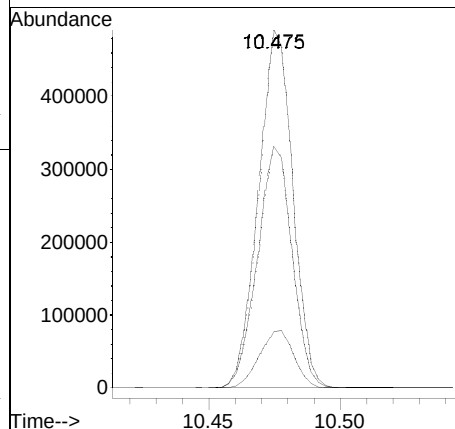
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.3  | 17.0  | 25.4  |
| 203     | 17.8  | 14.2  | 21.2  |

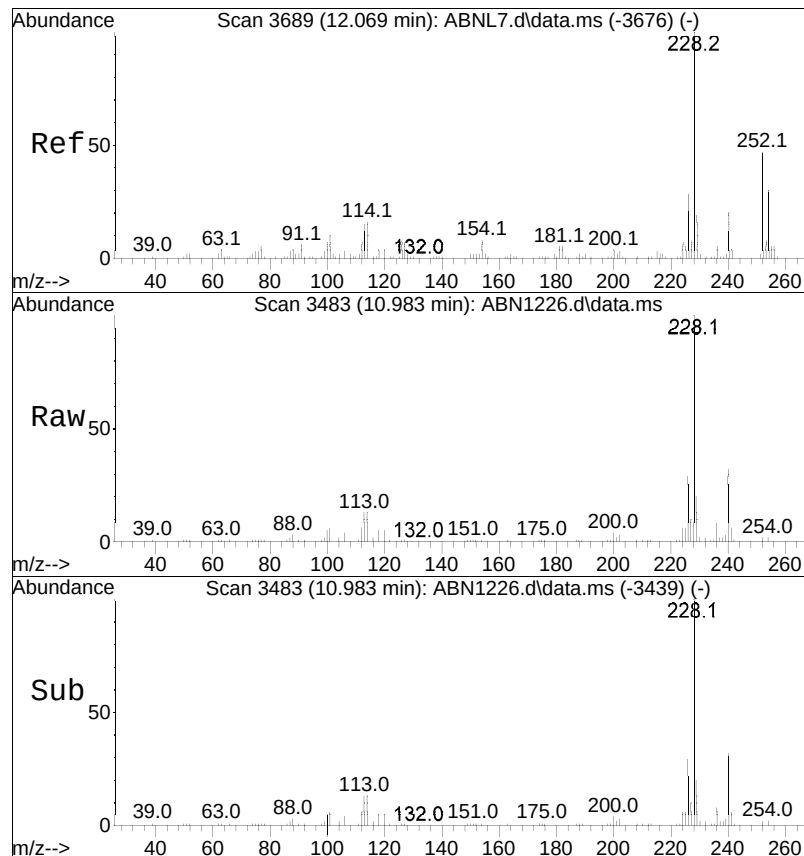




#97  
 Butyl benzyl phthalate  
 Concen: 59.66 ug/ml  
 RT: 10.475 min Scan# 3304  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

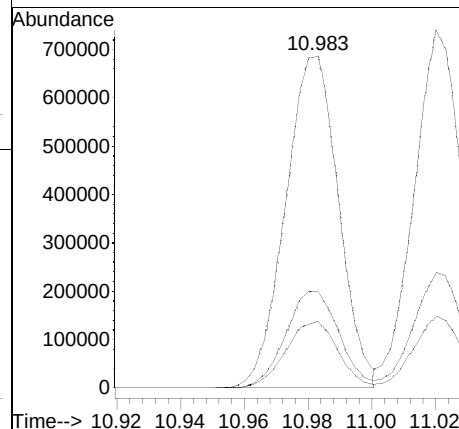
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 442062 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 68.1  | 61.2  | 91.8   |
| 206       | 16.3  | 12.5  | 18.7   |

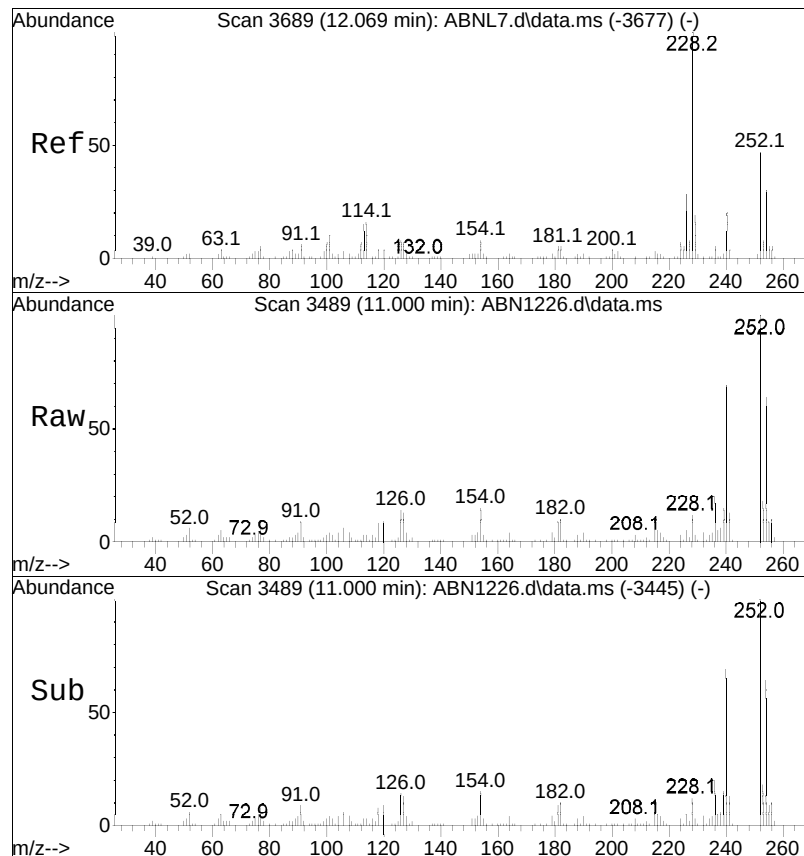




#105  
 Benzo(a)anthracene  
 Concen: 53.66 ug/ml  
 RT: 10.983 min Scan# 3483  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

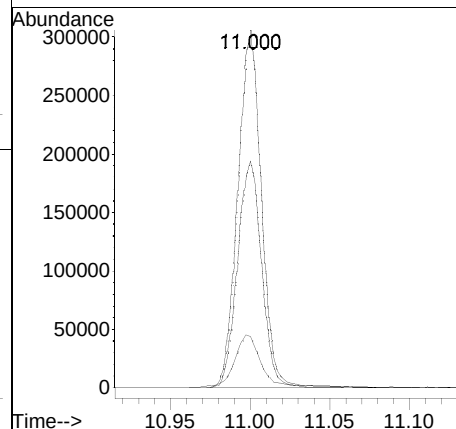
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 792979 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.3  | 22.2  | 33.2   |
| 229       | 19.7  | 15.6  | 23.4   |

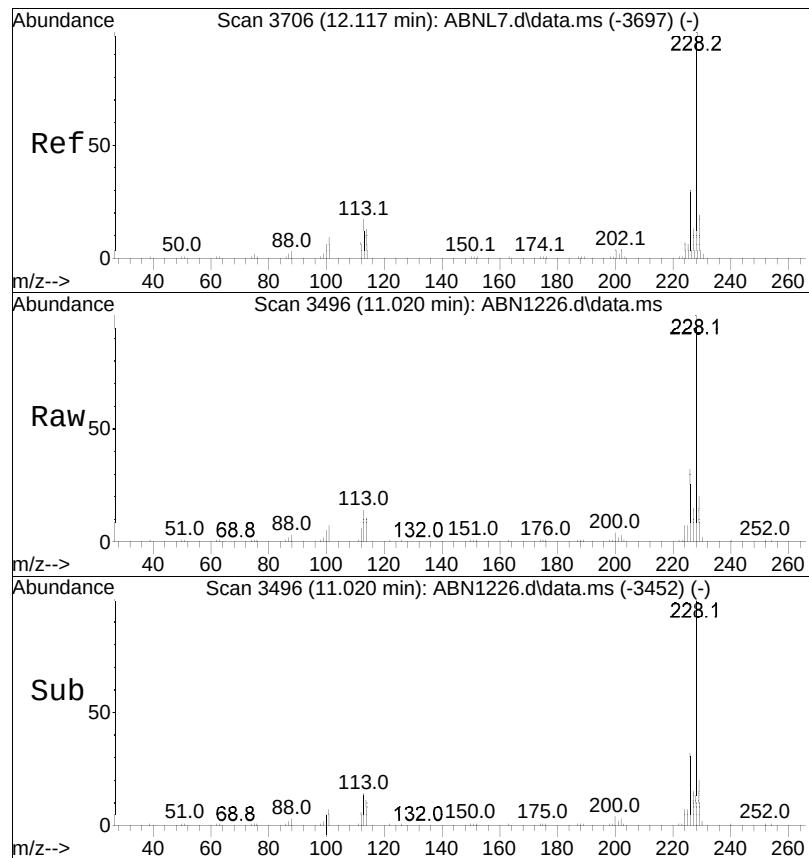




#106  
 3,3'-Dichlorobenzidine  
 Concen: 55.84 ug/ml  
 RT: 11.000 min Scan# 3489  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

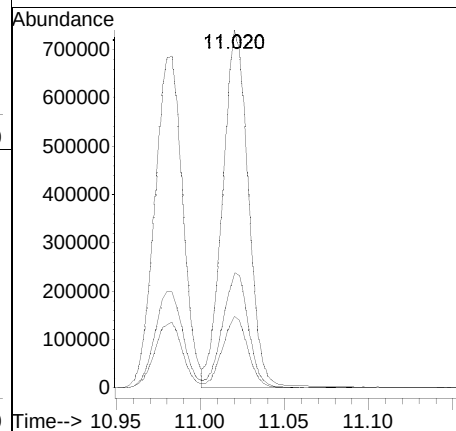
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 313591 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 126       | 17.0  | 13.8  | 20.6   |
| 254       | 64.6  | 53.0  | 79.6   |

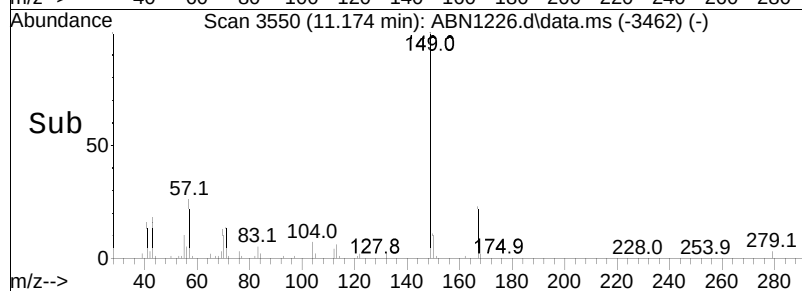
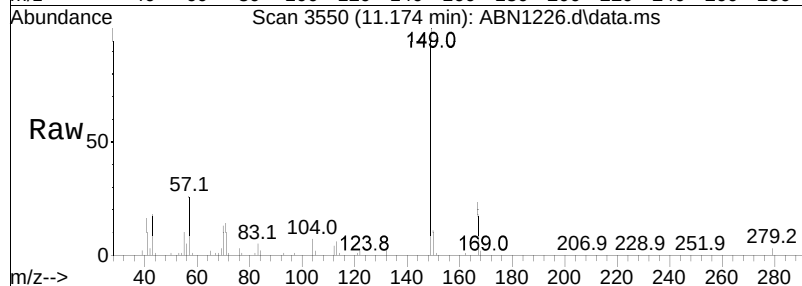
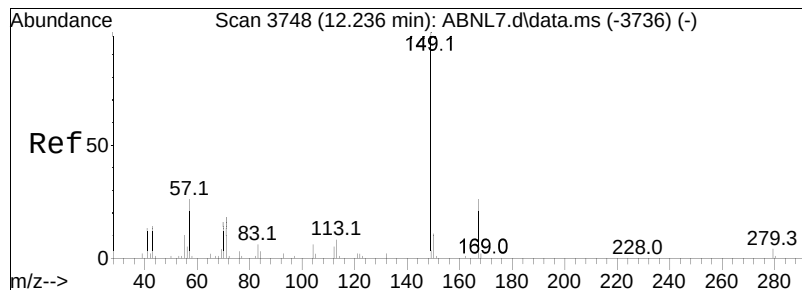




#107  
 Chrysene  
 Concen: 51.82 ug/ml  
 RT: 11.020 min Scan# 3496  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 785368 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.1  | 24.6  | 37.0   |
| 229       | 19.6  | 15.8  | 23.6   |





#108

Bis(2-ethylhexyl)phthalate

Concen: 60.18 ug/ml

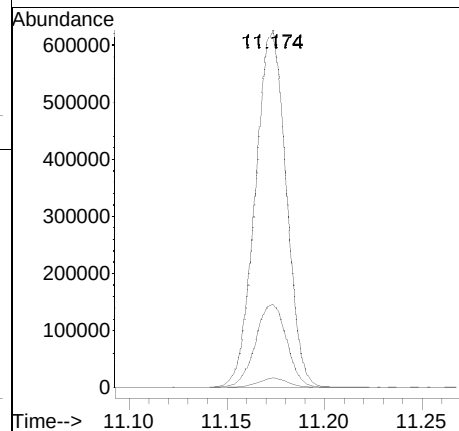
RT: 11.174 min Scan# 3550

Delta R.T. 0.000 min

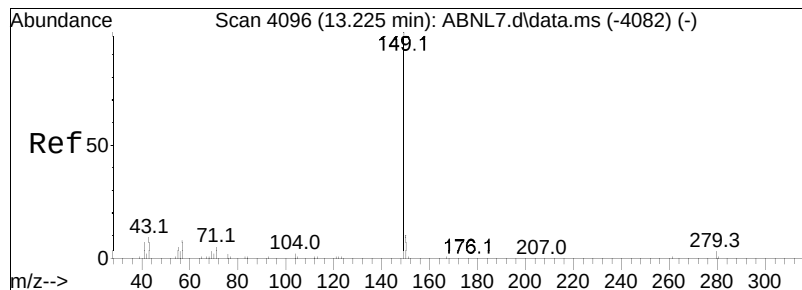
Lab File: ABN1226.d

Acq: 26 Dec 2019 9:52 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 682562 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 23.8  | 19.4  | 29.0   |
| 279       | 2.4   | 2.3   | 3.5    |

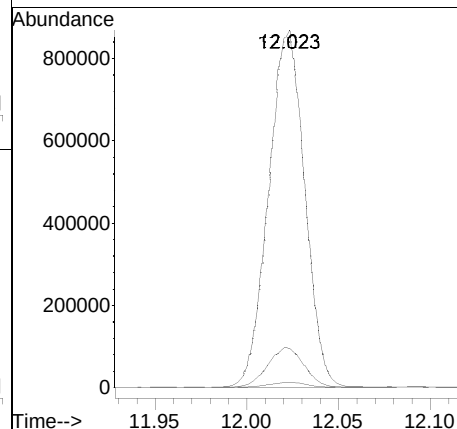
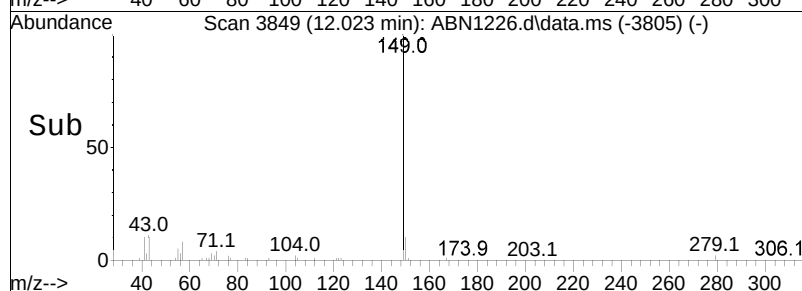
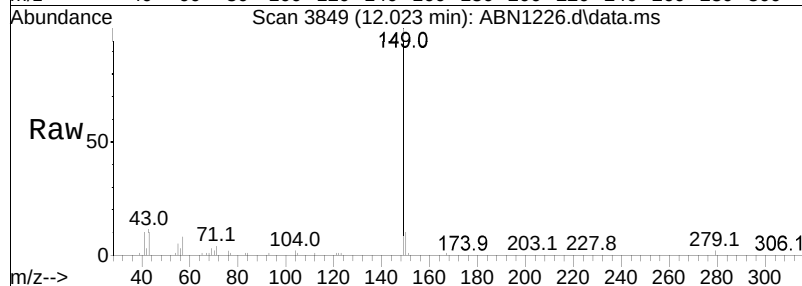


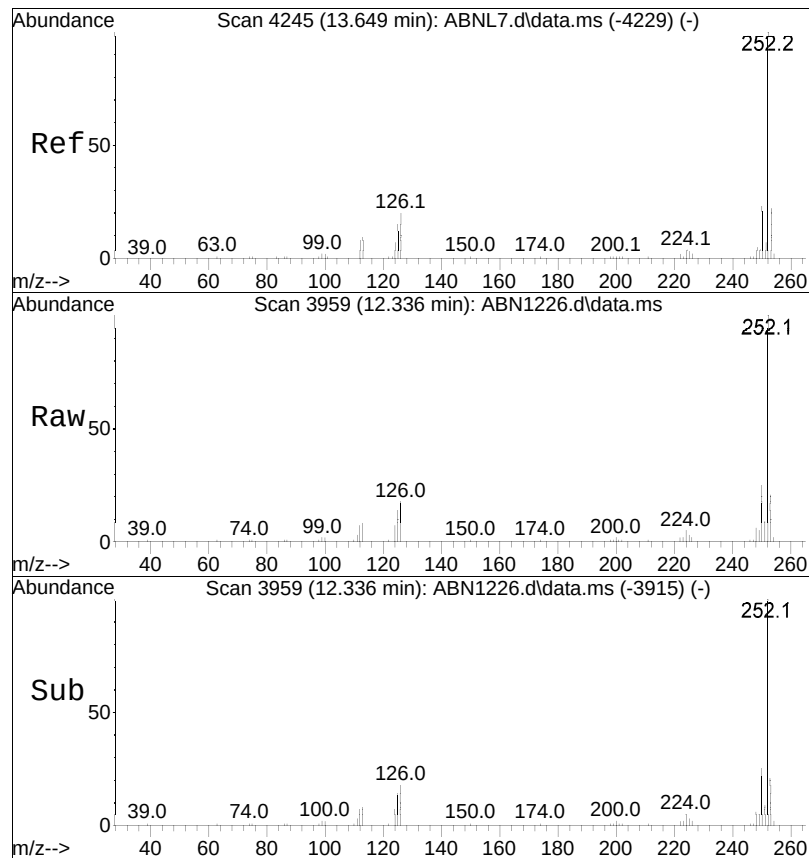




#109  
 Di-n-octylphthalate  
 Concen: 59.54 ug/ml  
 RT: 12.023 min Scan# 3849  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

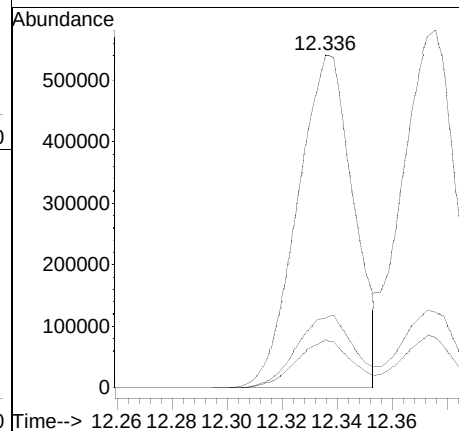
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 43      | 11.4  | 10.1  | 15.1  |
| 167     | 1.4   | 1.1   | 1.7   |

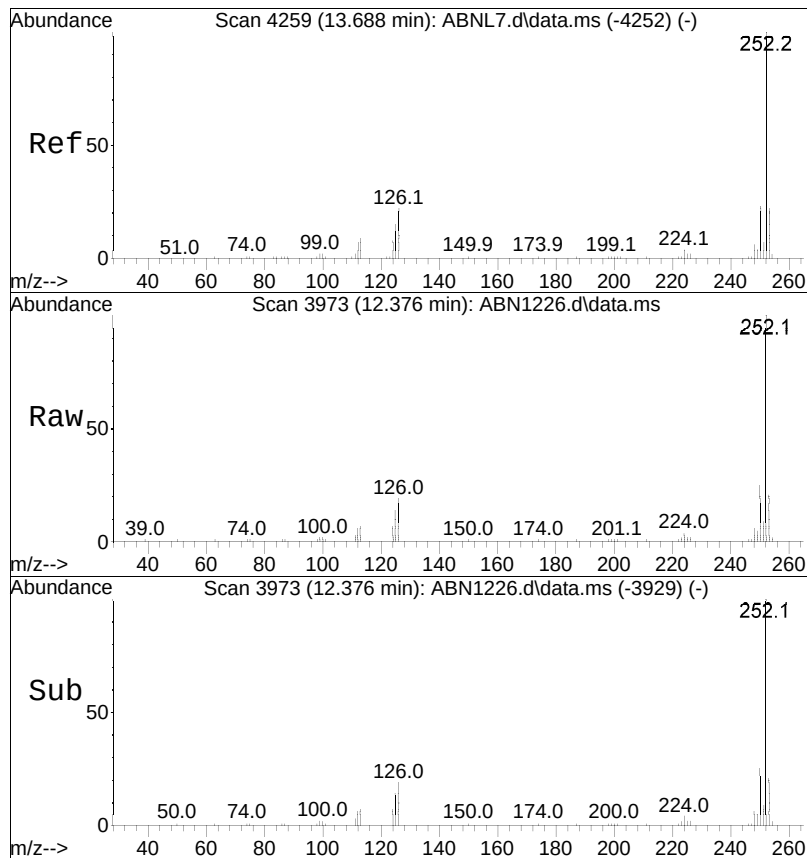




#110  
 Benzo(b)fluoranthene  
 Concen: 56.43 ug/ml  
 RT: 12.336 min Scan# 3959  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

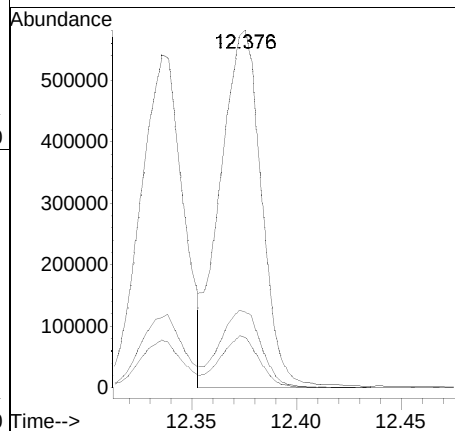
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 761978 |       |       |
| 125     | 14.3  |        | 11.6  | 17.4  |
| 253     | 22.8  |        | 17.4  | 26.0  |

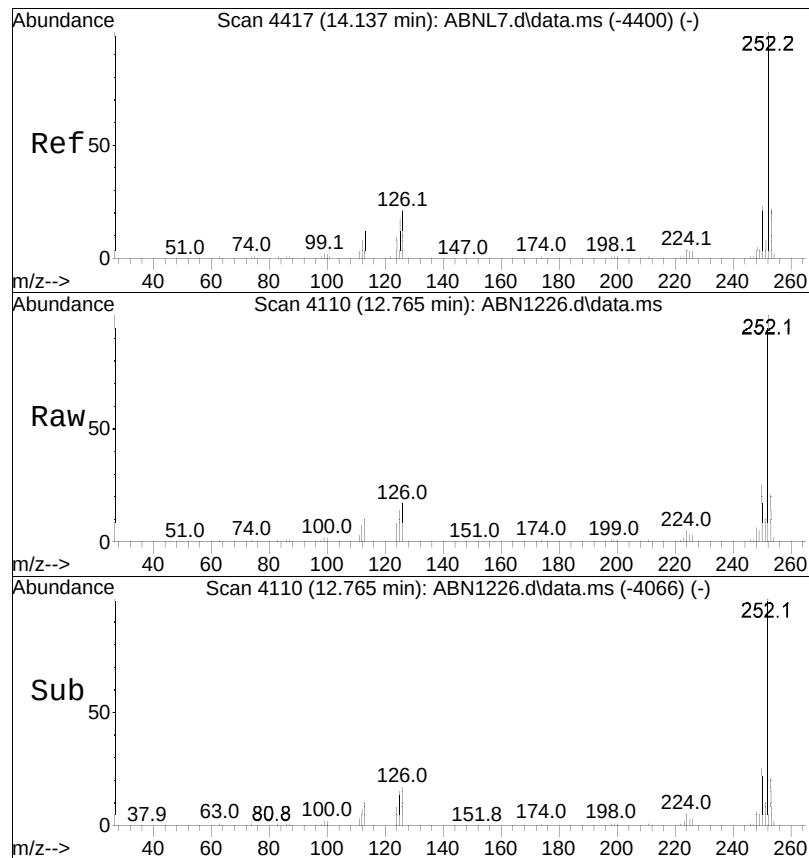




#111  
 Benzo(k)fluoranthene  
 Concen: 57.00 ug/ml M1  
 RT: 12.376 min Scan# 3973  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

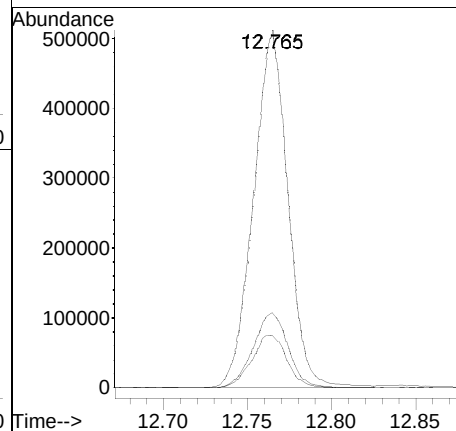
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 801106 |       |       |
| 125 | 13.7 | 11.4  |        | 17.0  |       |
| 253 | 21.1 | 17.2  |        | 25.8  |       |

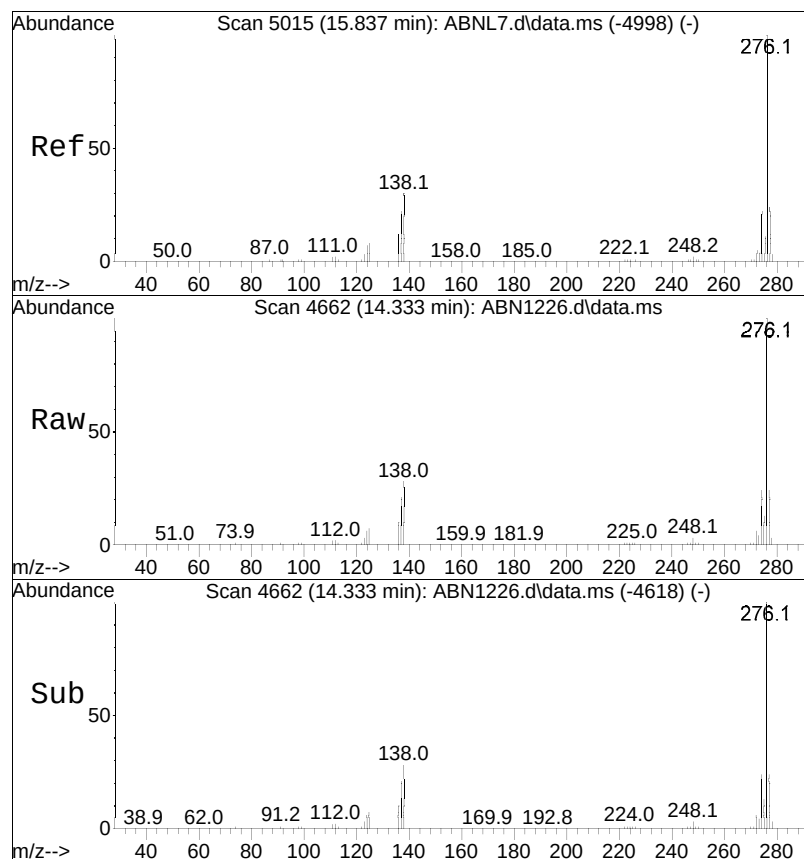




#112  
 Benzo(a)pyrene  
 Concen: 56.43 ug/ml  
 RT: 12.765 min Scan# 4110  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

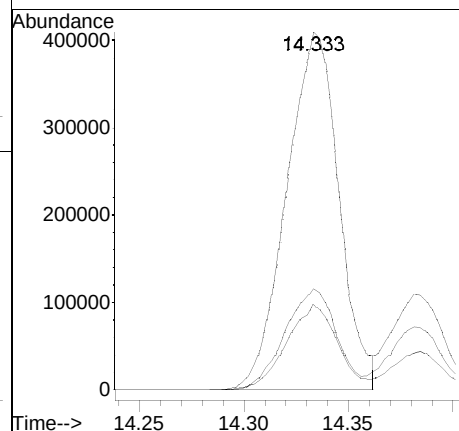
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 717741 |       |       |
| 125     | 15.2  |        | 12.6  | 18.8  |
| 253     | 21.6  |        | 16.9  | 25.3  |

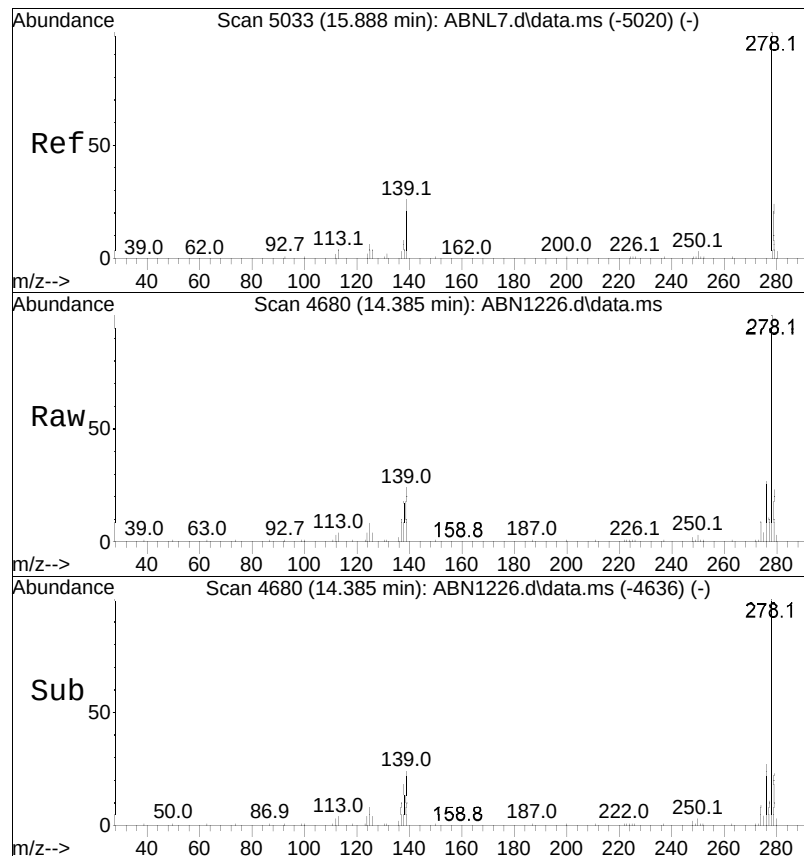




#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 56.19 ug/mL  
 RT: 14.333 min Scan# 4662  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

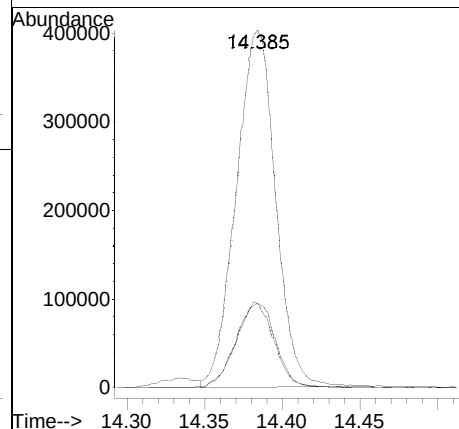
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:276 | Resp: | 708136 |
| Ion | Ratio   | Lower | Upper  |
| 276 | 100     |       |        |
| 138 | 27.9    | 21.4  | 32.0   |
| 277 | 23.5    | 19.2  | 28.8   |

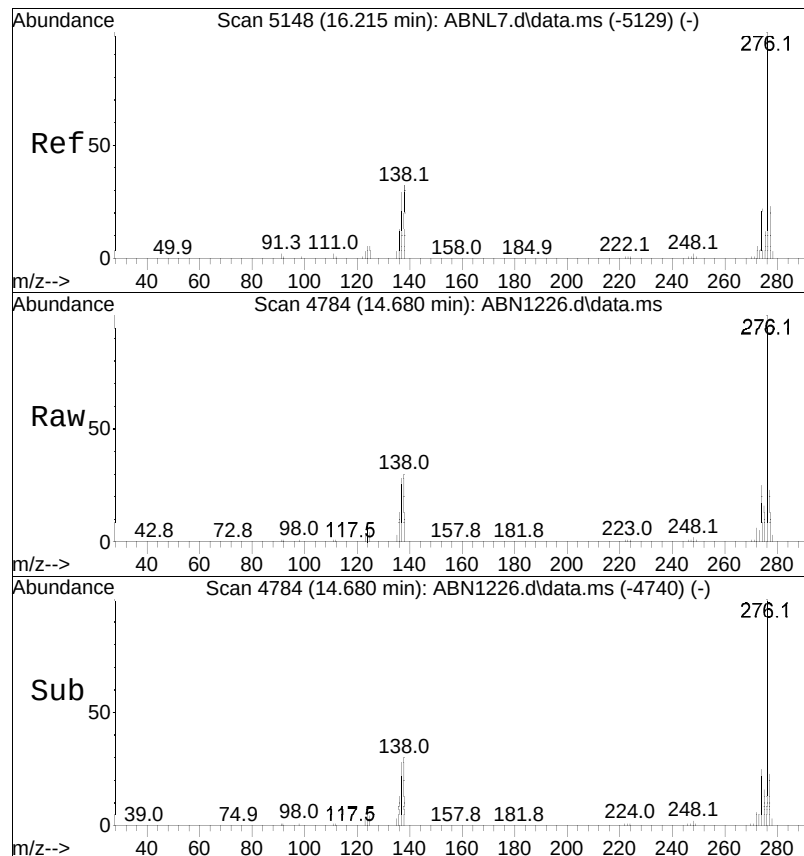




#115  
 Dibenzo(a,h)anthracene  
 Concen: 57.96 ug/ml  
 RT: 14.385 min Scan# 4680  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

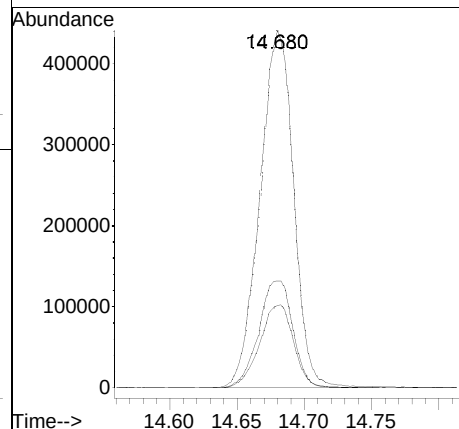
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 703759 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 23.4  | 17.1  | 25.7   |
| 279       | 24.0  | 19.3  | 28.9   |





#116  
 Benzo(ghi)perylene  
 Concen: 55.31 ug/ml  
 RT: 14.680 min Scan# 4784  
 Delta R.T. 0.000 min  
 Lab File: ABN1226.d  
 Acq: 26 Dec 2019 9:52 am

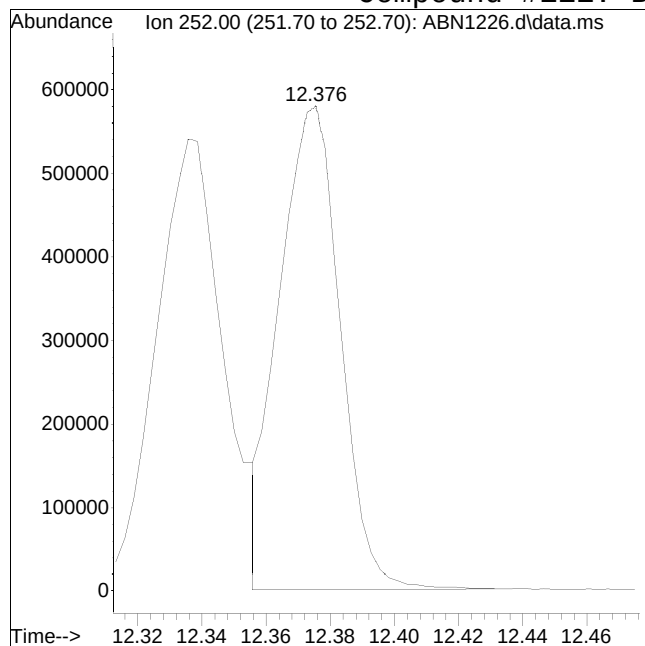
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:276 | Resp: | 761163 |
| Ion | Ratio   | Lower | Upper  |
| 276 | 100     |       |        |
| 138 | 30.8    | 26.7  | 40.1   |
| 277 | 23.8    | 19.4  | 29.2   |



# Manual Integration Report

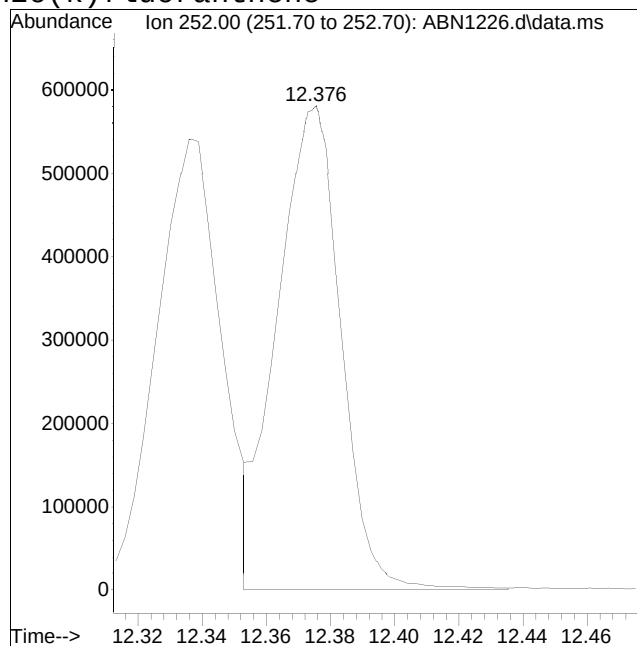
Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : ABN1226.d Operator : SV103:jg  
Date Inj'd : 12/26/2019 9:52 am Instrument : SV103  
Sample : wg1324867-3,32,, ABN CCV LQuant Date : 12/26/2019 1:18 pm

## Compound #111: Benzo(k)fluoranthene



Original Peak Response = 766688

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



Manual Peak Response = 801106 M1



# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191226\  
 Data File : AP91226.d  
 Acq On : 26 Dec 2019 10:17 am  
 Operator : SV103:jg  
 Sample : wg1324867-4,32,, AP9 CCV Lot # 8513  
 Misc : wg1324867,,ical16333  
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 26 10:56:55 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 09:28:04 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|----------------------------|-------|-------|------|-------|----------|
| ----- |                            |       |       |      |       |          |
| 27 I  | IS2_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0  | 76    | 0.00     |
| 28 T  | Benzaldehyde               | 1.048 | 1.122 | -7.1 | 78    | 0.00     |
| 29 T  | Acetophenone               | 1.807 | 1.941 | -7.4 | 77    | 0.00     |
| 30 T  | m-Toluidine                | 1.911 | 2.025 | -6.0 | 78    | 0.00     |
| 31 T  | 2-Chloroaniline            | 1.744 | 1.877 | -7.6 | 80    | 0.00     |
|       |                            |       |       |      |       |          |
| 55 I  | IS2_Naphthalene-d8         | 1.000 | 1.000 | 0.0  | 77    | 0.00     |
| 56 T  | a-Terpineol                | 0.363 | 0.315 | 13.2 | 66    | 0.00     |
| 57 T  | 3-Chloroaniline            | 0.136 | 0.145 | -6.6 | 79    | 0.00     |
| 58 T  | 2,6-Dichlorophenol         | 0.297 | 0.308 | -3.7 | 78    | 0.00     |
| 59 T  | 1-chloro-2-nitrobenzene    | 0.141 | 0.144 | -2.1 | 78    | 0.00     |
| 60 T  | Caprolactam                | 0.215 | 0.176 | 18.1 | 61    | 0.00     |
| 61 T  | 1,2,4,5-Tetrachlorobenzene | 0.329 | 0.327 | 0.6  | 76    | 0.00     |
| 62 T  | Biphenyl                   | 0.851 | 0.875 | -2.8 | 77    | 0.00     |
|       |                            |       |       |      |       |          |
| 83 I  | IS2_Acenaphthene-d10       | 1.000 | 1.000 | 0.0  | 74    | 0.00     |
| 84 T  | Dichloran                  | 0.184 | 0.190 | -3.3 | 76    | 0.00     |
| 85 T  | Pentachloronitrobenzene    | 0.168 | 0.164 | 2.4  | 70    | 0.00     |
|       |                            |       |       |      |       |          |
| 98 I  | IS2_Phenanthrene-d10       | 1.000 | 1.000 | 0.0  | 74    | 0.00     |
| 99 T  | Diphenamid                 | 0.537 | 0.564 | -5.0 | 77    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : AP91226.d  
 Acq On : 26 Dec 2019 10:17 am  
 Operator : SV103:jg  
 Sample : wg1324867-4,32,, AP9 CCV Lot # 8513  
 Misc : wg1324867,,ical16333  
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 26 10:56:55 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 09:28:04 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| -----                         |       |      |          |        |       |          |
| Internal Standards            |       |      |          |        |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 4.034 | 152  | 107713   | 40.000 | ug/ml | 0.00     |
| 55) IS2_Naphthalene-d8        | 5.281 | 136  | 448385   | 40.000 | ug/ml | # 0.00   |
| 83) IS2_Acenaphthene-d10      | 6.972 | 164  | 253761   | 40.000 | ug/ml | 0.00     |
| 98) IS2_Phenanthrene-d10      | 8.384 | 188  | 488152   | 40.000 | ug/ml | 0.00     |

## System Monitoring Compounds

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|-------|------|----------|--------|-------|--------|
| 28) Benzaldehyde              | 3.587 | 105  | 151025   | 53.505 | ug/ml | 94     |
| 29) Acetophenone              | 4.457 | 105  | 261290   | 53.696 | ug/ml | 95     |
| 30) m-Toluidine               | 4.542 | 106  | 272621   | 52.976 | ug/ml | 100    |
| 31) 2-Chloroaniline           | 4.900 | 127  | 252735   | 53.822 | ug/ml | 98     |
| 56) a-Terpineol               | 5.358 | 59   | 176272   | 43.361 | ug/ml | 99     |
| 57) 3-Chloroaniline           | 5.375 | 65   | 81011    | 53.117 | ug/ml | 84     |
| 58) 2,6-Dichlorophenol        | 5.397 | 162  | 172551   | 51.812 | ug/ml | 99     |
| 59) 1-chloro-2-nitrobenzene   | 5.647 | 111  | 80877    | 51.002 | ug/ml | 92     |
| 60) Caprolactam               | 5.701 | 55   | 98582    | 40.874 | ug/ml | 96     |
| 61) 1,2,4,5-Tetrachloroben... | 6.153 | 216  | 183386   | 49.720 | ug/ml | 99     |
| 62) Biphenyl                  | 6.446 | 154  | 490283   | 51.407 | ug/ml | 99     |
| 84) Dichloran                 | 8.108 | 206  | 60327    | 51.636 | ug/ml | 87     |
| 85) Pentachloronitrobenzene   | 8.245 | 237  | 51915    | 48.692 | ug/ml | 93     |
| 99) Diphenamid                | 9.302 | 167  | 344359   | 52.594 | ug/ml | 82     |

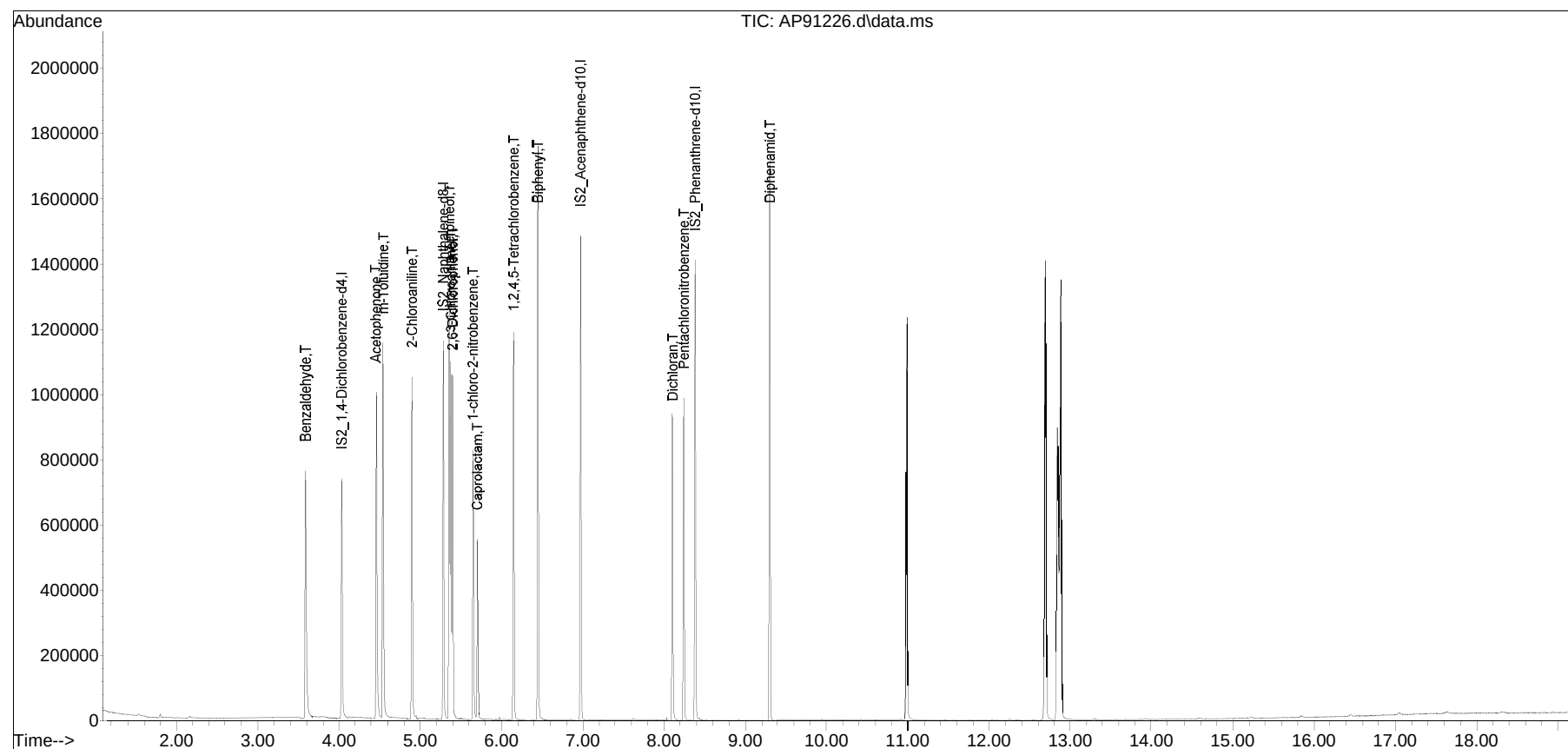
(#) = qualifier out of range (m) = manual integration (+) = signals summed

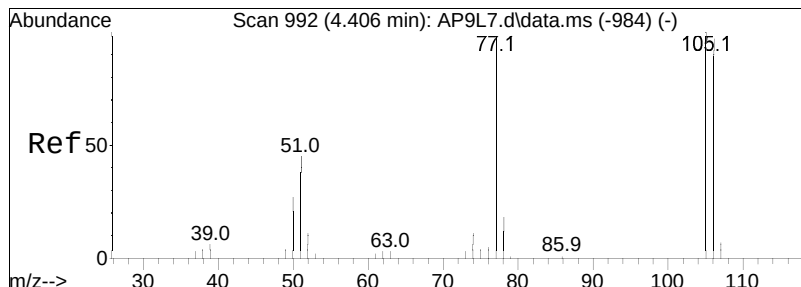
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : AP91226.d  
 Acq On : 26 Dec 2019 10:17 am  
 Operator : SV103:jg  
 Sample : wg1324867-4,32,, AP9 CCV Lot # 8513  
 Misc : wg1324867,, ical16333  
 ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 26 10:56:55 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 09:28:04 2019  
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist





#28

Benzaldehyde

Concen: 53.50 ug/ml

RT: 3.587 min Scan# 880

Delta R.T. -0.003 min

Lab File: AP91226.d

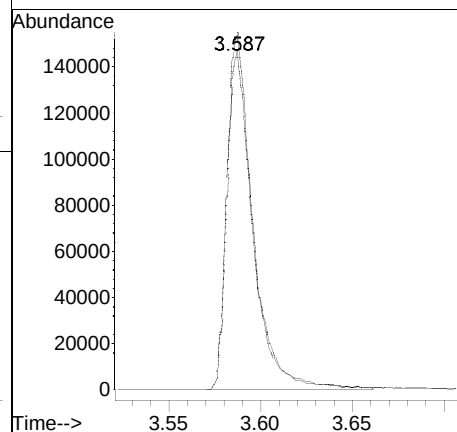
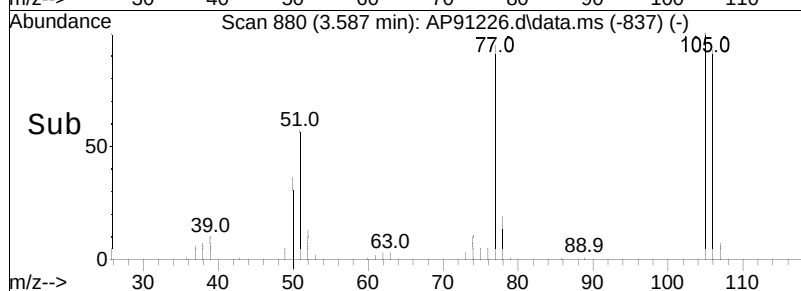
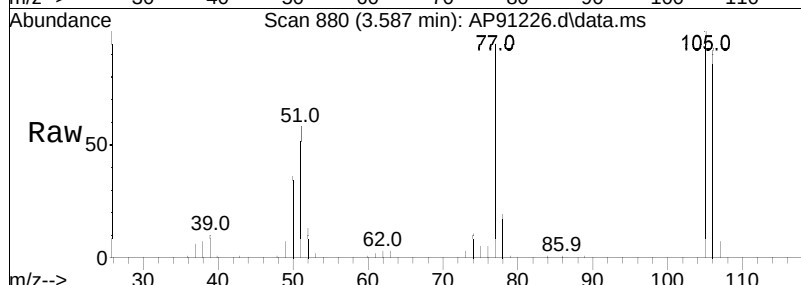
Acq: 26 Dec 2019 10:17 am

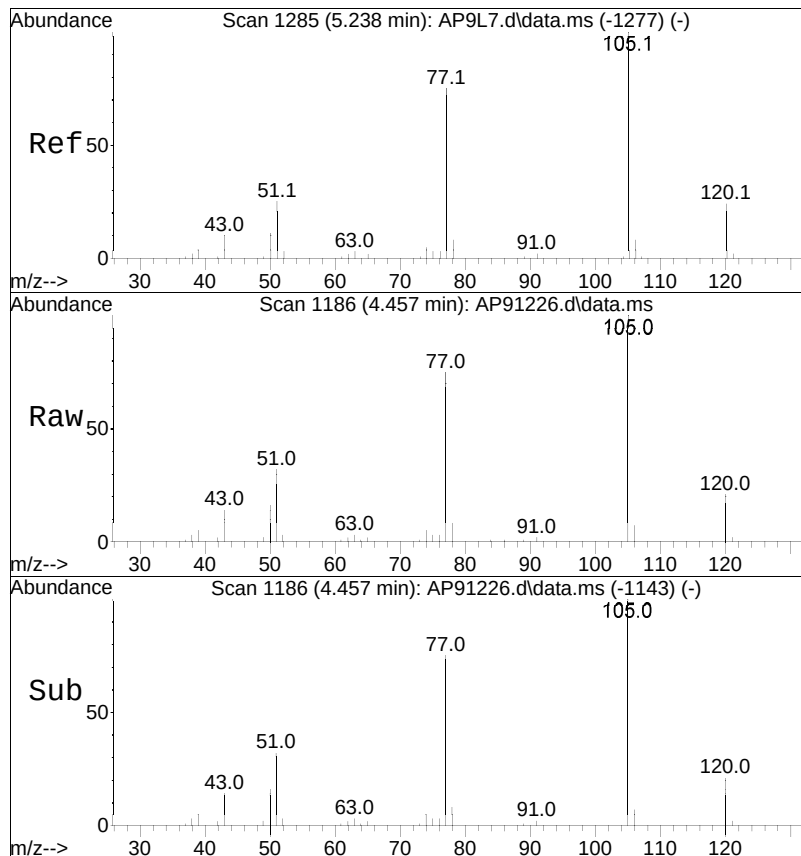
Tgt Ion:105 Resp: 151025

Ion Ratio Lower Upper

105 100

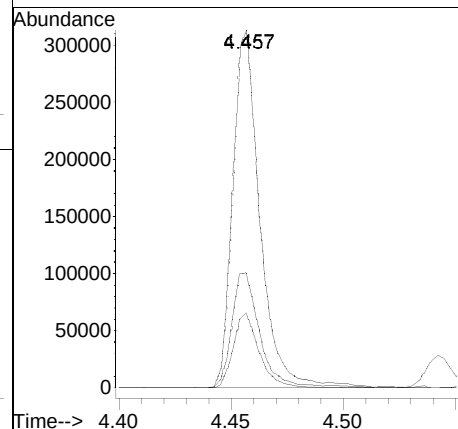
77 95.5 72.0 108.0

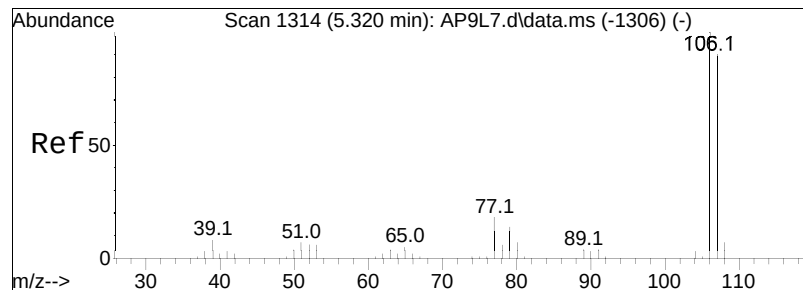




#29  
 Acetophenone  
 Concen: 53.70 ug/ml  
 RT: 4.457 min Scan# 1186  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

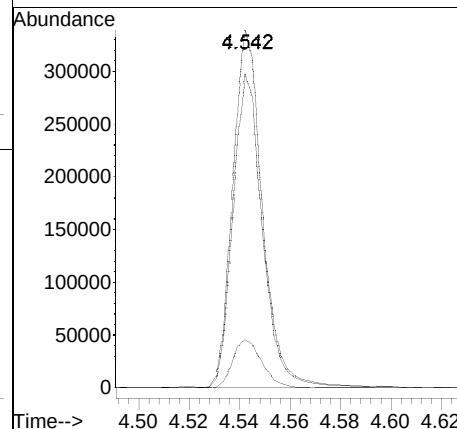
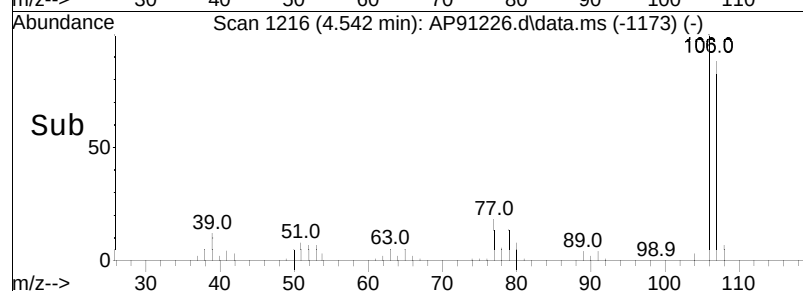
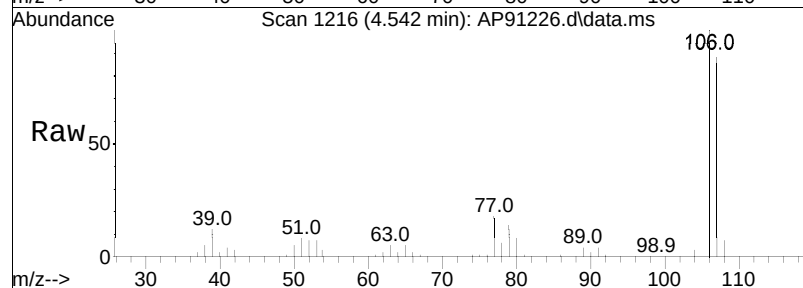
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 261290 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 20.4  | 18.0  | 27.0   |
| 51        | 32.4  | 23.8  | 35.6   |

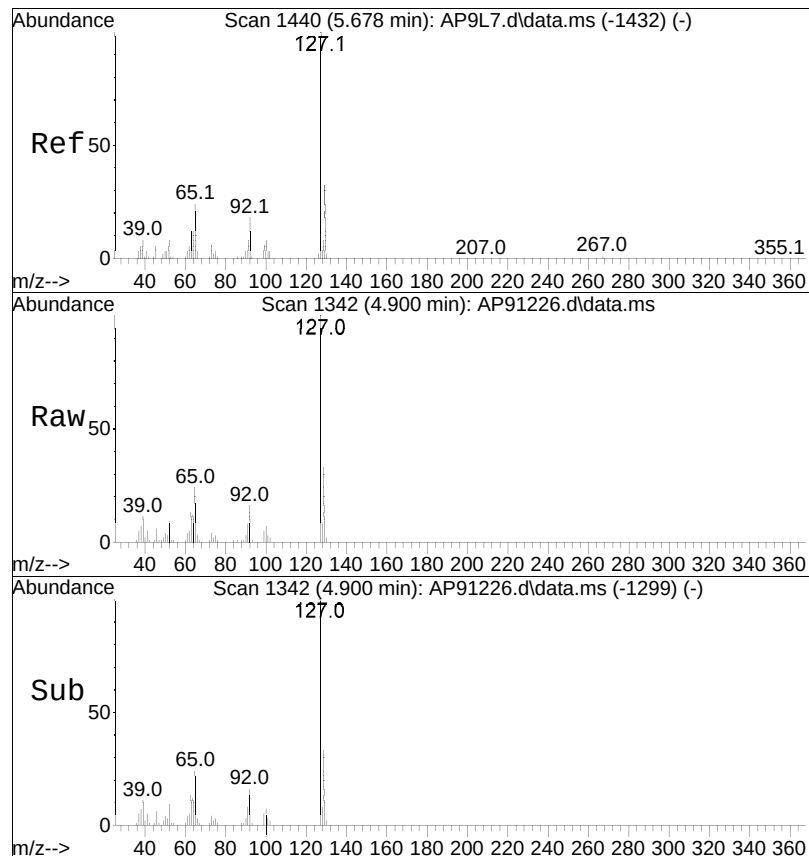




#30  
 m-Toluidine  
 Concen: 52.98 ug/ml  
 RT: 4.542 min Scan# 1216  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

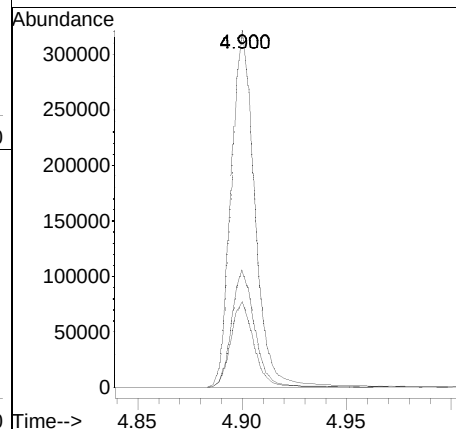
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 107     | 88.7  | 71.1  | 106.7 |
| 79      | 13.8  | 10.5  | 15.7  |

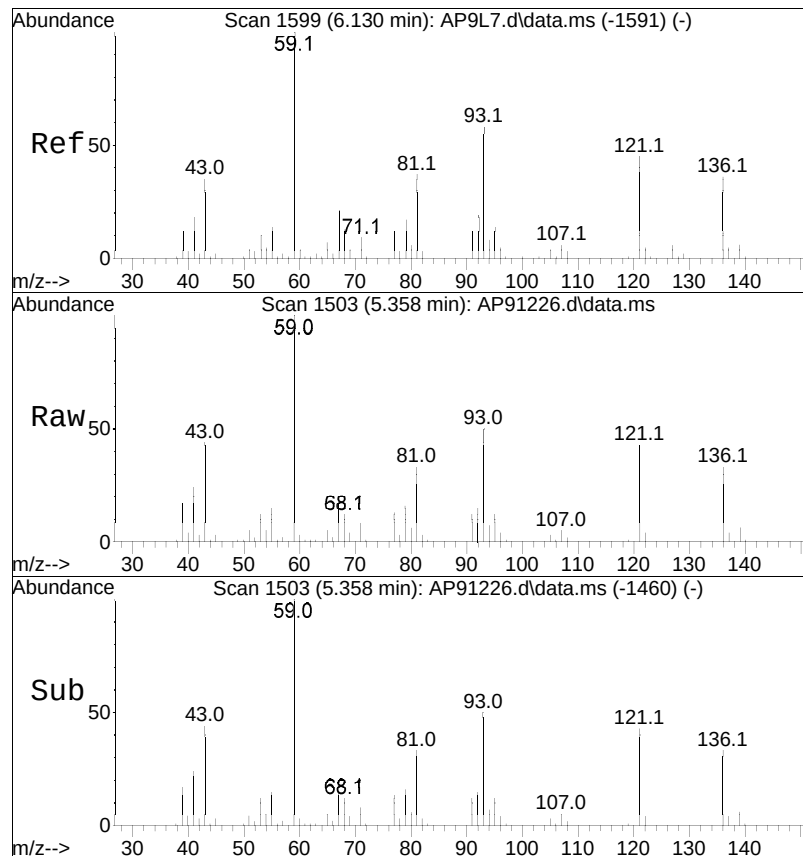




#31  
 2-Chloroaniline  
 Concen: 53.82 ug/ml  
 RT: 4.900 min Scan# 1342  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

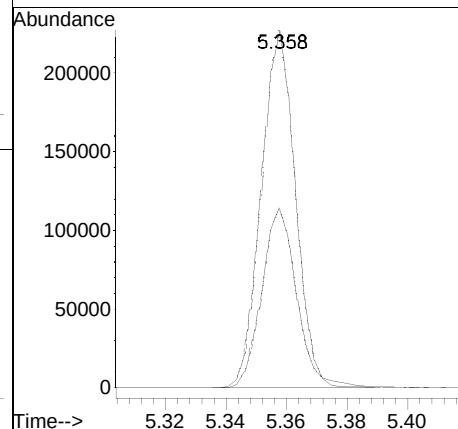
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 127     | 100   | 252735 |       |       |
| 129     | 32.5  |        | 25.9  | 38.9  |
| 65      | 23.6  |        | 17.1  | 25.7  |



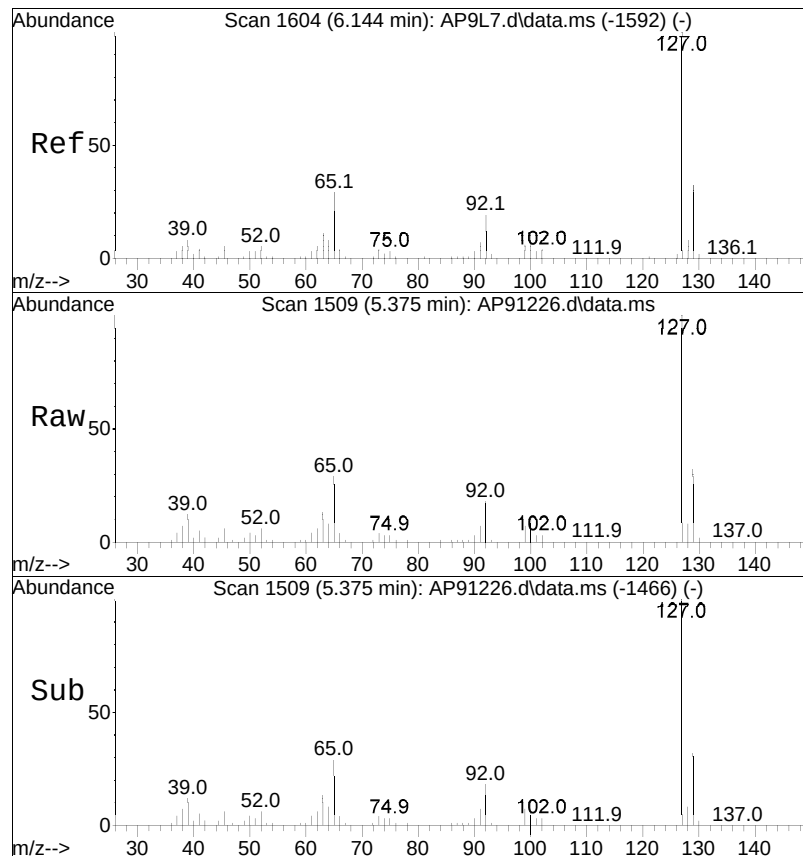


#56  
a-Terpineol  
Concen: 43.36 ug/ml  
RT: 5.358 min Scan# 1503  
Delta R.T. -0.003 min  
Lab File: AP91226.d  
Acq: 26 Dec 2019 10:17 am

| Tgt Ion: | 59 | 93 | Ratio | 100 | 52.0 | Resp: | 176272 | Lower | Upper |
|----------|----|----|-------|-----|------|-------|--------|-------|-------|
|          |    |    |       |     |      |       |        |       |       |

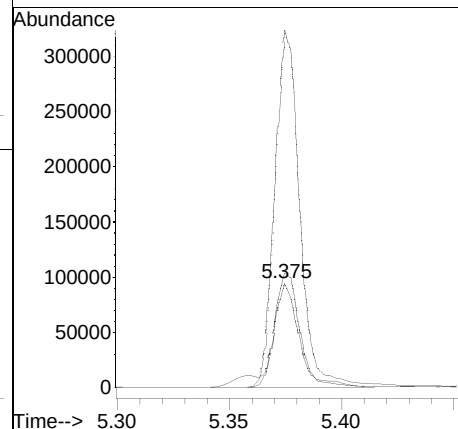


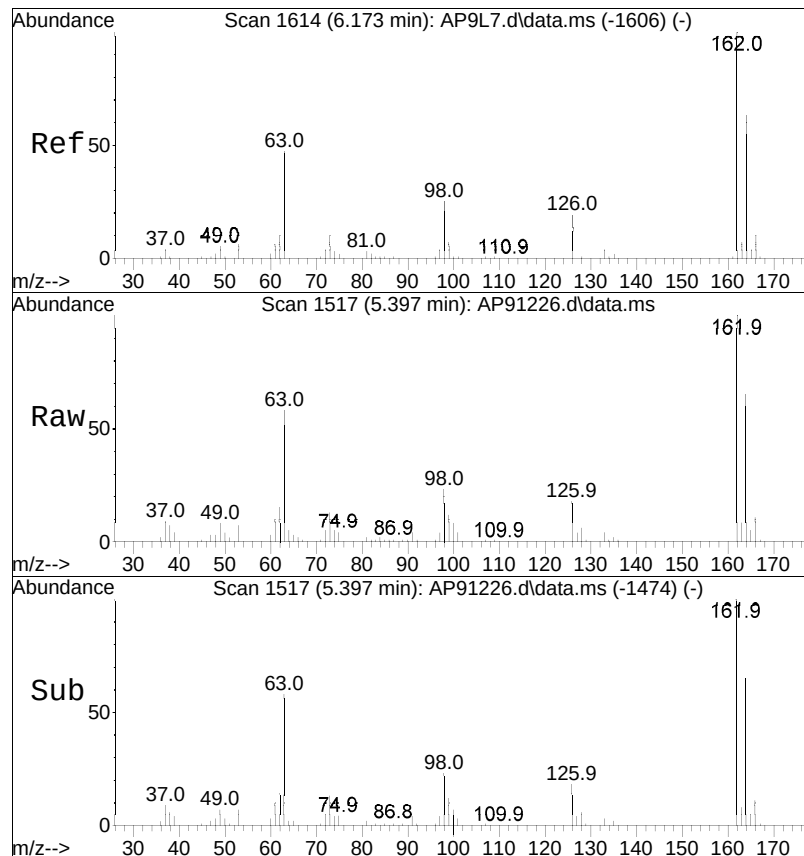




#57  
 3-Chloroaniline  
 Concen: 53.12 ug/ml  
 RT: 5.375 min Scan# 1509  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

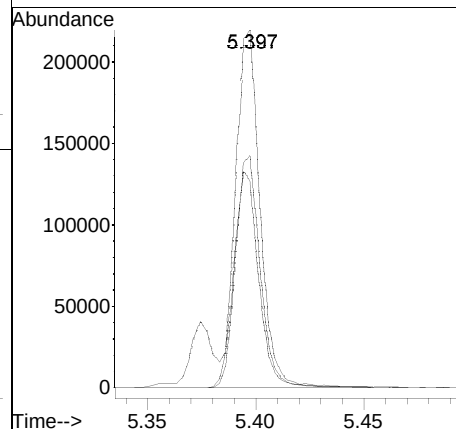
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 65    | Resp: | 81011 |
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 127       | 309.3 | 278.4 | 417.6 |
| 129       | 99.0  | 88.9  | 133.3 |

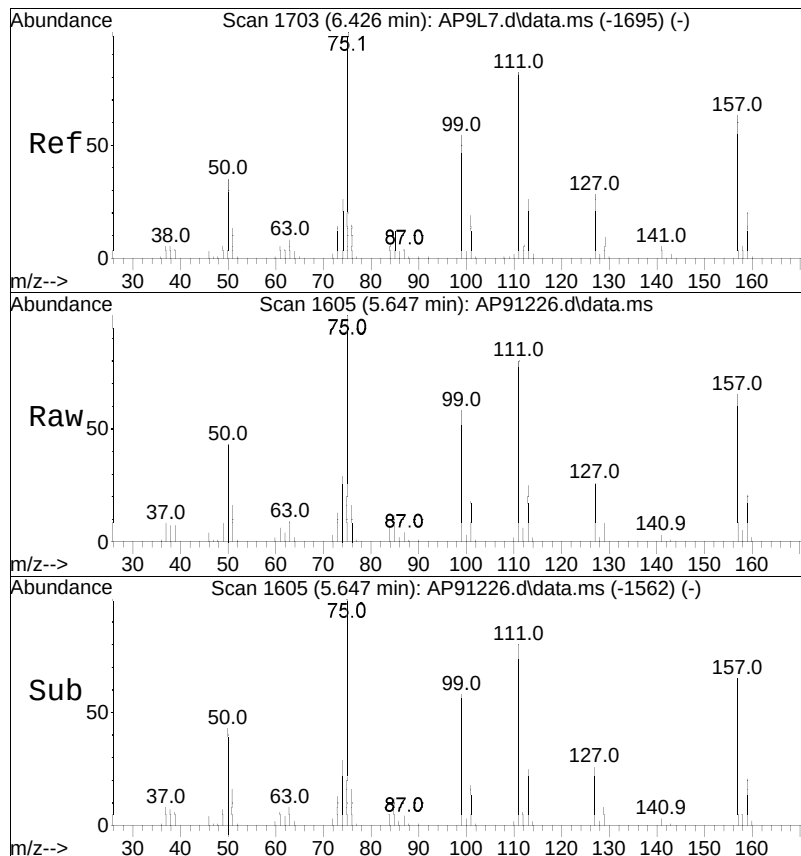




#58  
 2,6-Dichlorophenol  
 Concen: 51.81 ug/ml  
 RT: 5.397 min Scan# 1517  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

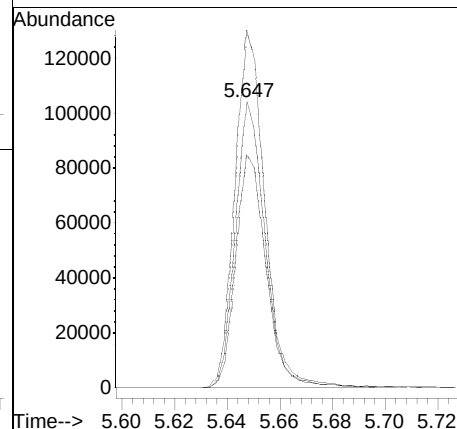
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 172551 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 64.5  | 50.8  | 76.2   |
| 63        | 59.5  | 47.4  | 71.0   |

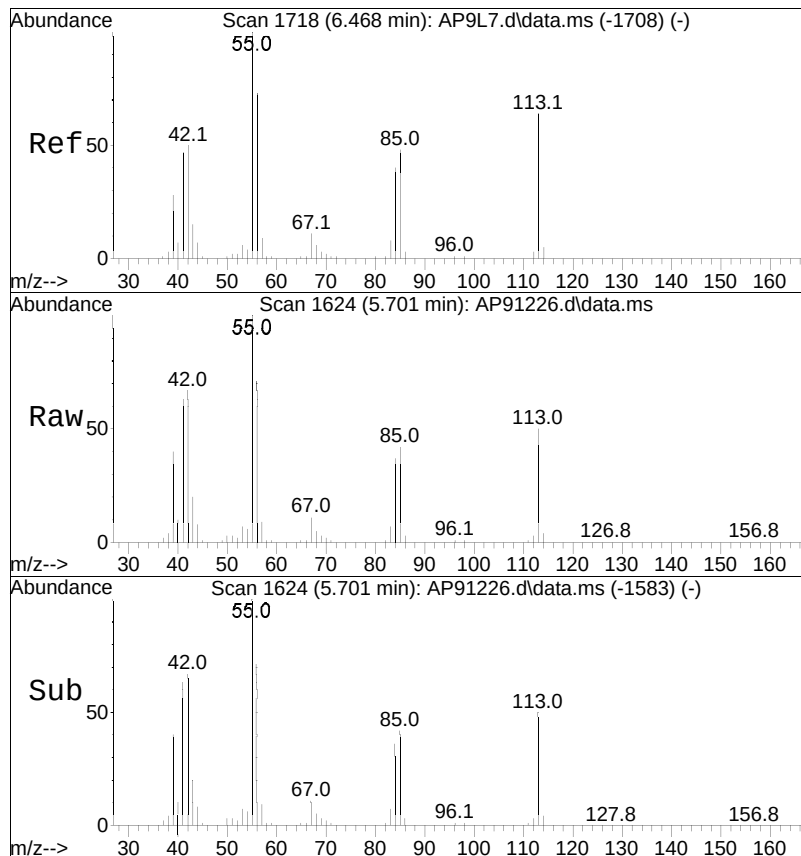




#59  
 1-chloro-2-nitrobenzene  
 Concen: 51.00 ug/ml  
 RT: 5.647 min Scan# 1605  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

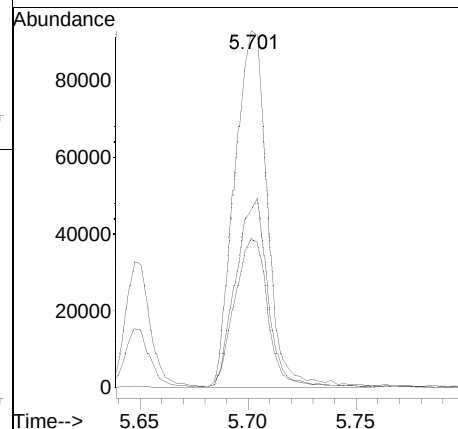
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 111   | Resp: | 80877 |
| Ion Ratio | Lower | Upper |       |
| 111       | 100   |       |       |
| 157       | 83.9  | 62.6  | 94.0  |
| 75        | 126.9 | 93.0  | 139.6 |

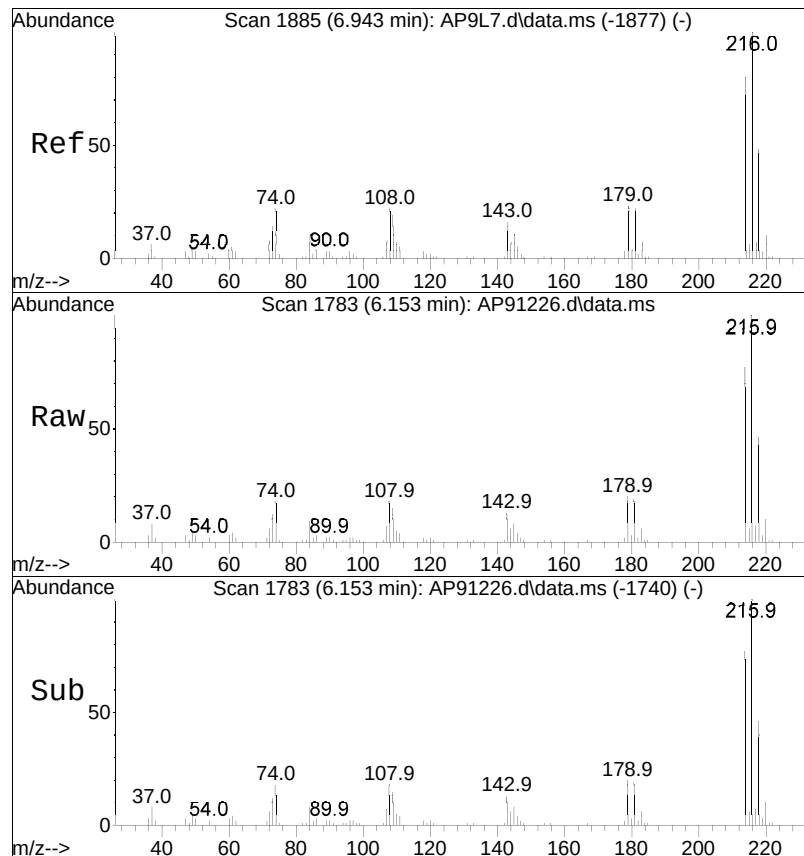




#60  
 Caprolactam  
 Concen: 40.87 ug/ml  
 RT: 5.701 min Scan# 1624  
 Delta R.T. -0.008 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

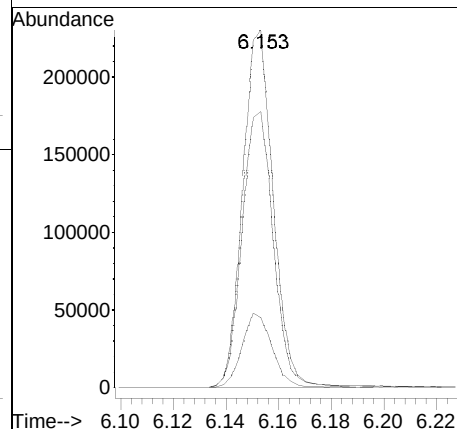
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 55    | Resp: | 98582 |
| Ion Ratio | Lower | Upper |       |
| 55        | 100   |       |       |
| 85        | 41.9  | 32.6  | 48.8  |
| 113       | 51.2  | 44.6  | 66.8  |

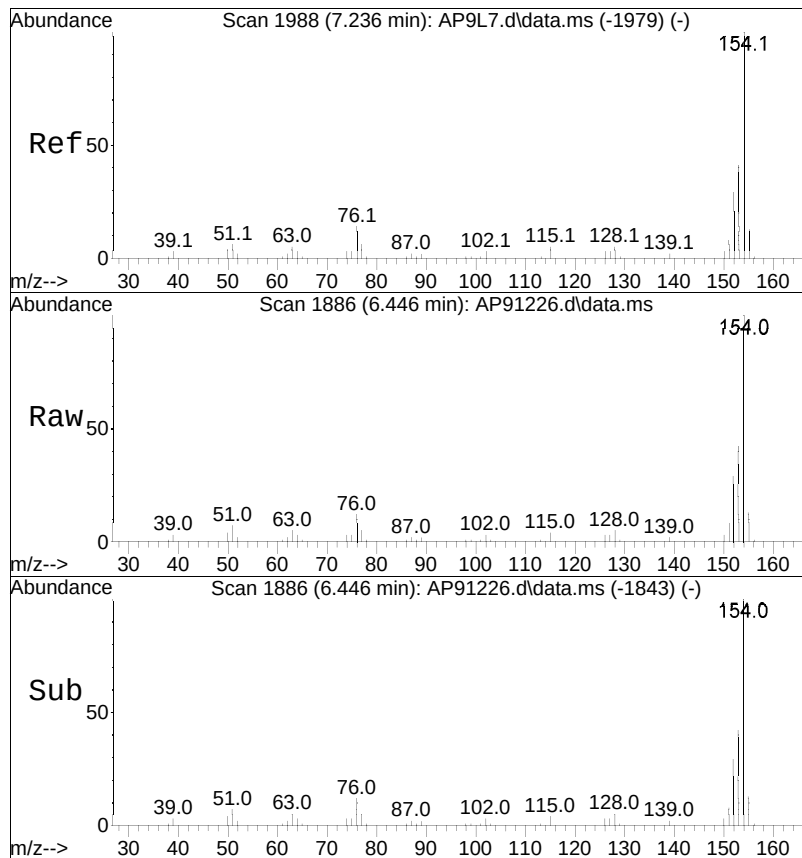




#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 49.72 ug/ml  
 RT: 6.153 min Scan# 1783  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

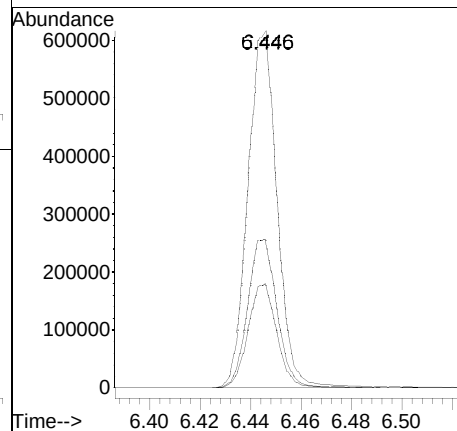
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 183386 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 79.2  | 63.0  | 94.6   |
| 179       | 20.6  | 17.4  | 26.2   |

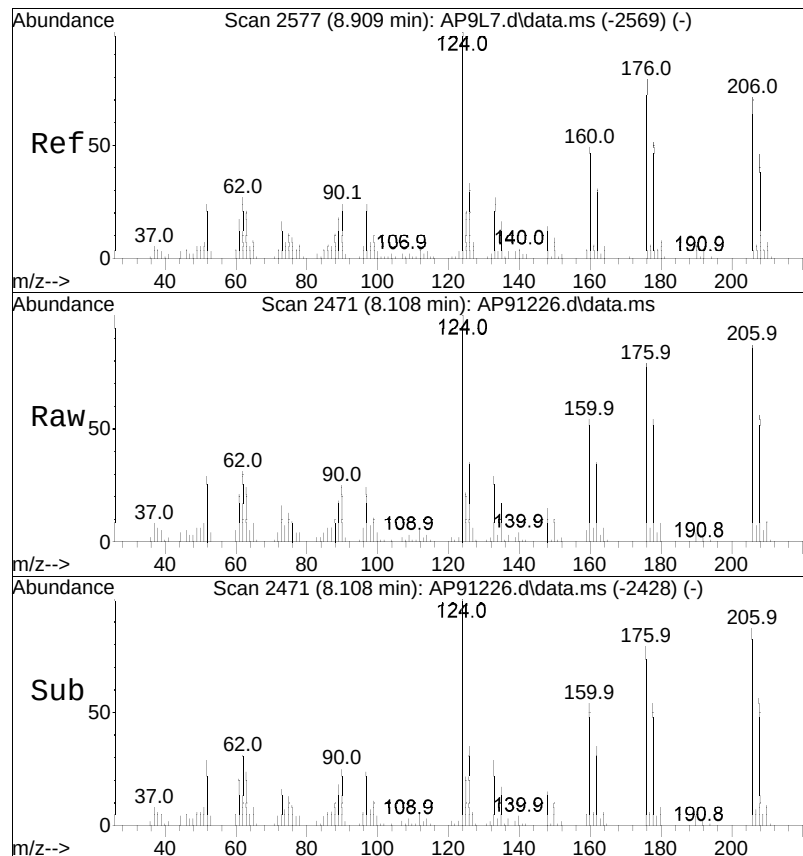




#62  
 Biphenyl  
 Concen: 51.41 ug/ml  
 RT: 6.446 min Scan# 1886  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

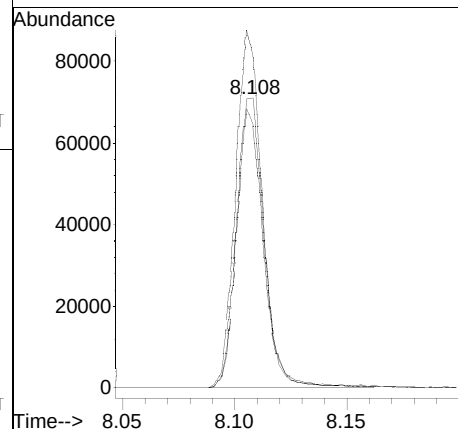
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 490283 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 42.1  | 33.5  | 50.3   |
| 152       | 28.9  | 22.6  | 34.0   |

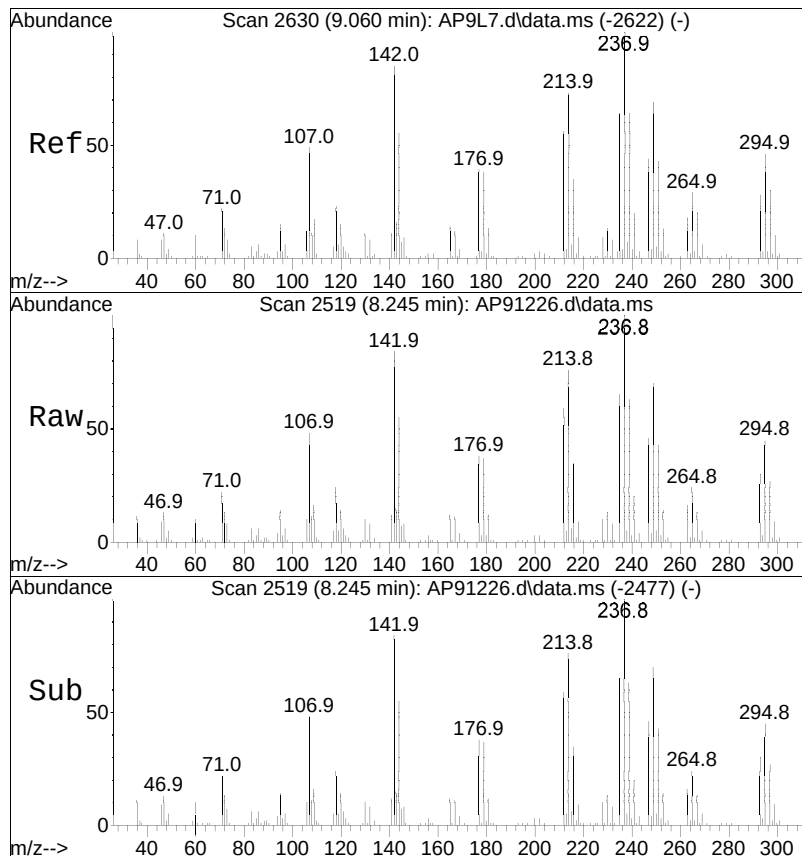




#84  
 Dichloran  
 Concen: 51.64 ug/ml  
 RT: 8.108 min Scan# 2471  
 Delta R.T. -0.003 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

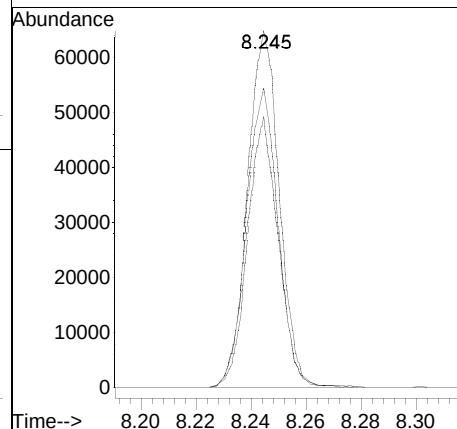
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 206   | Resp: | 60327 |
| Ion Ratio | Lower | Upper |       |
| 206       | 100   |       |       |
| 176       | 94.2  | 72.3  | 108.5 |
| 124       | 120.4 | 114.0 | 171.0 |



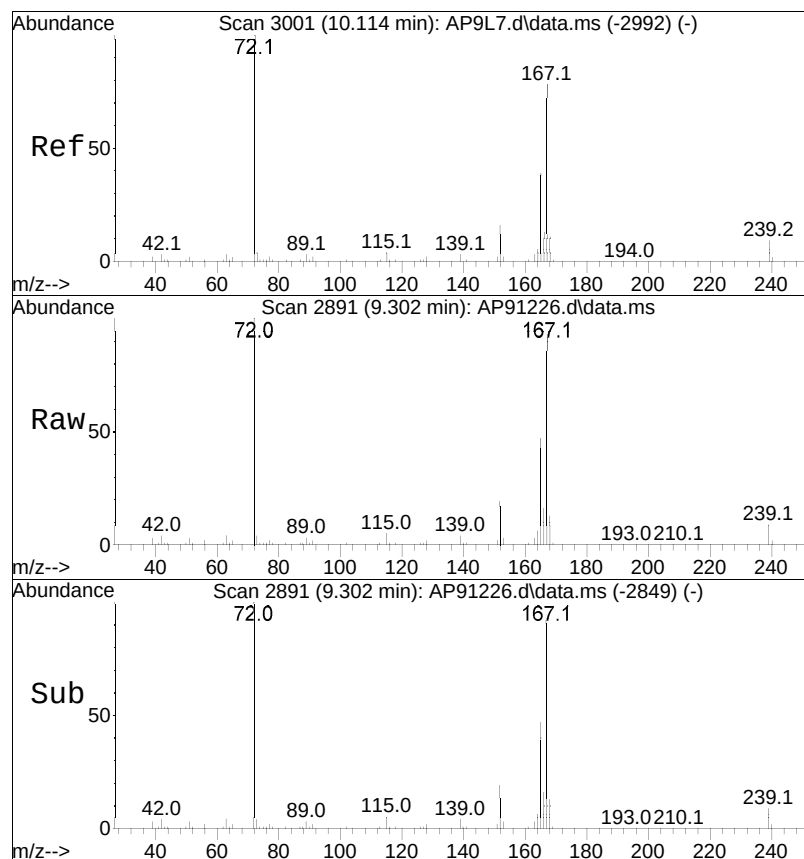


#85  
 Pentachloronitrobenzene  
 Concen: 48.69 ug/ml  
 RT: 8.245 min Scan# 2519  
 Delta R.T. -0.006 min  
 Lab File: AP91226.d  
 Acq: 26 Dec 2019 10:17 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 51915 |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 142       | 83.6  | 75.2  | 112.8 |
| 214       | 73.3  | 60.5  | 90.7  |

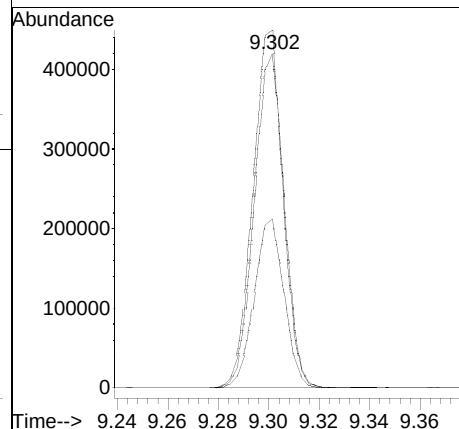






#99  
Diphenamid  
Concen: 52.59 ug/ml  
RT: 9.302 min Scan# 2891  
Delta R.T. -0.006 min  
Lab File: AP91226.d  
Acq: 26 Dec 2019 10:17 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 344359 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 72        | 107.0 | 105.4 | 158.2  |
| 165       | 50.3  | 36.2  | 54.4   |



# Manual Integration Report

Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : AP91226.d Operator : SV103:jg  
Date Inj'd : 12/26/2019 10:17 am Instrument : SV103  
Sample : wg1324867-4,32,, AP9 CCV LQuant Date : 12/26/2019 10:56 am

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

# Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\191226\  
 Data File : ADP1226.d  
 Acq On : 26 Dec 2019 10:41 am  
 Operator : SV103:jg  
 Sample : wg1324867-5,32,, ADP CCV Lot # 8502  
 Misc : wg1324867,, ical16333  
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 26 11:18:47 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 09:28:04 2019  
 Response via : Initial Calibration

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

|       | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|----------------------------|-------|-------|-------|-------|----------|
| 32 I  | IS3_1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 33    | 1,4-Dioxane                | 0.537 | 0.454 | 15.5  | 77    | 0.00     |
| 34 T  | n-Decane                   | 1.852 | 1.454 | 21.5# | 70    | 0.00     |
| 86 I  | IS3_Acenaphthene-d10       | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 87 T  | Atrazine                   | 0.371 | 0.359 | 3.2   | 79    | 0.00     |
| 100 I | IS3_Phenanthrene-d10       | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 101 T | n-Octadecane               | 0.579 | 0.510 | 11.9  | 69    | 0.00     |
| 102 T | Parathion                  | 0.136 | 0.151 | -11.0 | 88    | 0.00     |
| 103 T | 3,3'-Dimethylbenzidine     | 0.699 | 0.777 | -11.2 | 85    | 0.00     |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : ADP1226.d  
 Acq On : 26 Dec 2019 10:41 am  
 Operator : SV103:jg  
 Sample : wg1324867-5,32,, ADP CCV Lot # 8502  
 Misc : wg1324867,,ical16333  
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 26 11:18:47 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 09:28:04 2019  
 Response via : Initial Calibration

Sub List : ADPical\_REV2 - ADP sublist

| Compound                      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| -----                         |       |      |          |        |       |          |
| Internal Standards            |       |      |          |        |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 4.031 | 152  | 117782   | 40.000 | ug/ml | 0.00     |
| 86) IS3_Acenaphthene-d10      | 6.971 | 164  | 268914   | 40.000 | ug/ml | 0.00     |
| 100) IS3_Phenanthrene-d10     | 8.384 | 188  | 514565   | 40.000 | ug/ml | 0.00     |

## System Monitoring Compounds

| Target Compounds            | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|--------|------|----------|--------|--------|--------|
| 33) 1,4-Dioxane             | 1.152  | 88   | 66860    | 42.295 | ug/ml# | 74     |
| 34) n-Decane                | 3.937  | 57   | 214009   | 39.238 | ug/ml# | 76     |
| 87) Atrazine                | 8.199  | 200  | 120565   | 48.364 | ug/ml  | 95     |
| 101) n-Octadecane           | 8.406  | 57   | 328065   | 44.056 | ug/ml# | 87     |
| 102) Parathion              | 9.185  | 109  | 97414    | 55.790 | ug/ml  | 97     |
| 103) 3,3'-Dimethylbenzidine | 10.427 | 212  | 499788   | 55.572 | ug/ml  | 98     |

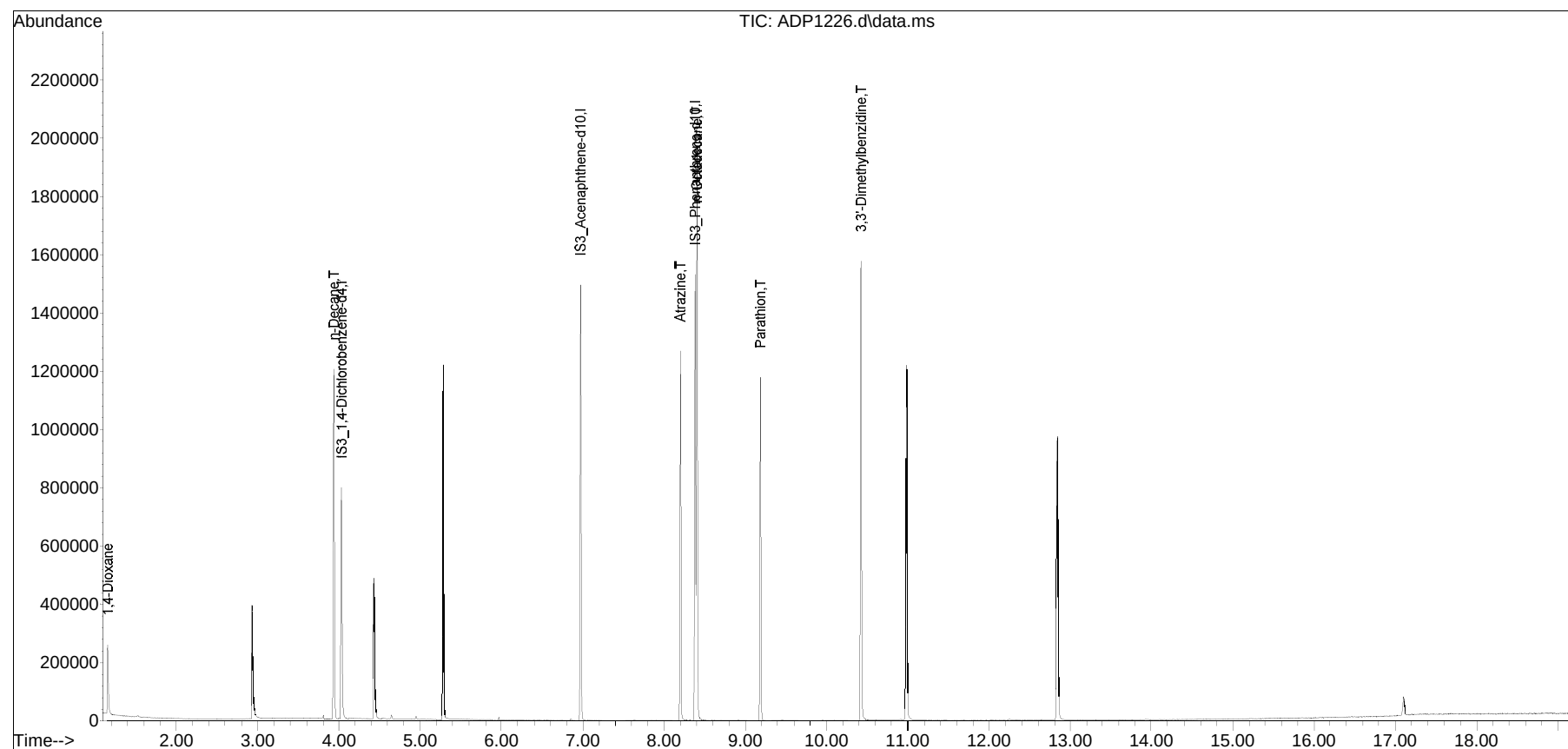
(#) = qualifier out of range (m) = manual integration (+) = signals summed

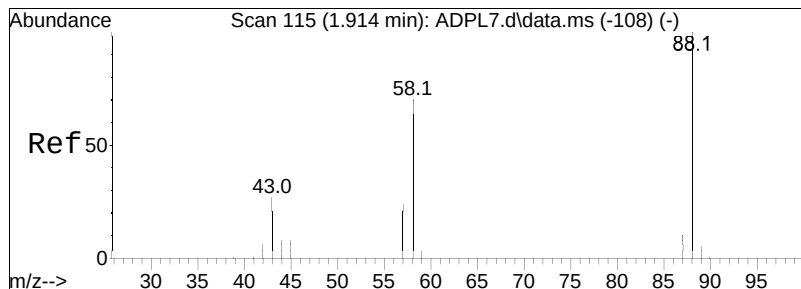
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\191226\  
 Data File : ADP1226.d  
 Acq On : 26 Dec 2019 10:41 am  
 Operator : SV103:jg  
 Sample : wg1324867-5,32,, ADP CCV Lot # 8502  
 Misc : wg1324867,,ical16333  
 ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 26 11:18:47 2019  
 Quant Method : I:\8270\SV103\191226\FS191201SV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 09:28:04 2019  
 Response via : Initial Calibration

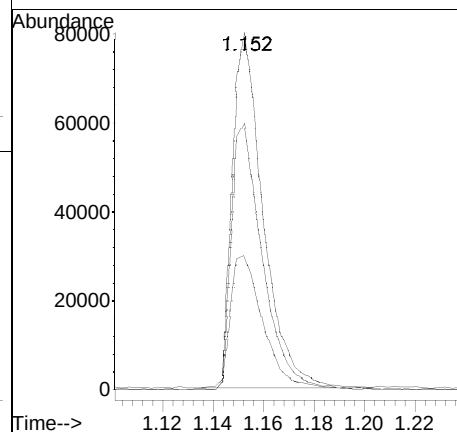
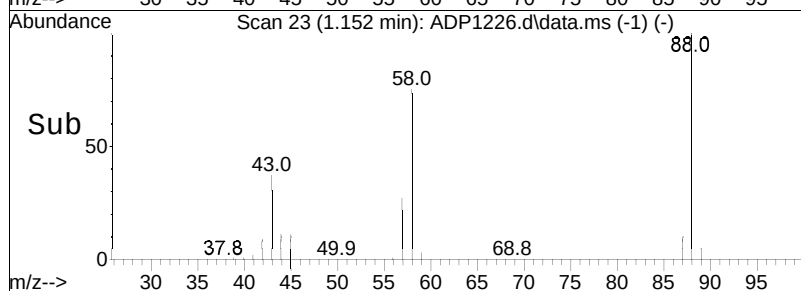
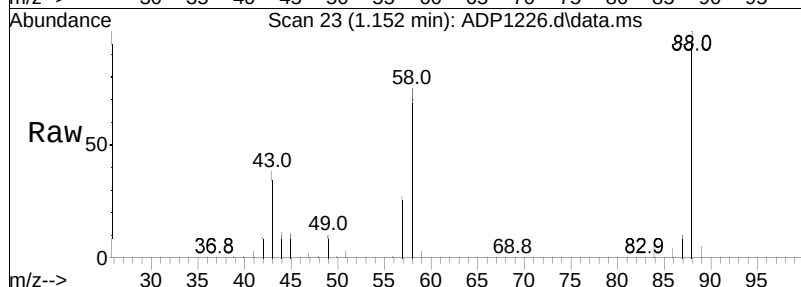
Sub List : ADPical\_REV2 - ADP sublist

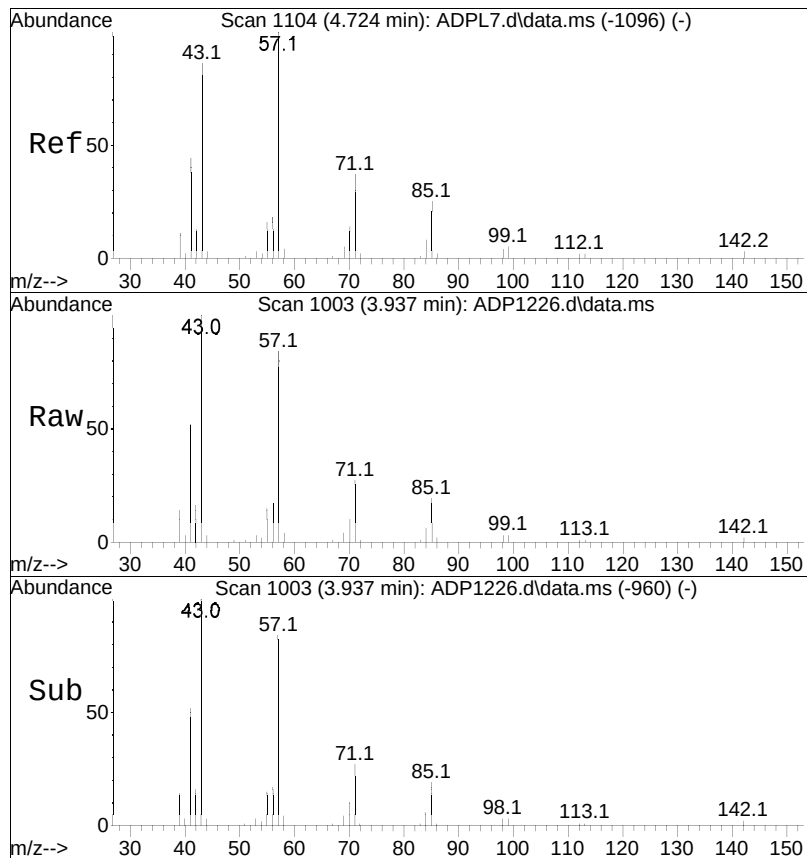




#33  
 1,4-Dioxane  
 Concen: 42.30 ug/ml  
 RT: 1.152 min Scan# 23  
 Delta R.T. -0.003 min  
 Lab File: ADP1226.d  
 Acq: 26 Dec 2019 10:41 am

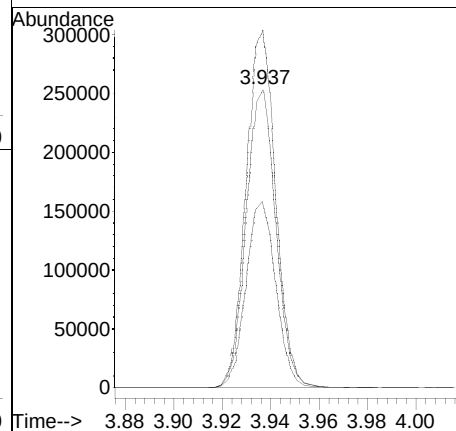
Tgt Ion: 88 Resp: 66860  
 Ion Ratio Lower Upper  
 88 100  
 58 75.9 44.8 67.2#  
 43 40.8 22.4 33.6#

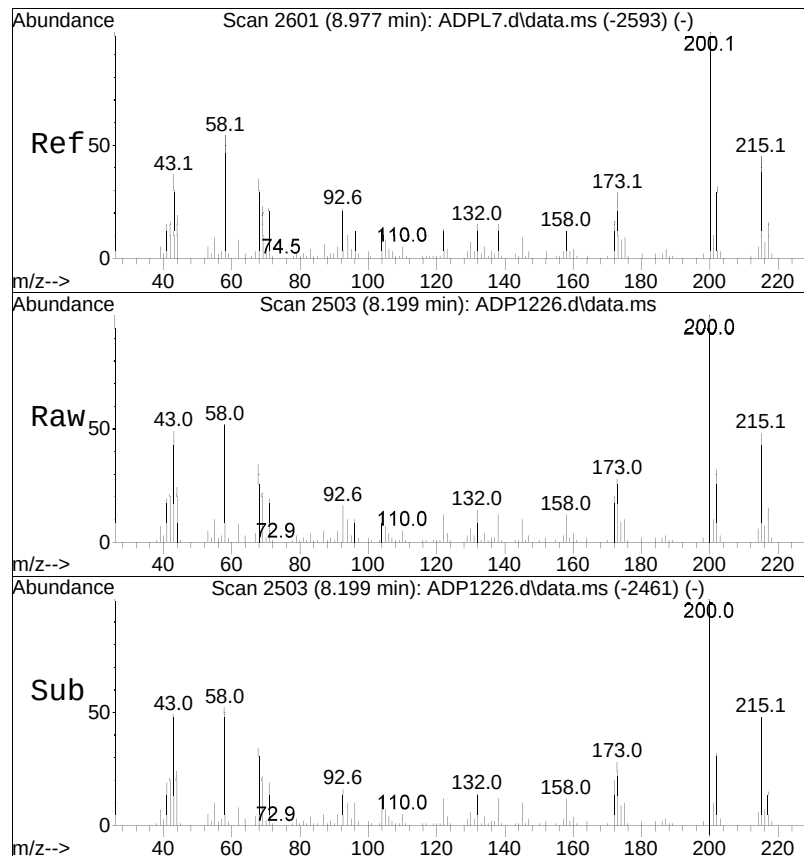




#34  
 n-Decane  
 Concen: 39.24 ug/ml  
 RT: 3.937 min Scan# 1003  
 Delta R.T. -0.003 min  
 Lab File: ADP1226.d  
 Acq: 26 Dec 2019 10:41 am

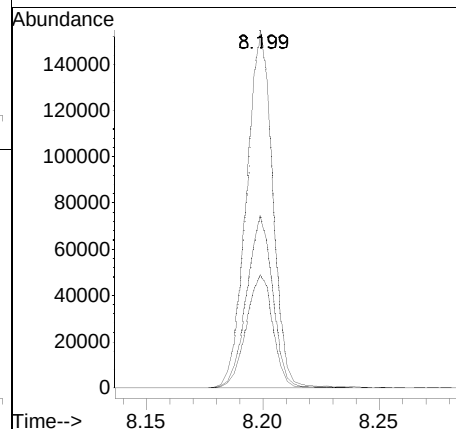
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 43      | 119.9 | 77.9  | 116.9# |
| 41      | 63.2  | 36.9  | 55.3#  |



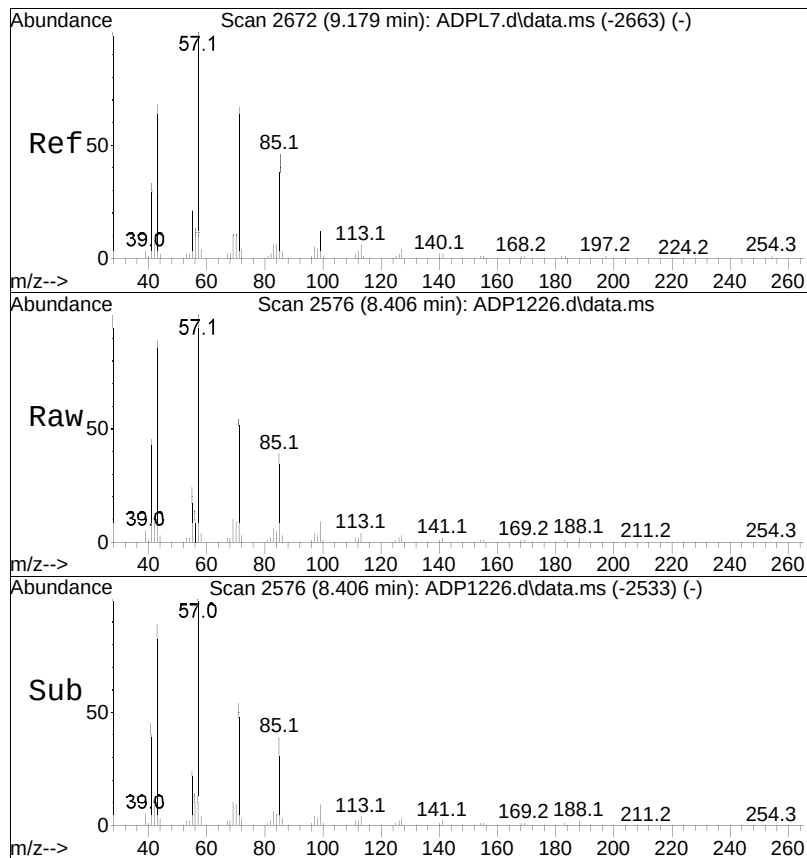


#87  
 Atrazine  
 Concen: 48.36 ug/ml  
 RT: 8.199 min Scan# 2503  
 Delta R.T. -0.006 min  
 Lab File: ADP1226.d  
 Acq: 26 Dec 2019 10:41 am

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 200 | 100  |       | 120565 |       |       |
| 202 | 32.2 | 24.9  |        | 37.3  |       |
| 215 | 47.5 | 34.0  |        | 51.0  |       |

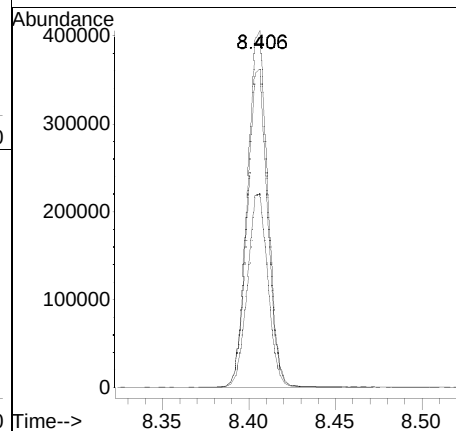


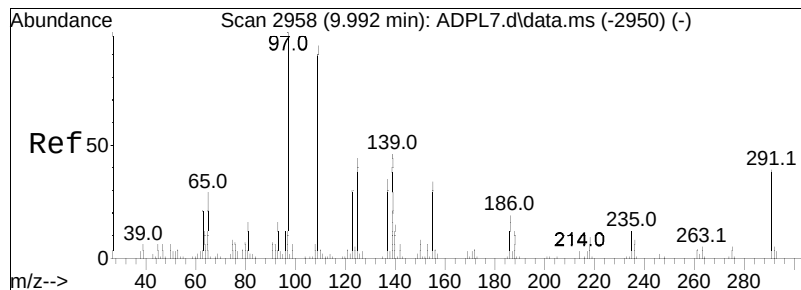




#101  
n-Octadecane  
Concen: 44.06 ug/ml  
RT: 8.406 min Scan# 2576  
Delta R.T. -0.003 min  
Lab File: ADP1226.d  
Acq: 26 Dec 2019 10:41 am

| Tgt | Ion   | Resp  | 328065 |
|-----|-------|-------|--------|
| Ion | Ratio | Lower | Upper  |
| 57  | 100   |       |        |
| 43  | 89.2  | 56.7  | 85.1#  |
| 71  | 54.6  | 42.8  | 64.2   |





#102

Parathion

Concen: 55.79 ug/ml

RT: 9.185 min Scan# 2850

Delta R.T. -0.006 min

Lab File: ADP1226.d

Acq: 26 Dec 2019 10:41 am

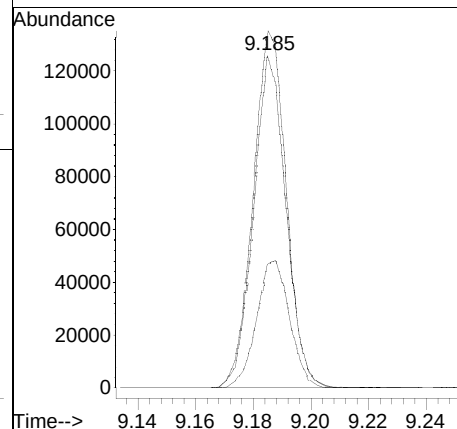
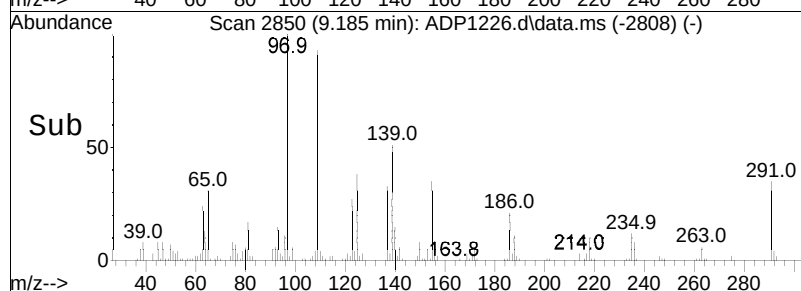
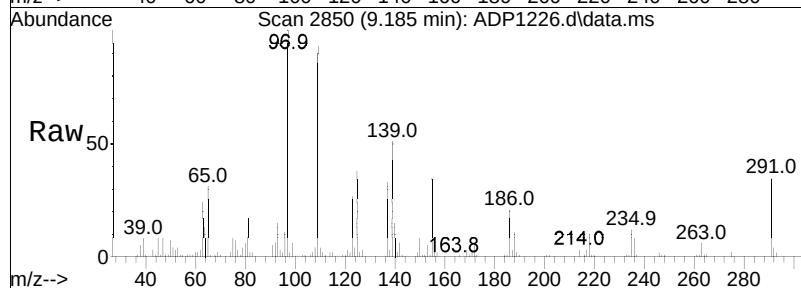
Tgt Ion:109 Resp: 97414

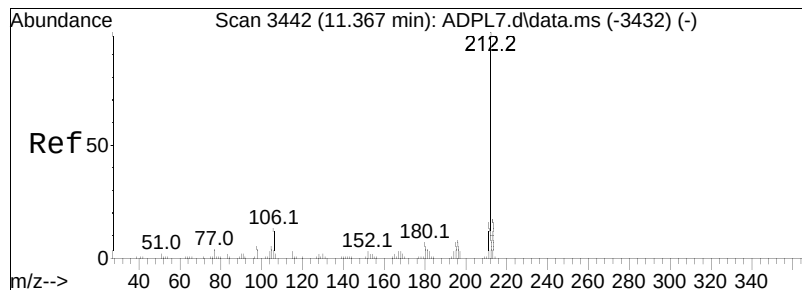
Ion Ratio Lower Upper

109 100

97 110.2 85.8 128.8

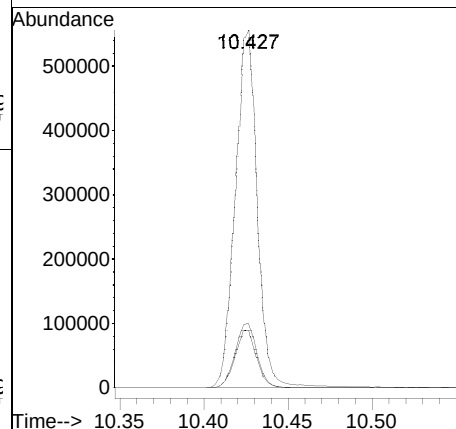
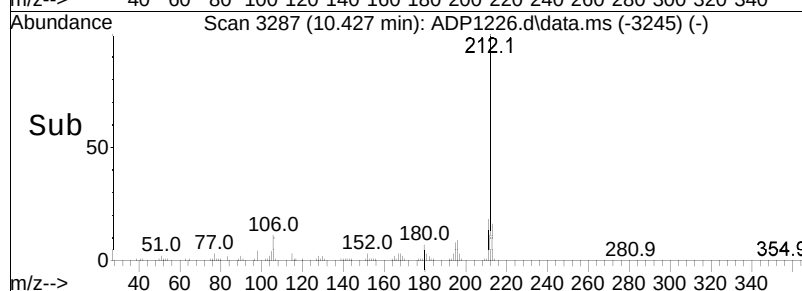
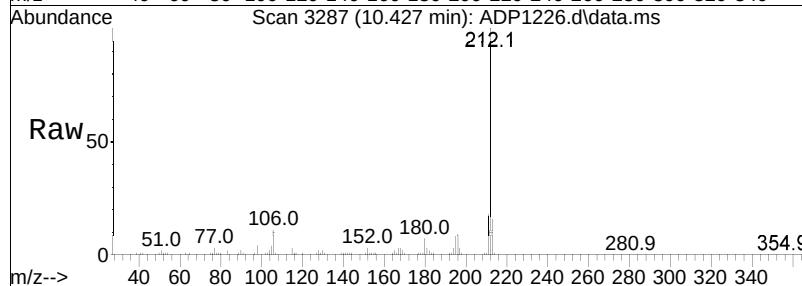
291 39.4 29.8 44.8





#103  
 3,3'-Dimethylbenzidine  
 Concen: 55.57 ug/ml  
 RT: 10.427 min Scan# 3287  
 Delta R.T. -0.006 min  
 Lab File: ADP1226.d  
 Acq: 26 Dec 2019 10:41 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 211     | 18.2  | 13.5  | 20.3  |
| 213     | 15.9  | 13.4  | 20.0  |



# Manual Integration Report

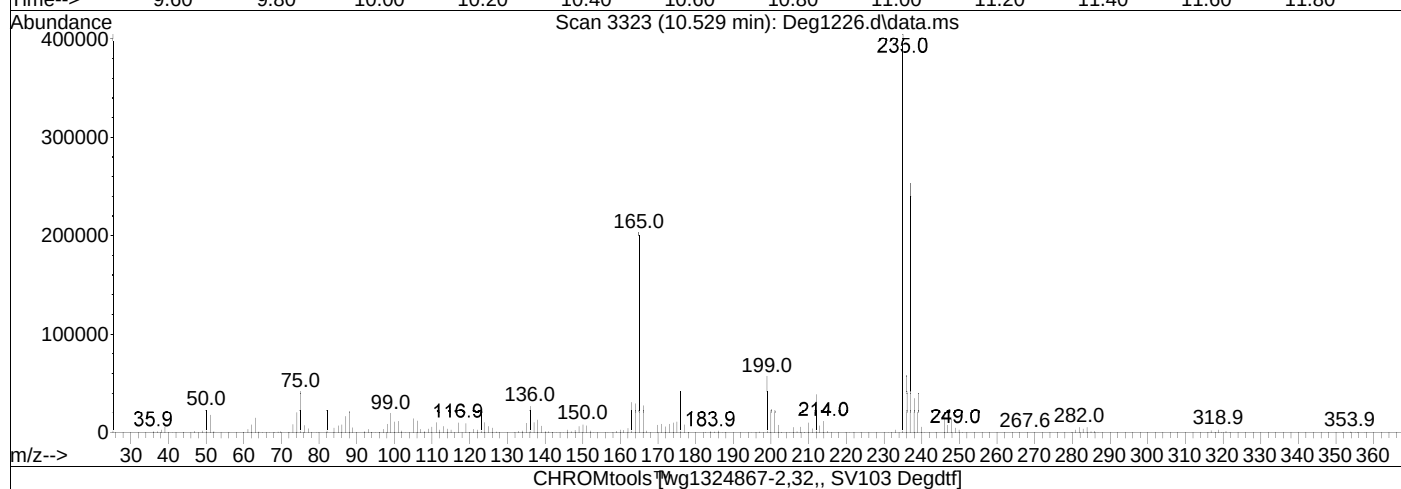
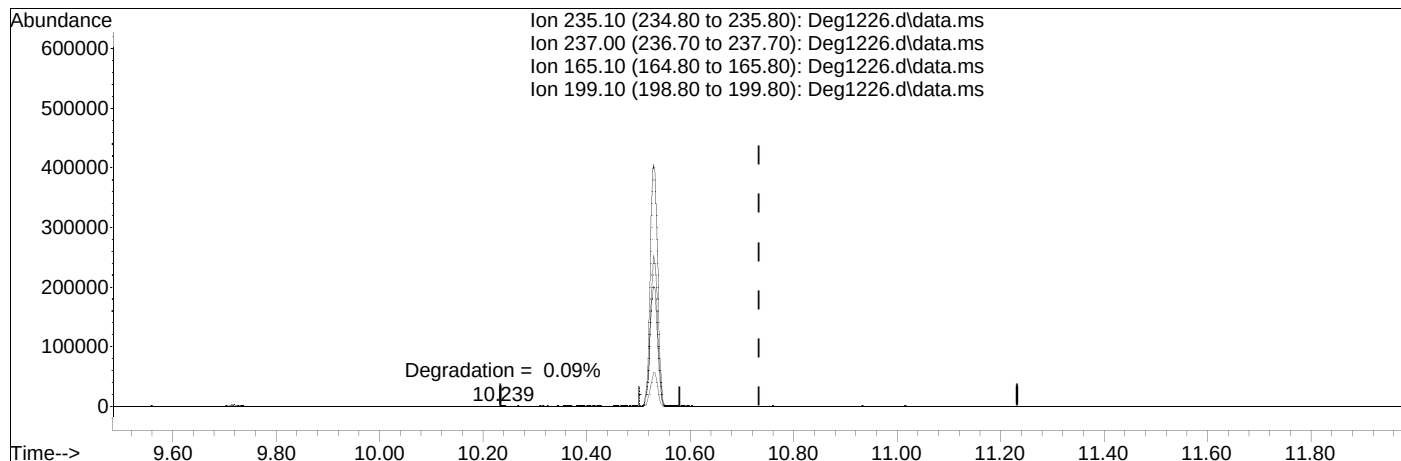
Data Path : I:\8270\SV103\191226\ QMethod : FS191201SV103.m  
Data File : ADP1226.d Operator : SV103:jg  
Date Inj'd : 12/26/2019 10:41 am Instrument : SV103  
Sample : wg1324867-5,32,, ADP CCV LQuant Date : 12/26/2019 11:17 am

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

# Quantitation Report (Qedit)

Data Path : I:\8270\SV103\191226\  
 Data File : Deg1226.d  
 Acq On : 26 Dec 2019 9:23 am  
 Operator : SV103:jg  
 Sample : wg1324867-2,32,, SV103 Degdtf  
 Misc : wg1324867,wg,ical16333  
 ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 26 13:56:08 2019  
 Quant Method : I:\8270\SV103\191226\dftppSV103.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Nov 07 09:14:14 2017  
 Response via : Initial Calibration



(6) ddt (T)

10.529min (-0.204) 0.00 Avg

response 375090

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 235.10 | 100.00 | 100.00 |
| 237.00 | 64.00  | 61.85  |
| 165.10 | 49.00  | 51.11  |

Duplicate Retention Times

(4) DDE 246.00

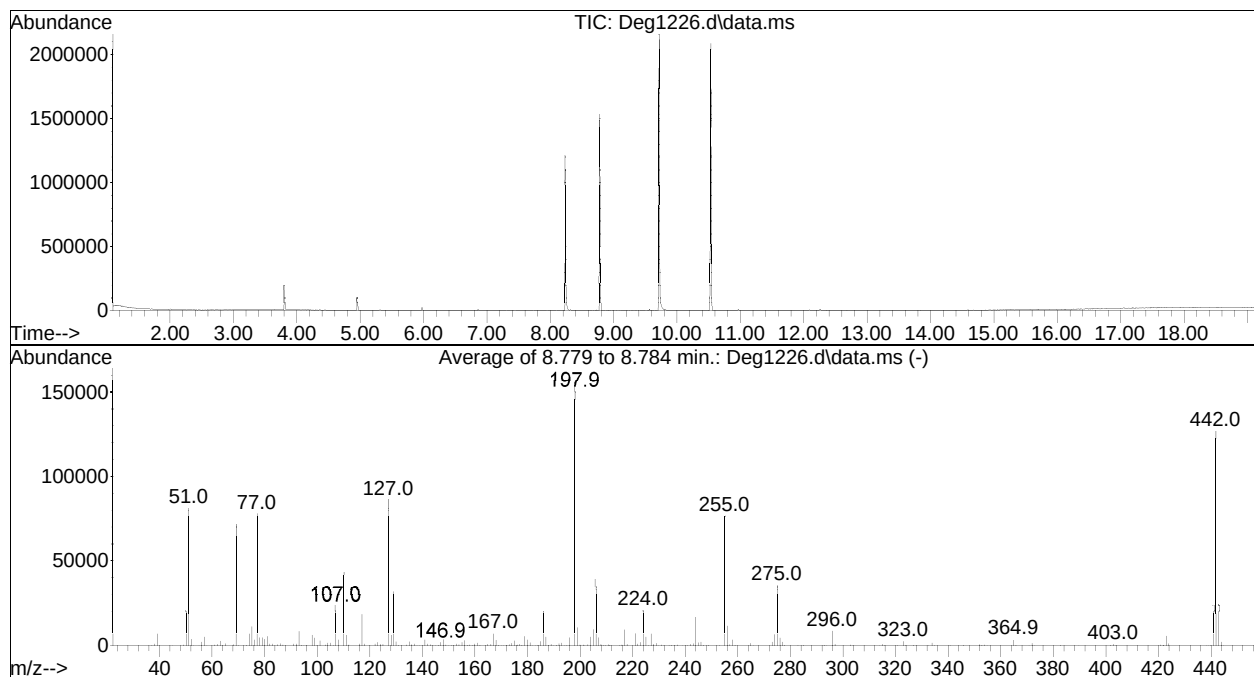
(5) DDD 235.00

## DFTPP

Data Path : I:\8270\SV103\191226\  
 Data File : Deg1226.d  
 Acq On : 26 Dec 2019 9:23 am  
 Operator : SV103:jg  
 Sample : wg1324867-1,32,, SV103 Degdtf  
 Misc : wg1324867,wg,ical16333  
 ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\191226\FS191201SV103.m  
 Title : Semivolatiles by GC/MS by modified 8270  
 Last Update : Thu Dec 26 13:18:11 2019

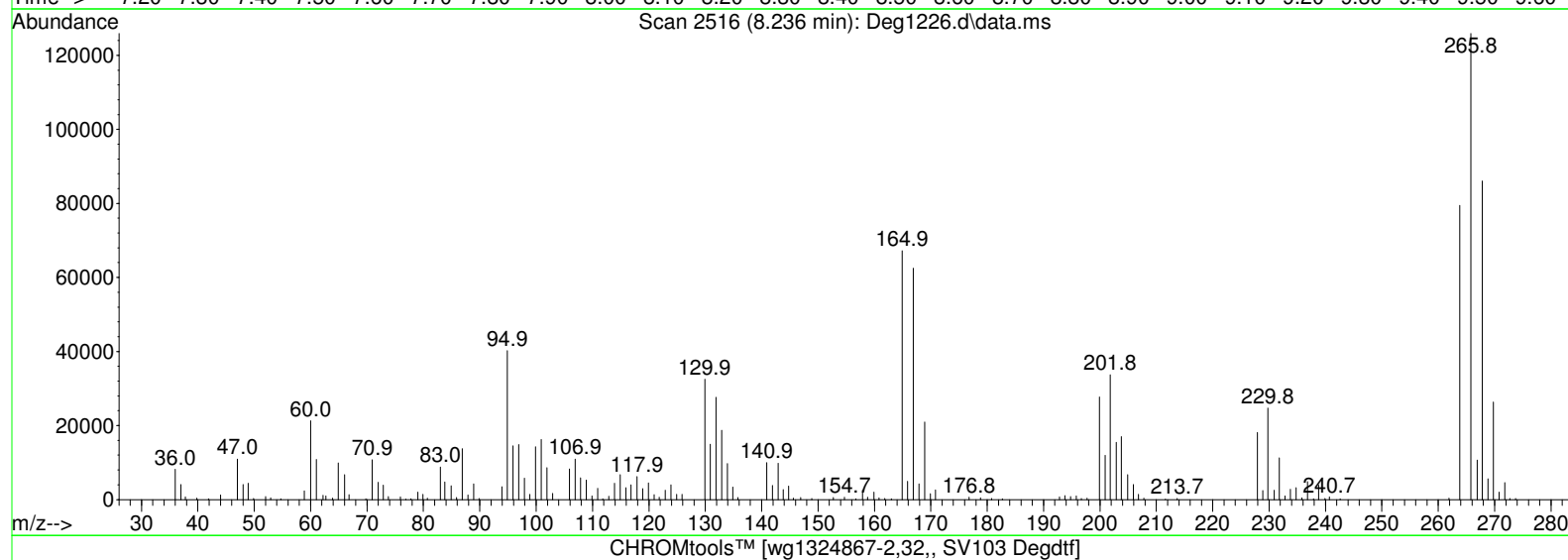
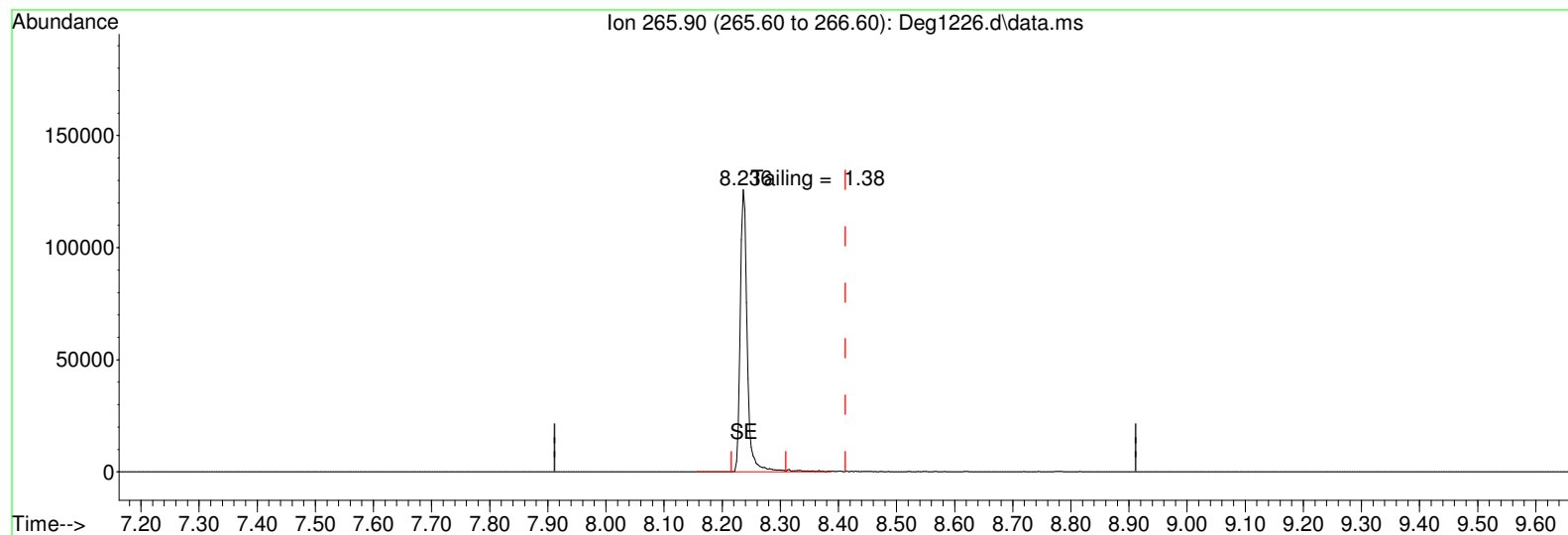


Spectrum Information: Average of 8.779 to 8.784 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 51          | 198          | 10           | 80           | 52.0      | 81200   | PASS             |
| 68          | 69           | 0.00         | 2            | 1.3       | 946     | PASS             |
| 70          | 69           | 0.00         | 2            | 0.5       | 366     | PASS             |
| 127         | 198          | 10           | 80           | 55.3      | 86291   | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 156139  | PASS             |
| 199         | 198          | 5            | 9            | 6.9       | 10767   | PASS             |
| 275         | 198          | 10           | 60           | 22.9      | 35704   | PASS             |
| 365         | 198          | 1            | 100          | 2.2       | 3510    | PASS             |
| 441         | 442          | 0.01         | 24           | 18.4      | 23376   | PASS             |
| 442         | 198          | 50           | 100          | 81.2      | 126736  | PASS             |
| 443         | 442          | 15           | 24           | 19.3      | 24475   | PASS             |

Data Path : I:\8270\SV103\191226\  
Data File : Deg1226.d  
Acq On : 26 Dec 2019 9:23 am  
Operator : SV103:jg  
Sample : wg1324867-2,32,, SV103 Degdtf  
Misc : wg1324867,wg,ical16333  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 26 13:56:08 2019  
Quant Method : I:\8270\SV103\191226\dftppSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



(1) pentachlorophenol (T)

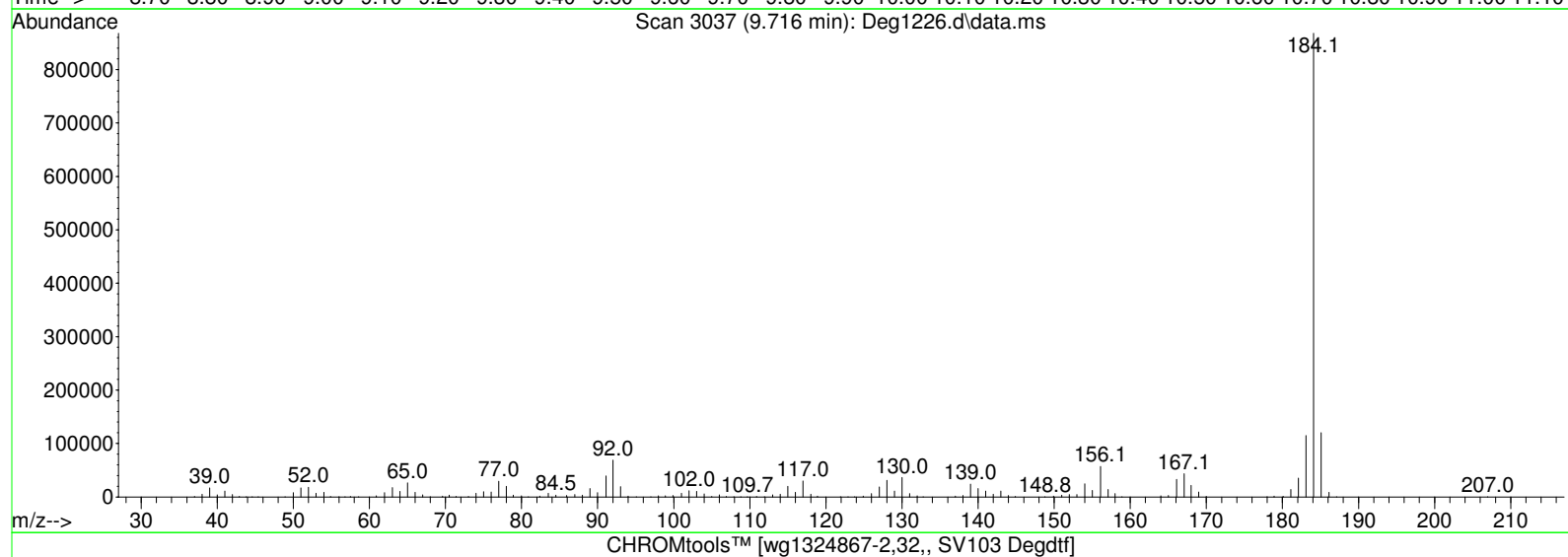
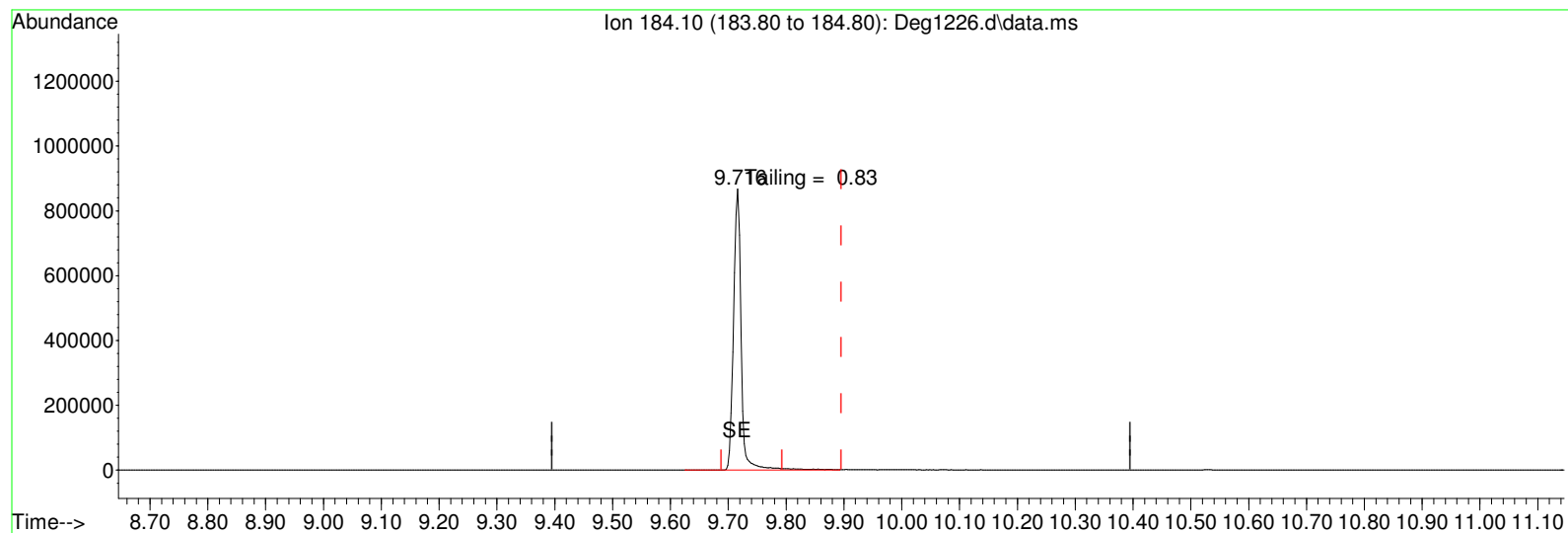
8.236min (-0.176) 0.00 Avg

response 105060

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.90 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |

Data Path : I:\8270\SV103\191226\  
Data File : Deg1226.d  
Acq On : 26 Dec 2019 9:23 am  
Operator : SV103:jg  
Sample : wg1324867-2,32,, SV103 Degdtf  
Misc : wg1324867,wg,ical16333  
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 26 13:56:08 2019  
Quant Method : I:\8270\SV103\191226\dftppSV103.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Nov 07 09:14:14 2017  
Response via : Initial Calibration



CHROMtools™ [wg1324867-2,32,, SV103 Degdtf]

(3) benzidine (T)

9.716min (-0.179) 0.00 Avg

response 782762

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.10 | 100.00 | 100.00 |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |
| 0.00   | 0.00   | 0.00   |



## **Semivolatiles Raw QC Data**

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 24 11:15:16 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------|--------|--------|----------|
| Internal Standards            |                |      |          |        |        |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.984          | 152  | 117263   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 159664      |                |      | Recovery | =      | 73.44% |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.984          | 152  | 117263   | 40.000 | ug/ml  | 0.00     |
| Standard Area 3 = 177213      |                |      | Recovery | =      | 66.17% |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.984          | 152  | 117263   | 40.000 | ug/ml  | 0.00     |
| Standard Area 2 = 166995      |                |      | Recovery | =      | 70.22% |          |
| 35) IS1_Naphthalene-d8        | 5.059          | 136  | 462179   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 632580      |                |      | Recovery | =      | 73.06% |          |
| 55) IS2_Naphthalene-d8        | 5.059          | 136  | 462179   | 40.000 | ug/ml  | 0.00     |
| Standard Area 3 = 704834      |                |      | Recovery | =      | 65.57% |          |
| 63) IS1_Acenaphthene-d10      | 6.564          | 164  | 240778   | 40.000 | ug/ml  | # 0.00   |
| Standard Area 1 = 336073      |                |      | Recovery | =      | 71.64% |          |
| 83) IS2_Acenaphthene-d10      | 6.564          | 164  | 240778   | 40.000 | ug/ml  | # 0.00   |
| Standard Area 3 = 375542      |                |      | Recovery | =      | 64.11% |          |
| 86) IS3_Acenaphthene-d10      | 6.564          | 164  | 240778   | 40.000 | ug/ml  | # 0.00   |
| Standard Area 2 = 358199      |                |      | Recovery | =      | 67.22% |          |
| 88) IS1_Phenanthrene-d10      | 7.833          | 188  | 461068M2 | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 621349      |                |      | Recovery | =      | 74.20% |          |
| 100) IS3_Phenanthrene-d10     | 7.833          | 188  | 461068M2 | 40.000 | ug/ml  | 0.00     |
| Standard Area 2 = 703501      |                |      | Recovery | =      | 65.54% |          |
| 104) IS1_Chrysene-d12         | 10.394         | 240  | 447457   | 40.000 | ug/ml  | -0.01    |
| Standard Area 1 = 640997      |                |      | Recovery | =      | 69.81% |          |
| 113) IS1_Perylene-d12         | 12.486         | 264  | 515994   | 40.000 | ug/ml  | 0.00     |
| Standard Area 1 = 708691      |                |      | Recovery | =      | 72.81% |          |
| System Monitoring Compounds   |                |      |          |        |        |          |
| 4) 2-Fluorophenol             | 2.938          | 112  | 158120   | 41.563 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 83.13% |          |
| 7) Phenol-d6                  | 3.720          | 99   | 195533   | 43.162 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 86.32% |          |
| 19) Nitrobenzene-d5           | 4.454          | 82   | 78276    | 16.302 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 65.21% |          |
| 46) 2-Fluorobiphenyl          | 6.000          | 172  | 170885   | 15.123 | ug/ml  | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery | =      | 60.49% |          |
| 79) 2,4,6-Tribromophenol      | 7.245          | 330  | 64353    | 45.746 | ug/ml  | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery | =      | 91.49% |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 24 11:15:16 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| 96) 4-Terphenyl-d14           | 9.249  | 244   | 208230   | 16.215   | ug/ml | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 64.86%   |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 6) 2-Chlorophenol             | 0.000  |       | 0        |          | N.D.  |          |
| 8) Phenol                     | 0.000  |       | 0        |          | N.D.  |          |
| 9) Bis(2-chloroethyl)ether    | 0.000  |       | 0        |          | N.D.  |          |
| 14) Bis(2-chloroisopropyl)... | 0.000  |       | 0        |          | N.D.  |          |
| 15) 2-Methylphenol            | 0.000  |       | 0        |          | N.D.  |          |
| 16) Hexachloroethane          | 0.000  |       | 0        |          | N.D.  |          |
| 17) n-Nitrosodi-n-propylamine | 0.000  |       | 0        |          | N.D.  |          |
| 18) 3-Methylphenol/4-Methy... | 0.000  |       | 0        |          | N.D.  |          |
| 20) Nitrobenzene              | 0.000  |       | 0        |          | N.D.  |          |
| 21) Isophorone                | 0.000  |       | 0        |          | N.D.  |          |
| 22) 2-Nitrophenol             | 0.000  |       | 0        |          | N.D.  |          |
| 23) 2,4-Dimethylphenol        | 0.000  |       | 0        |          | N.D.  |          |
| 24) Bis(2-chloroethoxy)met... | 0.000  |       | 0        |          | N.D.  |          |
| 25) 2,4-Dichlorophenol        | 0.000  |       | 0        |          | N.D.  |          |
| 28) Benzaldehyde              | 0.000  |       | 0        |          | N.D.  |          |
| 29) Acetophenone              | 0.000  |       | 0        |          | N.D.  |          |
| 36) Naphthalene               | 0.000  |       | 0        |          | N.D.  |          |
| 38) 4-Chloroaniline           | 0.000  |       | 0        |          | N.D.  | d        |
| 39) Hexachlorobutadiene       | 0.000  |       | 0        |          | N.D.  |          |
| 40) p-Chloro-m-cresol         | 0.000  |       | 0        |          | N.D.  |          |
| 41) 2-Methylnaphthalene       | 0.000  |       | 0        |          | N.D.  |          |
| 43) Hexachlorocyclopentadiene | 0.000  |       | 0        |          | N.D.  |          |
| 44) 2,4,6-Trichlorophenol     | 0.000  |       | 0        |          | N.D.  |          |
| 45) 2,4,5-Trichlorophenol     | 0.000  |       | 0        |          | N.D.  |          |
| 47) 2-Chloronaphthalene       | 0.000  |       | 0        |          | N.D.  |          |
| 48) 2-Nitroaniline            | 0.000  |       | 0        |          | N.D.  |          |
| 51) Dimethyl phthalate        | 0.000  |       | 0        |          | N.D.  | d        |
| 52) Acenaphthylene            | 0.000  |       | 0        |          | N.D.  |          |
| 53) 2,6-Dinitrotoluene        | 0.000  |       | 0        |          | N.D.  |          |
| 60) Caprolactam               | 0.000  |       | 0        |          | N.D.  |          |
| 61) 1,2,4,5-Tetrachloroben... | 0.000  |       | 0        |          | N.D.  |          |
| 62) Biphenyl                  | 0.000  |       | 0        |          | N.D.  |          |
| 64) 3-Nitroaniline            | 0.000  |       | 0        |          | N.D.  |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 24 11:15:16 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

|      | Compound                  | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|------|-------|----------|
| 65)  | Acenaphthene              | 0.000 |      | 0        | N.D. | d     |          |
| 66)  | 2,4-Dinitrophenol         | 0.000 |      | 0        | N.D. |       |          |
| 67)  | Dibenzofuran              | 0.000 |      | 0        | N.D. |       |          |
| 68)  | 2,4-Dinitrotoluene        | 0.000 |      | 0        | N.D. |       |          |
| 69)  | 4-Nitrophenol             | 0.000 |      | 0        | N.D. |       |          |
| 71)  | 2,3,4,6-Tetrachlorophenol | 0.000 |      | 0        | N.D. |       |          |
| 72)  | Diethyl phthalate         | 0.000 |      | 0        | N.D. |       |          |
| 73)  | Fluorene                  | 0.000 |      | 0        | N.D. |       |          |
| 74)  | 4-Chlorophenyl phenyl ... | 0.000 |      | 0        | N.D. |       |          |
| 75)  | 4-Nitroaniline            | 0.000 |      | 0        | N.D. |       |          |
| 76)  | 4,6-Dinitro-o-cresol      | 0.000 |      | 0        | N.D. |       |          |
| 77)  | NDPA/DPA                  | 0.000 |      | 0        | N.D. | d     |          |
| 80)  | 4-Bromophenyl phenyl e... | 0.000 |      | 0        | N.D. |       |          |
| 81)  | Hexachlorobenzene         | 0.000 |      | 0        | N.D. |       |          |
| 82)  | Pentachlorophenol         | 0.000 |      | 0        | N.D. |       |          |
| 87)  | Atrazine                  | 0.000 |      | 0        | N.D. |       |          |
| 89)  | Phenanthrene              | 0.000 |      | 0        | N.D. |       |          |
| 90)  | Anthracene                | 0.000 |      | 0        | N.D. |       |          |
| 91)  | Carbazole                 | 0.000 |      | 0        | N.D. |       |          |
| 92)  | Di-n-butylphthalate       | 0.000 |      | 0        | N.D. |       |          |
| 93)  | Fluoranthene              | 0.000 |      | 0        | N.D. |       |          |
| 95)  | Pyrene                    | 0.000 |      | 0        | N.D. |       |          |
| 97)  | Butyl benzyl phthalate    | 0.000 |      | 0        | N.D. |       |          |
| 105) | Benzo(a)anthracene        | 0.000 |      | 0        | N.D. | d     |          |
| 106) | 3,3'-Dichlorobenzidine    | 0.000 |      | 0        | N.D. |       |          |
| 107) | Chrysene                  | 0.000 |      | 0        | N.D. | d     |          |
| 108) | Bis(2-ethylhexyl)phtha... | 0.000 |      | 0        | N.D. | d     |          |
| 109) | Di-n-octylphthalate       | 0.000 |      | 0        | N.D. | d     |          |
| 110) | Benzo(b)fluoranthene      | 0.000 |      | 0        | N.D. |       |          |
| 111) | Benzo(k)fluoranthene      | 0.000 |      | 0        | N.D. |       |          |
| 112) | Benzo(a)pyrene            | 0.000 |      | 0        | N.D. | d     |          |
| 114) | Indeno(1,2,3-cd)pyrene    | 0.000 |      | 0        | N.D. |       |          |
| 115) | Dibenzo(a,h)anthracene    | 0.000 |      | 0        | N.D. |       |          |
| 116) | Benzo(ghi)perylene        | 0.000 |      | 0        | N.D. |       |          |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 24 11:15:16 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

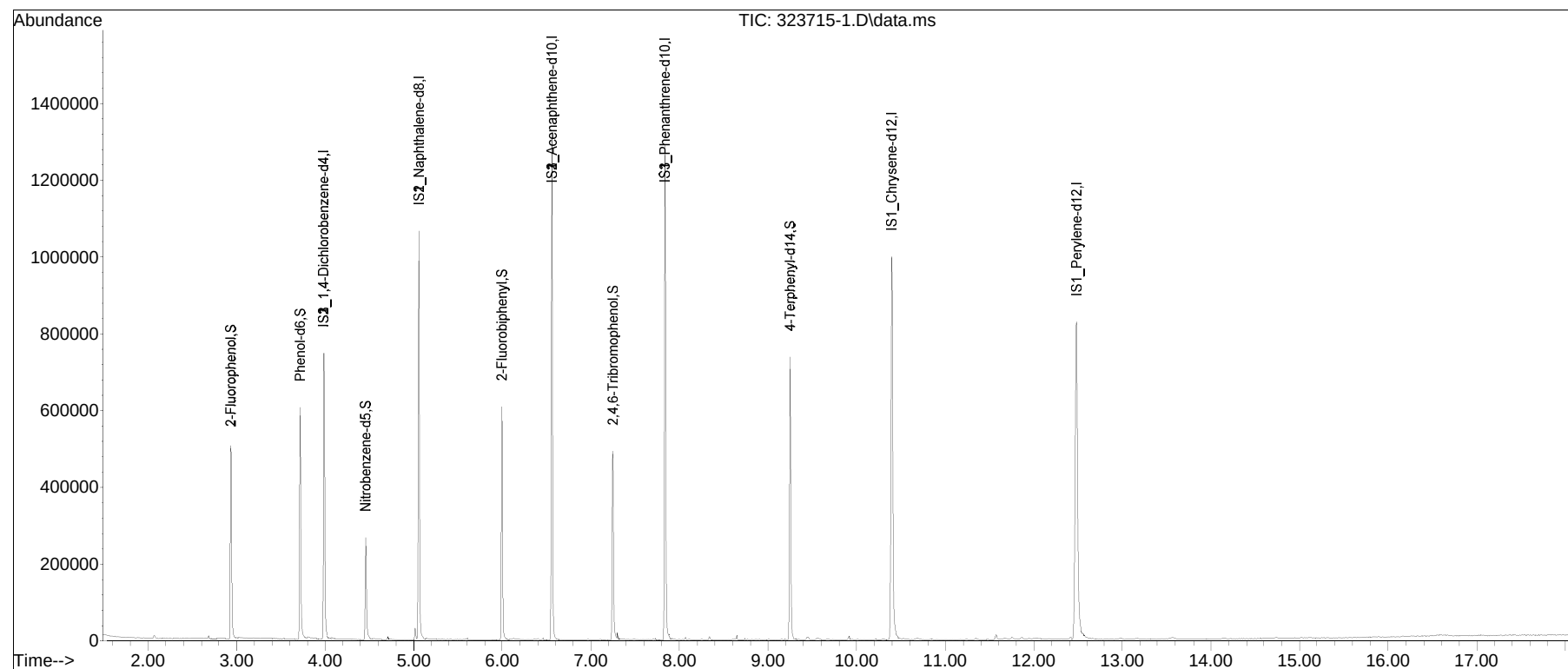
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 24 11:15:16 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

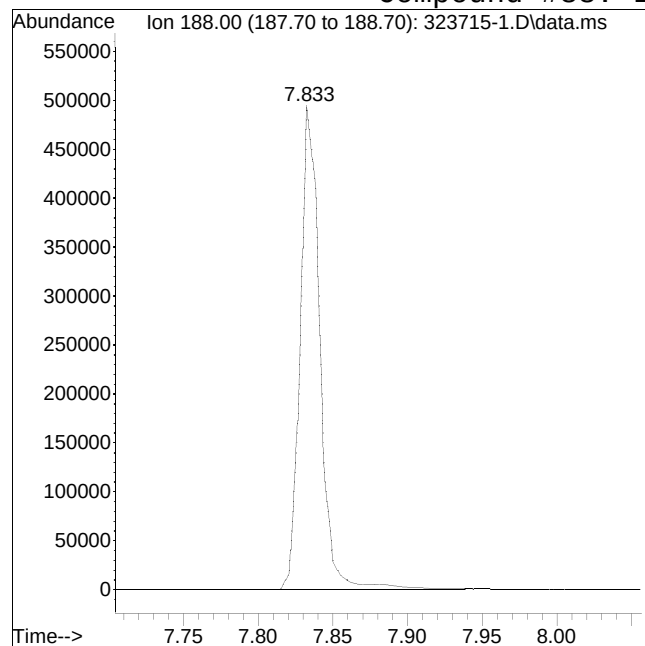
Sub List : 8270TCL\_REV2 - TCL/CT/MAN\AP91223n.D•



# Manual Integration Report

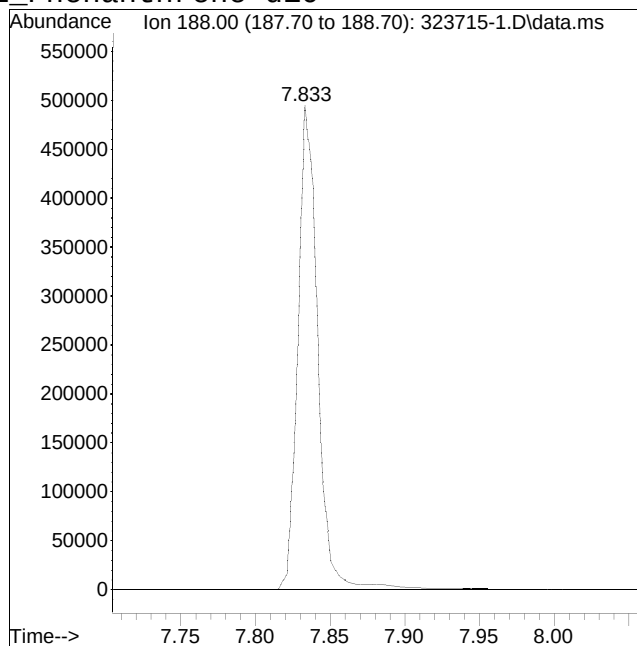
Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-1.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 12:41 am Instrument : Buffy  
Sample : wg1323715-1, 32,, ny, ask Quant Date : 12/24/2019 10:35 am

## Compound #88: IS1\_Phenanthrene-d10



Original Peak Response = 459543

M2 = Peak not found by automatic integration algorithm.

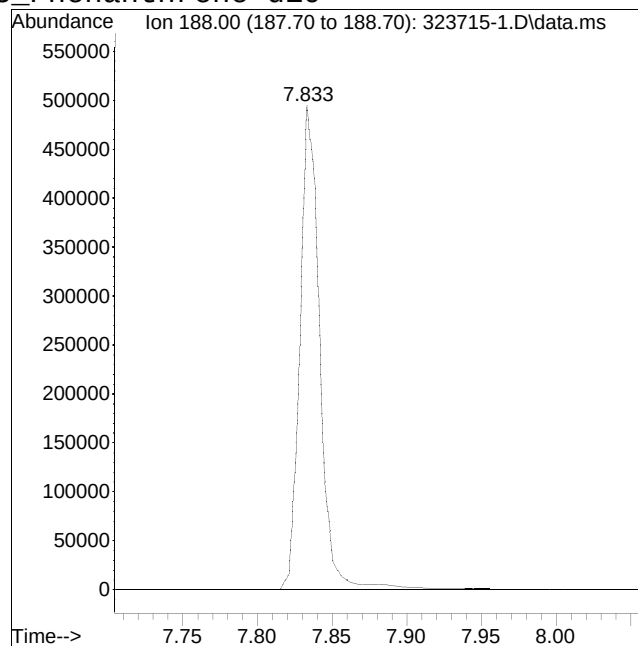
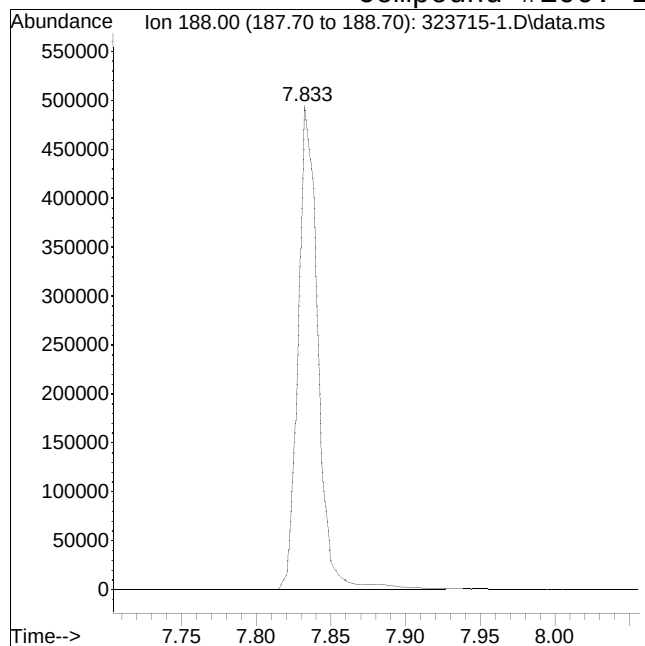


Manual Peak Response = 461068 M2

# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-1.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 12:41 am Instrument : Buffy  
Sample : wg1323715-1,32,,ny,ask Quant Date : 12/24/2019 10:35 am

## Compound #100: IS3 Phenanthrene-d10



Original Peak Response = 458593

Manual Peak Response = 461068 M2

M2 = Peak not found by automatic integration algorithm.



# LSC Area Percent Report

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 500 Area counts

Max Peaks: 100

Peak Location: TOP

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

Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 323715-1.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.933       | 244           | 247         | 261          | rBV      | 503395         | 510507        | 32.55%          | 5.224%        |
| 2         | 3.720       | 377           | 381         | 394          | rBV      | 603091         | 549172        | 35.01%          | 5.619%        |
| 3         | 3.984       | 423           | 426         | 435          | rBV      | 745862         | 684008        | 43.61%          | 6.999%        |
| 4         | 4.454       | 503           | 506         | 520          | rBV      | 265881         | 238434        | 15.20%          | 2.440%        |
| 5         | 5.018       | 599           | 602         | 605          | rBV      | 31397          | 25101         | 1.60%           | 0.257%        |
| 6         | 5.059       | 605           | 609         | 619          | rVV      | 1064040        | 903288        | 57.59%          | 9.243%        |
| 7         | 6.000       | 765           | 769         | 783          | rBV      | 608102         | 509892        | 32.51%          | 5.217%        |
| 8         | 6.564       | 861           | 865         | 880          | rBV      | 1324496        | 1104081       | 70.39%          | 11.297%       |
| 9         | 7.245       | 977           | 981         | 988          | rBV      | 491486         | 486988        | 31.05%          | 4.983%        |
| 10        | 7.833       | 1078          | 1081        | 1088         | rBV      | 1289356        | 1152039       | 73.45%          | 11.788%       |
| 11        | 9.249       | 1318          | 1322        | 1330         | rBV      | 736236         | 677628        | 43.20%          | 6.934%        |
| 12        | 10.394      | 1512          | 1517        | 1533         | rBV      | 997154         | 1342329       | 85.58%          | 13.735%       |
| 13        | 11.564      | 1711          | 1716        | 1723         | rBV6     | 12205          | 21108         | 1.35%           | 0.216%        |
| 14        | 12.486      | 1865          | 1873        | 1896         | rBV      | 826969         | 1568421       | 100.00%         | 16.049%       |

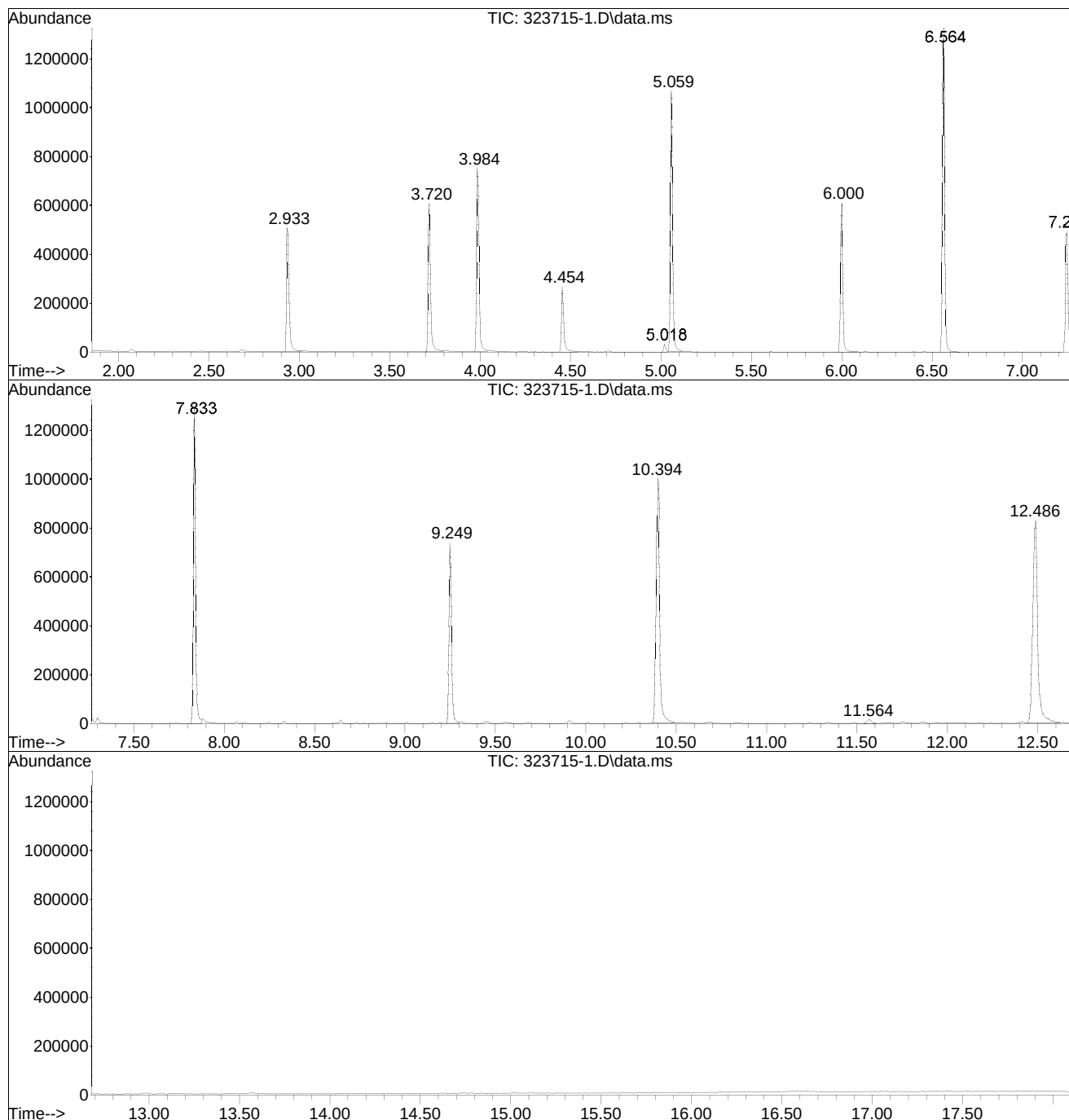
Sum of corrected areas: 9772996

# LSC Report - Integrated Chromatogram

Data Path : I:\8270\Buffy\191223n\  
Data File : 323715-1.D  
Acq On : 24 Dec 2019 12:41 am  
Operator : Buffy:yg  
Sample : wg1323715-1,32,,ny,ask  
Misc : wg1324233,wg1323715,ical16199  
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: lscint.p



# Library Search Compound Report

Data Path : I:\8270\Buffy\191223n\  
Data File : 323715-1.D  
Acq On : 24 Dec 2019 12:41 am  
Operator : Buffy:jg  
Sample : wg1323715-1,32,,ny,ask  
Misc : wg1324233,wg1323715,ical16199  
ALS Vial : 1 Sample Multiplier: 1  
  
Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
  
TIC Library : I:\nist-db\NIST02.L  
TIC Integration Parameters: lscint.p

No Library Search Compounds Detected

\*\*\*\*\*

# Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-1.D  
 Acq On : 24 Dec 2019 12:41 am  
 Operator : Buffy:jg  
 Sample : wg1323715-1,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L  
 TIC Integration Parameters: lscint.p

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-2.D  
 Acq On : 24 Dec 2019 1:04 am  
 Operator : Buffy:jg  
 Sample : wg1323715-2,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 10:55:33 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response   | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|-------|----------|
| Internal Standards            |                |      |            |        |       |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.990          | 152  | 121147M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 159664      |                |      | Recovery = | 75.88% |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.990          | 152  | 121147M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 177213      |                |      | Recovery = | 68.36% |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.990          | 152  | 121147M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 166995      |                |      | Recovery = | 72.55% |       |          |
| 35) IS1_Naphthalene-d8        | 5.059          | 136  | 497558     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 632580      |                |      | Recovery = | 78.66% |       |          |
| 55) IS2_Naphthalene-d8        | 5.059          | 136  | 497558     | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 704834      |                |      | Recovery = | 70.59% |       |          |
| 63) IS1_Acenaphthene-d10      | 6.563          | 164  | 266407     | 40.000 | ug/ml | # 0.00   |
| Standard Area 1 = 336073      |                |      | Recovery = | 79.27% |       |          |
| 83) IS2_Acenaphthene-d10      | 6.563          | 164  | 266407     | 40.000 | ug/ml | # 0.00   |
| Standard Area 3 = 375542      |                |      | Recovery = | 70.94% |       |          |
| 86) IS3_Acenaphthene-d10      | 6.563          | 164  | 266407     | 40.000 | ug/ml | # 0.00   |
| Standard Area 2 = 358199      |                |      | Recovery = | 74.37% |       |          |
| 88) IS1_Phenanthrene-d10      | 7.838          | 188  | 502202M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 621349      |                |      | Recovery = | 80.82% |       |          |
| 100) IS3_Phenanthrene-d10     | 7.838          | 188  | 502202M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 703501      |                |      | Recovery = | 71.39% |       |          |
| 104) IS1_Chrysene-d12         | 10.400         | 240  | 495888     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 640997      |                |      | Recovery = | 77.36% |       |          |
| 113) IS1_Perylene-d12         | 12.486         | 264  | 535057     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 708691      |                |      | Recovery = | 75.50% |       |          |
| System Monitoring Compounds   |                |      |            |        |       |          |
| 4) 2-Fluorophenol             | 2.938          | 112  | 153090     | 38.951 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 77.90% |       |          |
| 7) Phenol-d6                  | 3.720          | 99   | 195819     | 41.839 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 83.68% |       |          |
| 19) Nitrobenzene-d5           | 4.454          | 82   | 76962      | 15.517 | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 62.07% |       |          |
| 46) 2-Fluorobiphenyl          | 5.999          | 172  | 171036     | 14.060 | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 56.24% |       |          |
| 79) 2,4,6-Tribromophenol      | 7.245          | 330  | 64023      | 41.133 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 82.27% |       |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-2.D  
 Acq On : 24 Dec 2019 1:04 am  
 Operator : Buffy:jg  
 Sample : wg1323715-2,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 10:55:33 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| 96) 4-Terphenyl-d14           | 9.249  | 244   | 193279   | 13.818   | ug/ml  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 55.27%   |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 6) 2-Chlorophenol             | 3.820  | 128   | 139708   | 32.261   | ug/ml  | 97       |
| 8) Phenol                     | 3.731  | 94    | 174012   | 32.203   | ug/ml  | 96       |
| 9) Bis(2-chloroethyl)ether    | 3.784  | 93    | 104850   | 27.626   | ug/ml# | 85       |
| 14) Bis(2-chloroisopropyl)... | 4.237  | 45    | 200231   | 38.559   | ug/ml# | 79       |
| 15) 2-Methylphenol            | 4.231  | 108   | 127115   | 33.365   | ug/ml  | 99       |
| 16) Hexachloroethane          | 4.407  | 117   | 59512    | 31.196   | ug/ml# | 78       |
| 17) n-Nitrosodi-n-propylamine | 4.342  | 70    | 84795    | 31.606   | ug/ml  | 98       |
| 18) 3-Methylphenol/4-Methy... | 4.366  | 108   | 132355   | 32.974   | ug/ml  | 99       |
| 20) Nitrobenzene              | 4.472  | 77    | 124224   | 30.871   | ug/ml  | 94       |
| 21) Isophorone                | 4.677  | 82    | 240002   | 32.101   | ug/ml  | 99       |
| 22) 2-Nitrophenol             | 4.742  | 139   | 76034    | 36.897   | ug/ml  | 91       |
| 23) 2,4-Dimethylphenol        | 4.807  | 107   | 128694   | 32.254   | ug/ml  | 96       |
| 24) Bis(2-chloroethoxy)met... | 4.877  | 93    | 154512   | 30.692   | ug/ml# | 95       |
| 25) 2,4-Dichlorophenol        | 4.954  | 162   | 117506   | 32.490   | ug/ml# | 93       |
| 28) Benzaldehyde              | 3.626  | 105   | 89768    | 24.362   | ug/ml  | 92       |
| 29) Acetophenone              | 4.331  | 105   | 183766   | 31.352   | ug/ml# | 89       |
| 36) Naphthalene               | 5.077  | 128   | 410207   | 30.304   | ug/ml  | 99       |
| 38) 4-Chloroaniline           | 5.136  | 65    | 33658M3  | 23.948   | ug/ml  |          |
| 39) Hexachlorobutadiene       | 5.200  | 225   | 56948    | 26.191   | ug/ml  | 98       |
| 40) p-Chloro-m-cresol         | 5.582  | 107   | 119389   | 33.516   | ug/ml  | 92       |
| 41) 2-Methylnaphthalene       | 5.670  | 142   | 289858   | 32.351   | ug/ml  | 96       |
| 43) Hexachlorocyclopentadiene | 5.817  | 237   | 52335    | 19.166   | ug/ml  | 98       |
| 44) 2,4,6-Trichlorophenol     | 5.929  | 196   | 71548    | 27.132   | ug/ml  | 99       |
| 45) 2,4,5-Trichlorophenol     | 5.964  | 196   | 85540    | 30.728   | ug/ml  | 99       |
| 47) 2-Chloronaphthalene       | 6.088  | 162   | 256533   | 30.077   | ug/ml  | 99       |
| 48) 2-Nitroaniline            | 6.187  | 138   | 95527    | 34.073   | ug/ml  | 87       |
| 51) Dimethyl phthalate        | 6.358  | 163   | 296639   | 29.566   | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.440  | 152   | 425750   | 30.609   | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 6.405  | 165   | 65922    | 31.396   | ug/ml  | 86       |
| 60) Caprolactam               | 5.418  | 55    | 63571    | 35.626   | ug/ml# | 71       |
| 61) 1,2,4,5-Tetrachloroben... | 5.823  | 216   | 108714   | 27.218   | ug/ml  | 99       |
| 62) Biphenyl                  | 6.082  | 154   | 328140   | 30.211   | ug/ml  | 100      |
| 64) 3-Nitroaniline            | 6.540  | 138   | 67959    | 27.944   | ug/ml# | 82       |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-2.D  
 Acq On : 24 Dec 2019 1:04 am  
 Operator : Buffy:jg  
 Sample : wg1323715-2,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 10:55:33 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 65)  | Acenaphthene              | 6.593  | 154  | 248441   | 30.564 | ug/ml  | 94       |
| 66)  | 2,4-Dinitrophenol         | 6.640  | 184  | 6973     | 9.017  | ug/ml  | 96       |
| 67)  | Dibenzofuran              | 6.740  | 168  | 376658   | 30.875 | ug/ml# | 80       |
| 68)  | 2,4-Dinitrotoluene        | 6.751  | 165  | 92191    | 34.539 | ug/ml  | 85       |
| 69)  | 4-Nitrophenol             | 6.722  | 65   | 55262    | 34.205 | ug/ml# | 1        |
| 71)  | 2,3,4,6-Tetrachlorophenol | 6.863  | 232  | 66136    | 27.828 | ug/ml  | 97       |
| 72)  | Diethyl phthalate         | 6.969  | 149  | 314963   | 30.905 | ug/ml  | 99       |
| 73)  | Fluorene                  | 7.034  | 166  | 302556   | 30.872 | ug/ml  | 92       |
| 74)  | 4-Chlorophenyl phenyl ... | 7.045  | 204  | 126937   | 28.334 | ug/ml  | 92       |
| 75)  | 4-Nitroaniline            | 7.069  | 138  | 78969    | 28.574 | ug/ml  | 93       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.104  | 198  | 42475    | 27.005 | ug/ml  | 91       |
| 77)  | NDPA/DPA                  | 7.151  | 169  | 255809   | 30.203 | ug/ml  | 98       |
| 80)  | 4-Bromophenyl phenyl e... | 7.468  | 248  | 78335    | 28.761 | ug/ml  | 92       |
| 81)  | Hexachlorobenzene         | 7.515  | 284  | 97724    | 29.873 | ug/ml  | 90       |
| 82)  | Pentachlorophenol         | 7.692  | 266  | 39140    | 20.117 | ug/ml  | 97       |
| 87)  | Atrazine                  | 7.627  | 200  | 64196    | 26.797 | ug/ml  | 92       |
| 89)  | Phenanthrene              | 7.856  | 178  | 431908   | 29.417 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.897  | 178  | 457234   | 31.087 | ug/ml  | 99       |
| 91)  | Carbazole                 | 8.050  | 167  | 427230   | 30.478 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.385  | 149  | 550947   | 32.323 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 8.878  | 202  | 476780   | 29.356 | ug/ml# | 91       |
| 95)  | Pyrene                    | 9.078  | 202  | 490777   | 28.569 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.783  | 149  | 251254   | 32.153 | ug/ml# | 83       |
| 105) | Benzo(a)anthracene        | 10.388 | 228  | 448465   | 27.420 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 10.388 | 252  | 145879   | 22.713 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.435 | 228  | 457478   | 28.113 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.541 | 149  | 374036   | 31.778 | ug/ml# | 94       |
| 109) | Di-n-octylphthalate       | 11.493 | 149  | 652481   | 31.401 | ug/ml  | 99       |
| 110) | Benzo(b)fluoranthene      | 11.910 | 252  | 467615   | 27.310 | ug/ml# | 93       |
| 111) | Benzo(k)fluoranthene      | 11.945 | 252  | 500164   | 29.450 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 12.392 | 252  | 442387   | 26.773 | ug/ml# | 94       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.149 | 276  | 444852   | 30.050 | ug/mL# | 92       |
| 115) | Dibenzo(a,h)anthracene    | 14.202 | 278  | 465609   | 31.361 | ug/ml# | 94       |
| 116) | Benzo(ghi)perylene        | 14.537 | 276  | 499649   | 32.222 | ug/ml# | 77       |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-2.D  
 Acq On : 24 Dec 2019 1:04 am  
 Operator : Buffy:jg  
 Sample : wg1323715-2,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 10:55:33 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

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

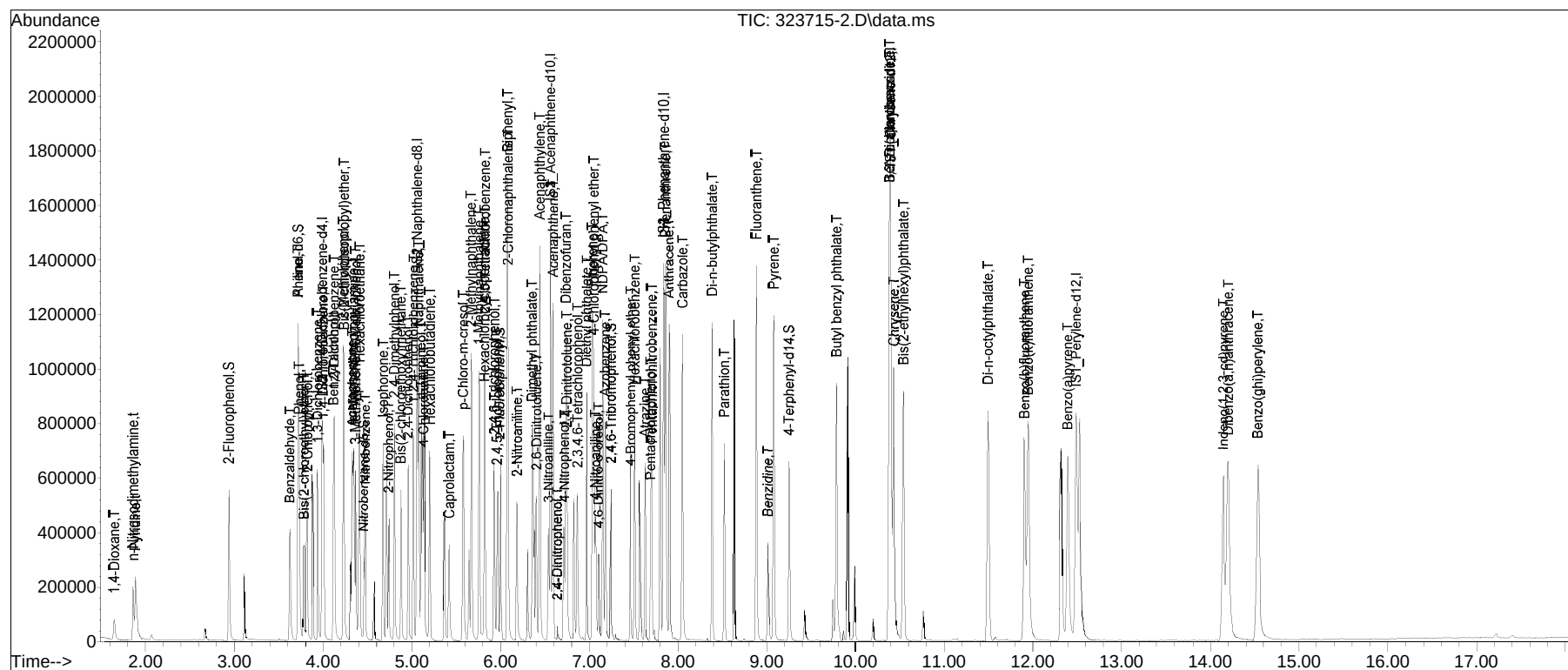


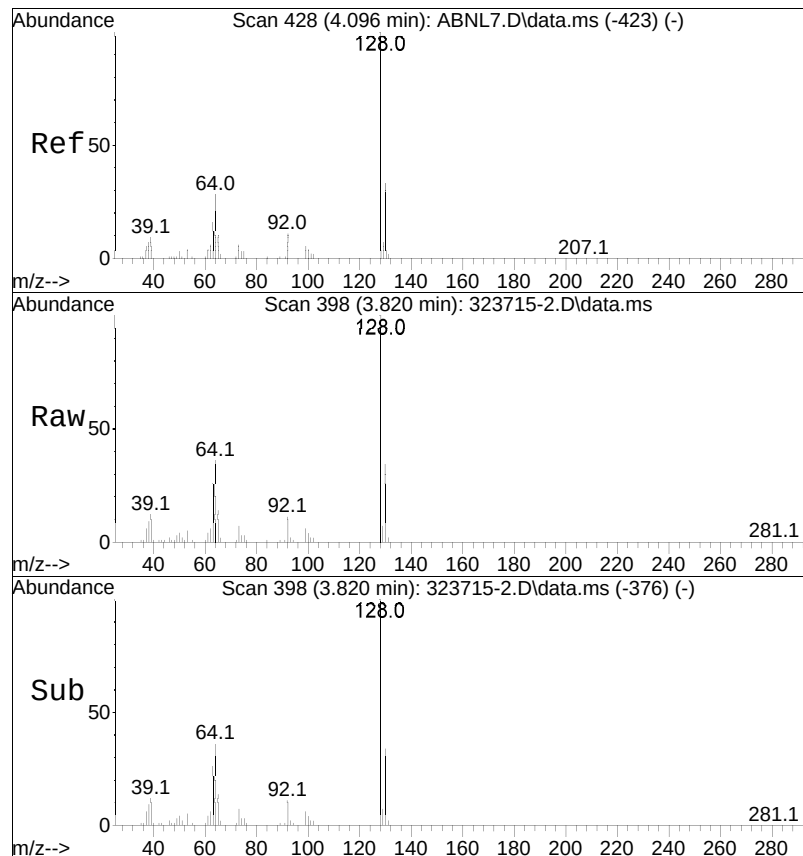
# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-2.D  
 Acq On : 24 Dec 2019 1:04 am  
 Operator : Buffy:yg  
 Sample : wg1323715-2,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 10:55:33 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

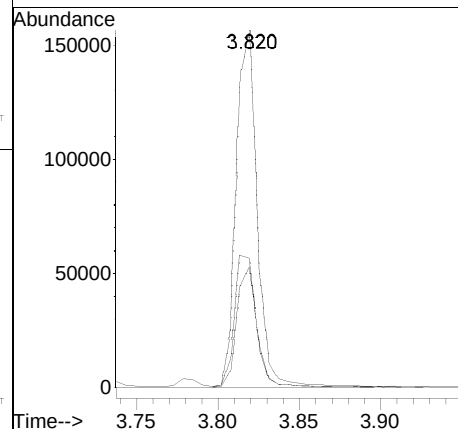
Sub List : 8270TCL\_REV2 - TCL/CT/MAN\AP91223n.D•

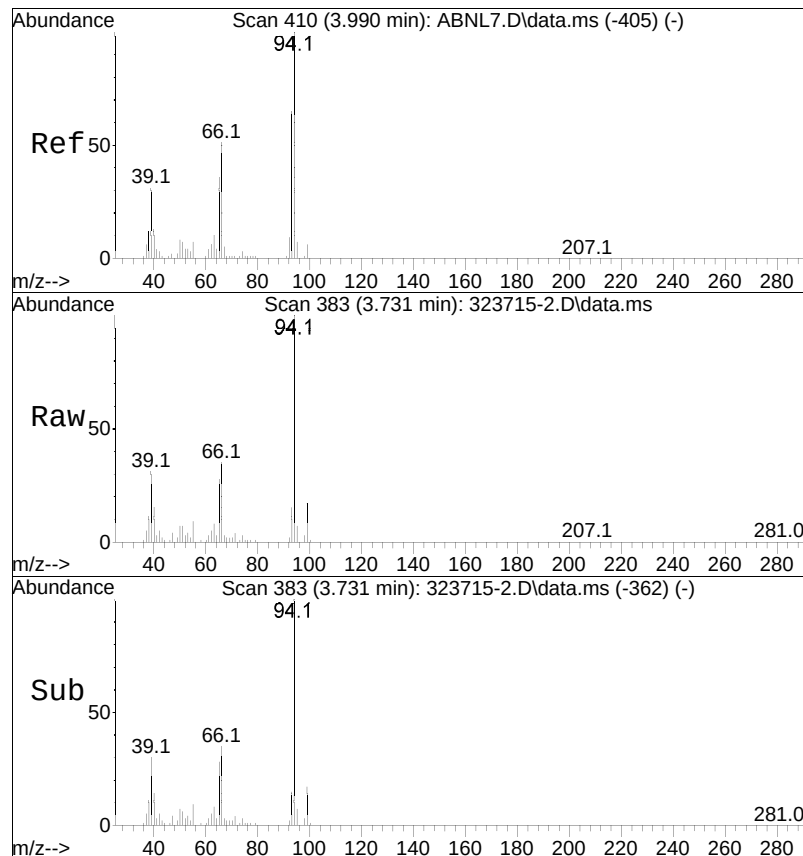




#6  
 2-Chlorophenol  
 Concen: 32.26 ug/ml  
 RT: 3.820 min Scan# 398  
 Delta R.T. 0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

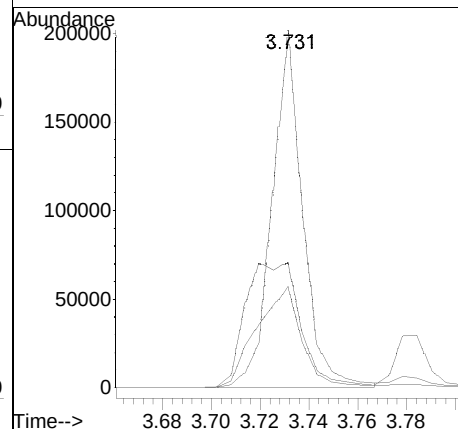
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 139708 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 64  | 38.2    | 32.7  | 49.1   |
| 130 | 33.3    | 26.4  | 39.6   |

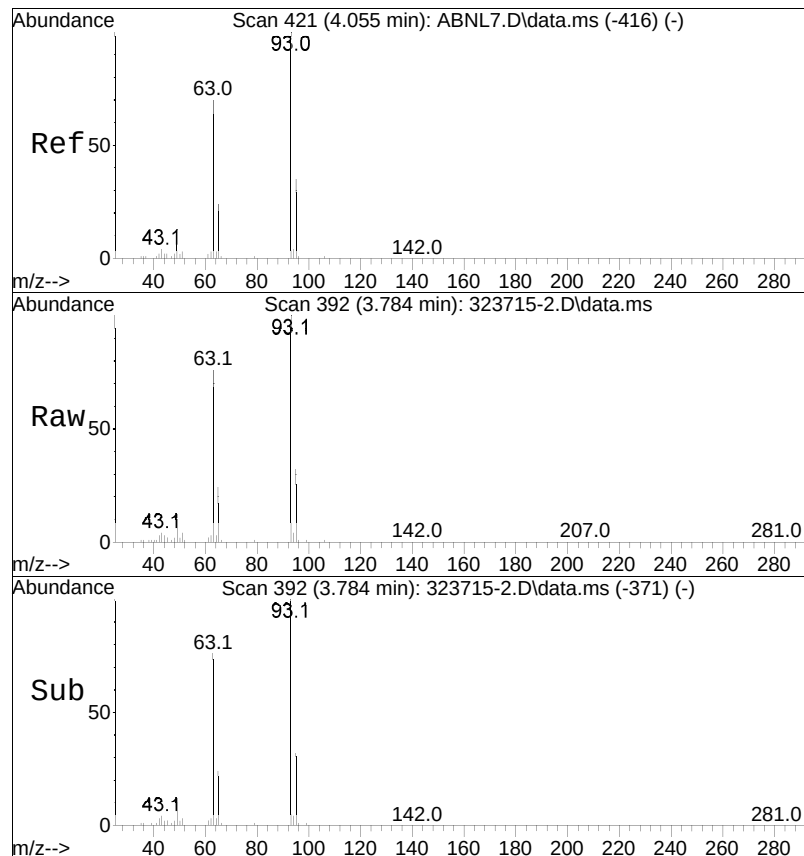




#8  
 Phenol  
 Concen: 32.20 ug/ml  
 RT: 3.731 min Scan# 383  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

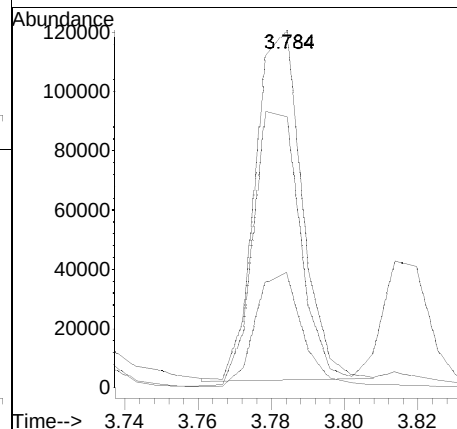
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 94  | 100  |       |       |       |
| 65  | 41.6 | 34.2  | 51.4  |       |
| 66  | 63.3 | 54.4  | 81.6  |       |

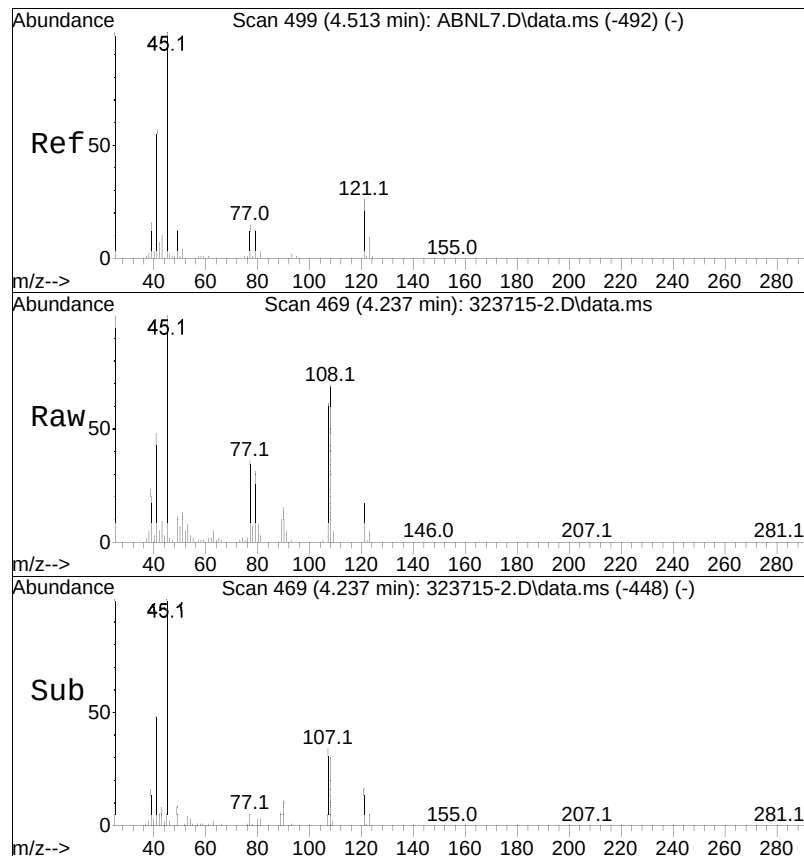




#9  
 Bis(2-chloroethyl)ether  
 Concen: 27.63 ug/ml  
 RT: 3.784 min Scan# 392  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

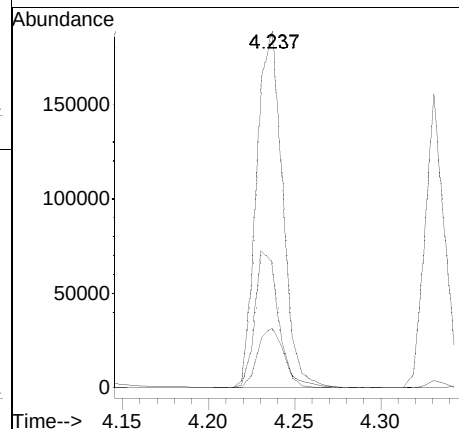
| Tgt Ion:  | 93    | Resp: | 104850 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 81.2  | 51.7  | 77.5#  |
| 95        | 33.6  | 26.1  | 39.1   |

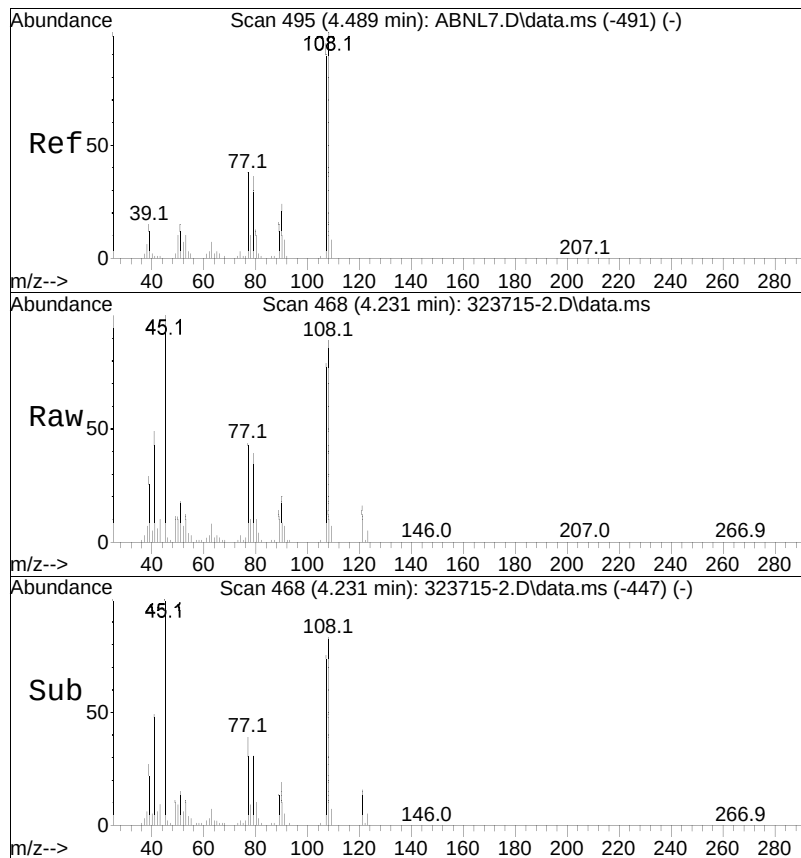




#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 38.56 ug/ml  
 RT: 4.237 min Scan# 469  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

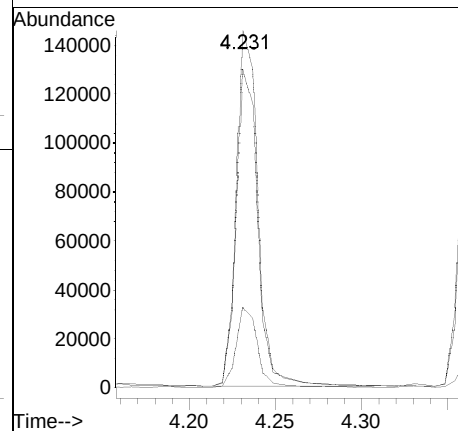
|     |         |              |
|-----|---------|--------------|
| Tgt | Ion: 45 | Resp: 200231 |
| Ion | Ratio   | Lower Upper  |
| 45  | 100     |              |
| 121 | 16.8    | 21.0 31.6#   |
| 77  | 34.6    | 40.4 60.6#   |

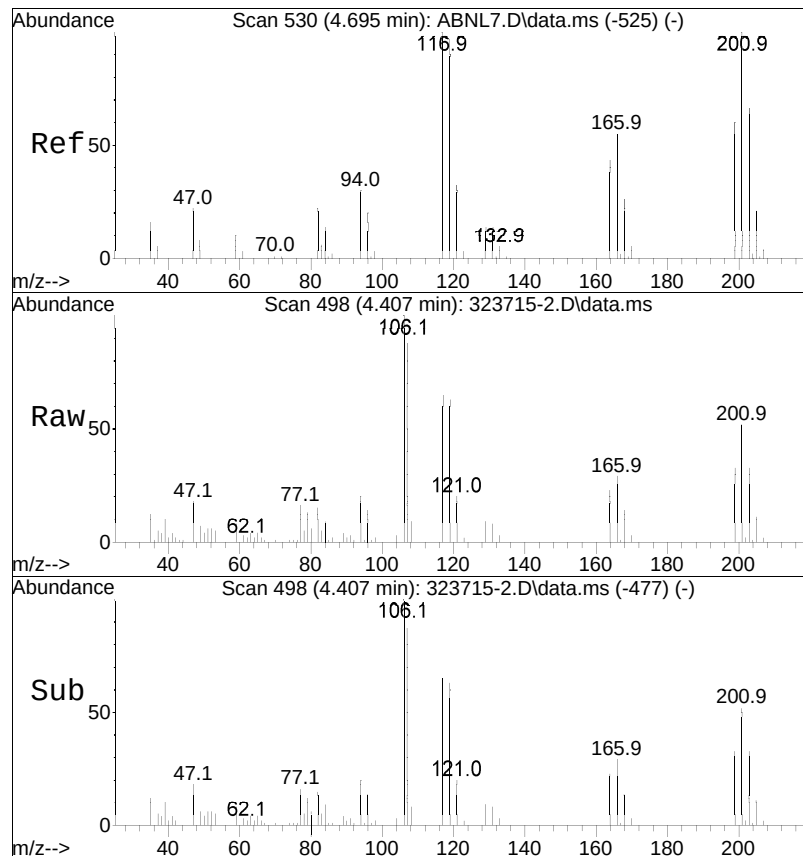




#15  
 2-Methylphenol  
 Concen: 33.37 ug/ml  
 RT: 4.231 min Scan# 468  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

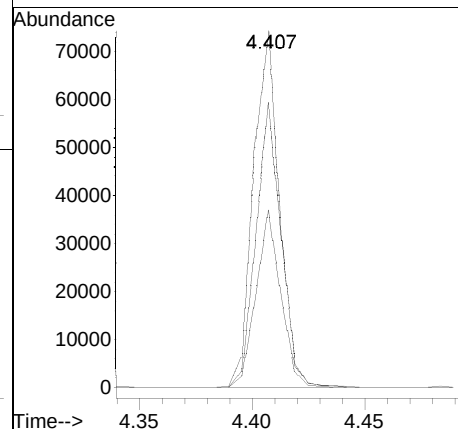
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 127115 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 89.5  | 71.6  | 107.4  |
| 90        | 22.3  | 18.8  | 28.2   |

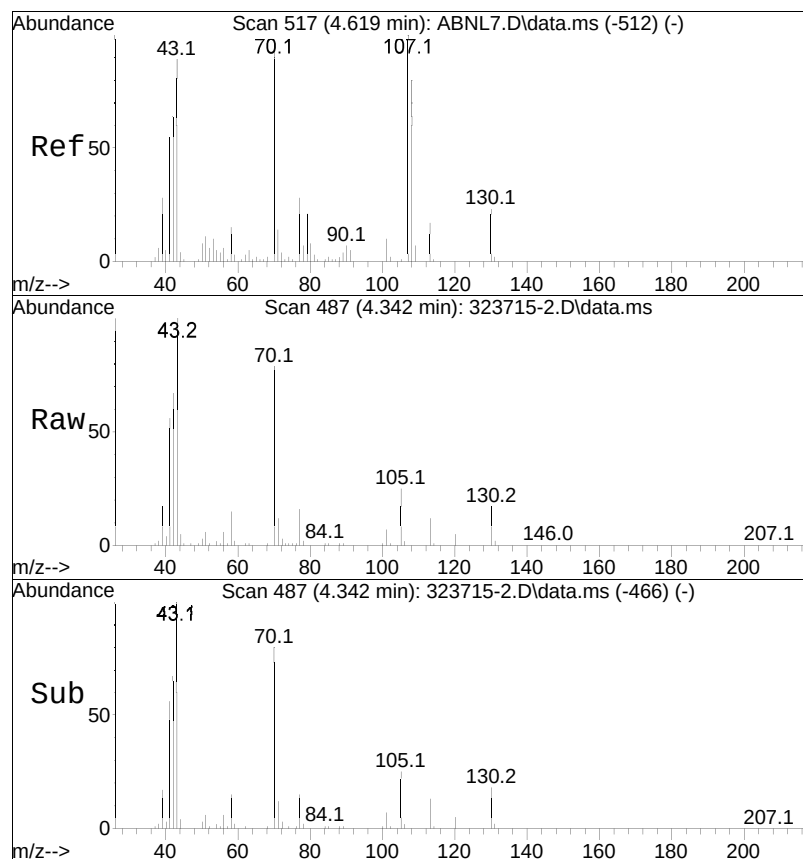




#16  
 Hexachloroethane  
 Concen: 31.20 ug/ml  
 RT: 4.407 min Scan# 498  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

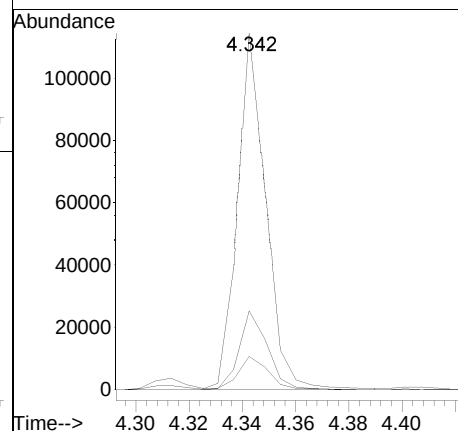
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 59512 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 77.2  | 47.2  | 70.8# |
| 199       | 47.5  | 29.8  | 44.6# |



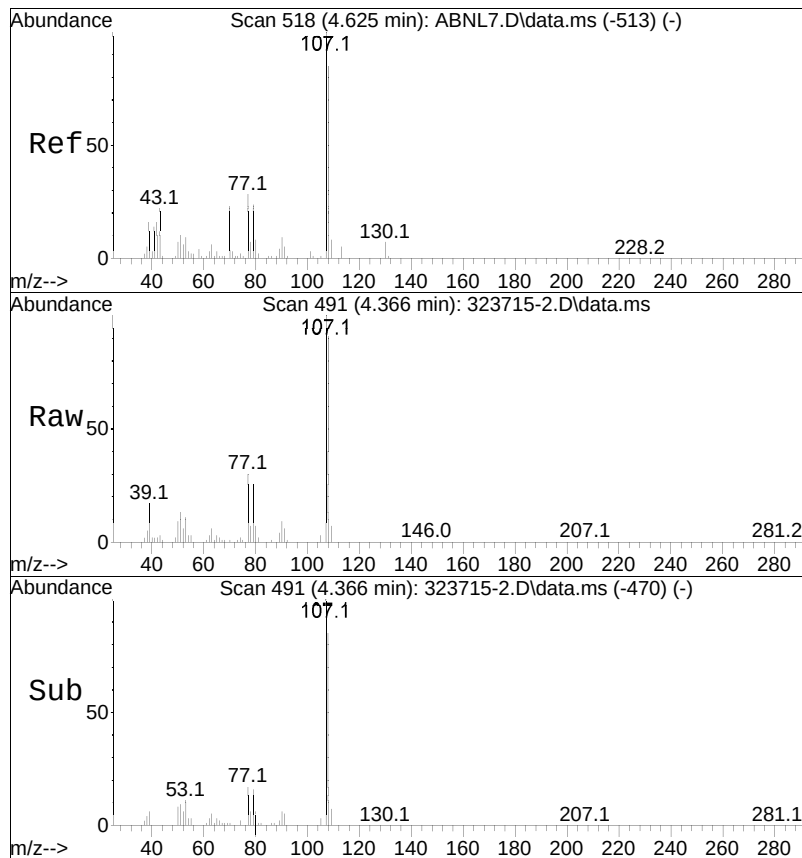


#17  
 n-Nitrosodi-n-propylamine  
 Concen: 31.61 ug/ml  
 RT: 4.342 min Scan# 487  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 70    | Resp: | 84795 |
| Ion Ratio | Lower | Upper |       |
| 70        | 100   |       |       |
| 130       | 22.2  | 18.7  | 28.1  |
| 101       | 9.9   | 8.4   | 12.6  |

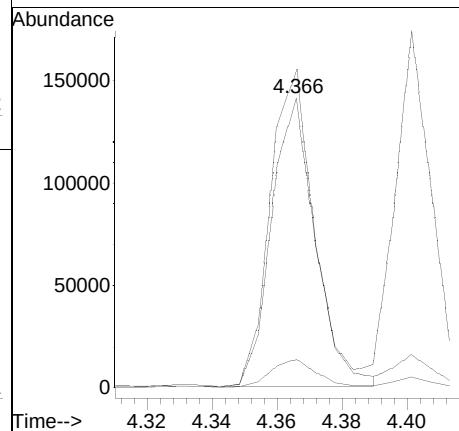


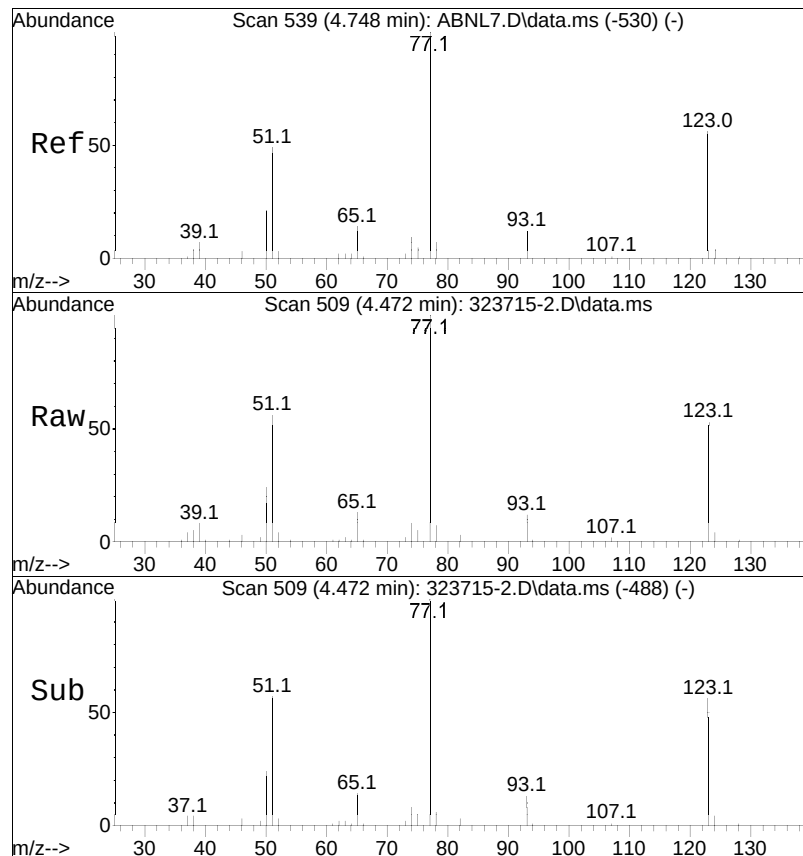




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 32.97 ug/ml  
 RT: 4.366 min Scan# 491  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

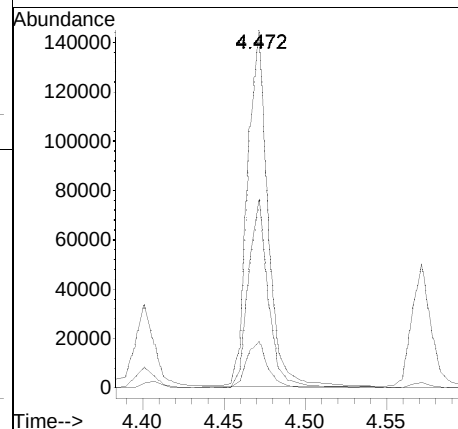
| Tgt | Ion   | Ratio | Resp   | Lower | Upper |
|-----|-------|-------|--------|-------|-------|
| 108 | 100   |       | 132355 |       |       |
| 107 | 110.2 | 87.0  |        | 130.6 |       |
| 90  | 10.4  | 8.4   |        | 12.6  |       |

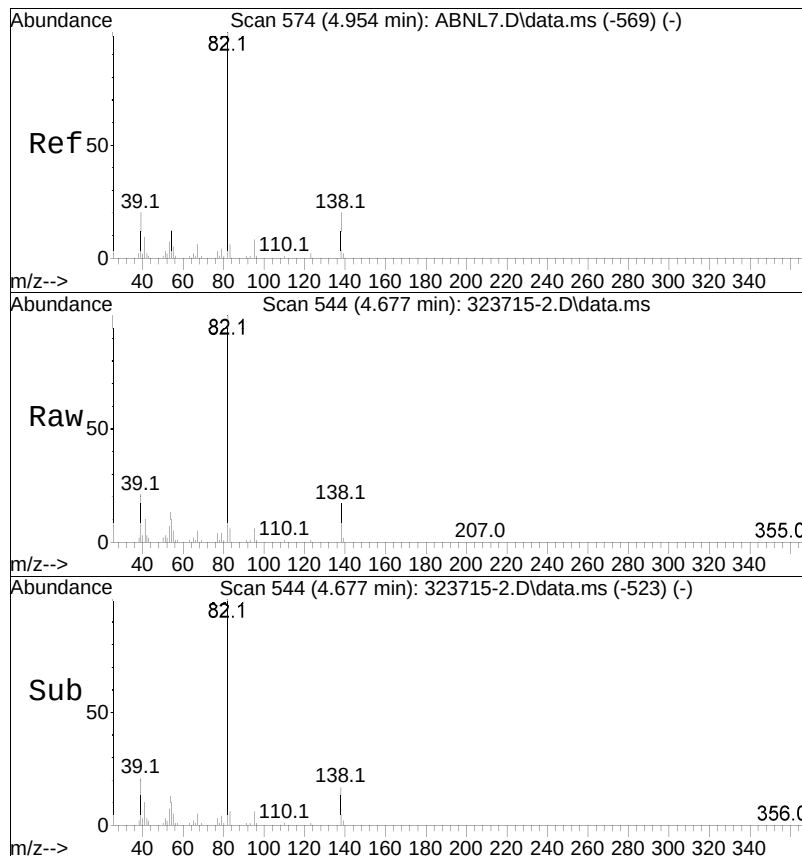




#20  
 Nitrobenzene  
 Concen: 30.87 ug/ml  
 RT: 4.472 min Scan# 509  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

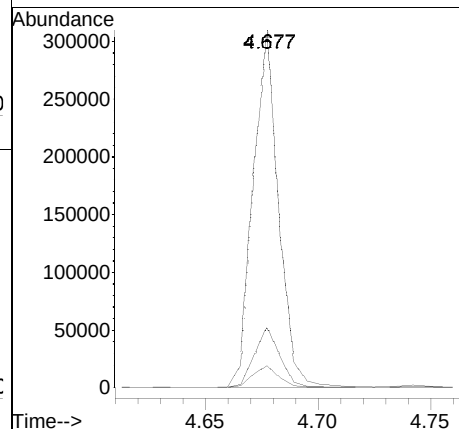
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 124224 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 52.6  | 38.3  | 57.5   |
| 65        | 14.0  | 10.3  | 15.5   |

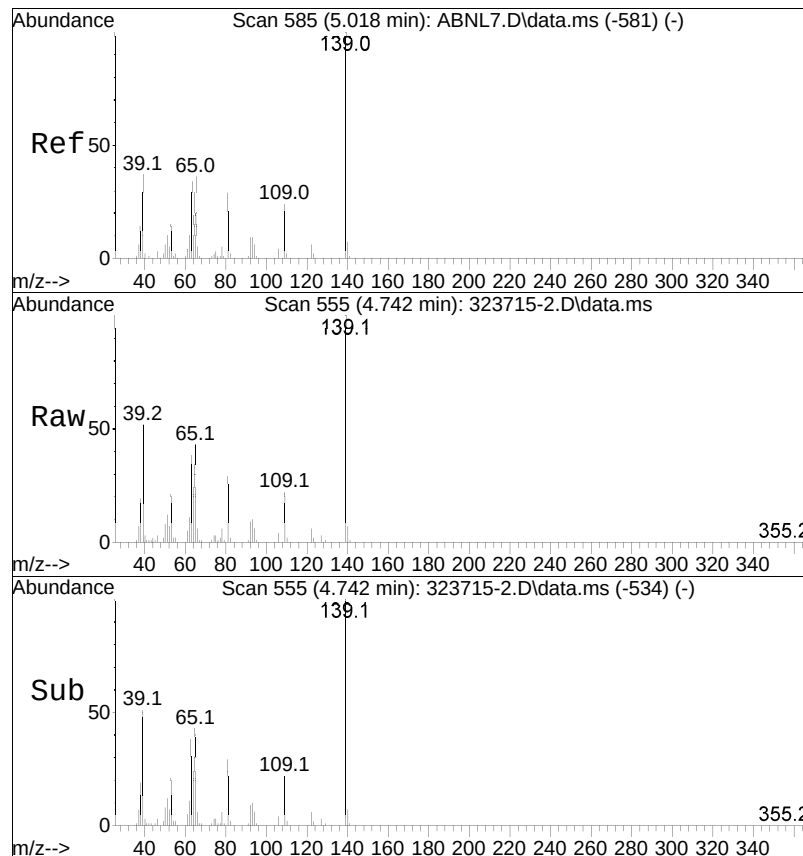




#21  
 Isophorone  
 Concen: 32.10 ug/ml  
 RT: 4.677 min Scan# 544  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

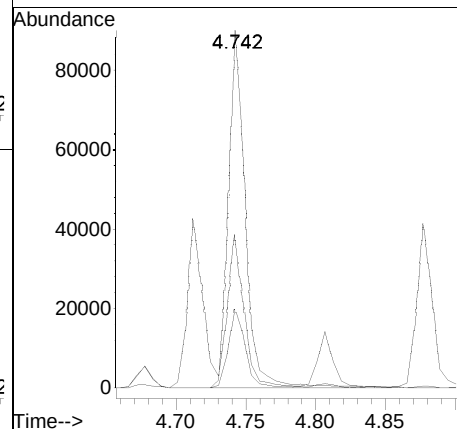
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 138     | 17.1  | 13.3  | 19.9  |
| 95      | 6.3   | 5.1   | 7.7   |

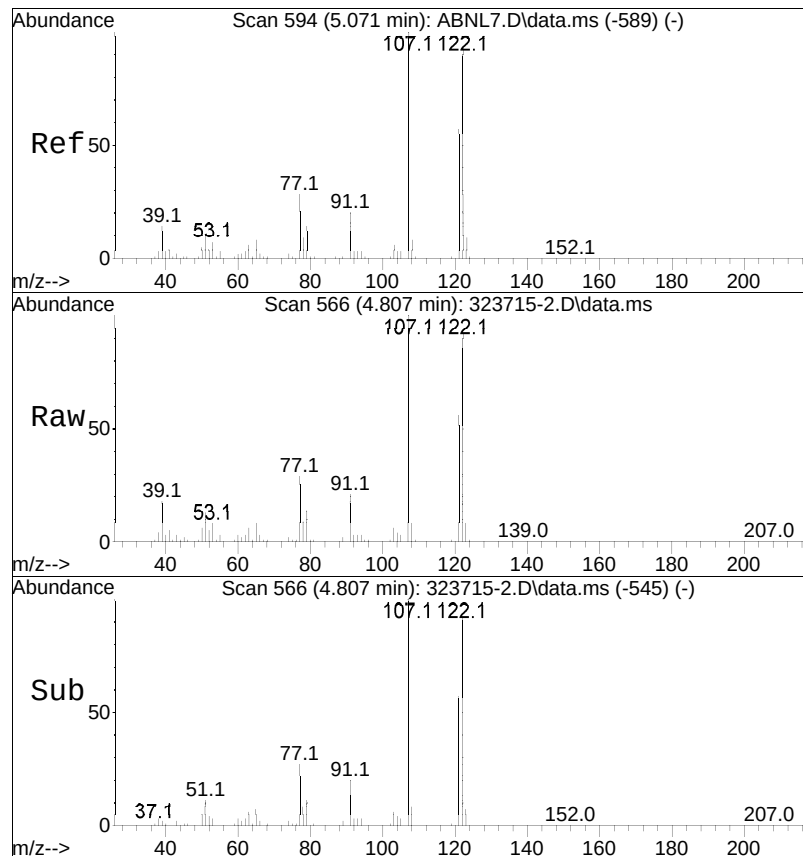




#22  
 2-Nitrophenol  
 Concen: 36.90 ug/ml  
 RT: 4.742 min Scan# 555  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

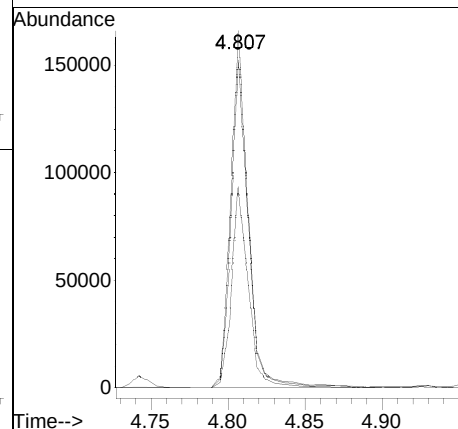
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:139 | Resp: | 76034 |
| Ion Ratio   | Lower | Upper |
| 139 100     |       |       |
| 109 22.1    | 20.1  | 30.1  |
| 65 40.7     | 37.8  | 56.8  |

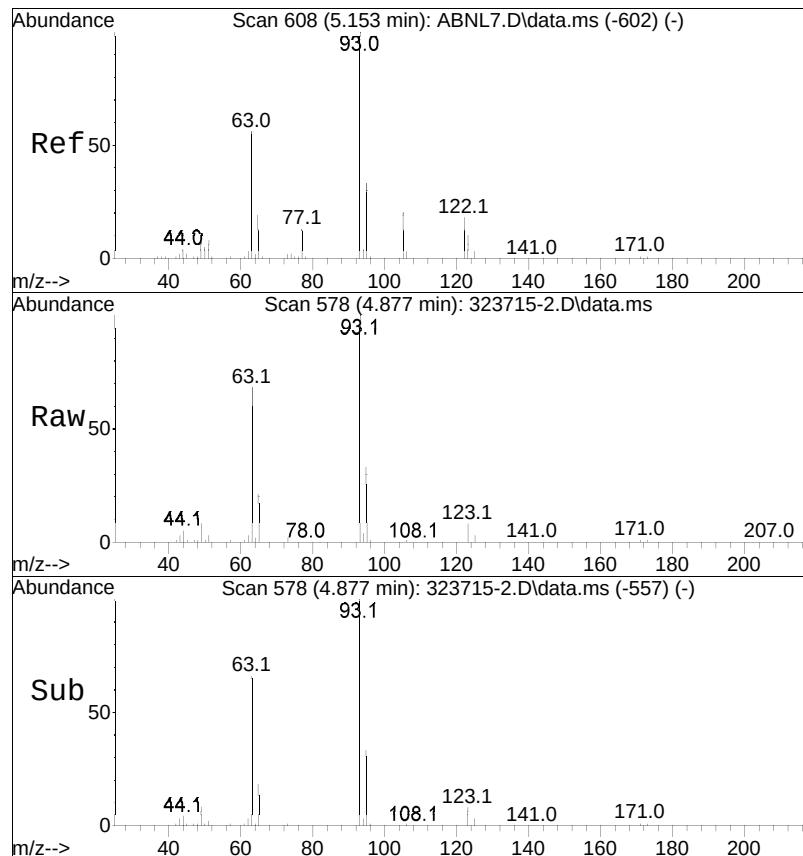




#23  
 2,4-Dimethylphenol  
 Concen: 32.25 ug/ml  
 RT: 4.807 min Scan# 566  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

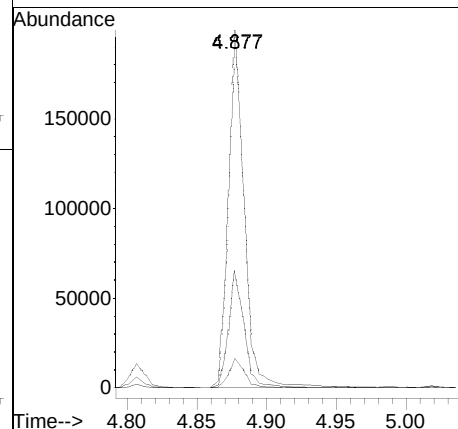
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 128694 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 55.3  | 40.2  | 60.4   |
| 122       | 89.5  | 70.2  | 105.4  |

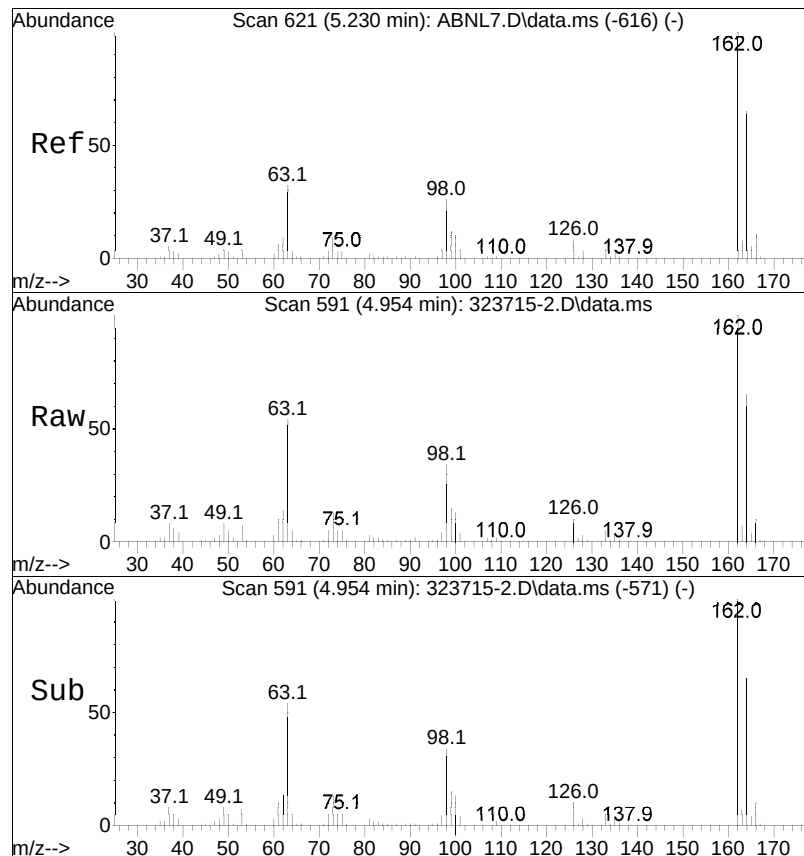




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 30.69 ug/ml  
 RT: 4.877 min Scan# 578  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

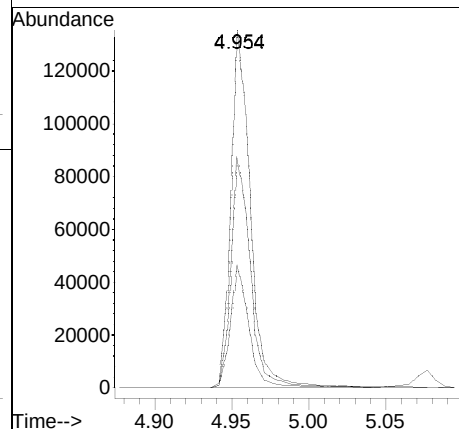
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 154512 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 32.7  | 26.3  | 39.5   |
| 123       | 8.2   | 11.4  | 17.0#  |

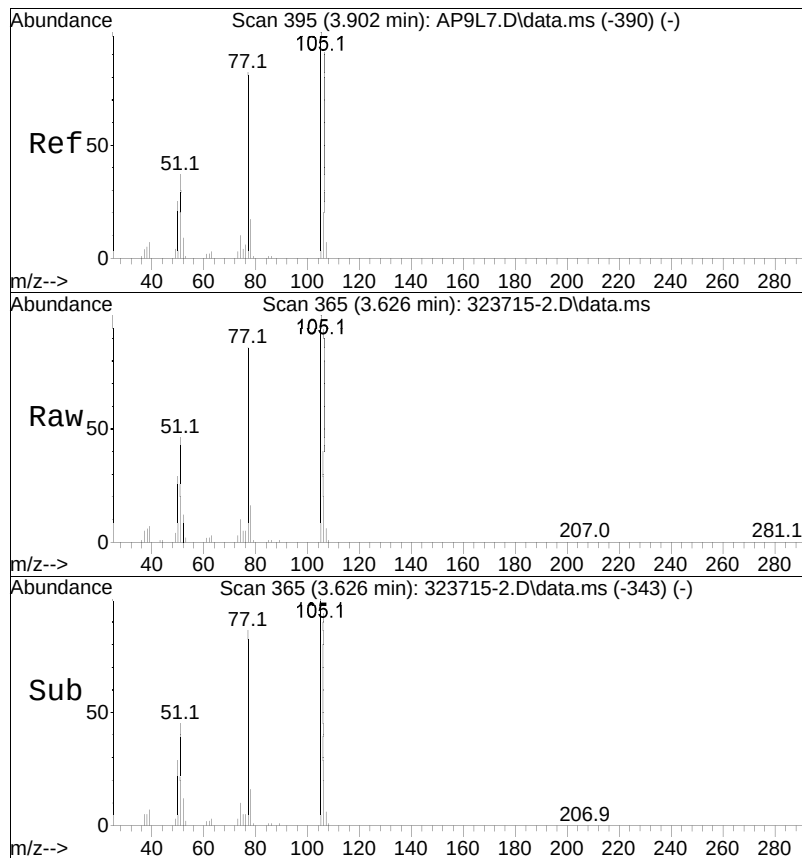




#25  
 2,4-Dichlorophenol  
 Concen: 32.49 ug/ml  
 RT: 4.954 min Scan# 591  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

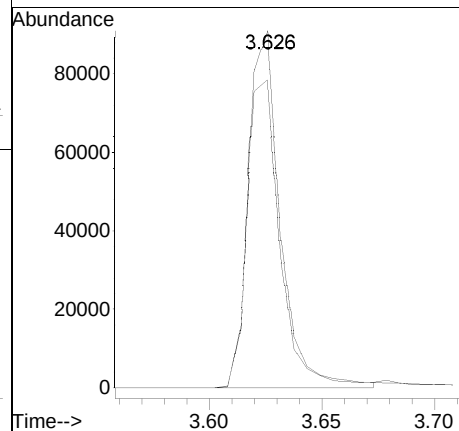
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.0  | 51.2  | 76.8  |
| 98      | 32.9  | 34.6  | 52.0# |



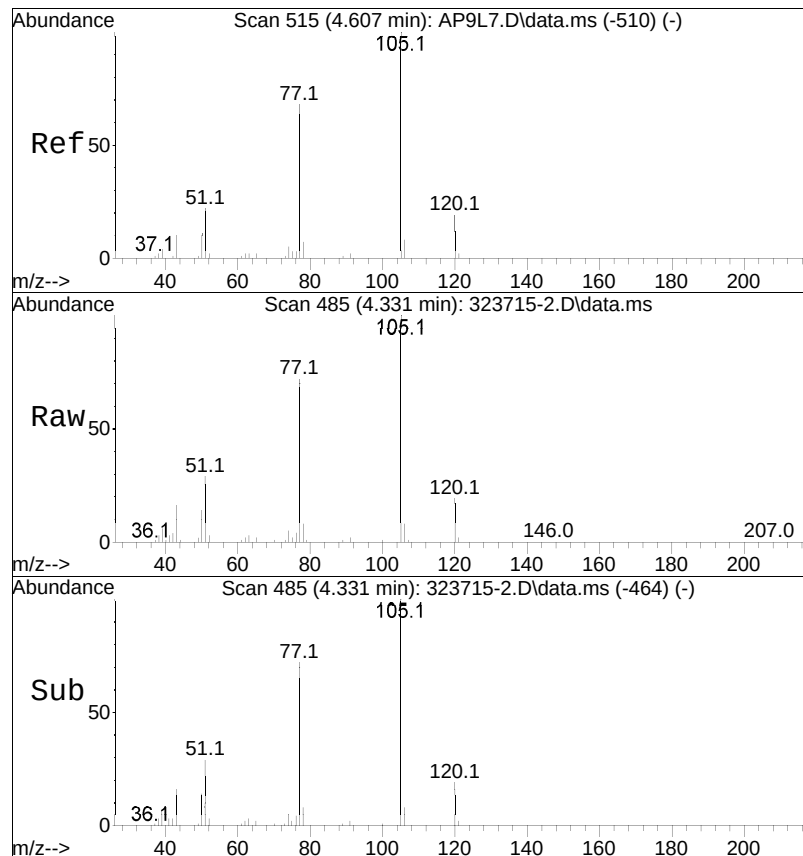


#28  
 Benzaldehyde  
 Concen: 24.36 ug/ml  
 RT: 3.626 min Scan# 365  
 Delta R.T. 0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 77      | 90.9  | 79.4  | 119.0 |

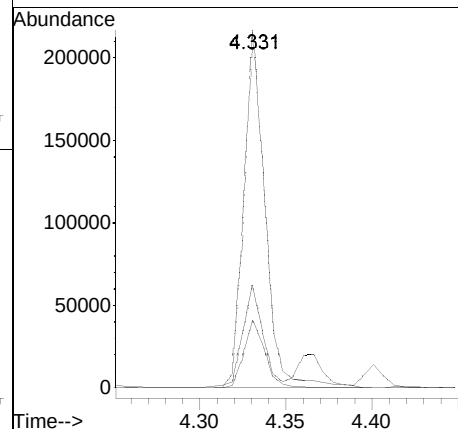


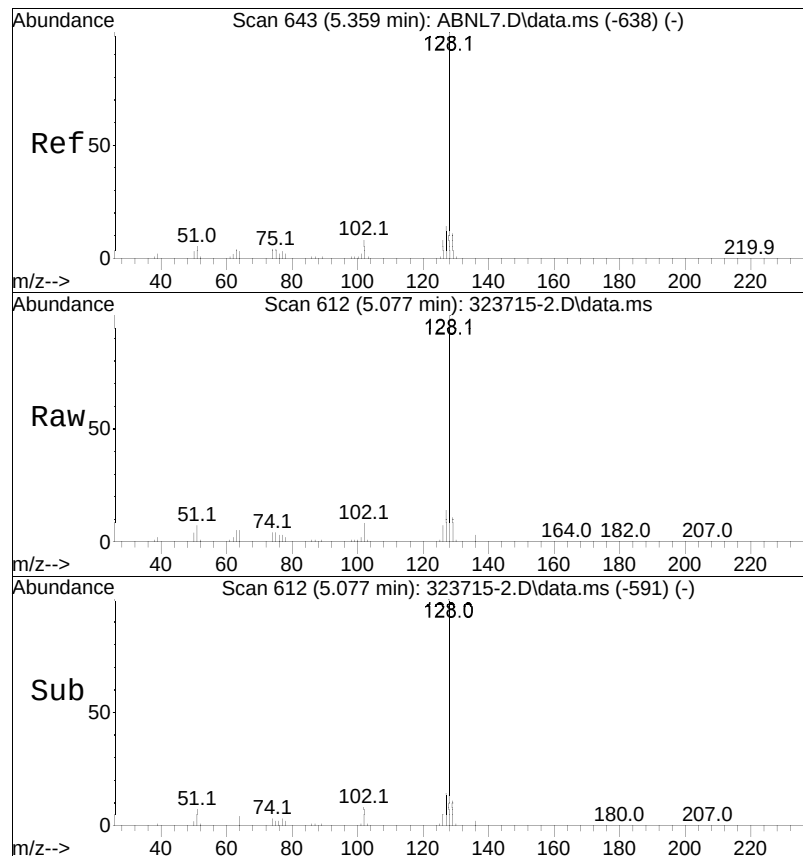




#29  
 Acetophenone  
 Concen: 31.35 ug/ml  
 RT: 4.331 min Scan# 485  
 Delta R.T. 0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

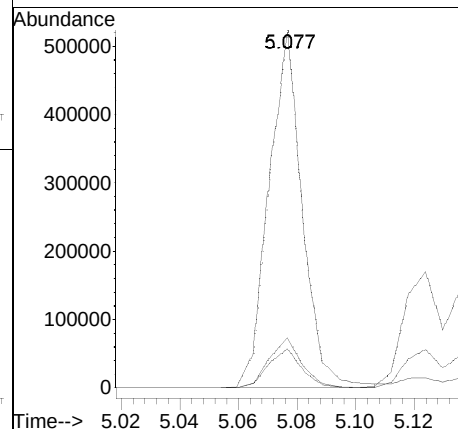
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 183766 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 19.2  | 19.9  | 29.9#  |
| 51        | 27.7  | 17.8  | 26.6#  |

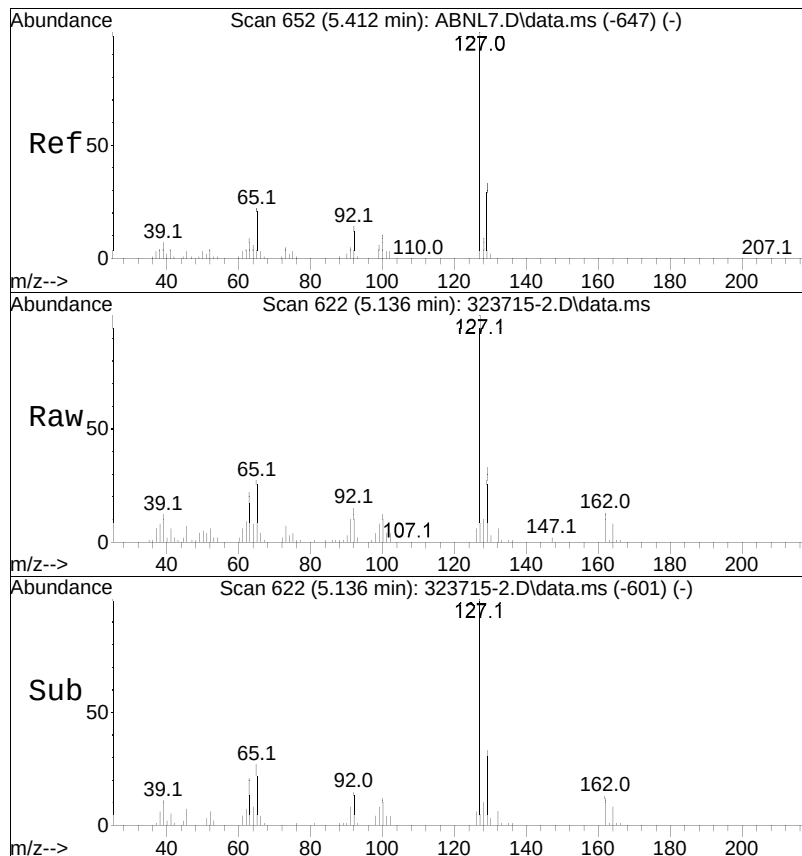




#36  
 Naphthalene  
 Concen: 30.30 ug/ml  
 RT: 5.077 min Scan# 612  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

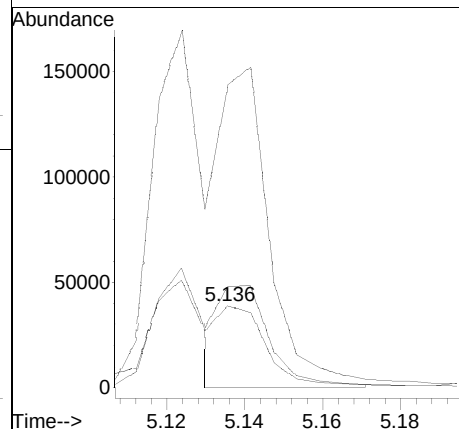
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 128 | 100  |       | 410207 |       |       |
| 129 | 11.1 | 9.0   | 13.6   |       |       |
| 127 | 13.8 | 11.3  | 16.9   |       |       |

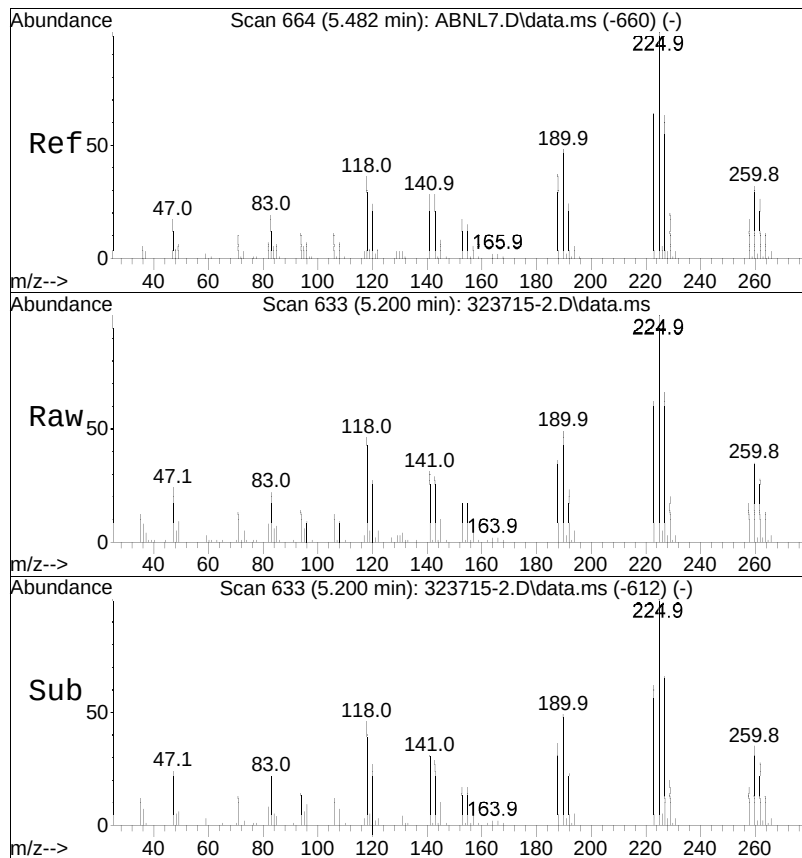




#38  
 4-Chloroaniline  
 Concen: 23.95 ug/ml M3  
 RT: 5.136 min Scan# 622  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

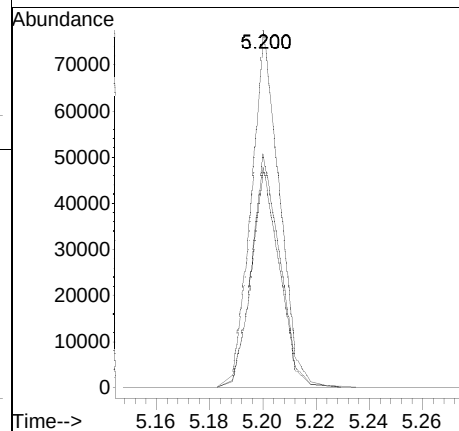
| Tgt Ion:  | 65    | Resp: | 33658 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 65        | 100   |       |       |
| 127       | 431.4 | 295.3 | 442.9 |
| 129       | 138.3 | 96.3  | 144.5 |

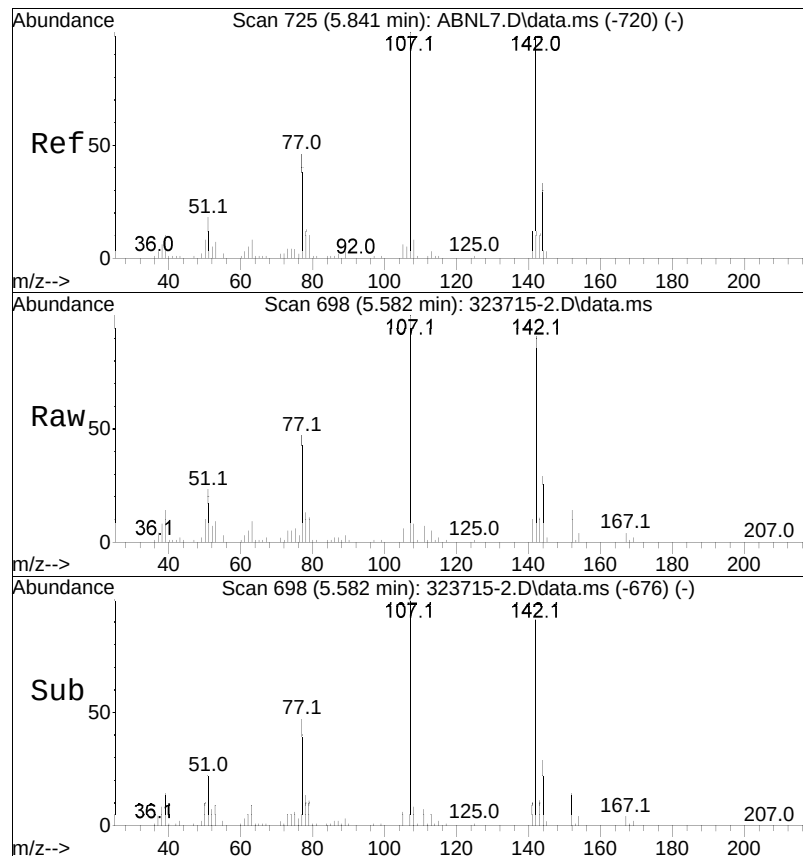




#39  
 Hexachlorobutadiene  
 Concen: 26.19 ug/ml  
 RT: 5.200 min Scan# 633  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

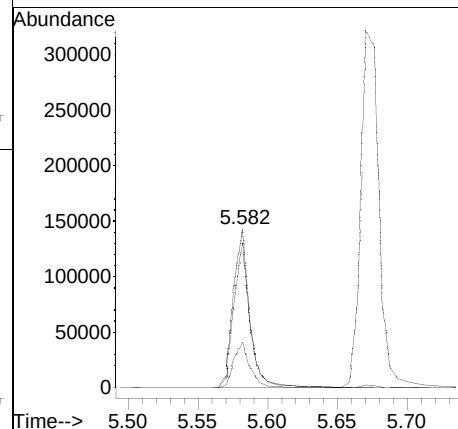
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:225 | Resp: | 56948 |
| Ion | Ratio   | Lower | Upper |
| 225 | 100     |       |       |
| 223 | 61.2    | 50.2  | 75.2  |
| 227 | 65.2    | 51.3  | 76.9  |

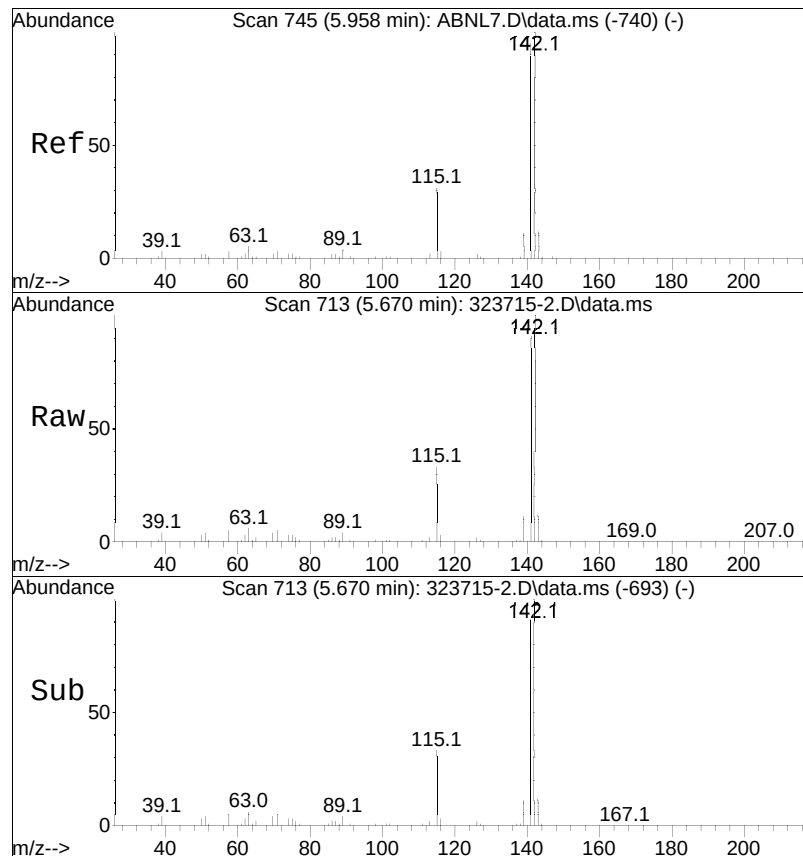




#40  
 p-Chloro-m-cresol  
 Concen: 33.52 ug/ml  
 RT: 5.582 min Scan# 698  
 Delta R.T. 0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

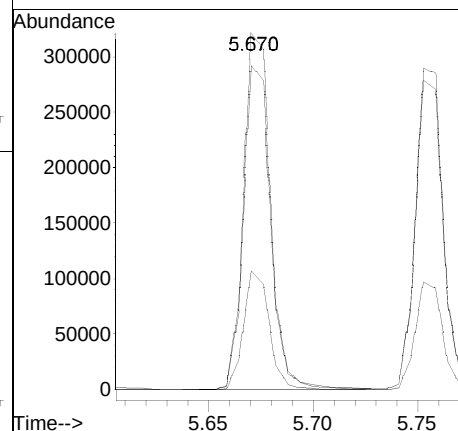
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 119389 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 28.5  | 20.7  | 31.1   |
| 142       | 87.8  | 63.7  | 95.5   |

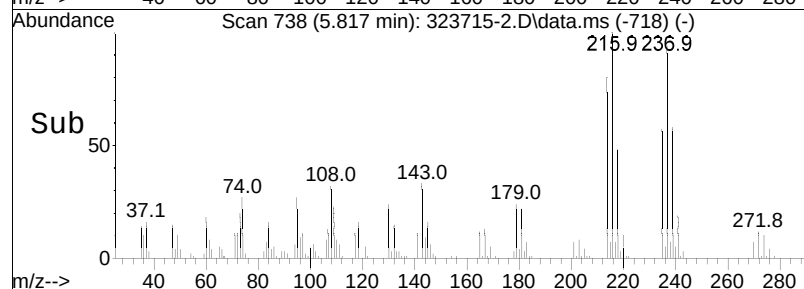
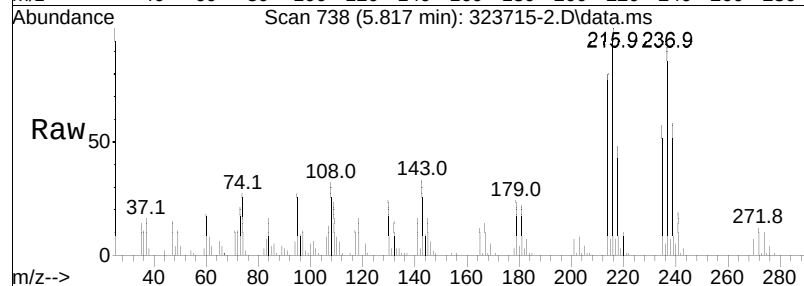
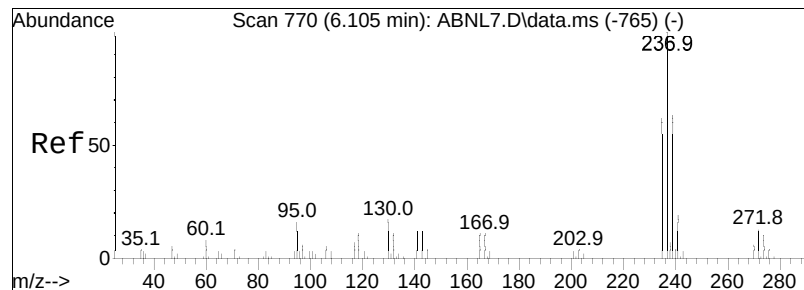




#41  
 2-Methylnaphthalene  
 Concen: 32.35 ug/ml  
 RT: 5.670 min Scan# 713  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 289858 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 91.3  | 71.0  | 106.6  |
| 115       | 32.3  | 29.8  | 44.6   |





#43

Hexachlorocyclopentadiene

Concen: 19.17 ug/ml

RT: 5.817 min Scan# 738

Delta R.T. -0.006 min

Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am

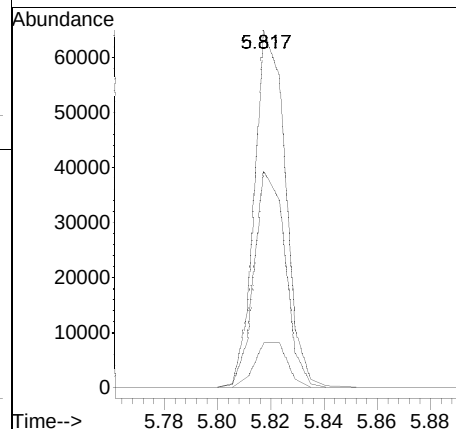
Tgt Ion: 237 Resp: 52335

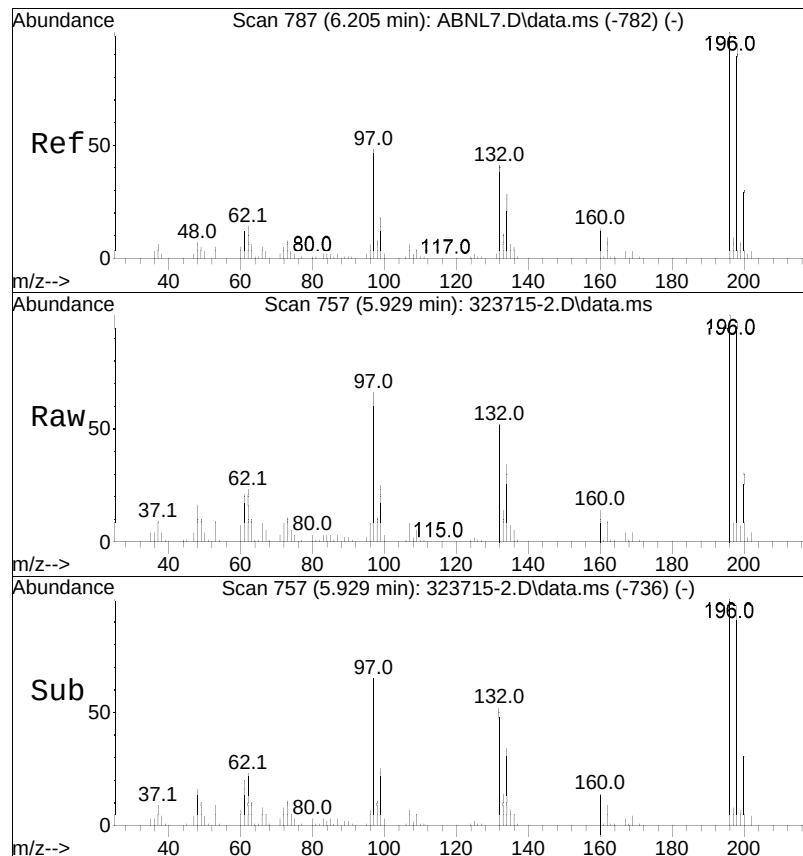
Ion Ratio Lower Upper

237 100

235 60.8 50.2 75.2

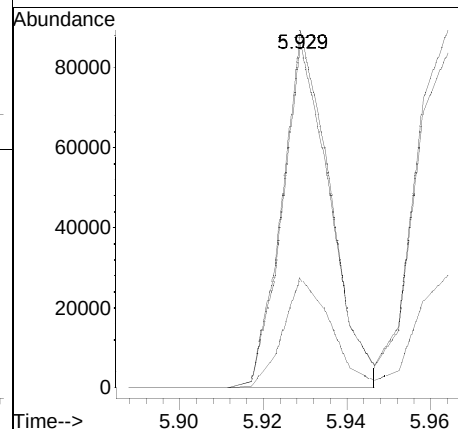
272 13.3 11.4 17.2



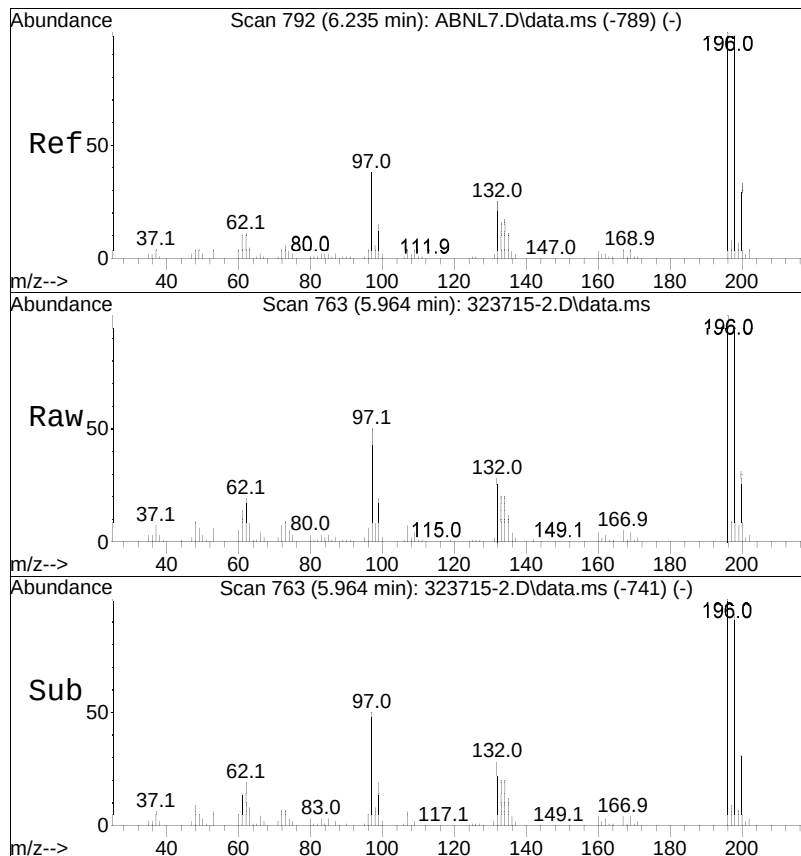


#44  
 2,4,6-Trichlorophenol  
 Concen: 27.13 ug/ml  
 RT: 5.929 min Scan# 757  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 95.9  | 76.0  | 114.0 |
| 200     | 31.0  | 24.9  | 37.3  |

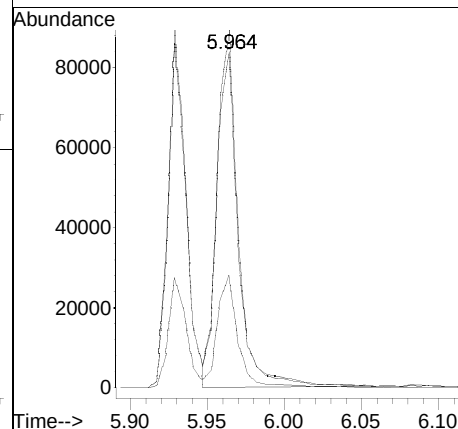


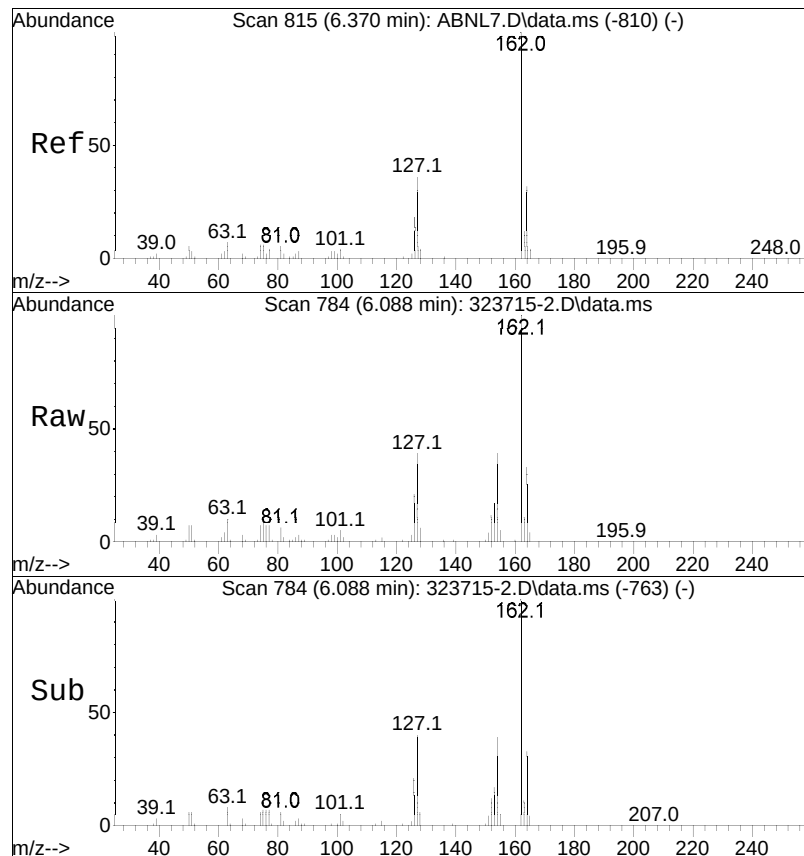




#45  
 2,4,5-Trichlorophenol  
 Concen: 30.73 ug/ml  
 RT: 5.964 min Scan# 763  
 Delta R.T. 0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

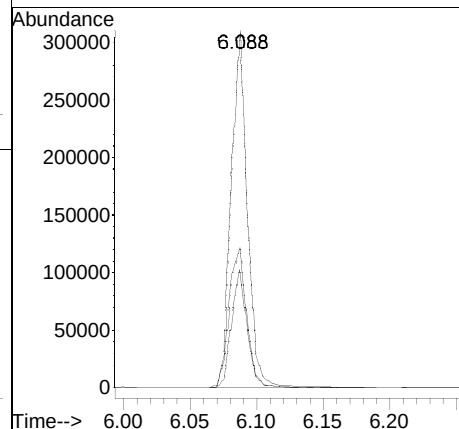
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 200     | 29.2  | 23.8  | 35.6  |
| 198     | 94.4  | 74.3  | 111.5 |

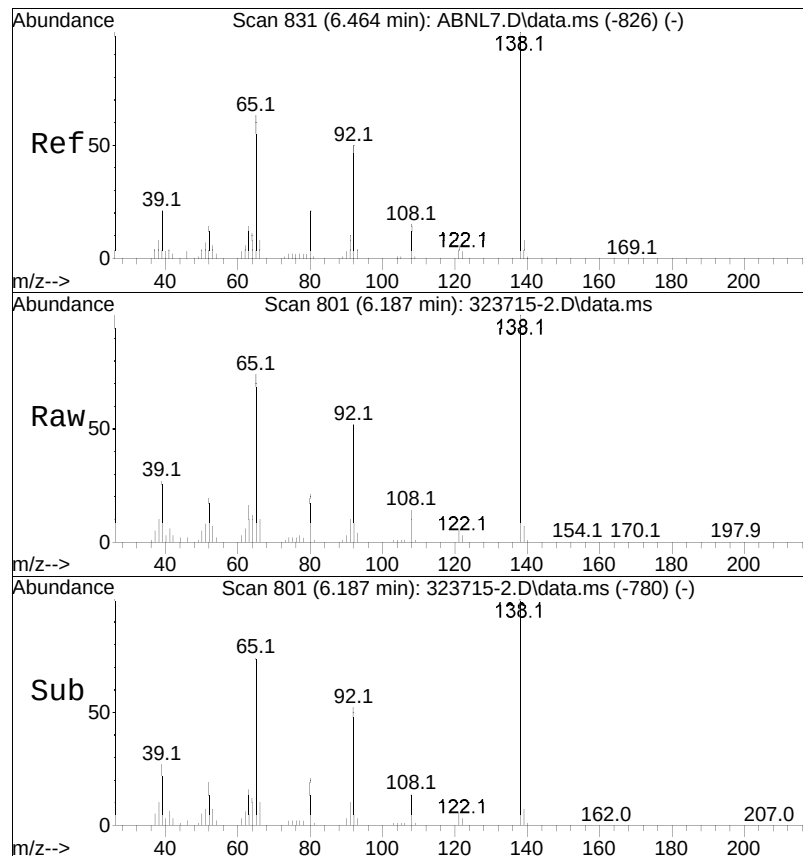




#47  
 2-Chloronaphthalene  
 Concen: 30.08 ug/ml  
 RT: 6.088 min Scan# 784  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

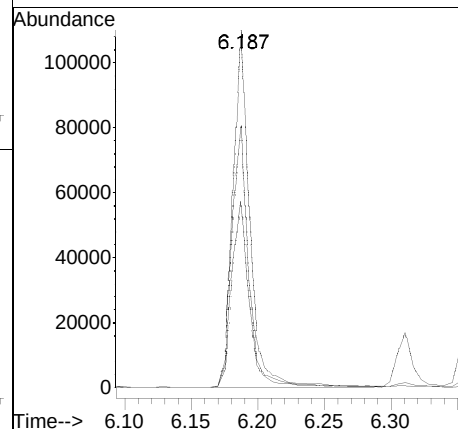
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 256533 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 43.7  | 33.9  | 50.9   |
| 164       | 32.7  | 26.3  | 39.5   |

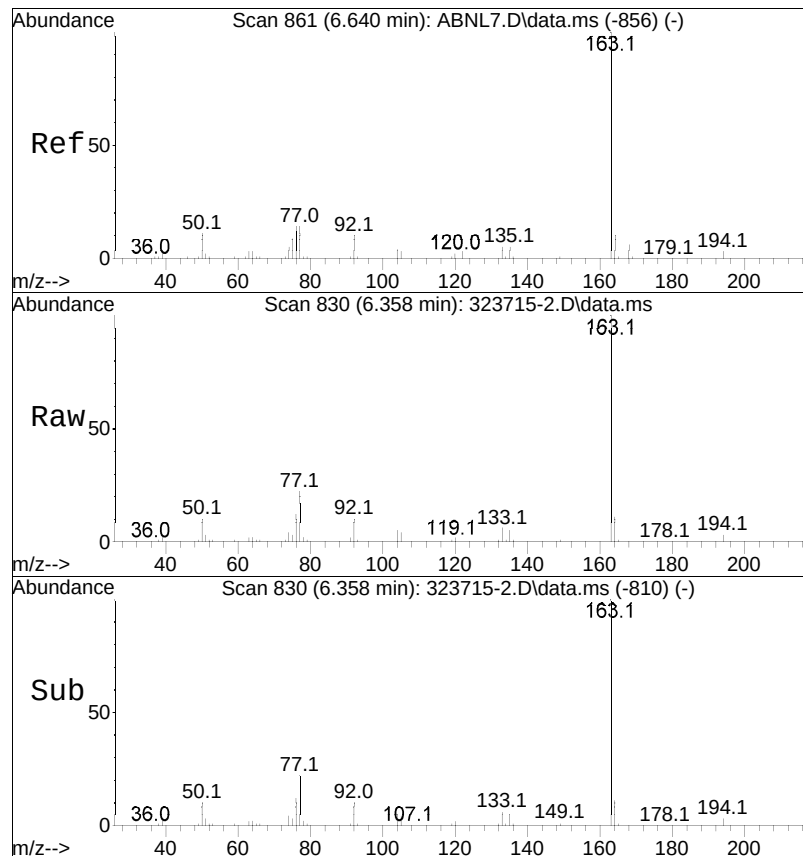




#48  
 2-Nitroaniline  
 Concen: 34.07 ug/ml  
 RT: 6.187 min Scan# 801  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

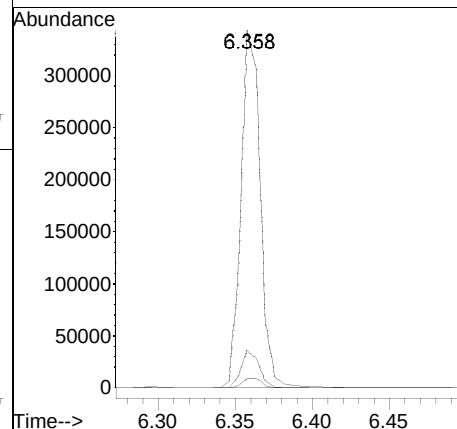
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 138   | Resp: | 95527 |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 92        | 54.6  | 52.5  | 78.7  |
| 65        | 73.6  | 67.7  | 101.5 |

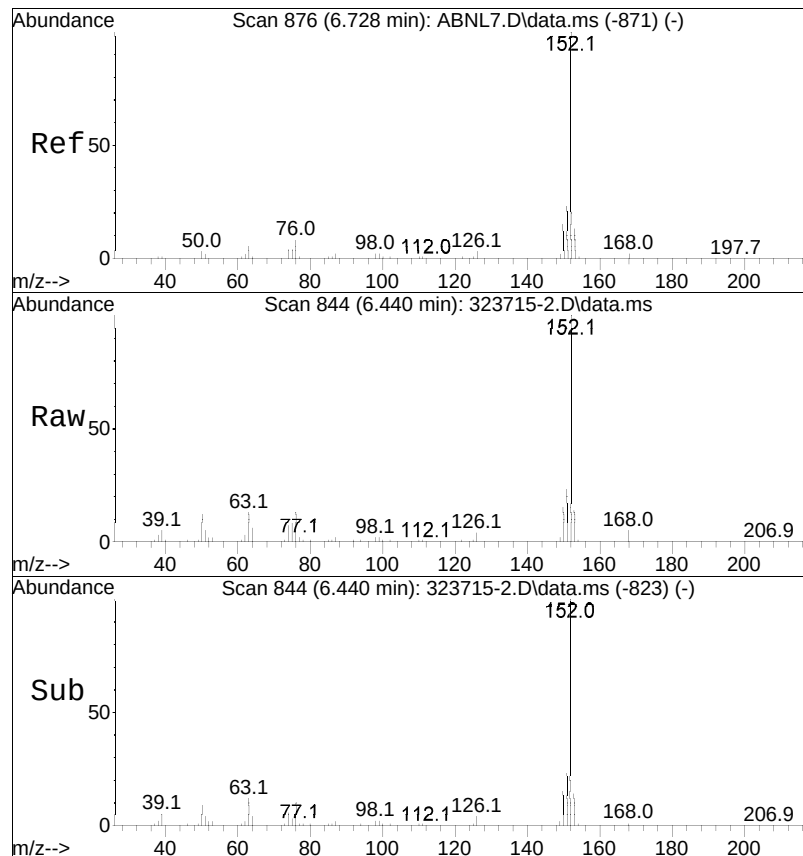




#51  
 Dimethyl phthalate  
 Concen: 29.57 ug/ml  
 RT: 6.358 min Scan# 830  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

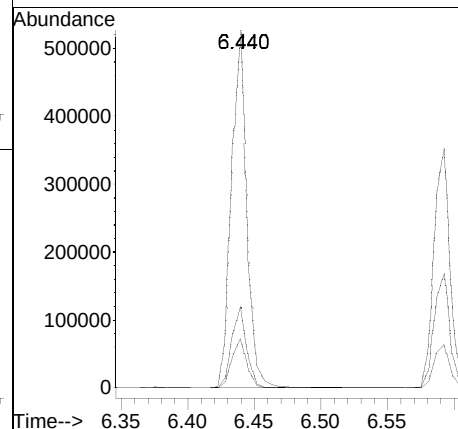
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 296639 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 2.8   | 3.5   | 5.3#   |
| 164       | 10.0  | 8.3   | 12.5   |

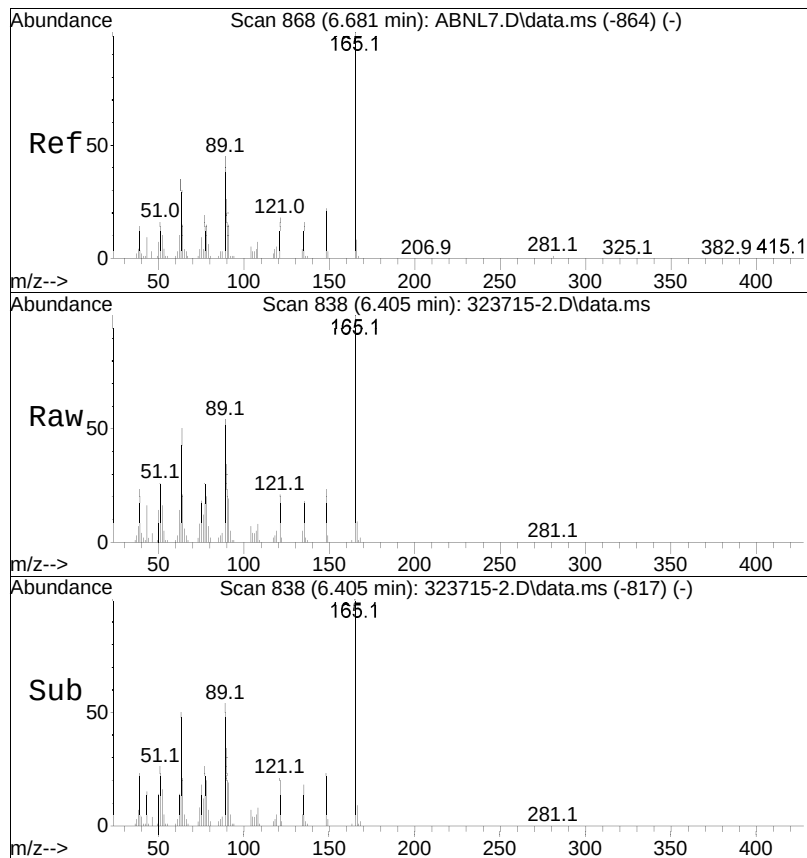




#52  
 Acenaphthylene  
 Concen: 30.61 ug/ml  
 RT: 6.440 min Scan# 844  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

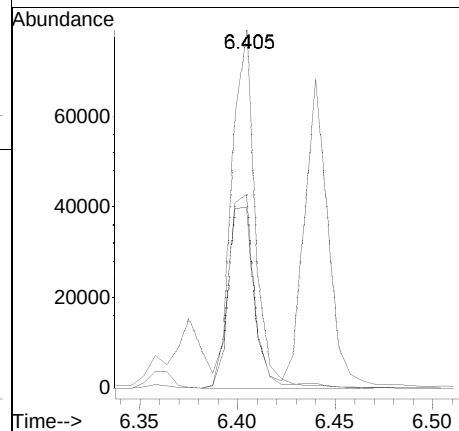
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 22.2  | 17.7  | 26.5  |
| 153     | 13.6  | 10.6  | 15.8  |

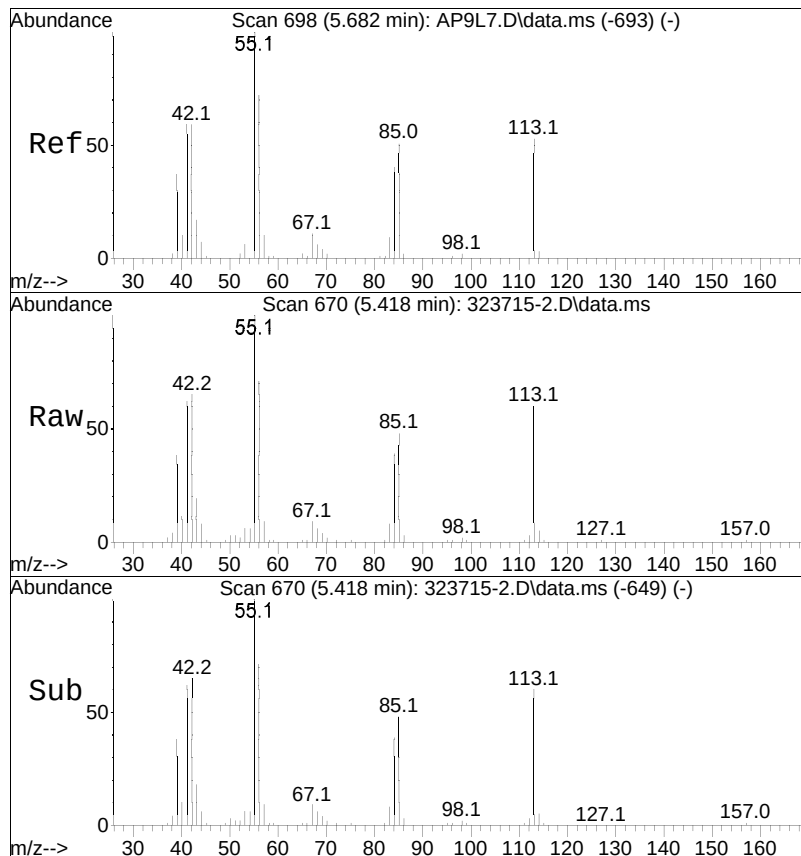




#53  
 2,6-Dinitrotoluene  
 Concen: 31.40 ug/ml  
 RT: 6.405 min Scan# 838  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

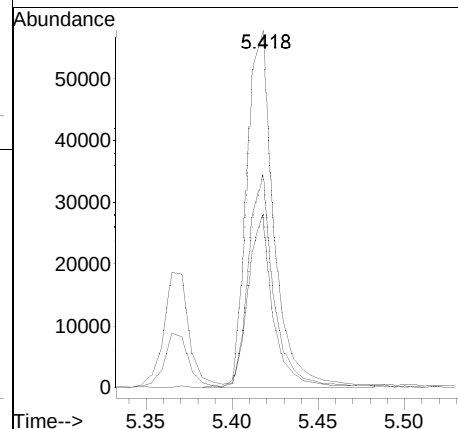
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 165     | 100   | 65922 |       |       |
| 89      | 57.7  |       | 56.8  | 85.2  |
| 63      | 54.5  |       | 50.6  | 76.0  |

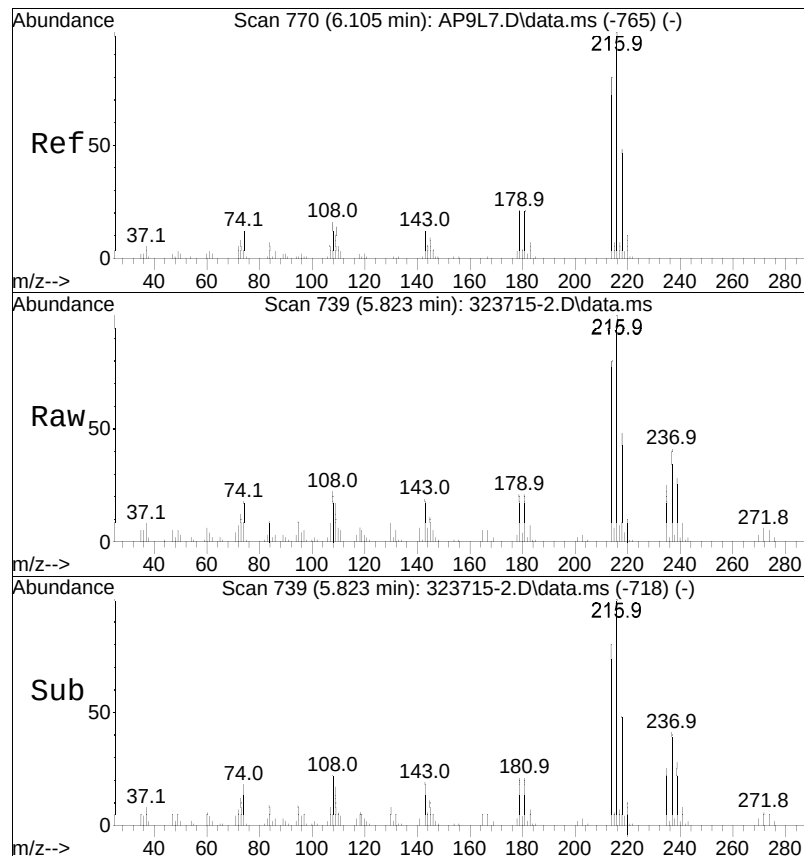




#60  
 Caprolactam  
 Concen: 35.63 ug/ml  
 RT: 5.418 min Scan# 670  
 Delta R.T. 0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

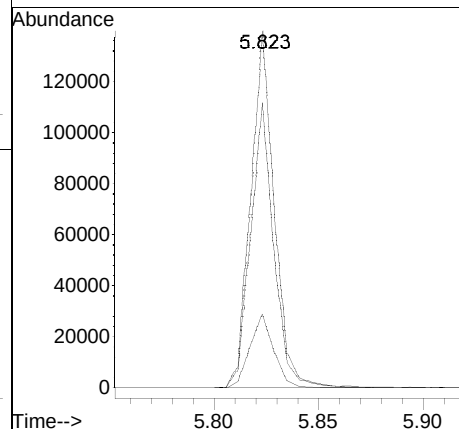
|     |         |             |
|-----|---------|-------------|
| Tgt | Ion: 55 | Resp: 63571 |
| Ion | Ratio   | Lower Upper |
| 55  | 100     |             |
| 85  | 44.7    | 47.4 71.2#  |
| 113 | 56.2    | 71.0 106.4# |



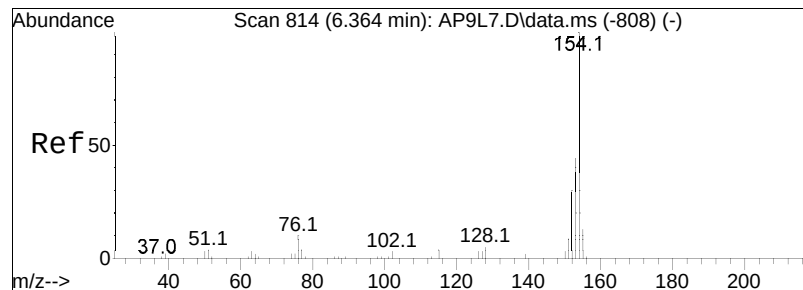


#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 27.22 ug/ml  
 RT: 5.823 min Scan# 739  
 Delta R.T. 0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:216 | Resp: | 108714 |
| Ion | Ratio   | Lower | Upper  |
| 216 | 100     |       |        |
| 214 | 79.2    | 64.2  | 96.2   |
| 179 | 21.3    | 17.8  | 26.8   |







#62

Biphenyl

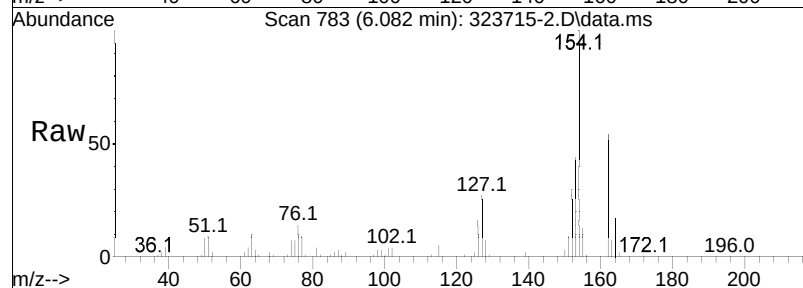
Concen: 30.21 ug/ml

RT: 6.082 min Scan# 783

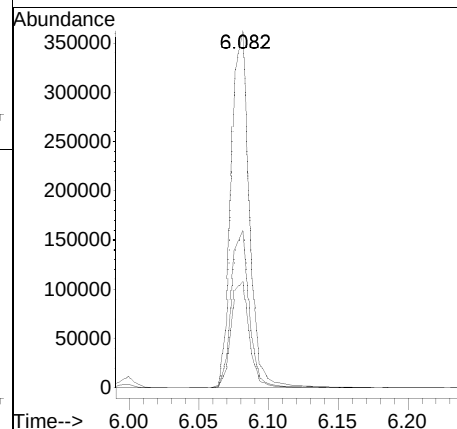
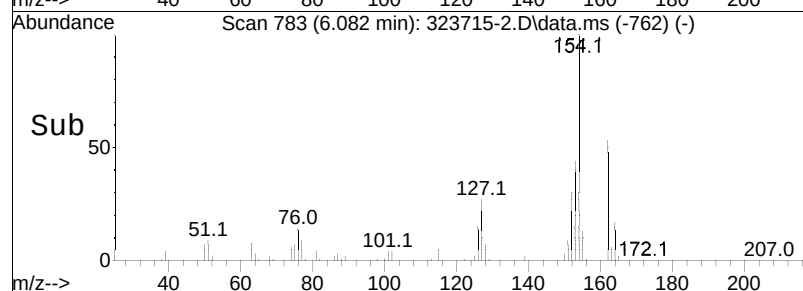
Delta R.T. 0.000 min

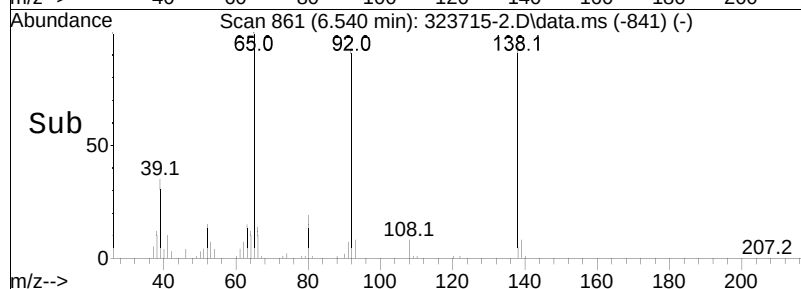
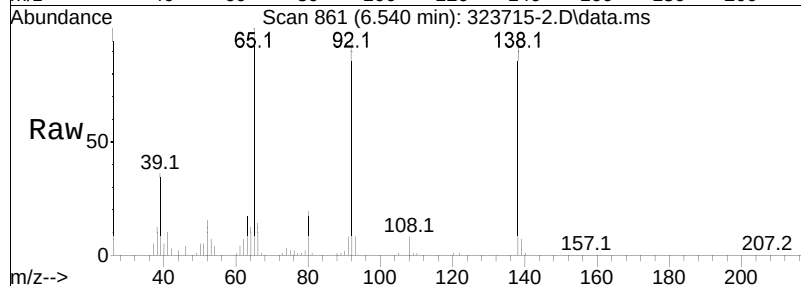
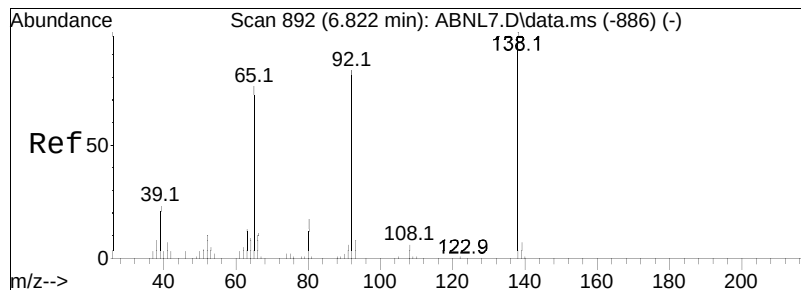
Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am



|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:154 | Resp: | 328140 |
| Ion | Ratio   | Lower | Upper  |
| 154 | 100     |       |        |
| 153 | 44.0    | 35.1  | 52.7   |
| 152 | 30.0    | 24.0  | 36.0   |





#64

3-Nitroaniline

Concen: 27.94 ug/ml

RT: 6.540 min Scan# 861

Delta R.T. -0.006 min

Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am

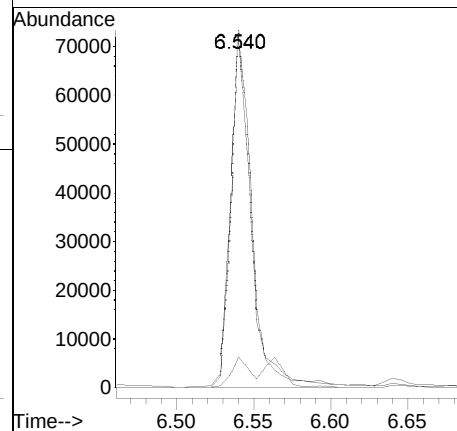
Tgt Ion:138 Resp: 67959

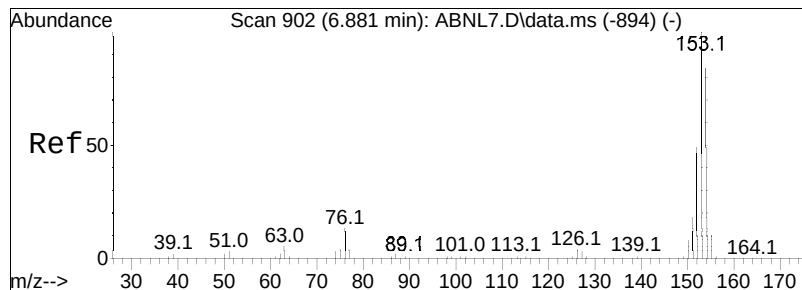
Ion Ratio Lower Upper

138 100

92 98.6 95.4 143.2

108 7.6 8.1 12.1#





#65

Acenaphthene

Concen: 30.56 ug/ml

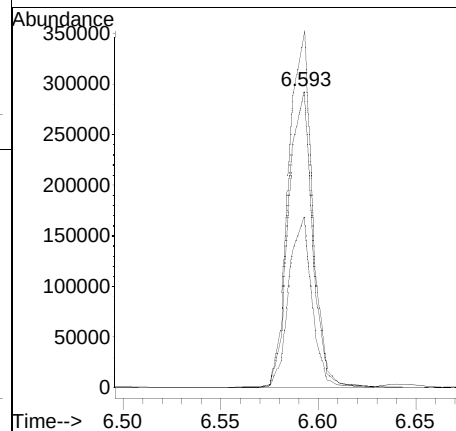
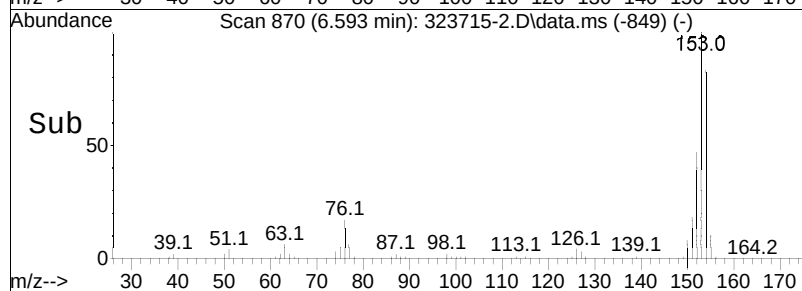
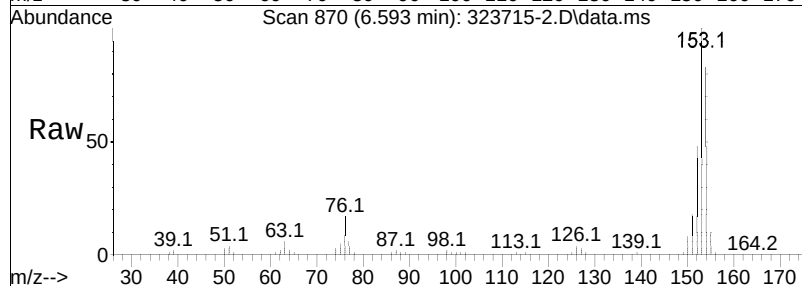
RT: 6.593 min Scan# 870

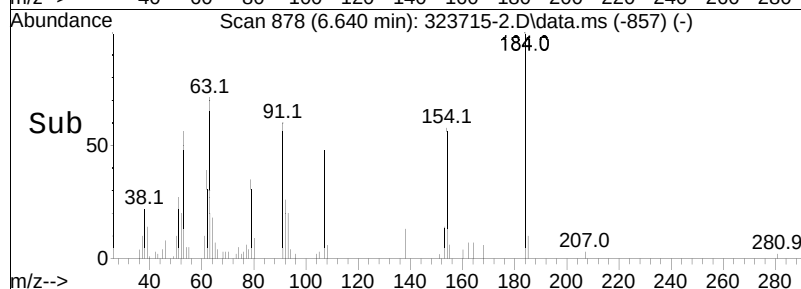
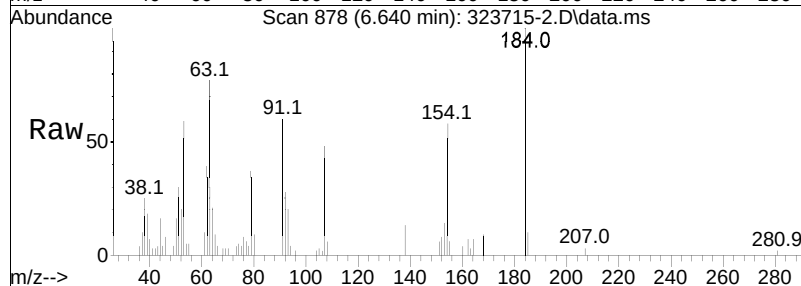
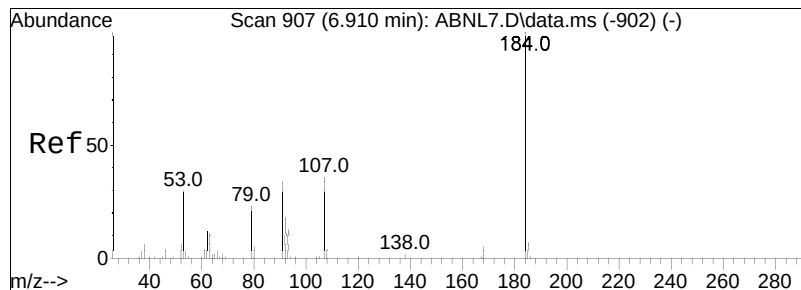
Delta R.T. -0.000 min

Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am

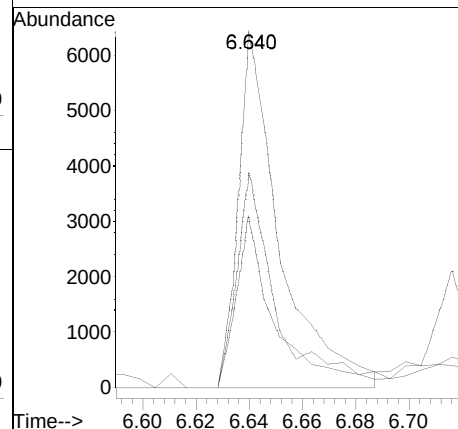
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 119.9 | 89.2  | 133.8 |
| 152     | 56.0  | 44.2  | 66.2  |

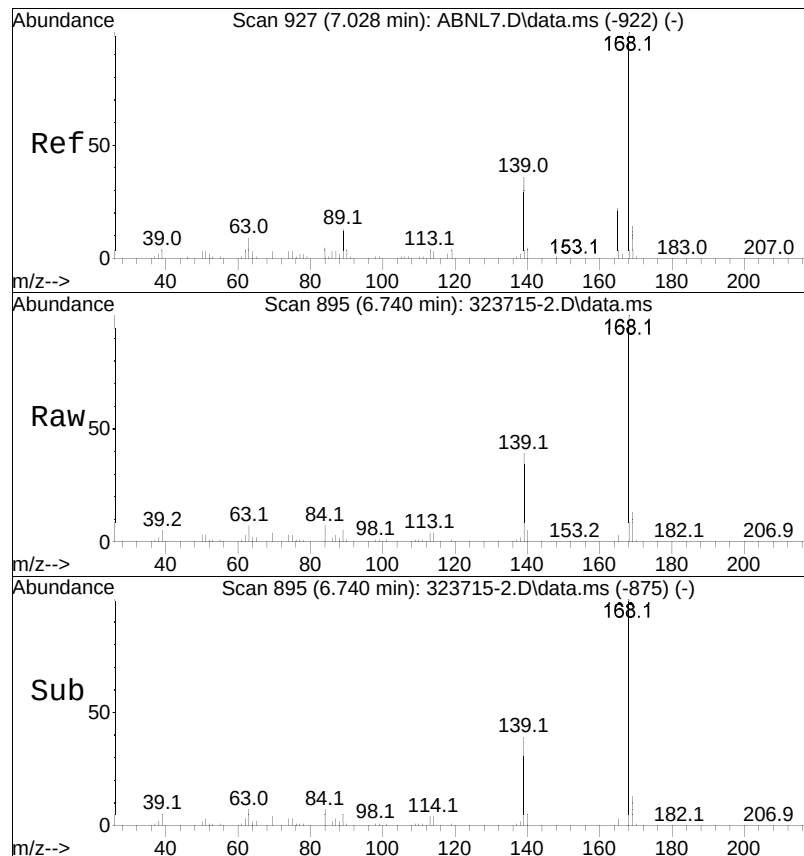




#66  
 2,4-Dinitrophenol  
 Concen: 9.02 ug/ml  
 RT: 6.640 min Scan# 878  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

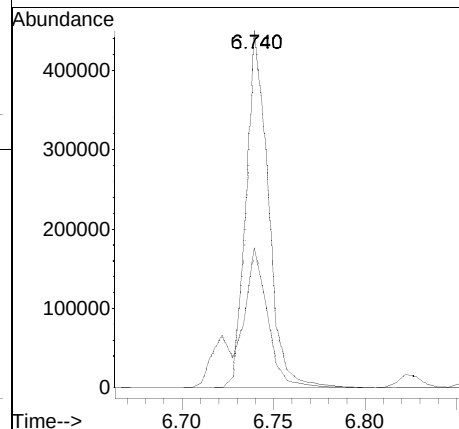
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 107     | 45.7  | 40.6  | 61.0  |
| 91      | 58.7  | 47.3  | 70.9  |

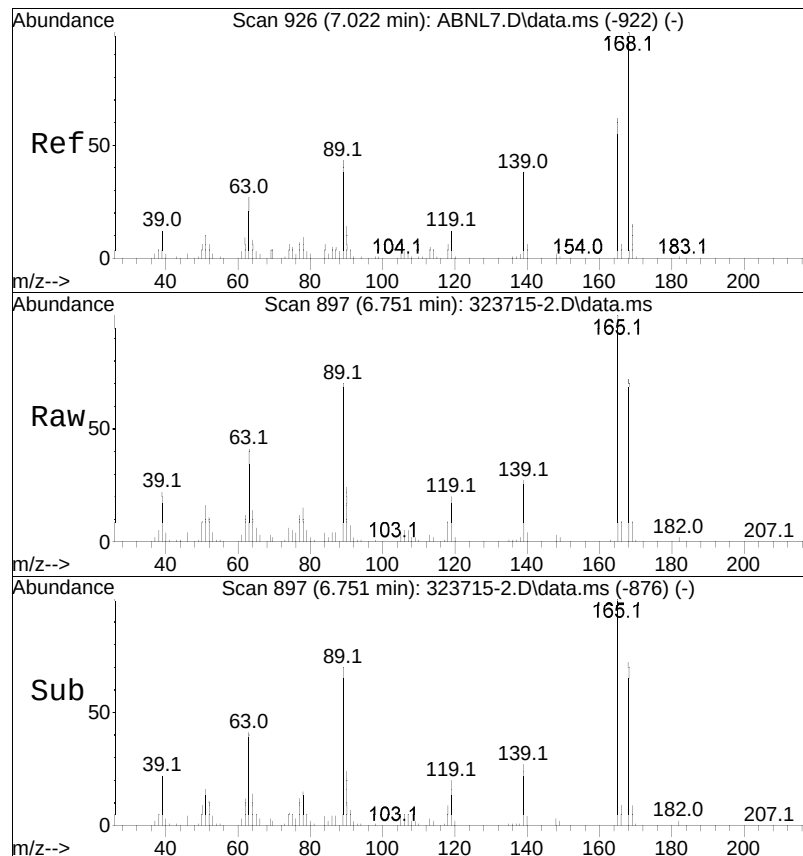




#67  
 Dibenzofuran  
 Concen: 30.88 ug/ml  
 RT: 6.740 min Scan# 895  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

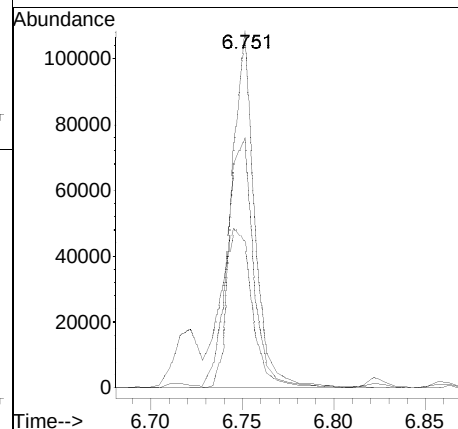
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 54.4  | 33.3  | 49.9# |

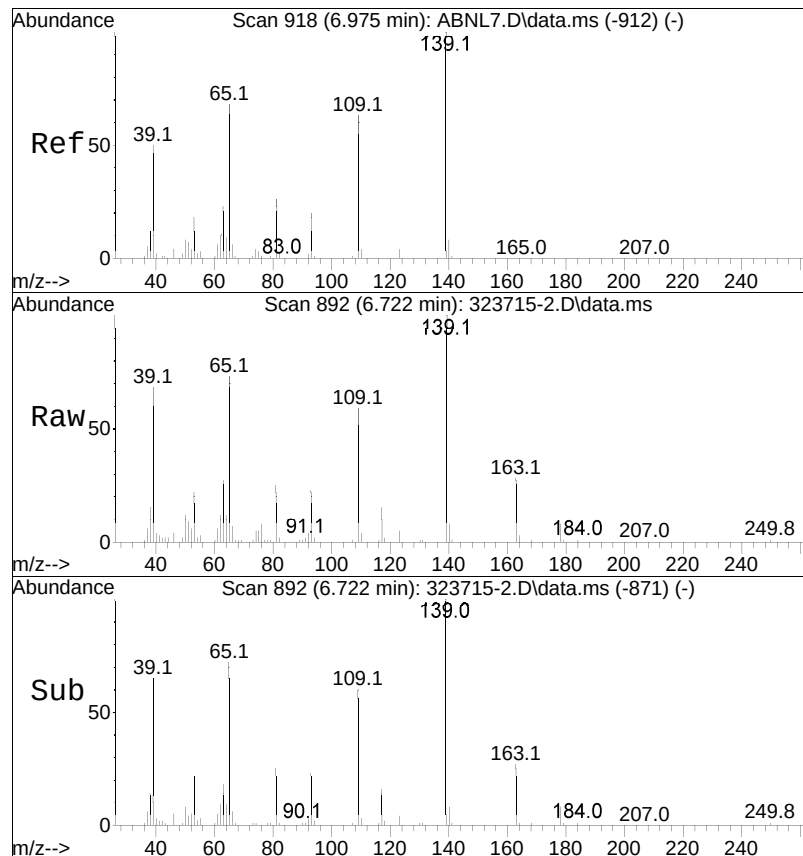




#68  
 2,4-Dinitrotoluene  
 Concen: 34.54 ug/ml  
 RT: 6.751 min Scan# 897  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

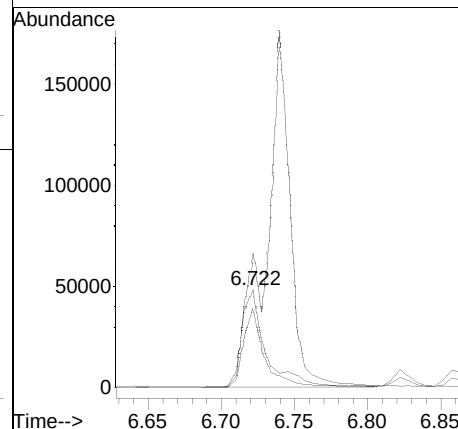
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 92191 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 89        | 84.6  | 82.6  | 124.0 |
| 63        | 61.9  | 56.9  | 85.3  |

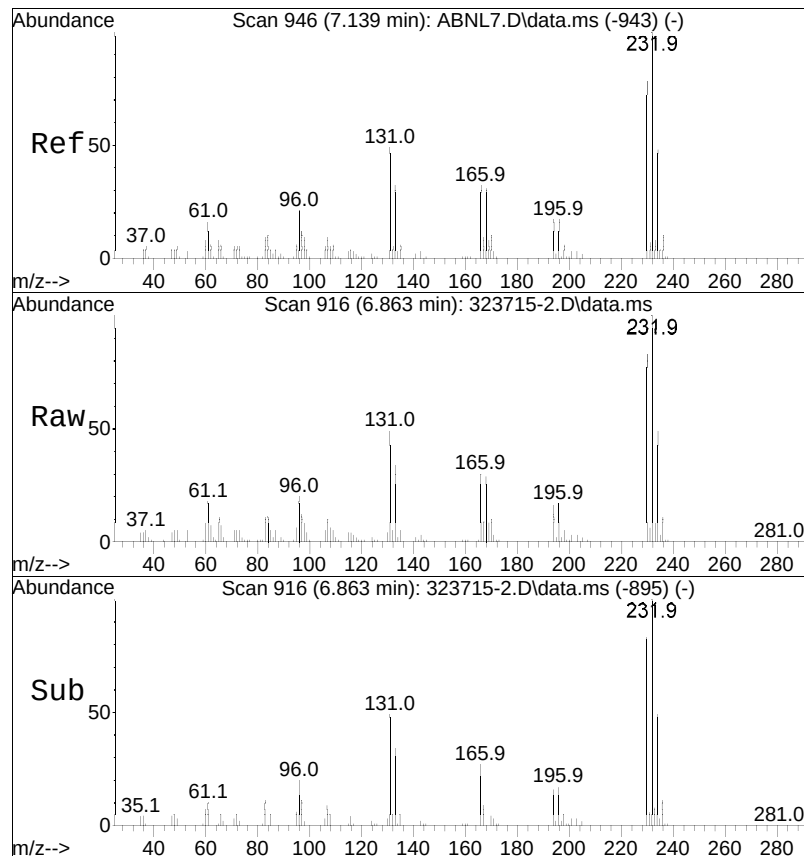




#69  
 4-Nitrophenol  
 Concen: 34.21 ug/ml  
 RT: 6.722 min Scan# 892  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

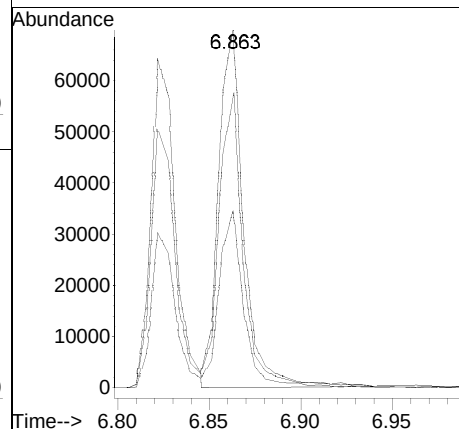
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 55262  |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 109       | 71.6  | 60.7  | 91.1   |
| 139       | 369.1 | 90.3  | 135.5# |



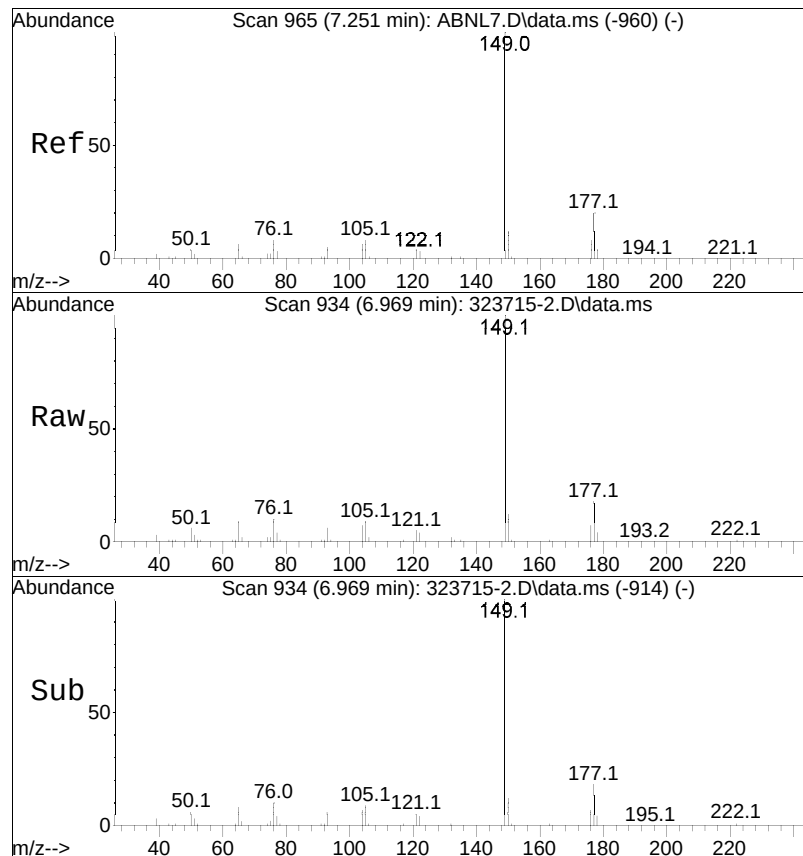


#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 27.83 ug/ml  
 RT: 6.863 min Scan# 916  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 232   | Resp: | 66136 |
| Ion Ratio | Lower | Upper |       |
| 232       | 100   |       |       |
| 230       | 80.6  | 61.6  | 92.4  |
| 234       | 47.9  | 39.0  | 58.6  |

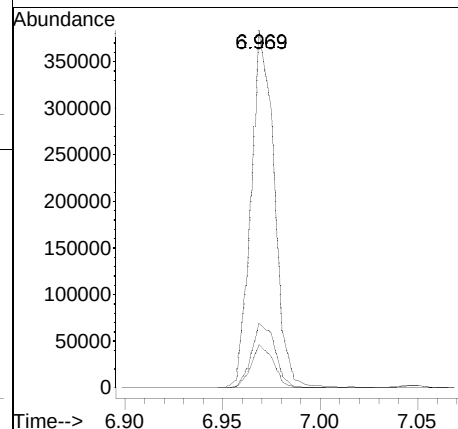


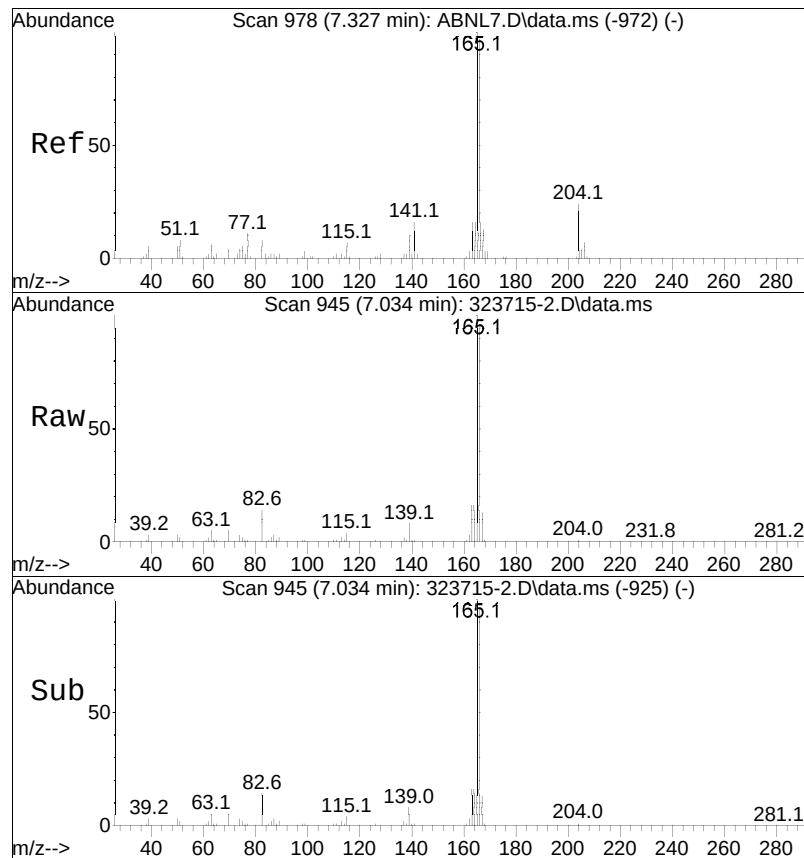




#72  
 Diethyl phthalate  
 Concen: 30.91 ug/ml  
 RT: 6.969 min Scan# 934  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

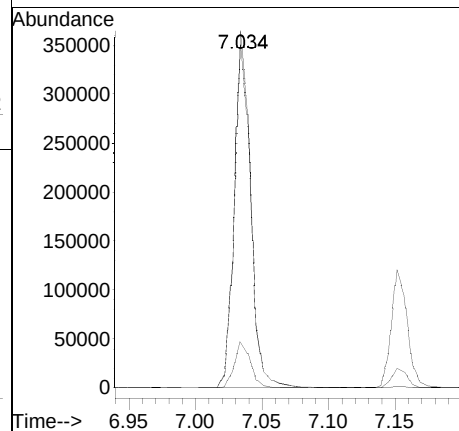
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 149 | 100  |       |       |       |
| 177 | 18.9 | 14.7  | 22.1  |       |
| 150 | 11.9 | 9.4   | 14.0  |       |

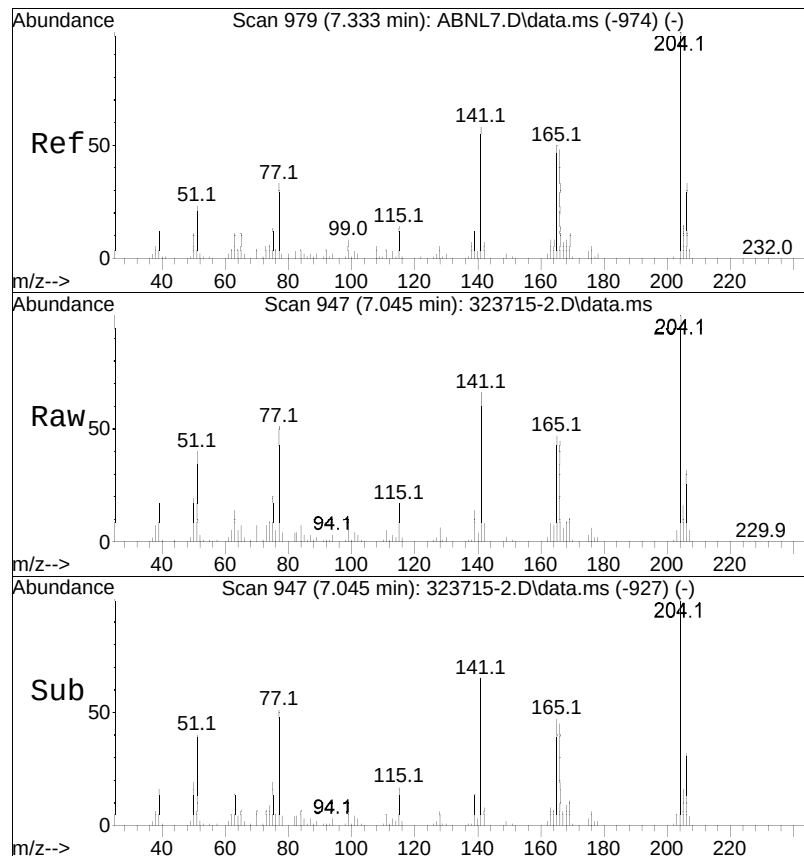




#73  
 Fluorene  
 Concen: 30.87 ug/ml  
 RT: 7.034 min Scan# 945  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

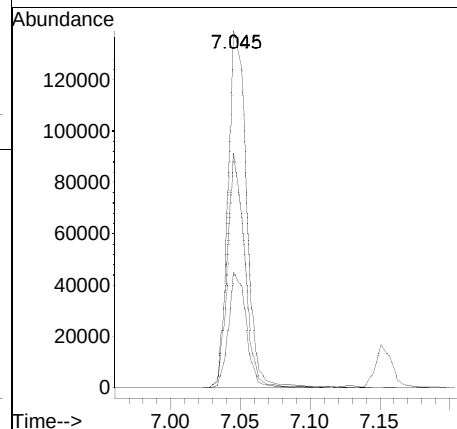
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 302556 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 104.3 | 76.7  | 115.1  |
| 167       | 13.4  | 11.0  | 16.4   |

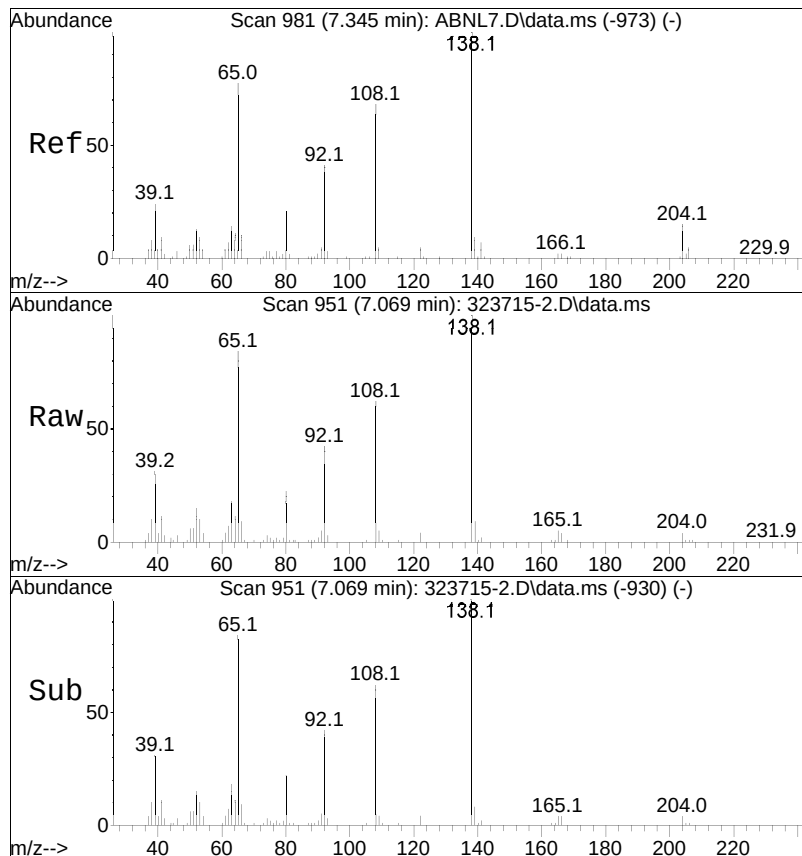




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 28.33 ug/ml  
 RT: 7.045 min Scan# 947  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

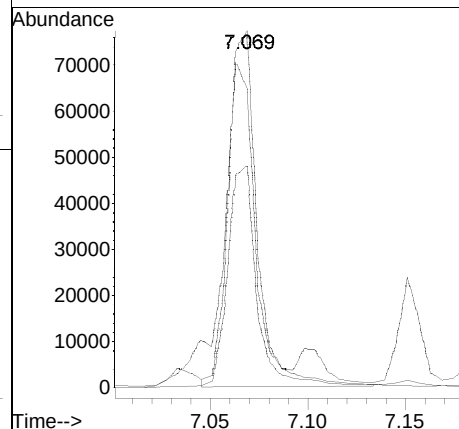
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 126937 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 31.8  | 25.8  | 38.6   |
| 141       | 61.1  | 56.2  | 84.4   |

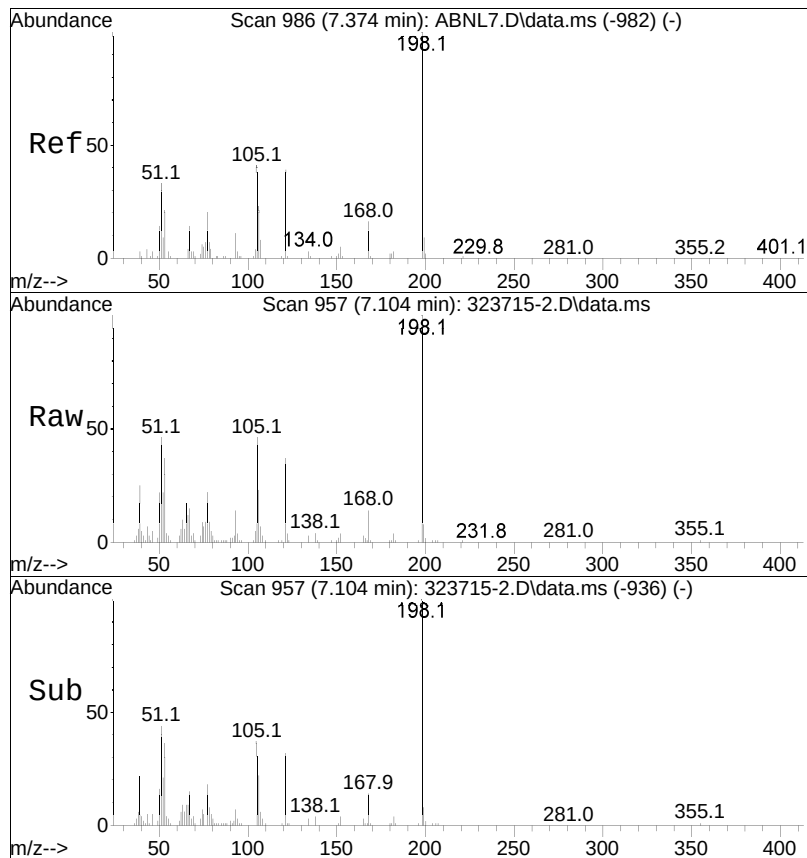




#75  
 4-Nitroaniline  
 Concen: 28.57 ug/ml  
 RT: 7.069 min Scan# 951  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

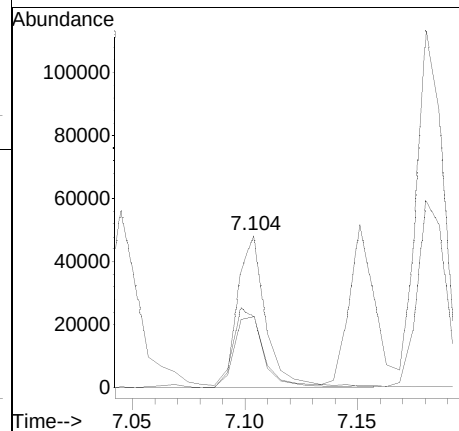
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 138   | Resp: | 78969 |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 108       | 64.7  | 54.2  | 81.4  |
| 65        | 101.3 | 88.2  | 132.4 |

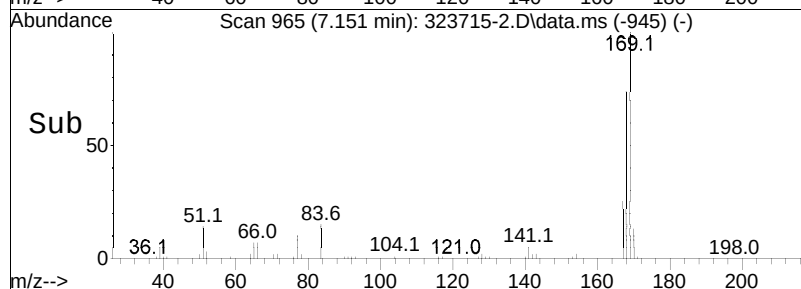
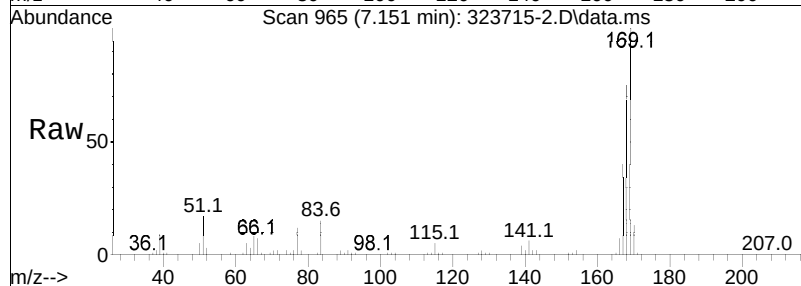
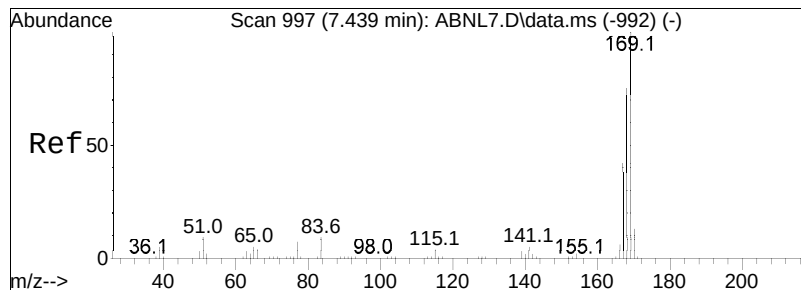




#76  
4,6-Dinitro-o-cresol  
Concen: 27.01 ug/ml  
RT: 7.104 min Scan# 957  
Delta R.T. -0.000 min  
Lab File: 323715-2.D  
Acq: 24 Dec 2019 1:04 am

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:198 | Resp: | 42475 |
| Ion | Ratio   | Lower | Upper |
| 198 | 100     |       |       |
| 51  | 50.3    | 41.0  | 61.4  |
| 105 | 49.1    | 49.0  | 73.4  |





#77

NDPA/DPA

Concen: 30.20 ug/ml

RT: 7.151 min Scan# 965

Delta R.T. -0.006 min

Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am

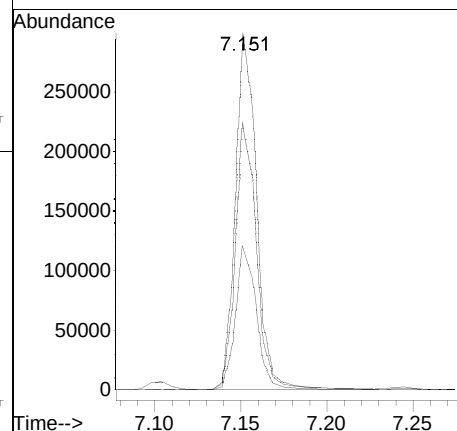
Tgt Ion:169 Resp: 255809

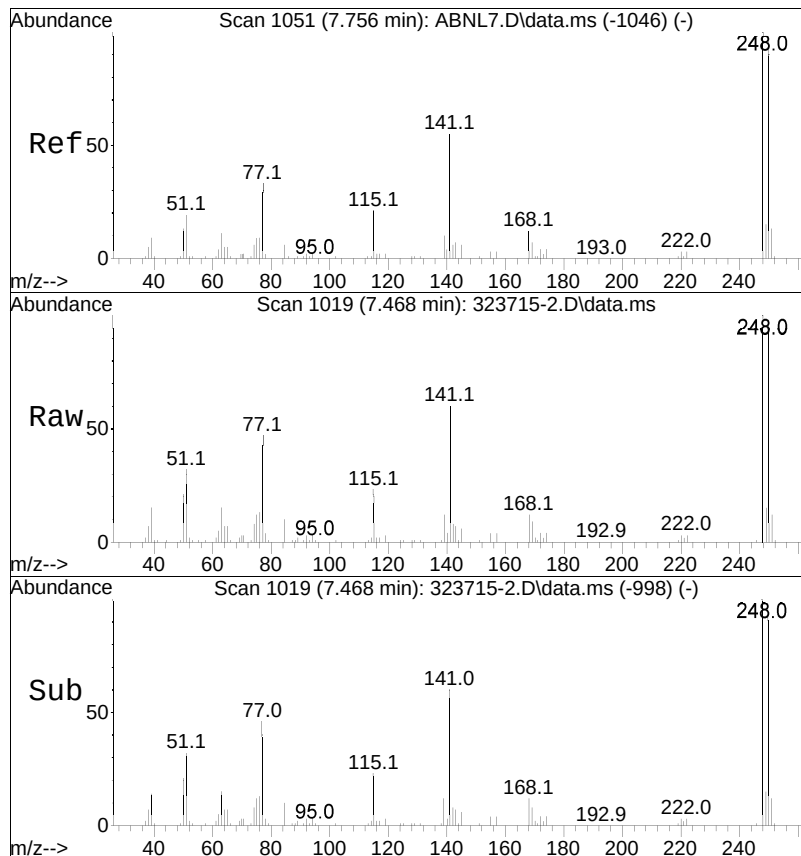
Ion Ratio Lower Upper

169 100

168 74.7 58.2 87.4

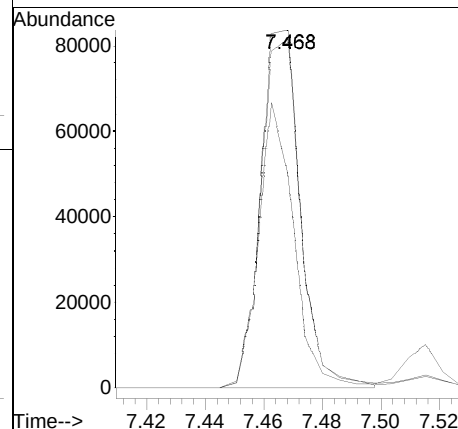
167 40.6 31.7 47.5

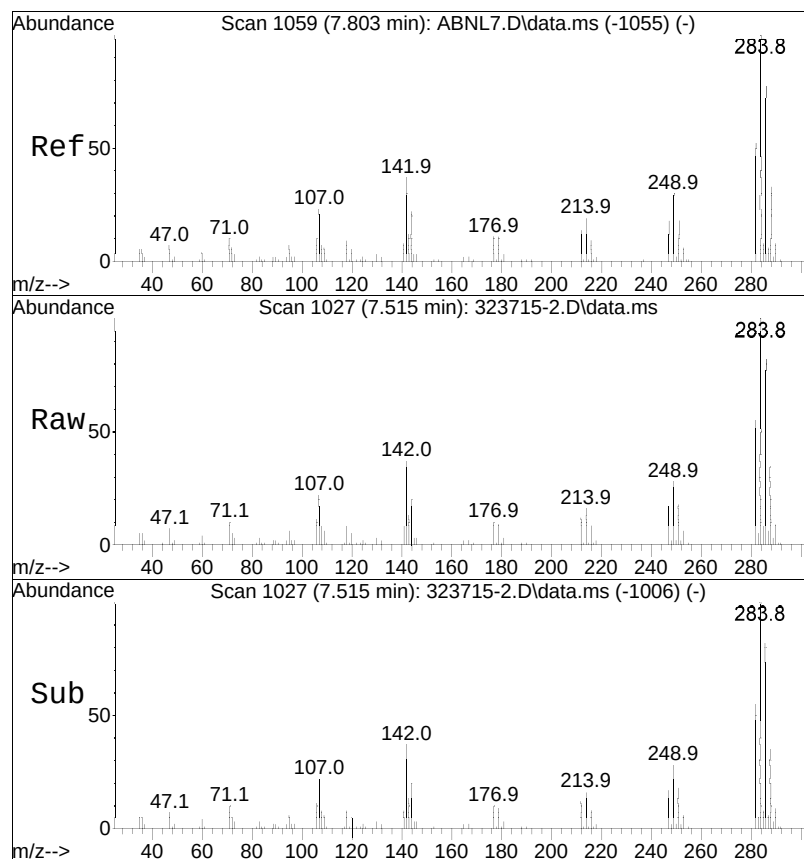




#80  
 4-Bromophenyl phenyl ether  
 Concen: 28.76 ug/ml  
 RT: 7.468 min Scan# 1019  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

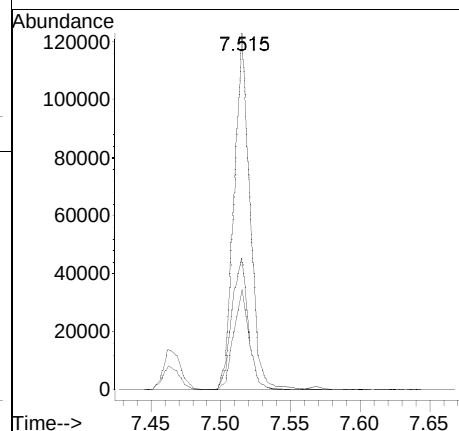
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 78335 |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 141       | 70.6  | 68.2  | 102.4 |
| 250       | 97.2  | 76.5  | 114.7 |



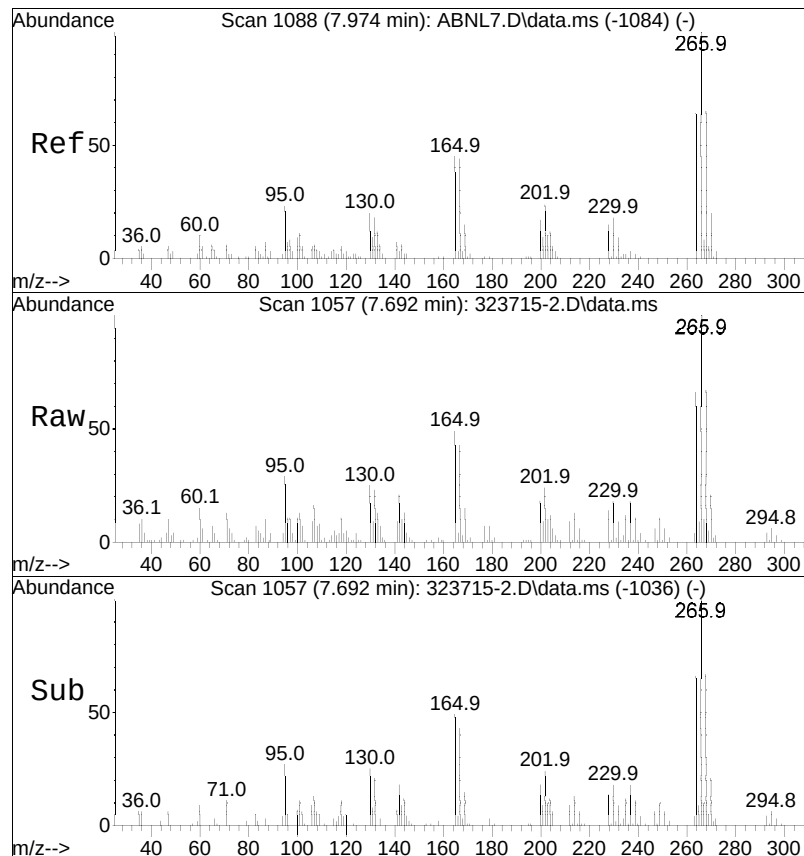


#81  
 Hexachlorobenzene  
 Concen: 29.87 ug/ml  
 RT: 7.515 min Scan# 1027  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.7  | 38.1  | 57.1  |
| 249     | 27.9  | 20.7  | 31.1  |

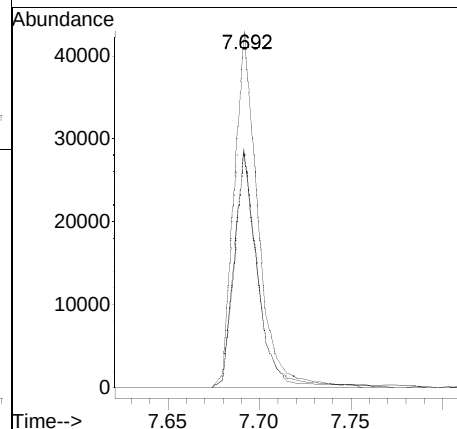


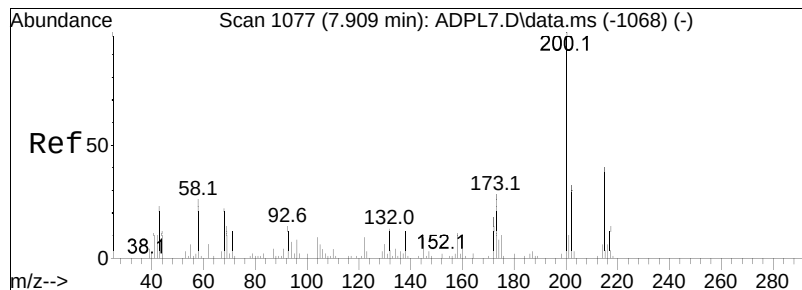




#82  
 Pentachlorophenol  
 Concen: 20.12 ug/ml  
 RT: 7.692 min Scan# 1057  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 39140 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 64.4  | 49.4  | 74.2  |
| 268       | 66.0  | 51.1  | 76.7  |





#87

Atrazine

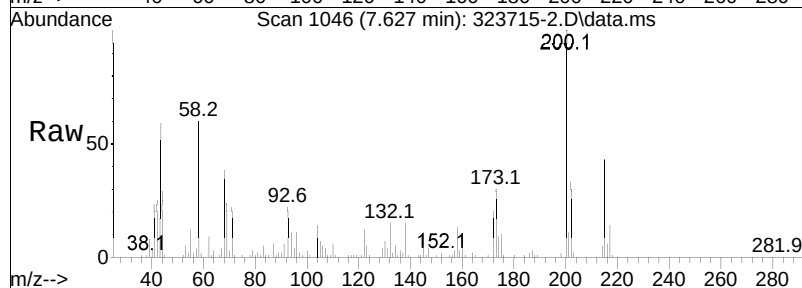
Concen: 26.80 ug/ml

RT: 7.627 min Scan# 1046

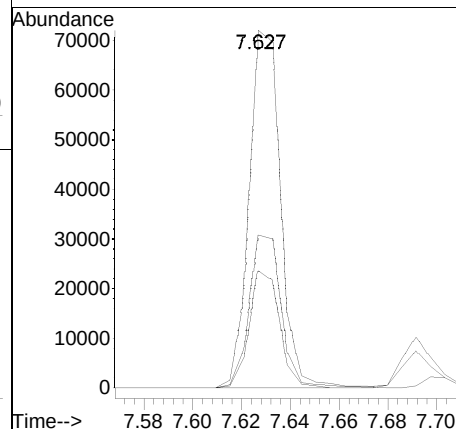
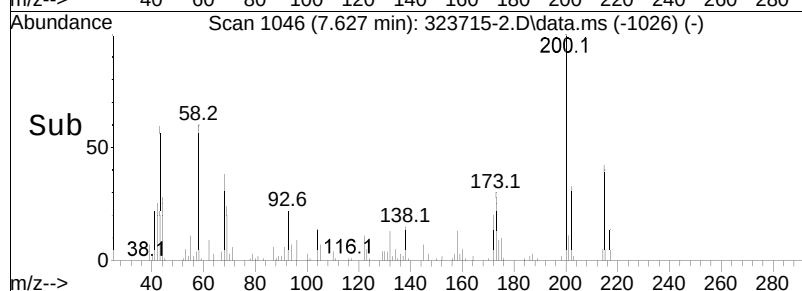
Delta R.T. -0.006 min

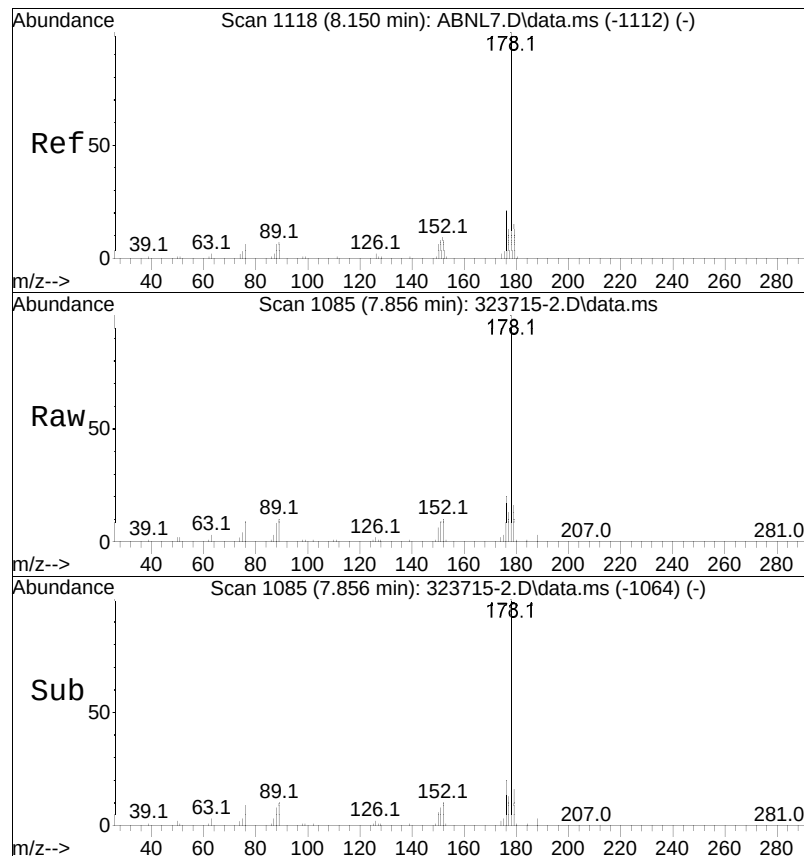
Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am



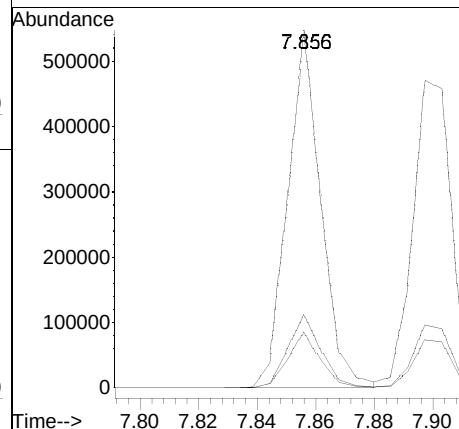
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:200 | Resp: | 64196 |
| Ion | Ratio   | Lower | Upper |
| 200 | 100     |       |       |
| 202 | 31.7    | 26.4  | 39.6  |
| 215 | 43.7    | 41.4  | 62.2  |

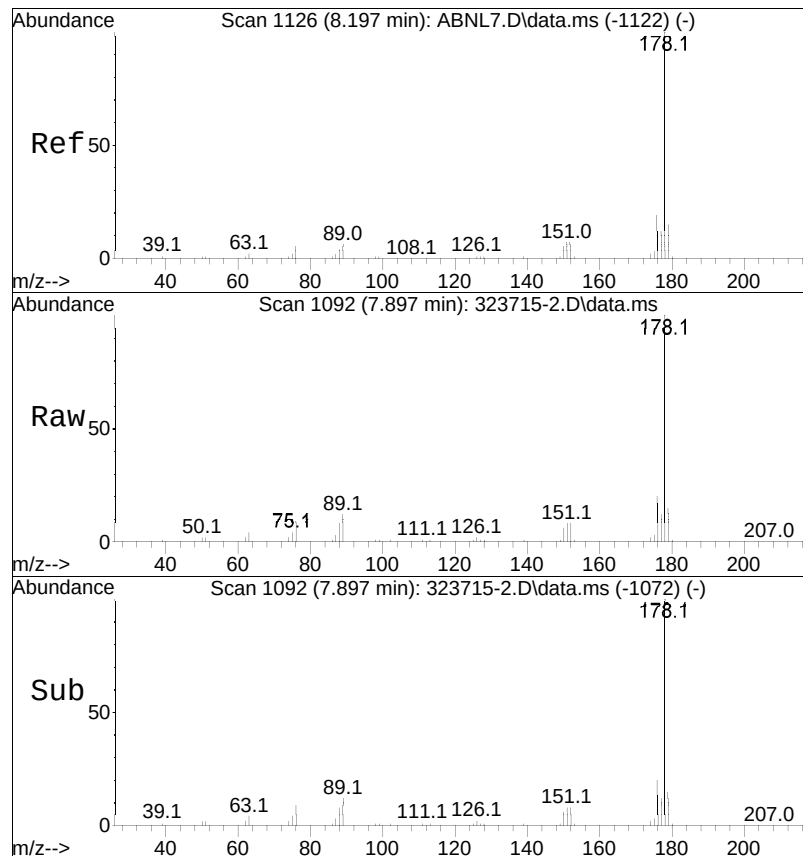




#89  
 Phenanthrene  
 Concen: 29.42 ug/ml  
 RT: 7.856 min Scan# 1085  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

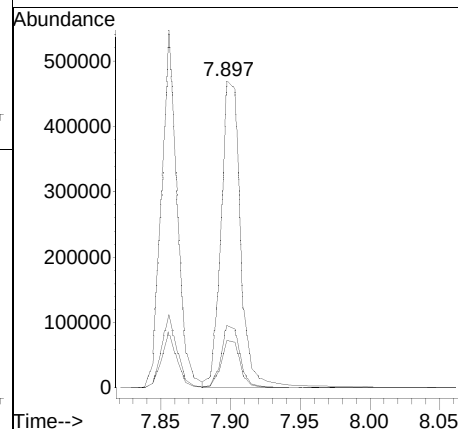
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 12.9  | 19.3  |
| 176     | 20.4  | 16.7  | 25.1  |

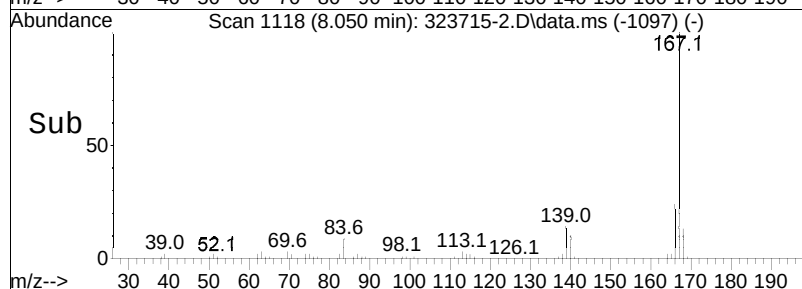
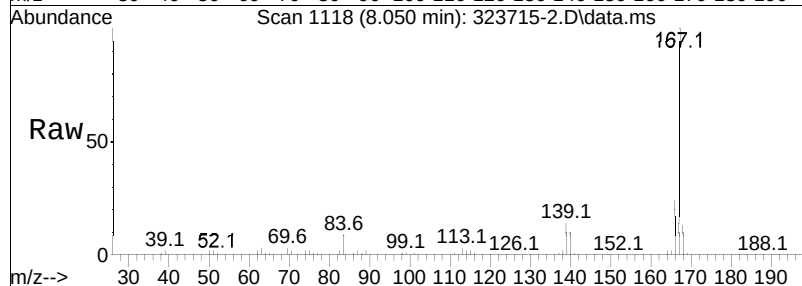
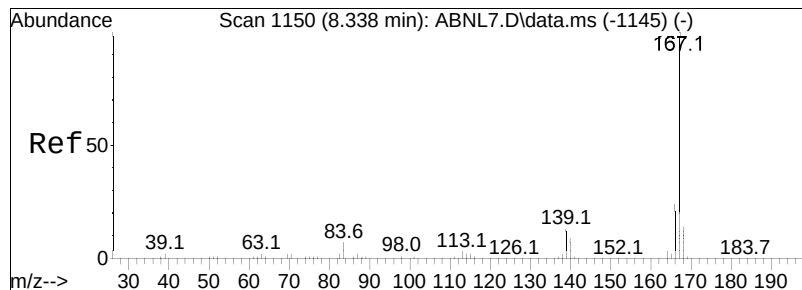




#90  
 Anthracene  
 Concen: 31.09 ug/ml  
 RT: 7.897 min Scan# 1092  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

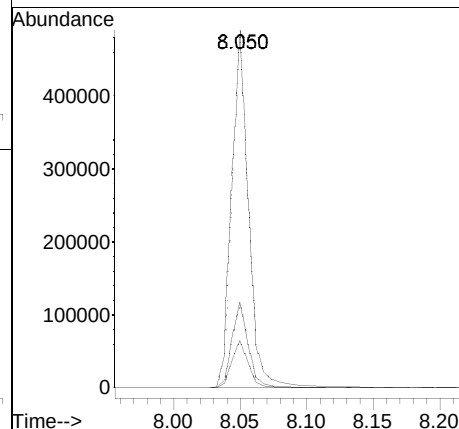
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 12.7  | 19.1  |
| 176     | 20.1  | 16.6  | 24.8  |

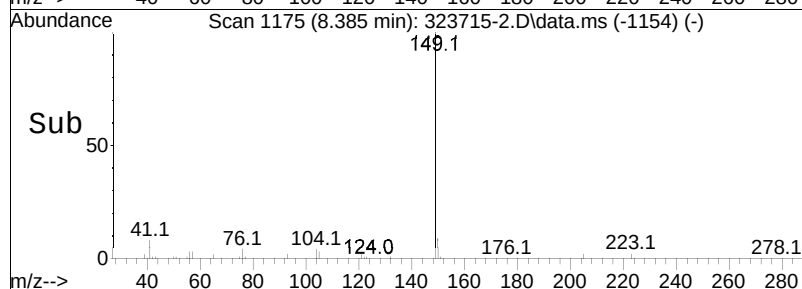
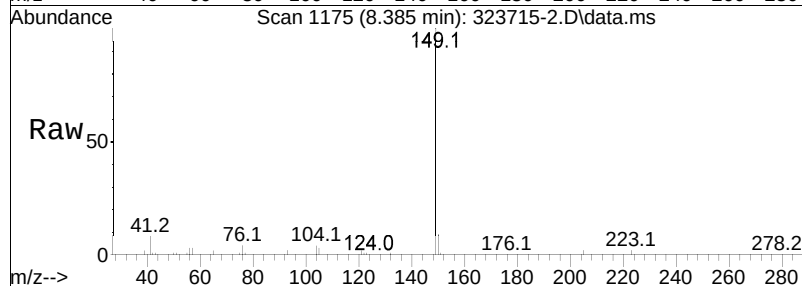
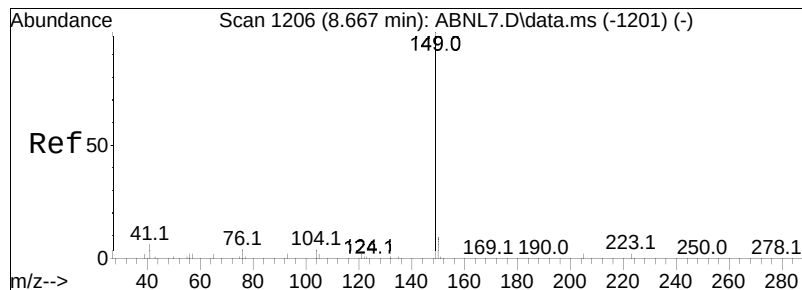




#91  
 Carbazole  
 Concen: 30.48 ug/ml  
 RT: 8.050 min Scan# 1118  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

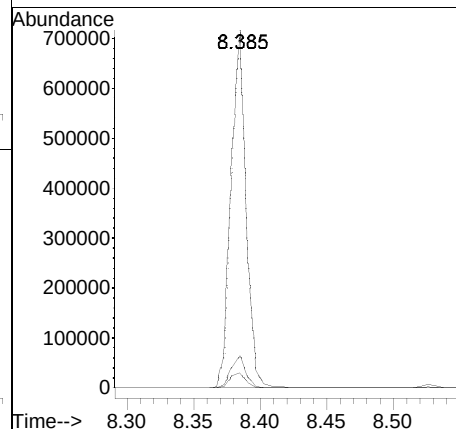
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 168     | 13.4  | 11.3  | 16.9  |
| 166     | 23.8  | 18.9  | 28.3  |

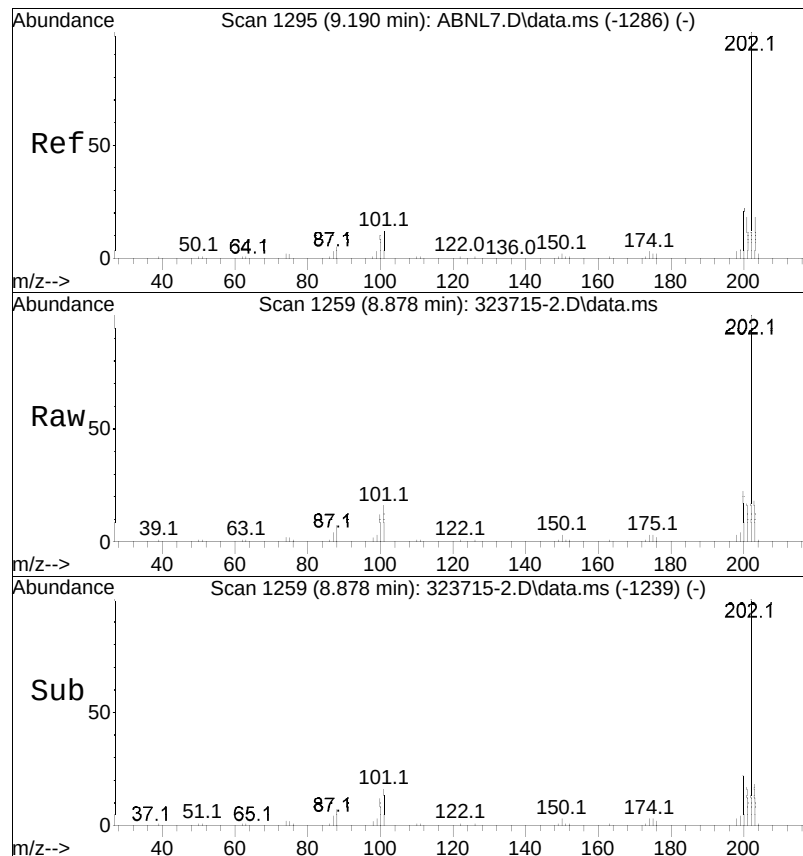




#92  
 Di-n-butylphthalate  
 Concen: 32.32 ug/ml  
 RT: 8.385 min Scan# 1175  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

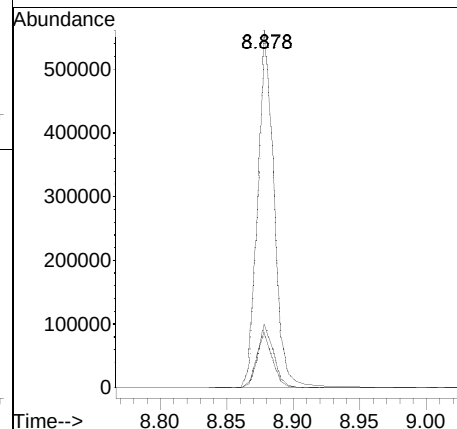
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 550947 |       |       |
| 150     | 9.1   |        | 7.8   | 11.6  |
| 104     | 4.5   |        | 4.8   | 7.2#  |

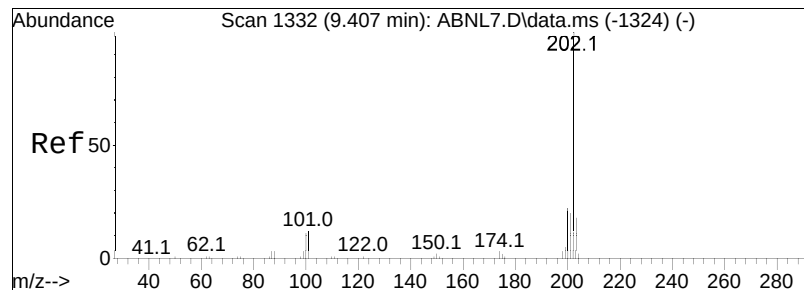




#93  
 Fluoranthene  
 Concen: 29.36 ug/ml  
 RT: 8.878 min Scan# 1259  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

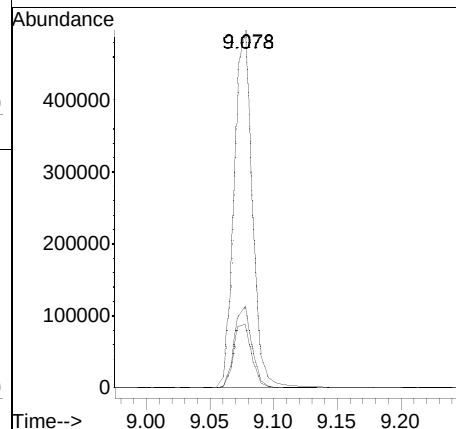
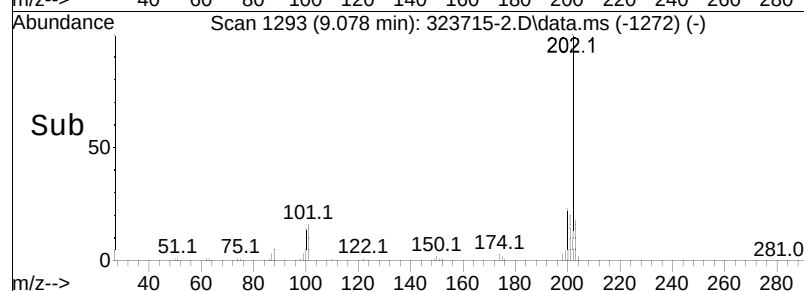
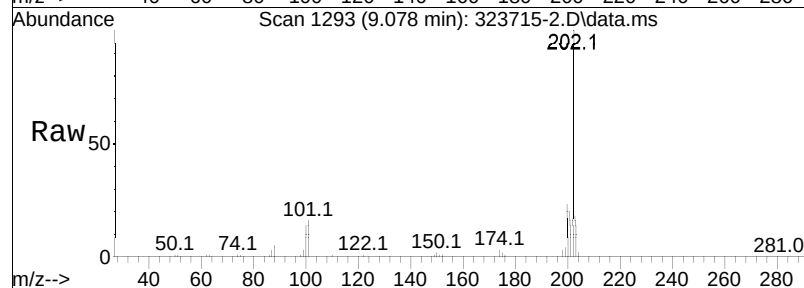
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 476780 |       |       |
| 101 | 15.3 |       |        | 18.6  | 28.0# |
| 203 | 17.7 |       |        | 14.2  | 21.2  |



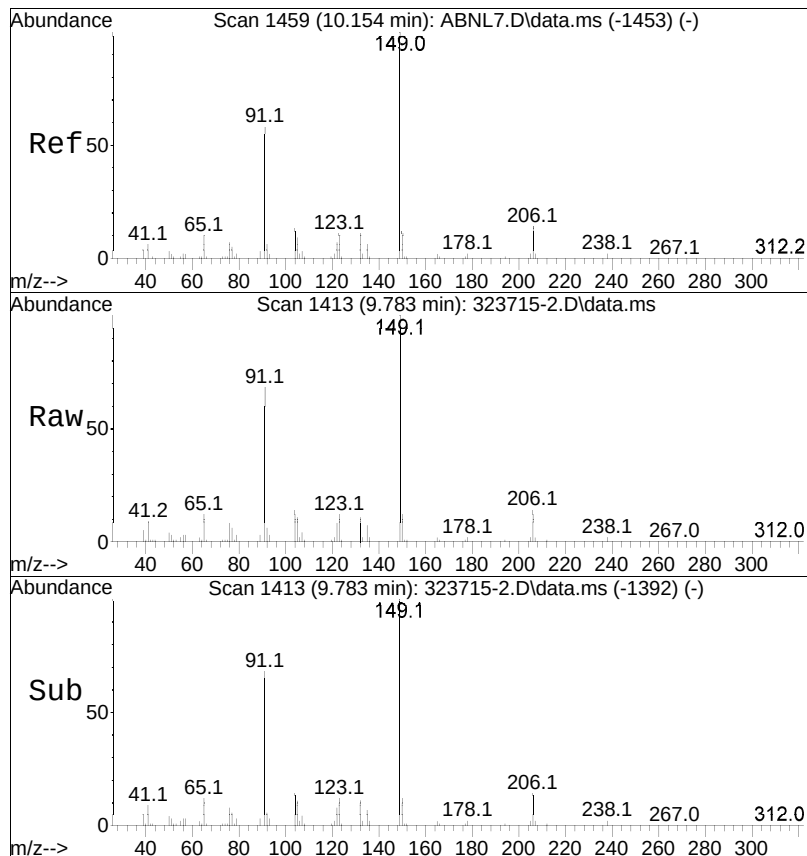


#95  
 Pyrene  
 Concen: 28.57 ug/ml  
 RT: 9.078 min Scan# 1293  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.7  | 17.8  | 26.8  |
| 203     | 18.2  | 14.7  | 22.1  |







#97

Butyl benzyl phthalate

Concen: 32.15 ug/ml

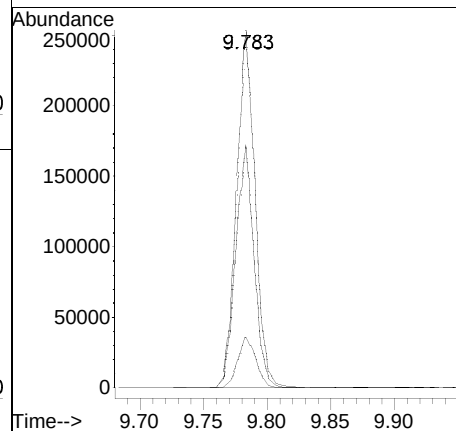
RT: 9.783 min Scan# 1413

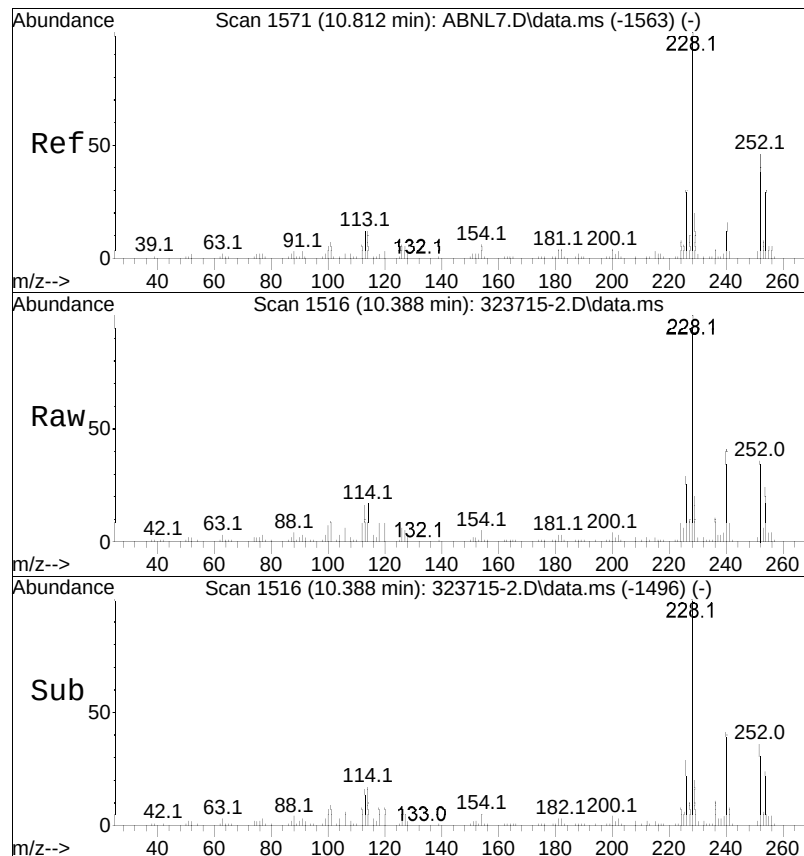
Delta R.T. -0.000 min

Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am

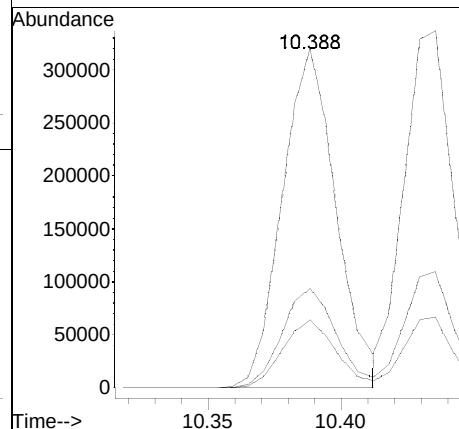
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 251254 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 68.6  | 69.0  | 103.6# |
| 206       | 14.4  | 11.8  | 17.8   |

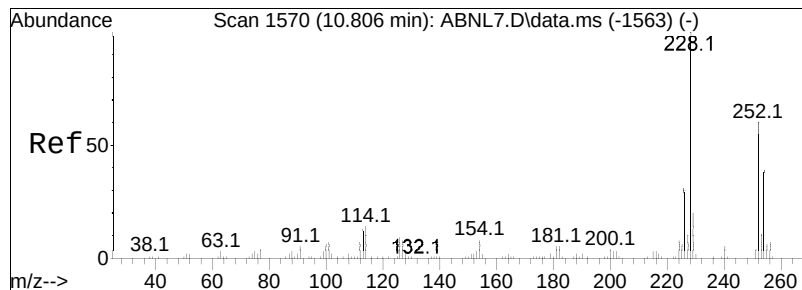




#105  
 Benzo(a)anthracene  
 Concen: 27.42 ug/ml  
 RT: 10.388 min Scan# 1516  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

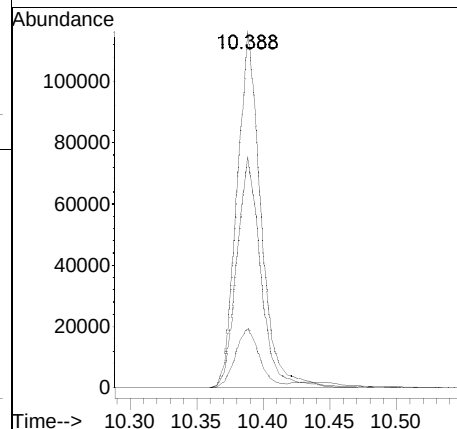
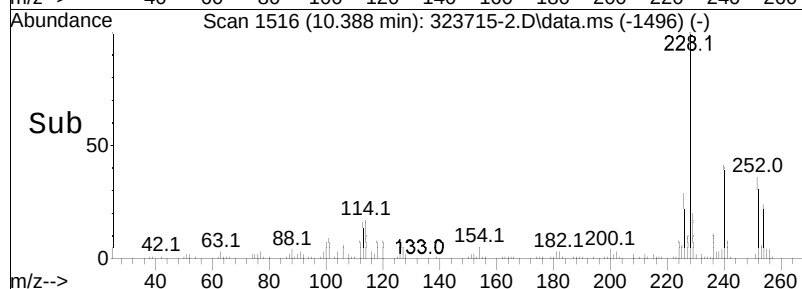
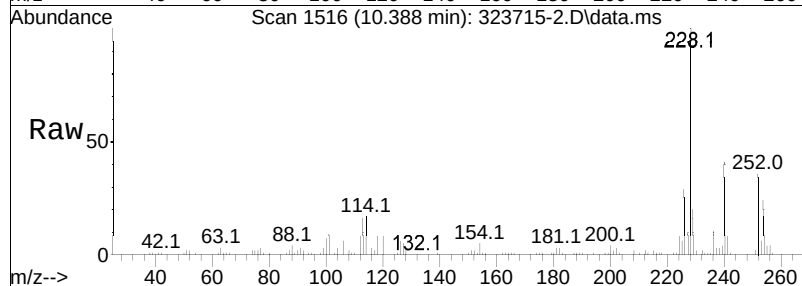
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 23.7  | 35.5  |
| 229     | 20.1  | 16.2  | 24.4  |

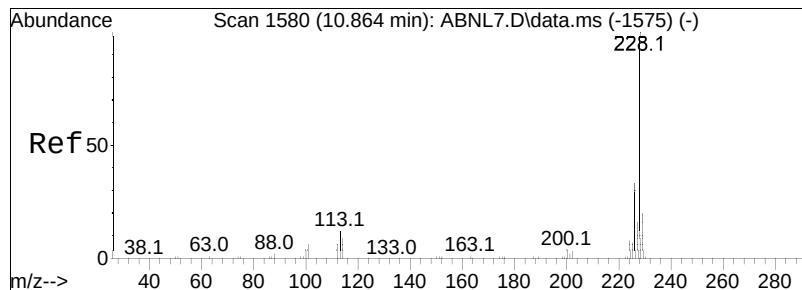




#106  
 3,3'-Dichlorobenzidine  
 Concen: 22.71 ug/ml  
 RT: 10.388 min Scan# 1516  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 126     | 17.0  | 17.8  | 26.6# |
| 254     | 64.7  | 51.8  | 77.6  |





#107

Chrysene

Concen: 28.11 ug/ml

RT: 10.435 min Scan# 1524

Delta R.T. -0.006 min

Lab File: 323715-2.D

Acq: 24 Dec 2019 1:04 am

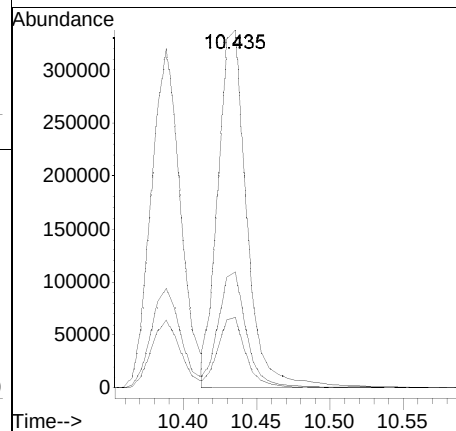
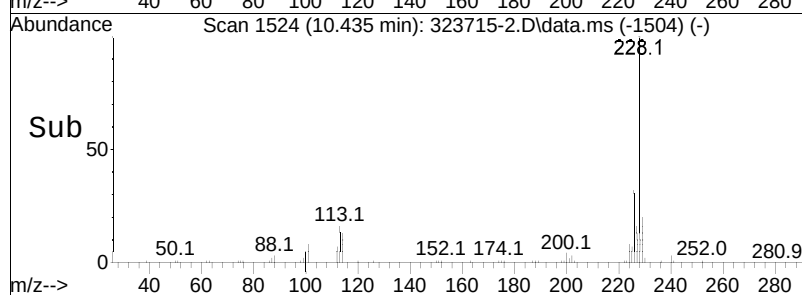
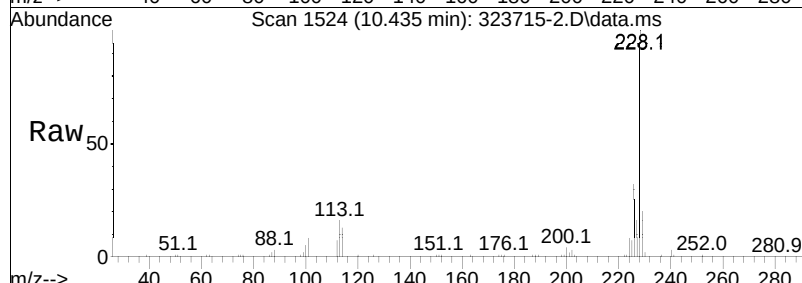
Tgt Ion: 228 Resp: 457478

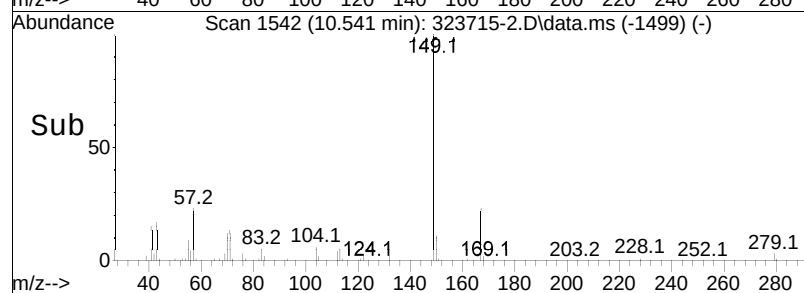
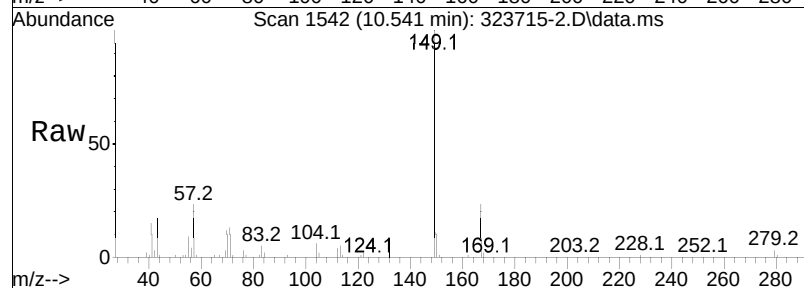
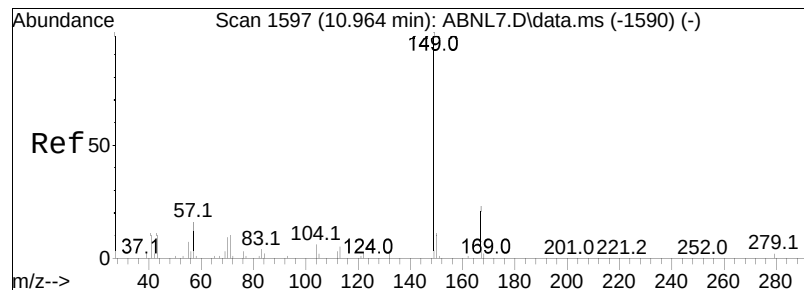
Ion Ratio Lower Upper

228 100

226 32.2 25.9 38.9

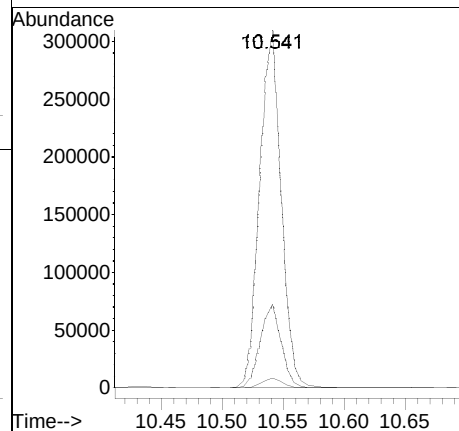
229 19.6 16.2 24.4

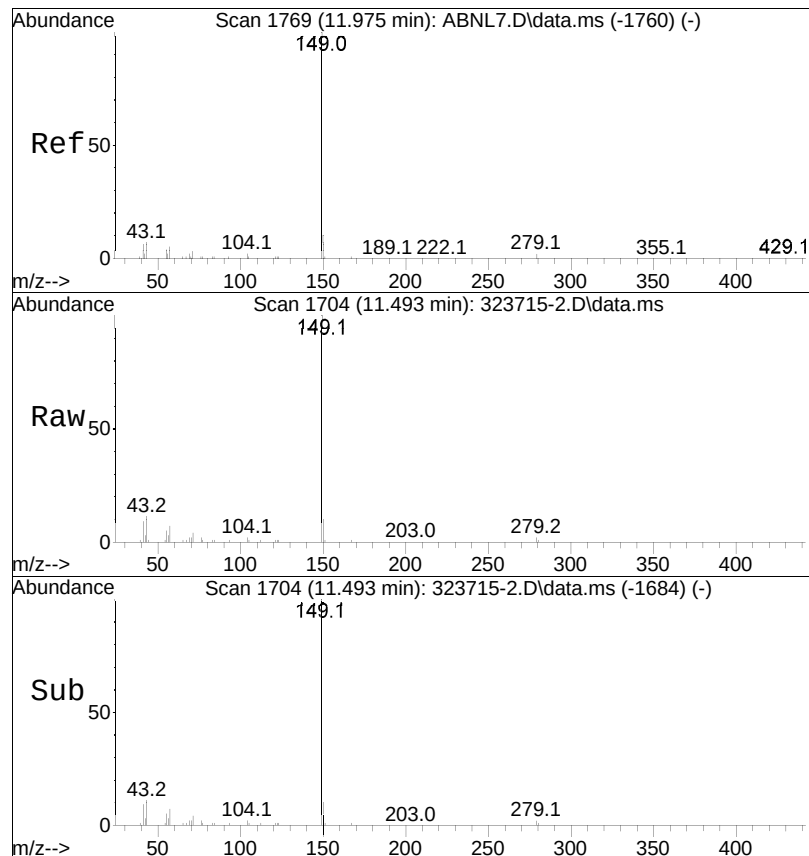




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 31.78 ug/ml  
 RT: 10.541 min Scan# 1542  
 Delta R.T. -0.000 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

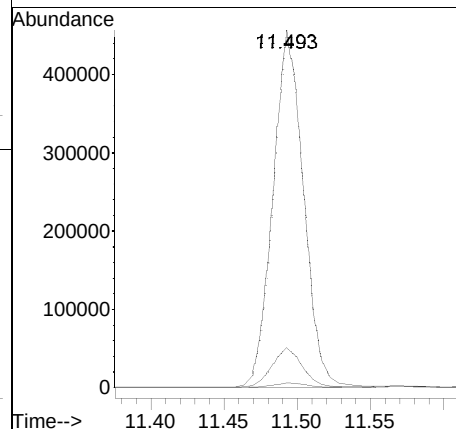
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 374036 |       |       |
| 167     | 23.0  |        | 21.0  | 31.4  |
| 279     | 2.6   |        | 3.6   | 5.4#  |

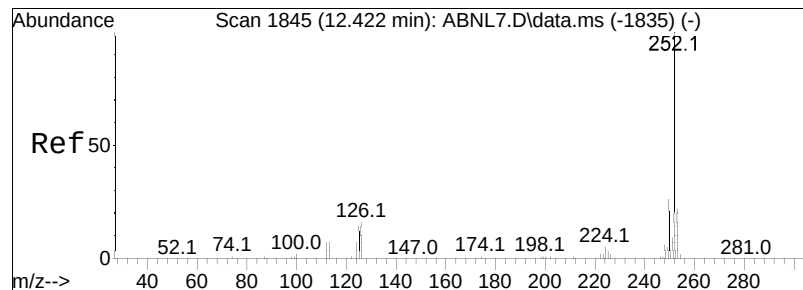




#109  
 Di-n-octylphthalate  
 Concen: 31.40 ug/ml  
 RT: 11.493 min Scan# 1704  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

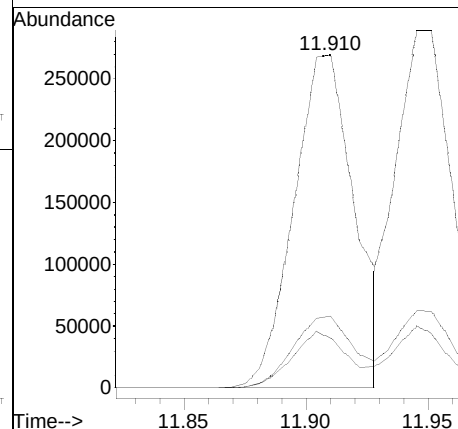
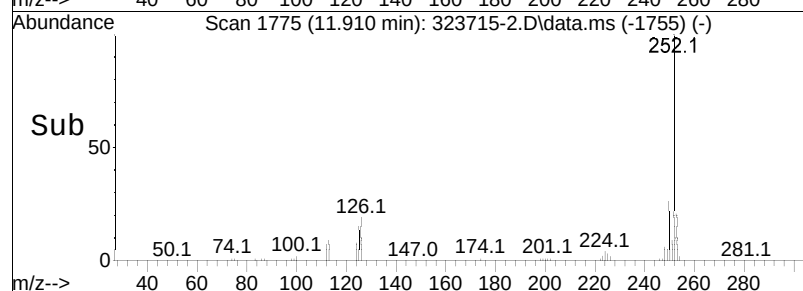
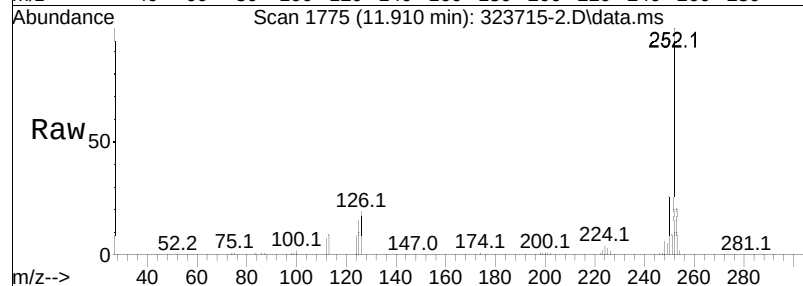
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:149 | Resp: | 652481 |
| Ion | Ratio   | Lower | Upper  |
| 149 | 100     |       |        |
| 43  | 11.1    | 8.4   | 12.6   |
| 167 | 1.2     | 1.0   | 1.6    |

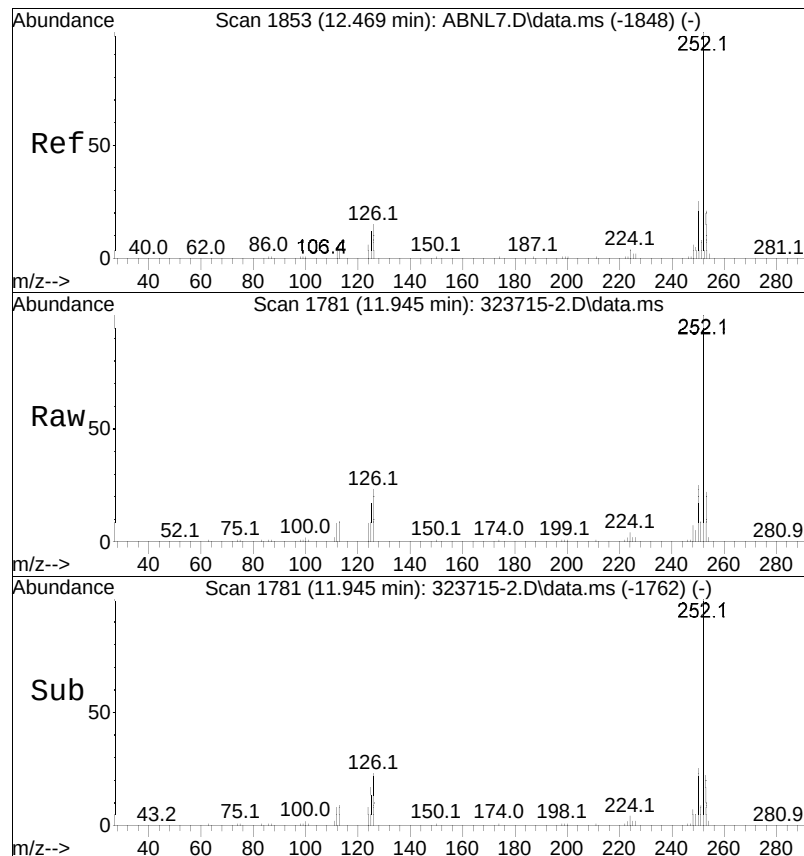




#110  
 Benzo(b)fluoranthene  
 Concen: 27.31 ug/ml  
 RT: 11.910 min Scan# 1775  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

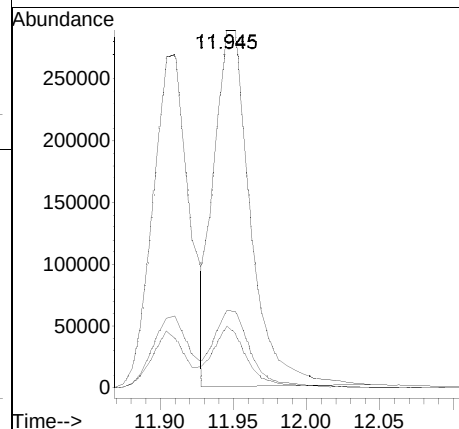
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 252 | 100  |       |       |       |
| 125 | 15.0 | 16.9  | 25.3# |       |
| 253 | 21.9 | 17.7  | 26.5  |       |



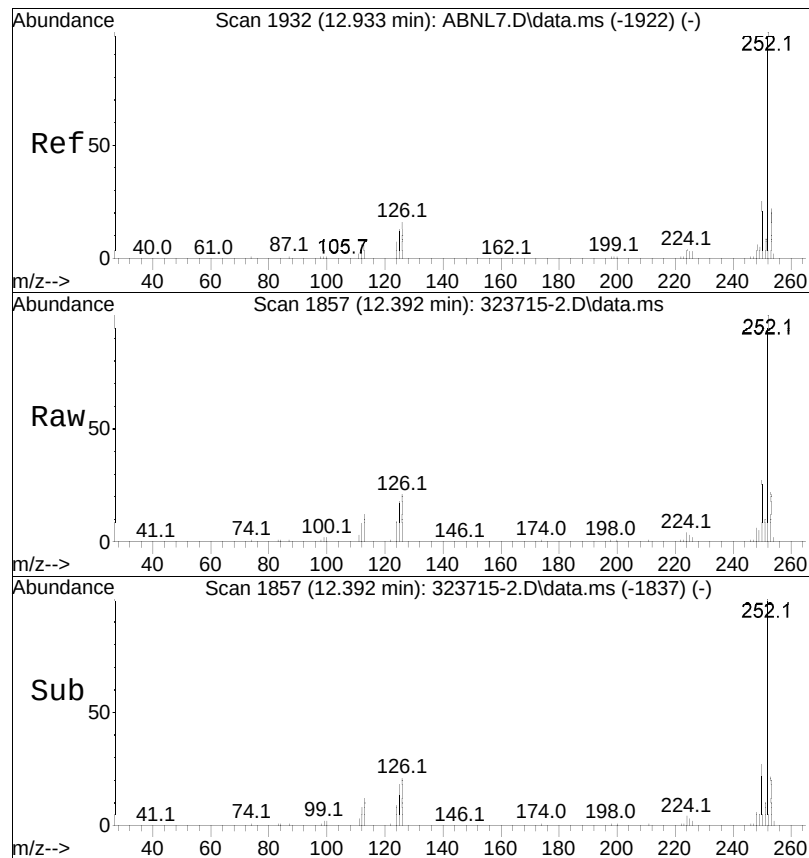


#111  
 Benzo(k)fluoranthene  
 Concen: 29.45 ug/ml  
 RT: 11.945 min Scan# 1781  
 Delta R.T. -0.012 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 500164 |       |       |
| 125 | 17.3 | 16.6  | 25.0   |       |       |
| 253 | 21.7 | 17.7  | 26.5   |       |       |

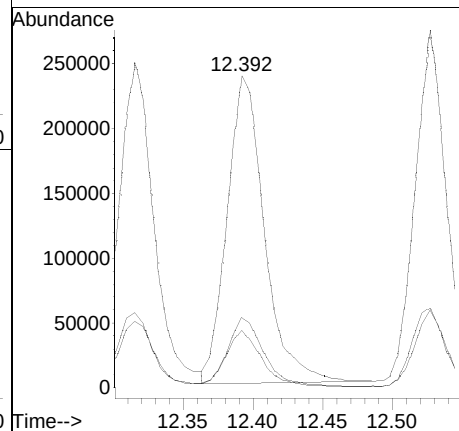


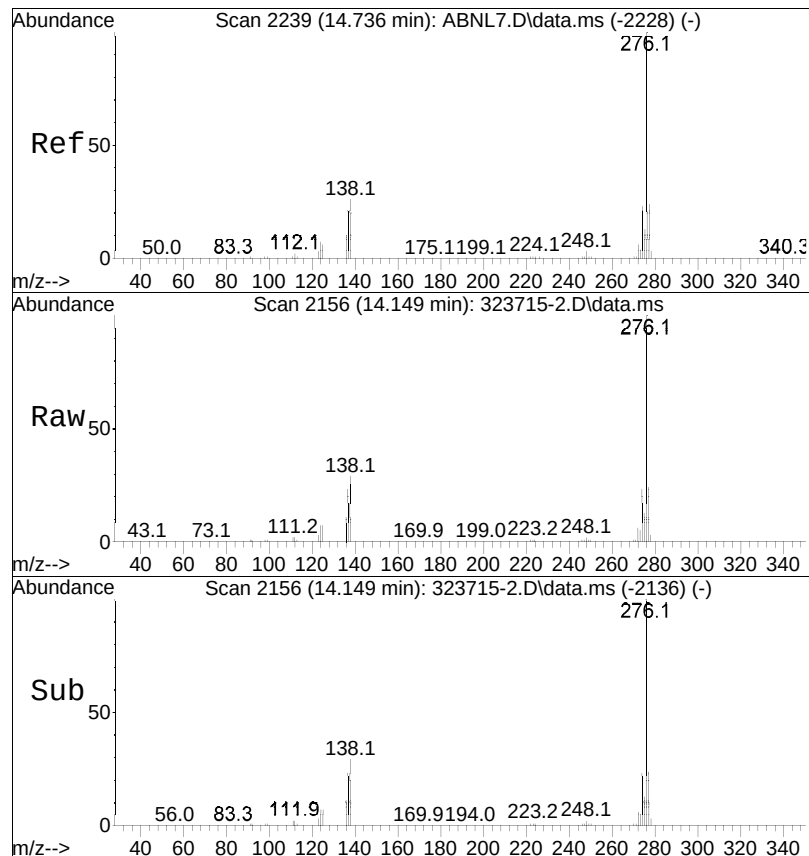




#112  
Benzo(a)pyrene  
Concen: 26.77 ug/ml  
RT: 12.392 min Scan# 1857  
Delta R.T. -0.006 min  
Lab File: 323715-2.D  
Acq: 24 Dec 2019 1:04 am

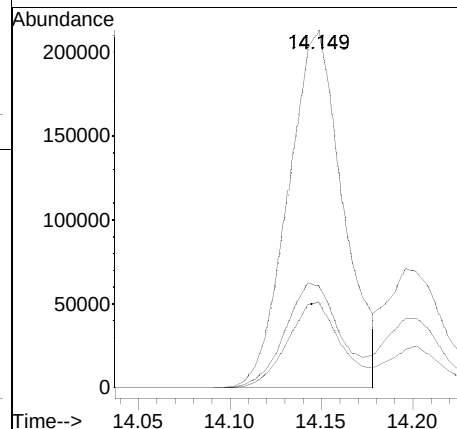
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 442387 |       |       |
| 125 | 17.8 | 18.3  | 27.5#  |       |       |
| 253 | 21.7 | 17.6  | 26.4   |       |       |

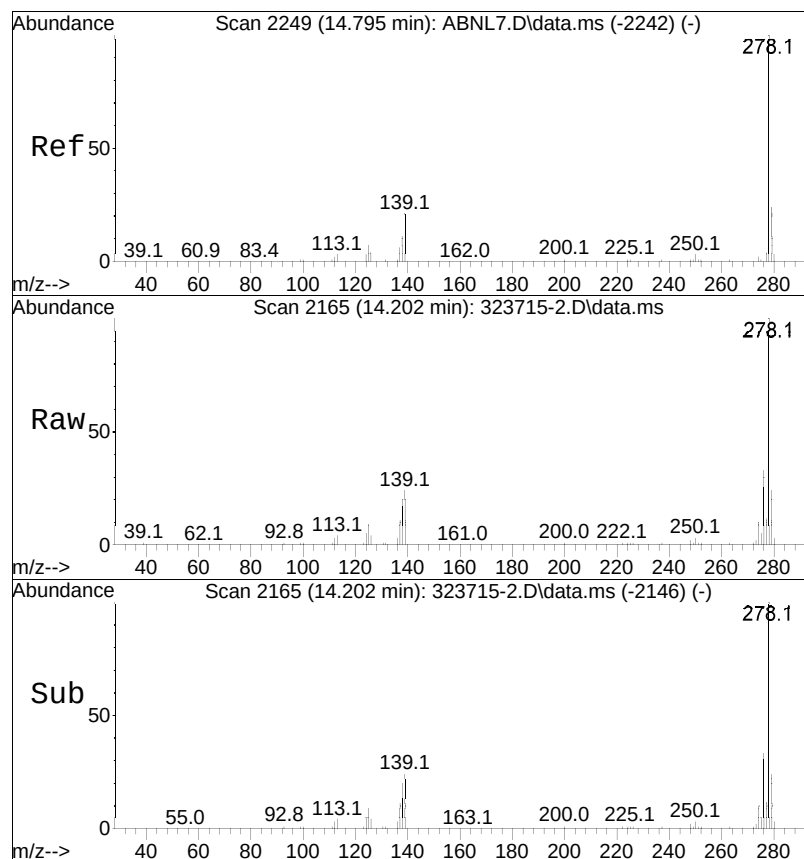




#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 30.05 ug/mL  
 RT: 14.149 min Scan# 2156  
 Delta R.T. -0.006 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

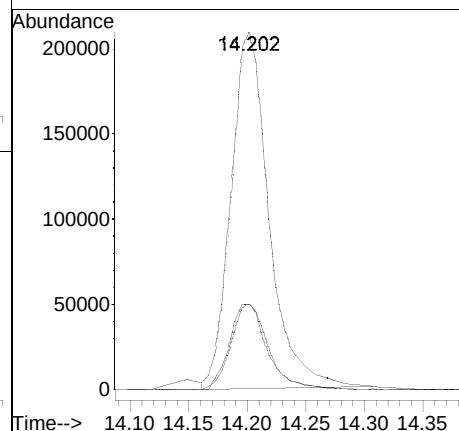
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 444852 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 29.2  | 29.6  | 44.4#  |
| 277       | 24.0  | 19.1  | 28.7   |

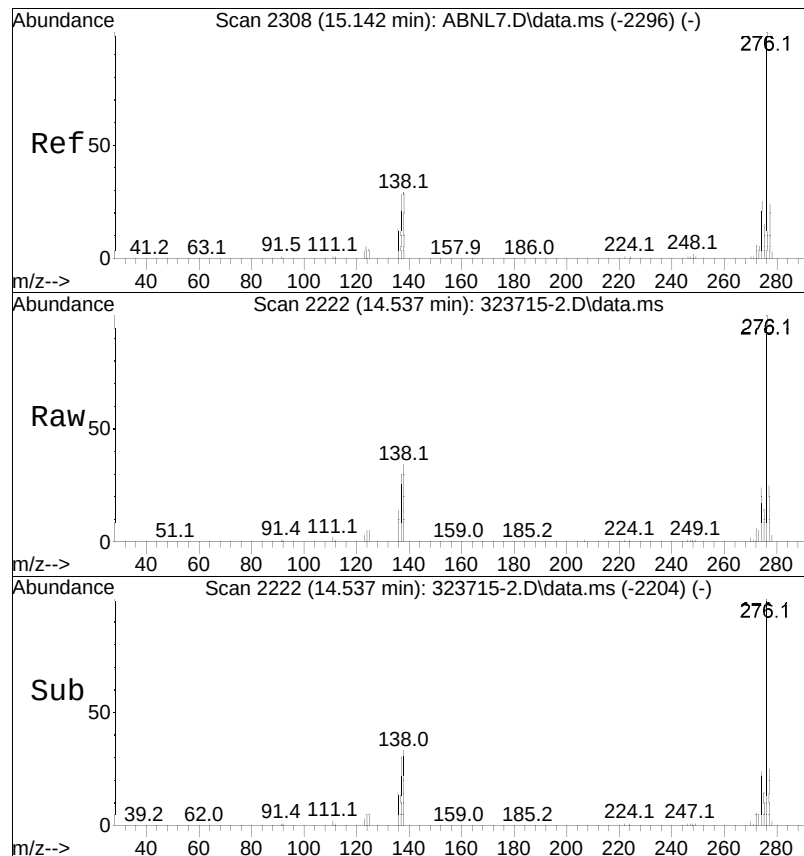




#115  
 Dibenzo(a,h)anthracene  
 Concen: 31.36 ug/ml  
 RT: 14.202 min Scan# 2165  
 Delta R.T. -0.012 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

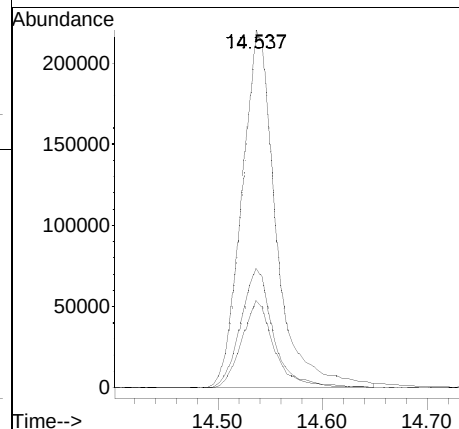
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 465609 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 24.7  | 24.7  | 37.1#  |
| 279       | 24.7  | 19.6  | 29.4   |





#116  
 Benzo(ghi)perylene  
 Concen: 32.22 ug/ml  
 RT: 14.537 min Scan# 2222  
 Delta R.T. -0.018 min  
 Lab File: 323715-2.D  
 Acq: 24 Dec 2019 1:04 am

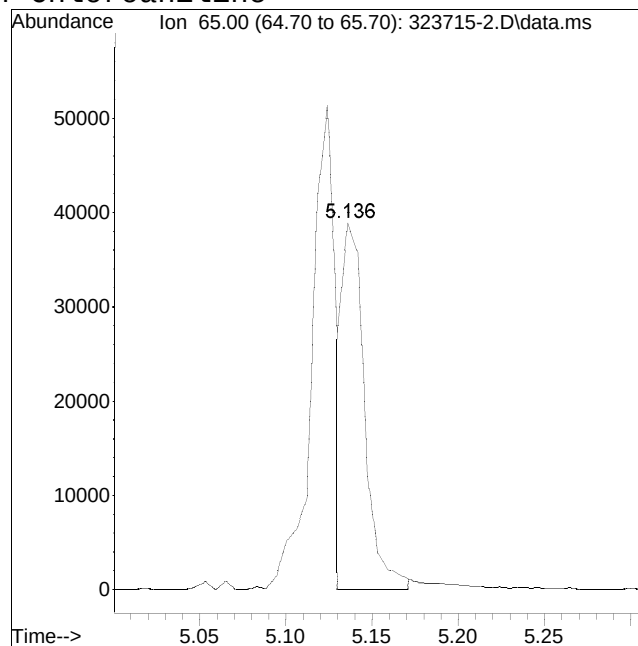
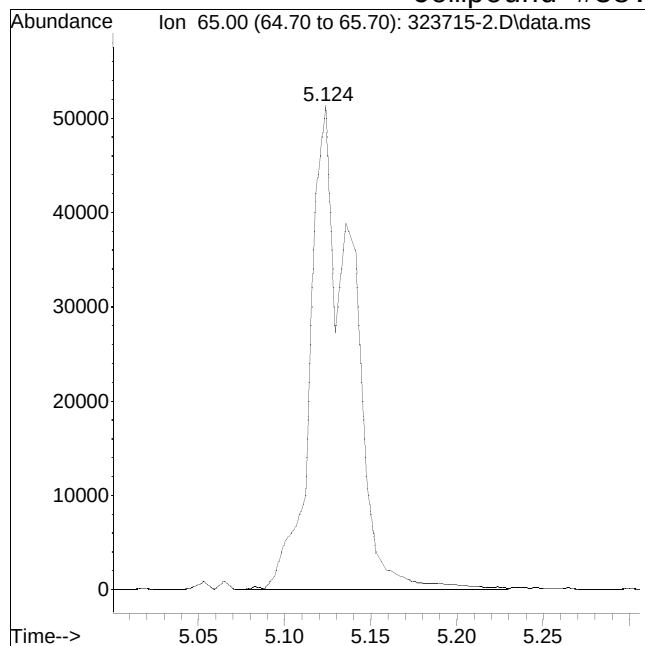
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 499649 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 32.4  | 43.5  | 65.3#  |
| 277       | 23.8  | 22.6  | 33.8   |



# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-2.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 1:04 am Instrument : Buffy  
Sample : wg1323715-2,32,,ny,ask Quant Date : 12/24/2019 10:35 am

## Compound #38: 4-Chloroaniline



Original Peak Response = 85823

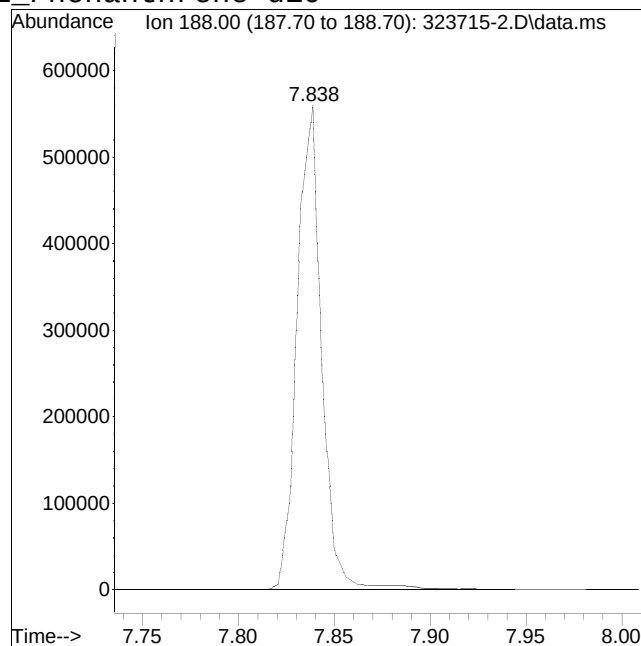
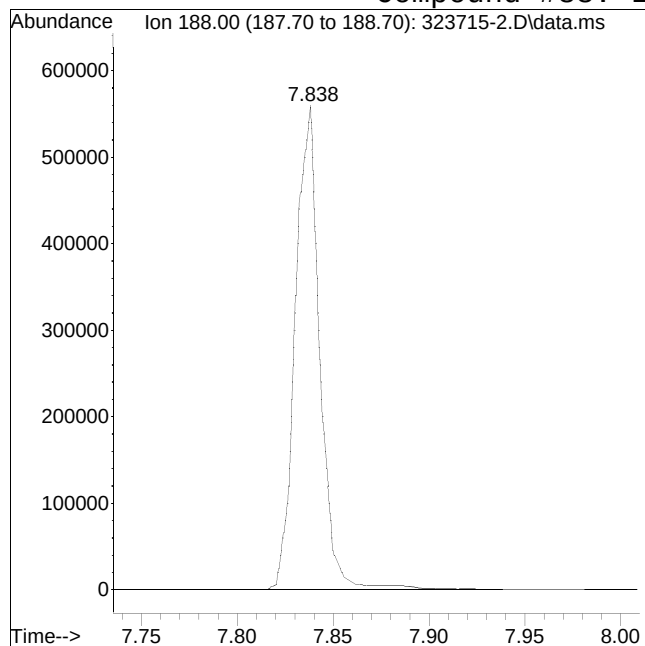
Manual Peak Response = 33658 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-2.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 1:04 am Instrument : Buffy  
Sample : wg1323715-2,32,,ny,ask Quant Date : 12/24/2019 10:35 am

## Compound #88: IS1 Phenanthrene-d10



Original Peak Response = 501968

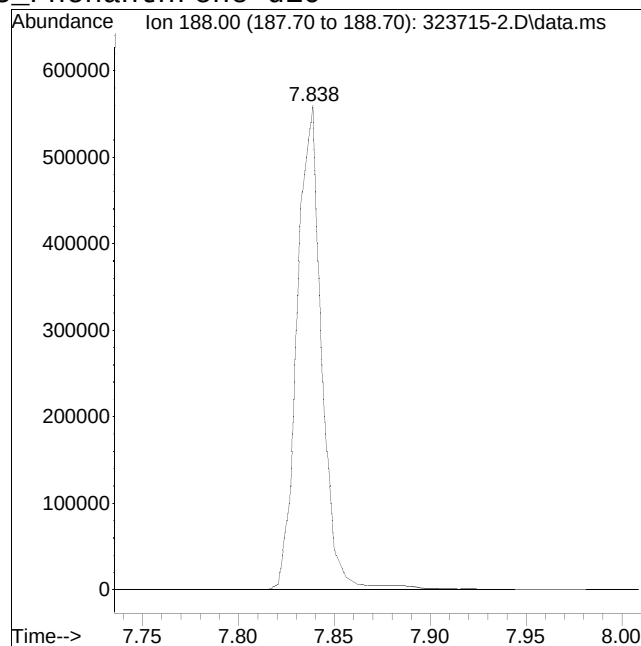
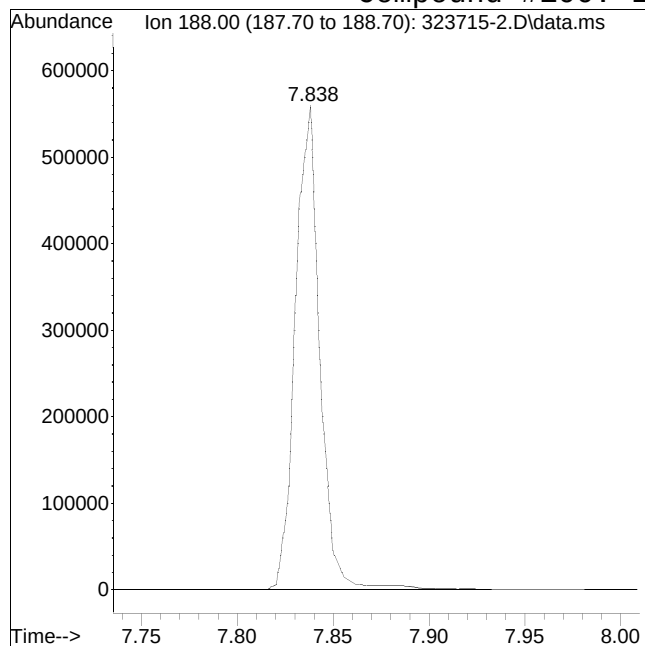
Manual Peak Response = 502202 M2

M2 = Peak not found by automatic integration algorithm.

# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\      QMethod : FS191006buffy.m  
Data File : 323715-2.D                    Operator : Buffy:jg  
Date Inj'd : 12/24/2019 1:04 am          Instrument : Buffy  
Sample : wg1323715-2,32,,ny,ask        Quant Date : 12/24/2019 10:35 am

## Compound #100: IS3 Phenanthrene-d10



Original Peak Response = 501548

Manual Peak Response = 502202 M2

M2 = Peak not found by automatic integration algorithm.

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-3.D  
 Acq On : 24 Dec 2019 1:27 am  
 Operator : Buffy:jg  
 Sample : wg1323715-3,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 24 10:56:49 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response   | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|--------|-------|----------|
| Internal Standards            |                |      |            |        |       |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.985          | 152  | 115236M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 159664      |                |      | Recovery = | 72.17% |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.985          | 152  | 115236M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 177213      |                |      | Recovery = | 65.03% |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.985          | 152  | 115236M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 166995      |                |      | Recovery = | 69.01% |       |          |
| 35) IS1_Naphthalene-d8        | 5.060          | 136  | 468342     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 632580      |                |      | Recovery = | 74.04% |       |          |
| 55) IS2_Naphthalene-d8        | 5.060          | 136  | 468342     | 40.000 | ug/ml | 0.00     |
| Standard Area 3 = 704834      |                |      | Recovery = | 66.45% |       |          |
| 63) IS1_Acenaphthene-d10      | 6.564          | 164  | 252898     | 40.000 | ug/ml | # 0.00   |
| Standard Area 1 = 336073      |                |      | Recovery = | 75.25% |       |          |
| 83) IS2_Acenaphthene-d10      | 6.564          | 164  | 252898     | 40.000 | ug/ml | # 0.00   |
| Standard Area 3 = 375542      |                |      | Recovery = | 67.34% |       |          |
| 86) IS3_Acenaphthene-d10      | 6.564          | 164  | 252898     | 40.000 | ug/ml | # 0.00   |
| Standard Area 2 = 358199      |                |      | Recovery = | 70.60% |       |          |
| 88) IS1_Phenanthrene-d10      | 7.833          | 188  | 483296M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 621349      |                |      | Recovery = | 77.78% |       |          |
| 100) IS3_Phenanthrene-d10     | 7.833          | 188  | 483296M2   | 40.000 | ug/ml | 0.00     |
| Standard Area 2 = 703501      |                |      | Recovery = | 68.70% |       |          |
| 104) IS1_Chrysene-d12         | 10.401         | 240  | 494636     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 640997      |                |      | Recovery = | 77.17% |       |          |
| 113) IS1_Perylene-d12         | 12.486         | 264  | 545616     | 40.000 | ug/ml | 0.00     |
| Standard Area 1 = 708691      |                |      | Recovery = | 76.99% |       |          |
| System Monitoring Compounds   |                |      |            |        |       |          |
| 4) 2-Fluorophenol             | 2.939          | 112  | 139641     | 37.352 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 74.70% |       |          |
| 7) Phenol-d6                  | 3.720          | 99   | 180243     | 40.486 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 80.97% |       |          |
| 19) Nitrobenzene-d5           | 4.455          | 82   | 72937      | 15.460 | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 61.84% |       |          |
| 46) 2-Fluorobiphenyl          | 6.000          | 172  | 160071     | 13.979 | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 55.92% |       |          |
| 79) 2,4,6-Tribromophenol      | 7.245          | 330  | 61157      | 41.390 | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 82.78% |       |          |



## Quantitation Report (QT Reviewed)

Data Path : I:\8270\Buffy\191223n\  
 Data File : 323715-3.D  
 Acq On : 24 Dec 2019 1:27 am  
 Operator : Buffy:jg  
 Sample : wg1323715-3,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 24 10:56:49 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
 : 2 - I:\8270\Buffy\191223n\ADP1223n.D  
 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| 96) 4-Terphenyl-d14           | 9.249  | 244   | 190333   | 14.140   | ug/ml  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 56.56%   |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 6) 2-Chlorophenol             | 3.814  | 128   | 130859   | 31.768   | ug/ml  | 97       |
| 8) Phenol                     | 3.732  | 94    | 162471   | 31.610   | ug/ml  | 91       |
| 9) Bis(2-chloroethyl)ether    | 3.779  | 93    | 98611    | 27.315   | ug/ml# | 86       |
| 14) Bis(2-chloroisopropyl)... | 4.237  | 45    | 187603   | 37.980   | ug/ml# | 78       |
| 15) 2-Methylphenol            | 4.231  | 108   | 119006   | 32.839   | ug/ml  | 99       |
| 16) Hexachloroethane          | 4.408  | 117   | 53077    | 29.250   | ug/ml# | 71       |
| 17) n-Nitrosodi-n-propylamine | 4.343  | 70    | 79214    | 31.040   | ug/ml  | 98       |
| 18) 3-Methylphenol/4-Methy... | 4.366  | 108   | 122163   | 31.996   | ug/ml  | 97       |
| 20) Nitrobenzene              | 4.472  | 77    | 113918   | 29.762   | ug/ml  | 91       |
| 21) Isophorone                | 4.678  | 82    | 225783   | 31.749   | ug/ml  | 100      |
| 22) 2-Nitrophenol             | 4.742  | 139   | 71219    | 36.333   | ug/ml  | 91       |
| 23) 2,4-Dimethylphenol        | 4.807  | 107   | 118858   | 31.317   | ug/ml  | 95       |
| 24) Bis(2-chloroethoxy)met... | 4.878  | 93    | 142250   | 29.706   | ug/ml# | 96       |
| 25) 2,4-Dichlorophenol        | 4.954  | 162   | 110306   | 32.064   | ug/ml# | 92       |
| 28) Benzaldehyde              | 3.620  | 105   | 89141    | 25.433   | ug/ml  | 87       |
| 29) Acetophenone              | 4.331  | 105   | 170902   | 30.653   | ug/ml# | 88       |
| 36) Naphthalene               | 5.077  | 128   | 389407   | 30.562   | ug/ml  | 100      |
| 38) 4-Chloroaniline           | 5.136  | 65    | 27183M3  | 20.547   | ug/ml  |          |
| 39) Hexachlorobutadiene       | 5.201  | 225   | 53811    | 26.292   | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 5.583  | 107   | 113993   | 33.998   | ug/ml  | 92       |
| 41) 2-Methylnaphthalene       | 5.671  | 142   | 263731   | 31.271   | ug/ml  | 93       |
| 43) Hexachlorocyclopentadiene | 5.818  | 237   | 50577    | 19.678   | ug/ml  | 100      |
| 44) 2,4,6-Trichlorophenol     | 5.929  | 196   | 70343    | 28.340   | ug/ml  | 99       |
| 45) 2,4,5-Trichlorophenol     | 5.965  | 196   | 81985    | 31.288   | ug/ml  | 99       |
| 47) 2-Chloronaphthalene       | 6.088  | 162   | 242213   | 30.170   | ug/ml  | 99       |
| 48) 2-Nitroaniline            | 6.188  | 138   | 92827    | 35.176   | ug/ml  | 87       |
| 51) Dimethyl phthalate        | 6.358  | 163   | 284132   | 30.086   | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.441  | 152   | 407306   | 31.110   | ug/ml  | 100      |
| 53) 2,6-Dinitrotoluene        | 6.405  | 165   | 64768    | 32.771   | ug/ml  | 85       |
| 60) Caprolactam               | 5.412  | 55    | 61861    | 36.831   | ug/ml# | 72       |
| 61) 1,2,4,5-Tetrachloroben... | 5.824  | 216   | 102465   | 27.254   | ug/ml  | 99       |
| 62) Biphenyl                  | 6.082  | 154   | 311732   | 30.491   | ug/ml  | 99       |
| 64) 3-Nitroaniline            | 6.540  | 138   | 58829    | 25.482   | ug/ml# | 83       |

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 Sample : wg1323715-3,32,,ny,ask  
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 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 24 10:56:49 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
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CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
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 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 65)  | Acenaphthene              | 6.593  | 154  | 236266   | 30.619 | ug/ml  | 93       |
| 66)  | 2,4-Dinitrophenol         | 6.640  | 184  | 7724     | 9.946  | ug/ml  | 97       |
| 67)  | Dibenzofuran              | 6.740  | 168  | 358801   | 30.983 | ug/ml# | 80       |
| 68)  | 2,4-Dinitrotoluene        | 6.752  | 165  | 90000    | 35.519 | ug/ml  | 83       |
| 69)  | 4-Nitrophenol             | 6.723  | 65   | 55260    | 36.031 | ug/ml# | 1        |
| 71)  | 2,3,4,6-Tetrachlorophenol | 6.864  | 232  | 66936    | 29.669 | ug/ml  | 99       |
| 72)  | Diethyl phthalate         | 6.969  | 149  | 304683   | 31.494 | ug/ml  | 99       |
| 73)  | Fluorene                  | 7.034  | 166  | 292950   | 31.489 | ug/ml  | 94       |
| 74)  | 4-Chlorophenyl phenyl ... | 7.046  | 204  | 122000   | 28.686 | ug/ml  | 91       |
| 75)  | 4-Nitroaniline            | 7.063  | 138  | 76604    | 29.199 | ug/ml  | 94       |
| 76)  | 4,6-Dinitro-o-cresol      | 7.104  | 198  | 44489    | 29.512 | ug/ml# | 90       |
| 77)  | NDPA/DPA                  | 7.151  | 169  | 245598   | 30.546 | ug/ml  | 97       |
| 80)  | 4-Bromophenyl phenyl e... | 7.463  | 248  | 75433    | 29.175 | ug/ml  | 91       |
| 81)  | Hexachlorobenzene         | 7.516  | 284  | 95753    | 30.834 | ug/ml# | 89       |
| 82)  | Pentachlorophenol         | 7.692  | 266  | 40083    | 21.702 | ug/ml  | 99       |
| 87)  | Atrazine                  | 7.627  | 200  | 62028    | 27.275 | ug/ml  | 93       |
| 89)  | Phenanthrene              | 7.857  | 178  | 423527   | 29.975 | ug/ml  | 99       |
| 90)  | Anthracene                | 7.898  | 178  | 444109   | 31.376 | ug/ml  | 98       |
| 91)  | Carbazole                 | 8.050  | 167  | 421735   | 31.263 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 8.385  | 149  | 532542   | 32.465 | ug/ml# | 97       |
| 93)  | Fluoranthene              | 8.879  | 202  | 475534   | 30.424 | ug/ml# | 90       |
| 95)  | Pyrene                    | 9.079  | 202  | 491914   | 29.755 | ug/ml  | 100      |
| 97)  | Butyl benzyl phthalate    | 9.784  | 149  | 245003   | 32.580 | ug/ml# | 83       |
| 105) | Benzo(a)anthracene        | 10.389 | 228  | 452044   | 27.709 | ug/ml  | 99       |
| 106) | 3,3'-Dichlorobenzidine    | 10.389 | 252  | 134078   | 20.929 | ug/ml# | 97       |
| 107) | Chrysene                  | 10.436 | 228  | 463993   | 28.585 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 10.542 | 149  | 371487   | 31.642 | ug/ml# | 94       |
| 109) | Di-n-octylphthalate       | 11.494 | 149  | 642739   | 31.010 | ug/ml  | 98       |
| 110) | Benzo(b)fluoranthene      | 11.905 | 252  | 488114   | 28.580 | ug/ml# | 93       |
| 111) | Benzo(k)fluoranthene      | 11.946 | 252  | 515144   | 30.409 | ug/ml  | 96       |
| 112) | Benzo(a)pyrene            | 12.392 | 252  | 459473   | 27.877 | ug/ml# | 93       |
| 114) | Indeno(1,2,3-cd)pyrene    | 14.149 | 276  | 461223   | 30.553 | ug/mL# | 91       |
| 115) | Dibenzo(a,h)anthracene    | 14.202 | 278  | 488195   | 32.246 | ug/ml# | 93       |
| 116) | Benzo(ghi)perylene        | 14.537 | 276  | 522782   | 33.062 | ug/ml# | 76       |

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

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 Operator : Buffy:jg  
 Sample : wg1323715-3,32,,ny,ask  
 Misc : wg1324233,wg1323715,ical16199  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 24 10:56:49 2019  
 Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Tue Dec 24 10:33:32 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Buffy\191223n\ABN1223n.D  
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 : 3 - I:\8270\Buffy\191223n\AP91223n.D  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

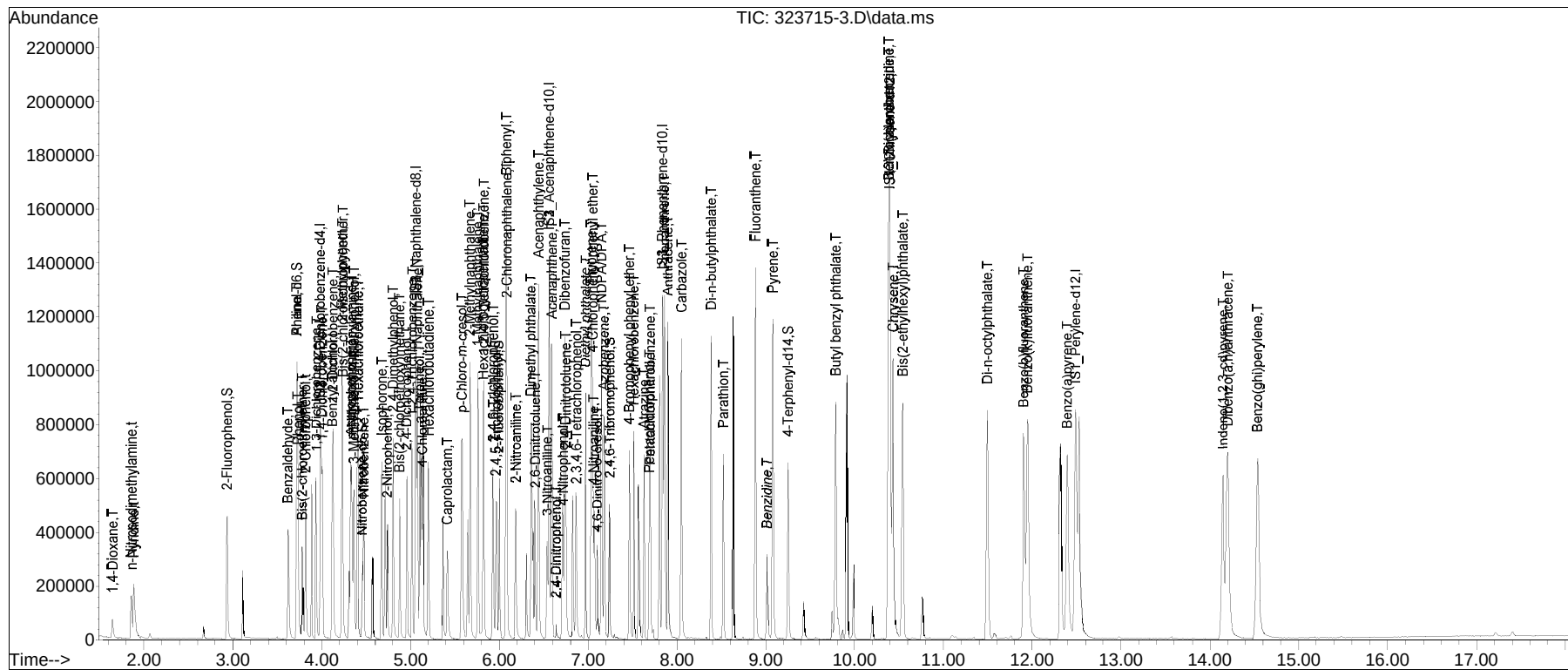
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

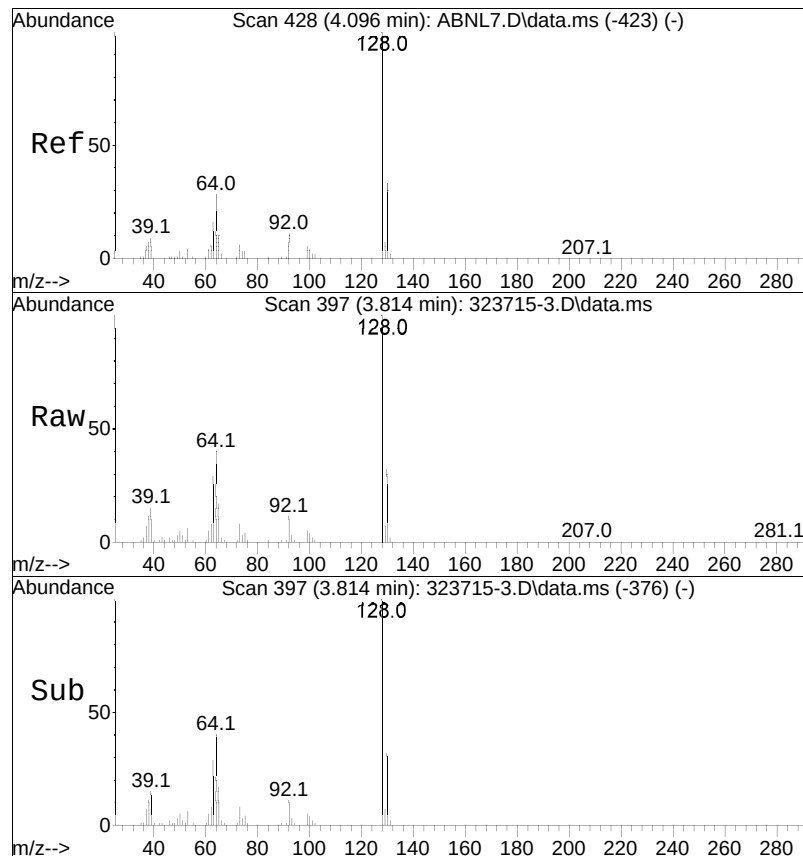
(QT Reviewed)

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Data Path   : I:\8270\Buffy\191223n\  
Data File  : 323715-3.D  
Acq On     : 24 Dec 2019    1:27 am  
Operator   : Buffy:jg  
Sample     : wg1323715-3,32,,ny,ask  
Misc       : wg1324233,wg1323715,ical16199  
ALS Vial   : 3      Sample Multiplier: 1
```

Quant Time: Dec 24 10:56:49 2019  
Quant Method : I:\8270\Buffy\191223n\FS191006buffy.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Tue Dec 24 10:33:32 2019  
Response via : Initial Calibration

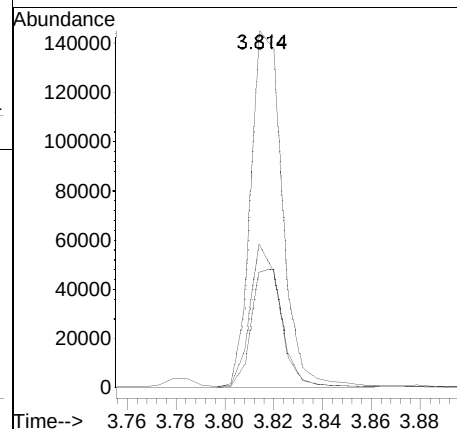
Sub List : 8270TCL\_REV2 - TCL/CT/MAn\AP91223n.D•

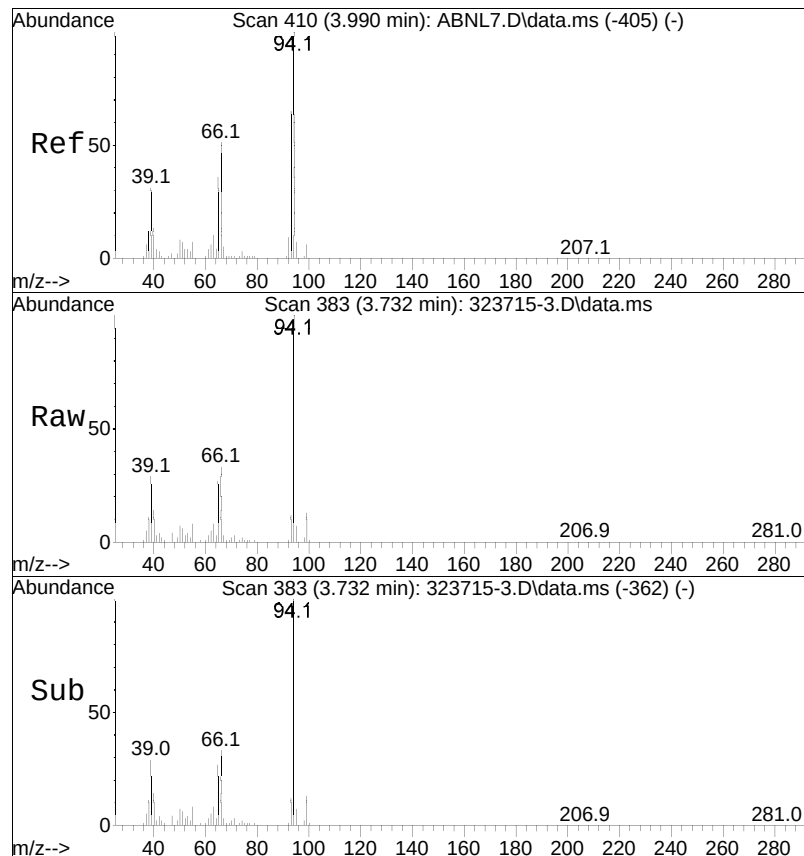




#6  
 2-Chlorophenol  
 Concen: 31.77 ug/ml  
 RT: 3.814 min Scan# 397  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

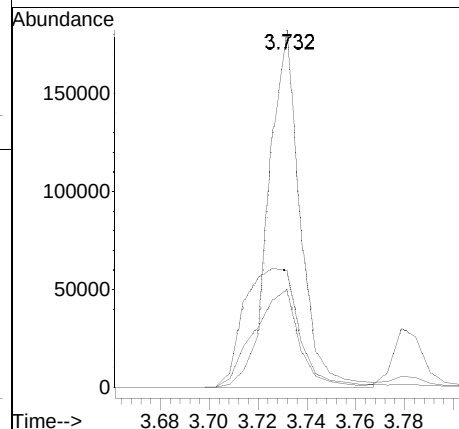
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 130859 |       |       |
| 64      | 38.4  |        | 32.7  | 49.1  |
| 130     | 34.0  |        | 26.4  | 39.6  |

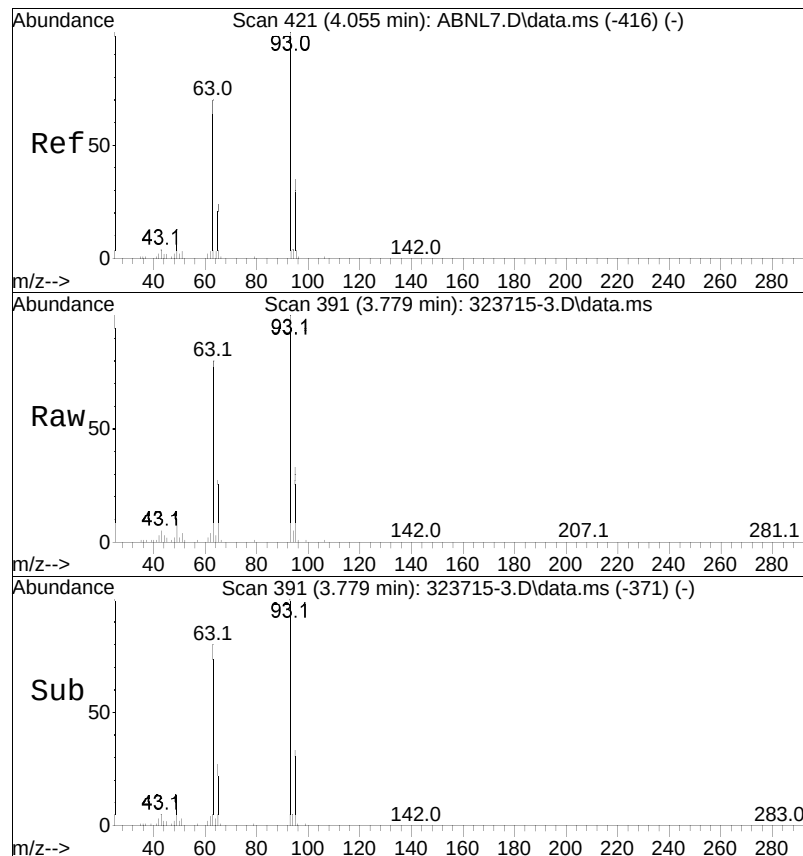




#8  
 Phenol  
 Concen: 31.61 ug/ml  
 RT: 3.732 min Scan# 383  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

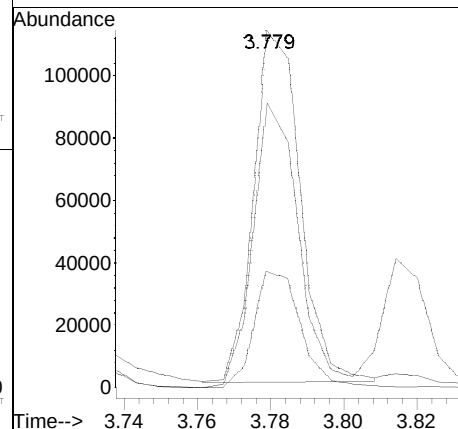
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 162471 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 39.5  | 34.2  | 51.4   |
| 66        | 59.3  | 54.4  | 81.6   |

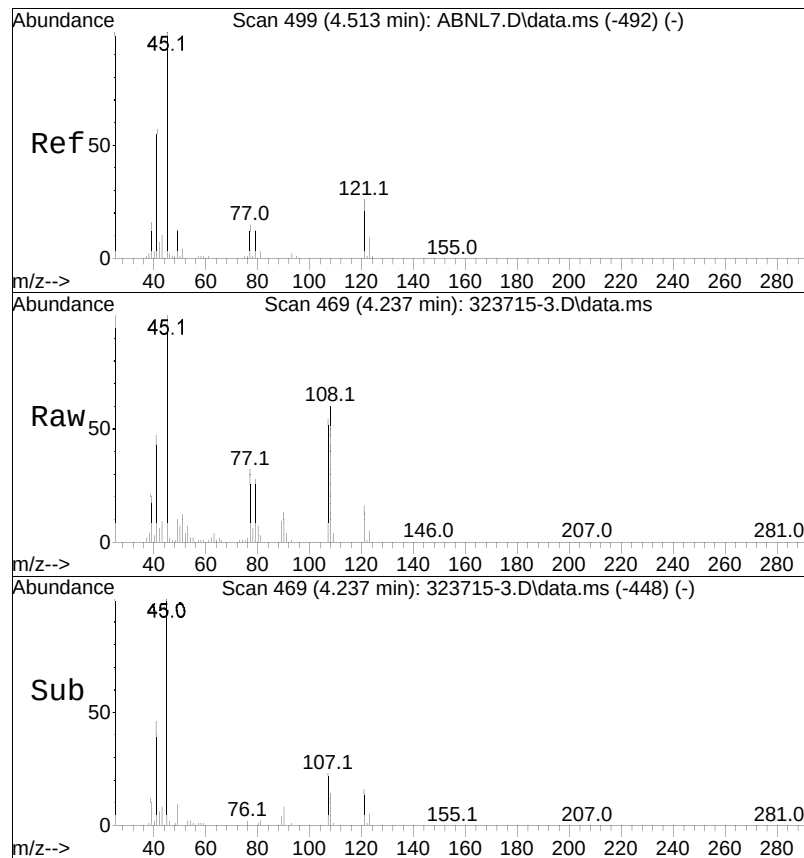




#9  
 Bis(2-chloroethyl)ether  
 Concen: 27.31 ug/ml  
 RT: 3.779 min Scan# 391  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

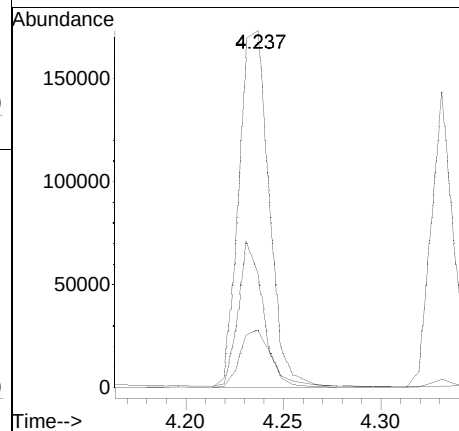
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 93      | 100   | 98611 |       |       |
| 63      | 79.9  |       | 51.7  | 77.5# |
| 95      | 34.8  |       | 26.1  | 39.1  |



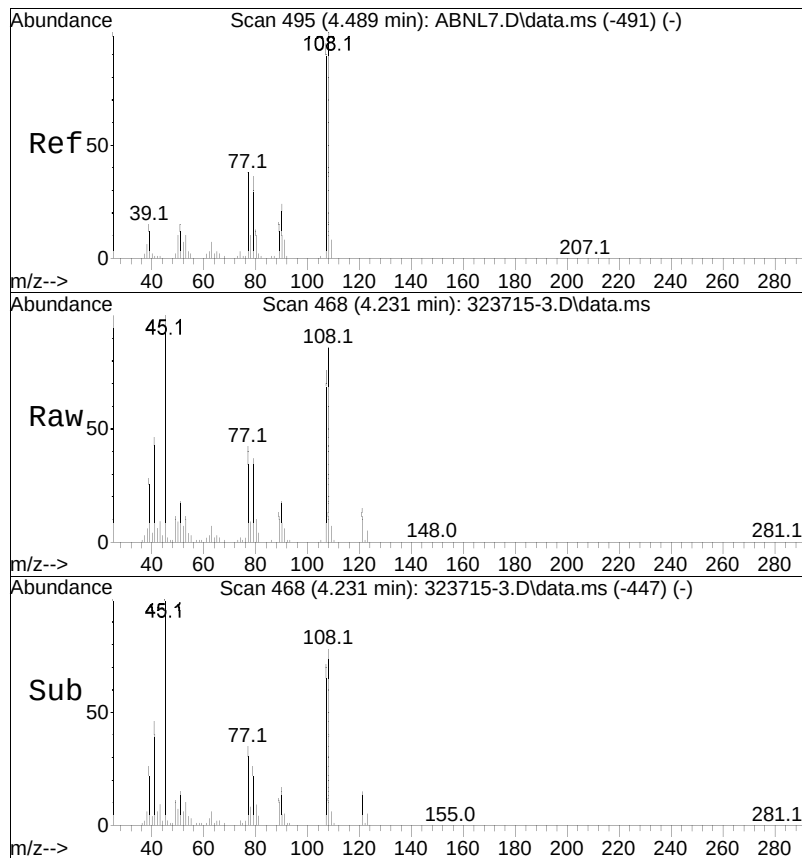


#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 37.98 ug/ml  
 RT: 4.237 min Scan# 469  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 187603 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 121       | 16.4  | 21.0  | 31.6#  |
| 77        | 33.9  | 40.4  | 60.6#  |

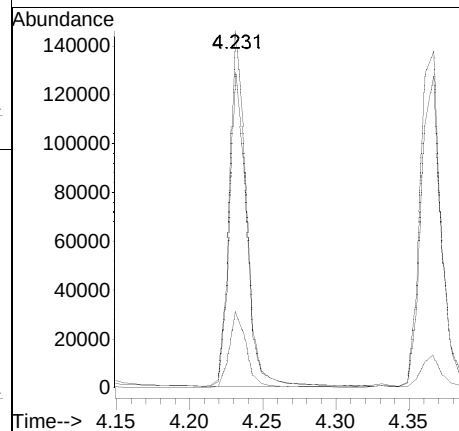


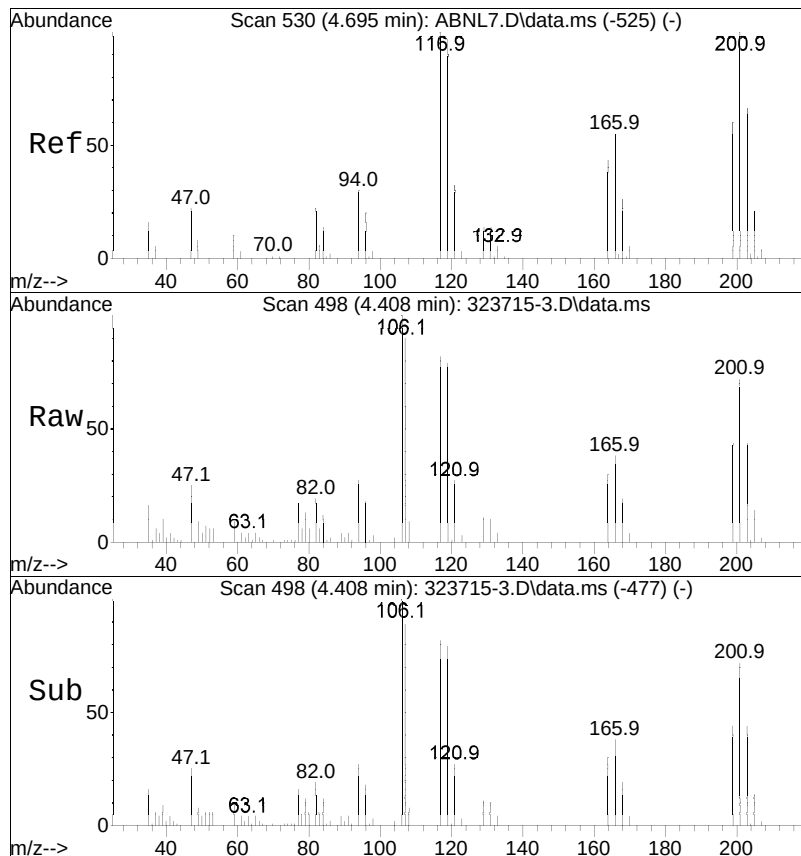




#15  
 2-Methylphenol  
 Concen: 32.84 ug/ml  
 RT: 4.231 min Scan# 468  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

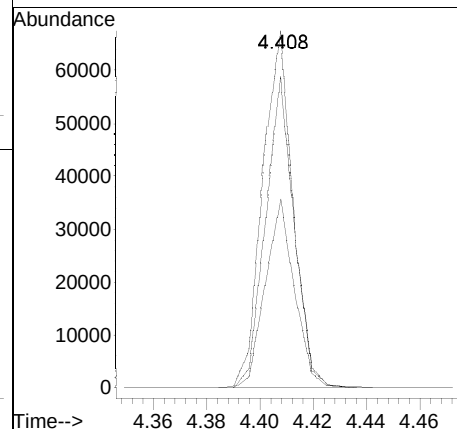
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 119006 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 89.2  | 71.6  | 107.4  |
| 90        | 21.5  | 18.8  | 28.2   |

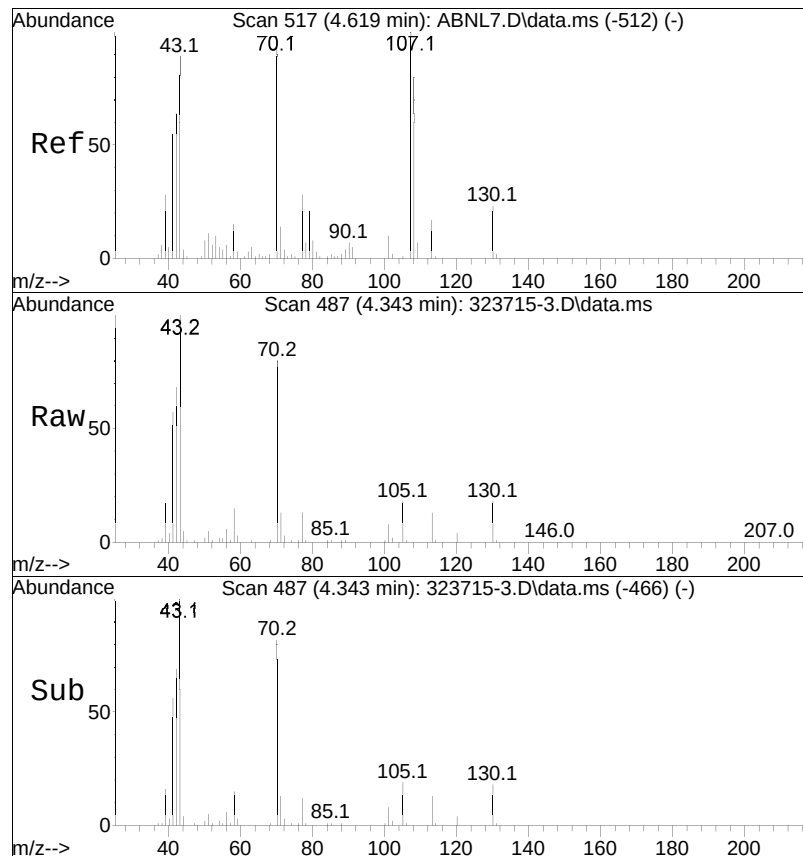




#16  
 Hexachloroethane  
 Concen: 29.25 ug/ml  
 RT: 4.408 min Scan# 498  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

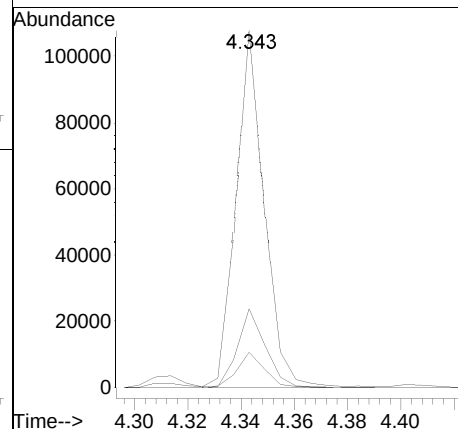
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 53077 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 201       | 83.0  | 47.2  | 70.8# |
| 199       | 51.2  | 29.8  | 44.6# |

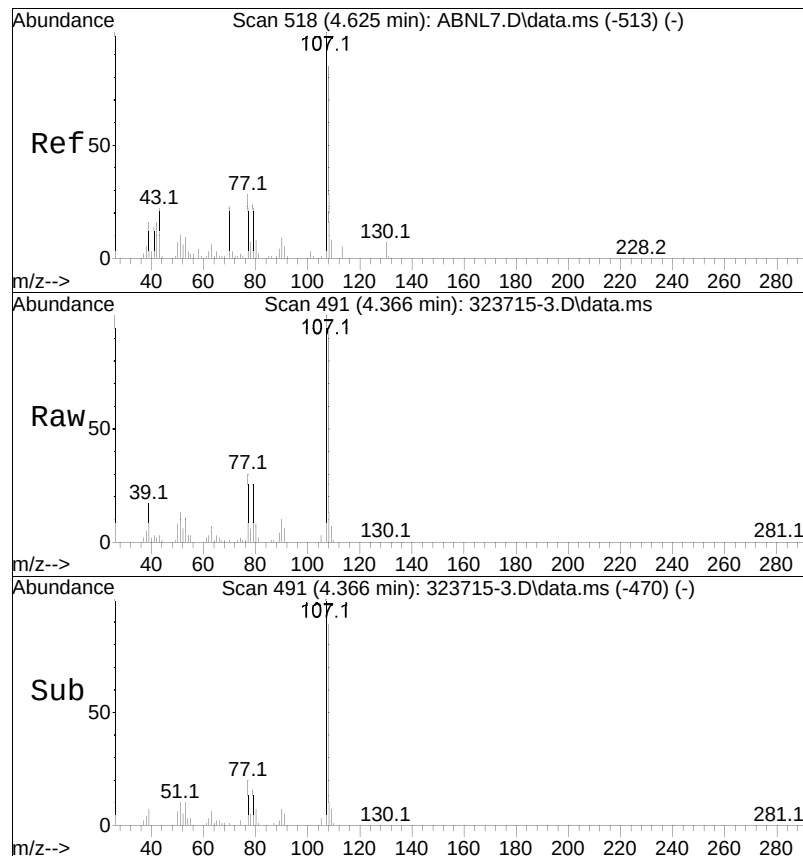




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 31.04 ug/ml  
 RT: 4.343 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

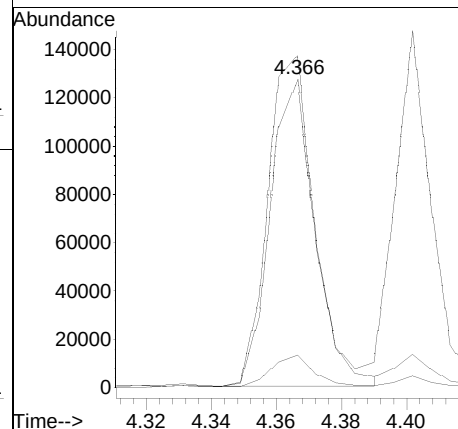
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 130     | 22.0  | 18.7  | 28.1  |
| 101     | 9.9   | 8.4   | 12.6  |

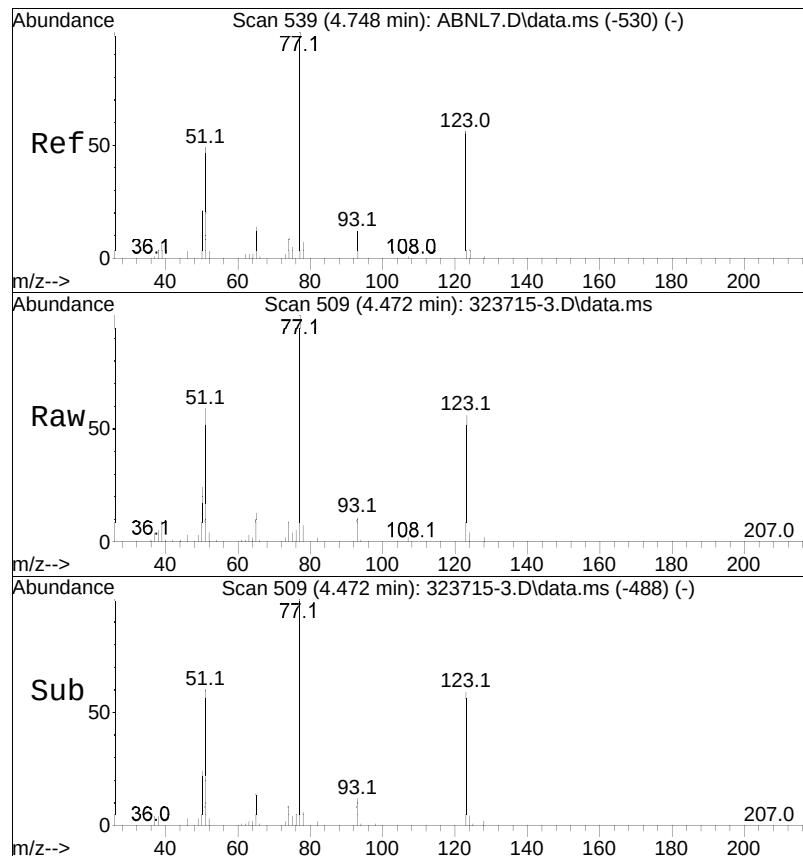




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 32.00 ug/ml  
 RT: 4.366 min Scan# 491  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

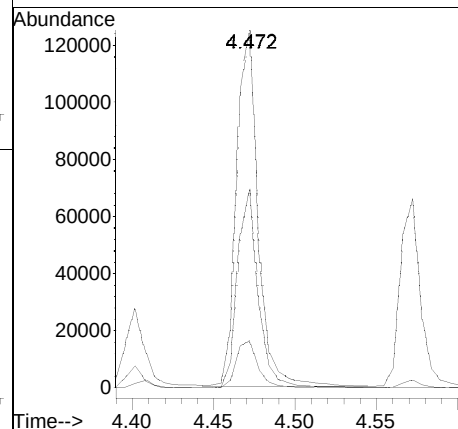
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 122163 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 111.7 | 87.0  | 130.6  |
| 90        | 10.6  | 8.4   | 12.6   |

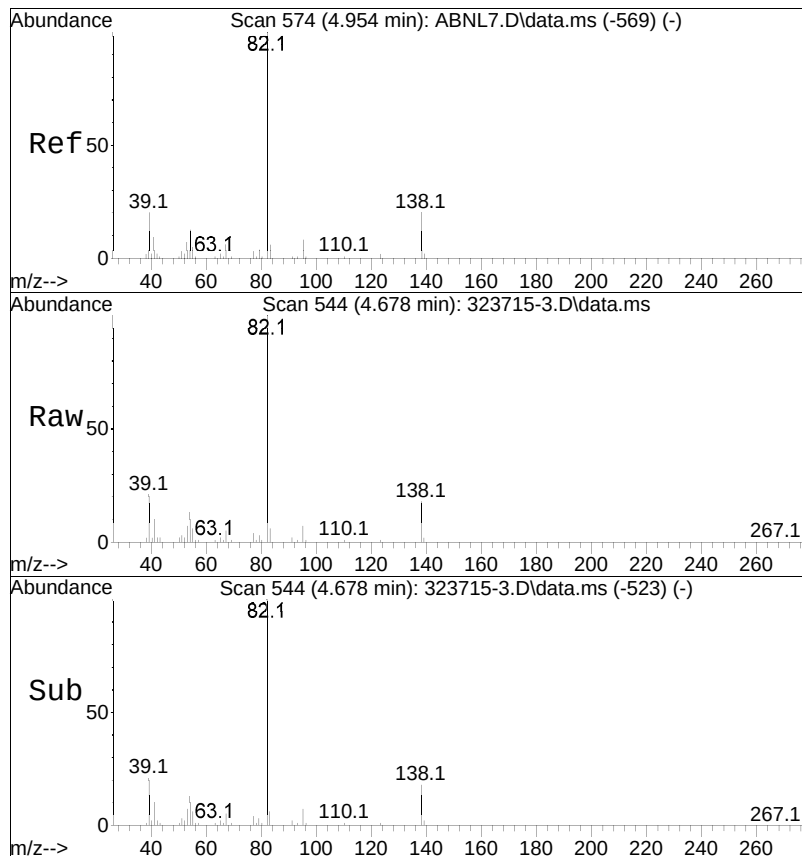




#20  
 Nitrobenzene  
 Concen: 29.76 ug/ml  
 RT: 4.472 min Scan# 509  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

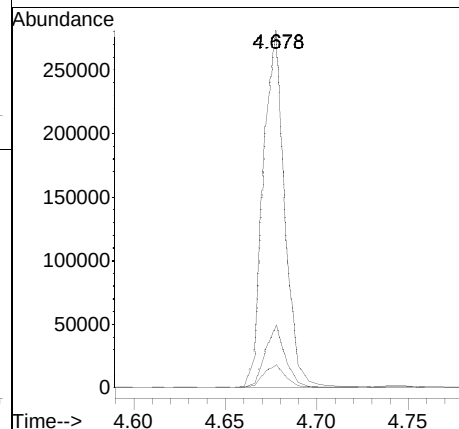
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 113918 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 54.8  | 38.3  | 57.5   |
| 65        | 14.0  | 10.3  | 15.5   |

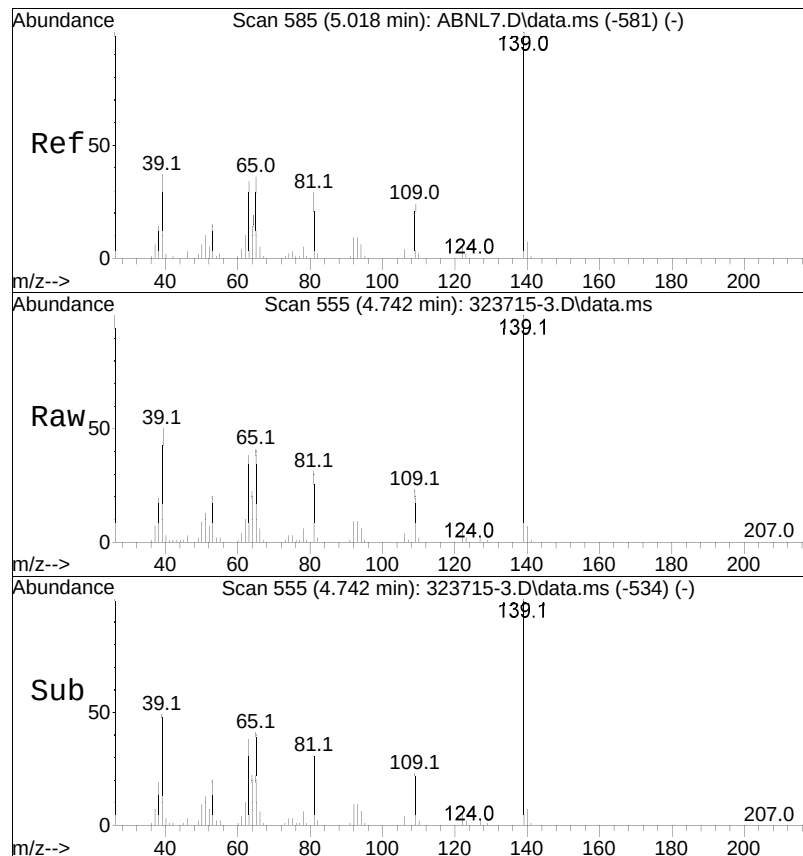




#21  
 Isophorone  
 Concen: 31.75 ug/ml  
 RT: 4.678 min Scan# 544  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

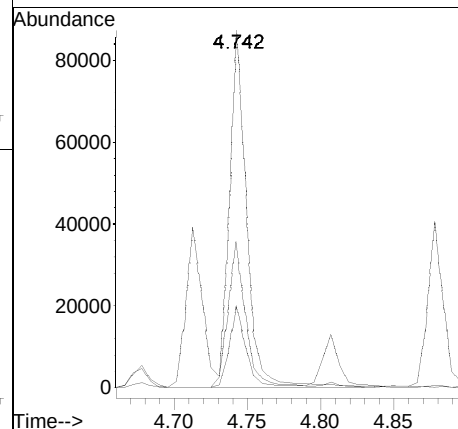
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 225783 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 138       | 16.6  | 13.3  | 19.9   |
| 95        | 6.6   | 5.1   | 7.7    |

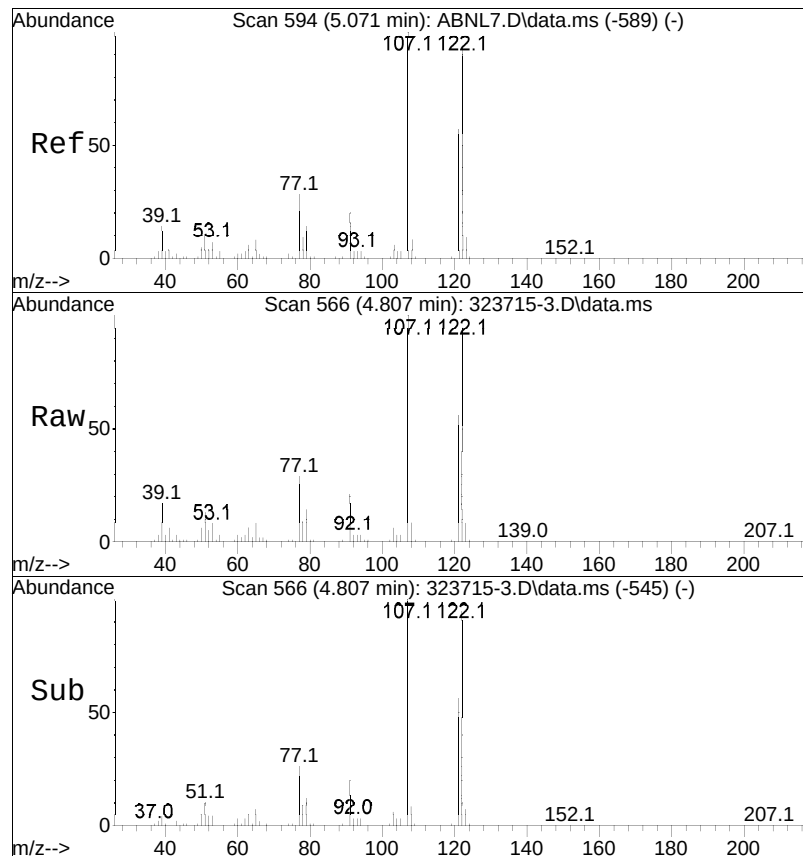




#22  
 2-Nitrophenol  
 Concen: 36.33 ug/ml  
 RT: 4.742 min Scan# 555  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

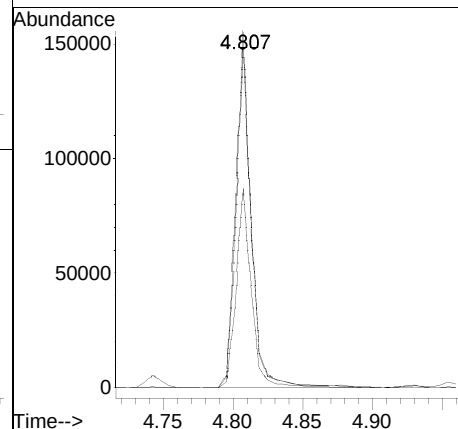
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 139     | 100   | 71219 |       |       |
| 109     | 22.4  |       | 20.1  | 30.1  |
| 65      | 39.5  |       | 37.8  | 56.8  |



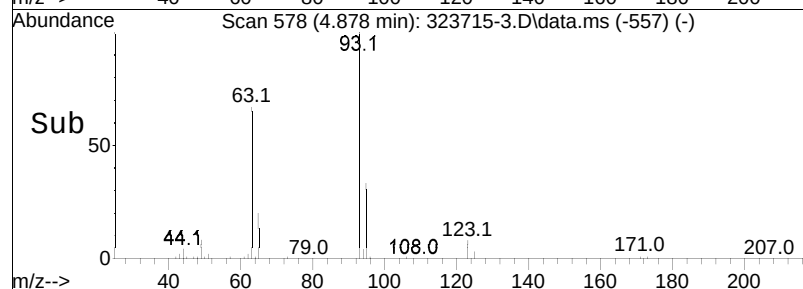
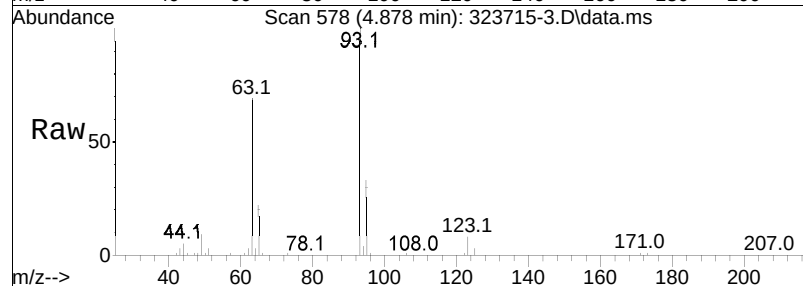
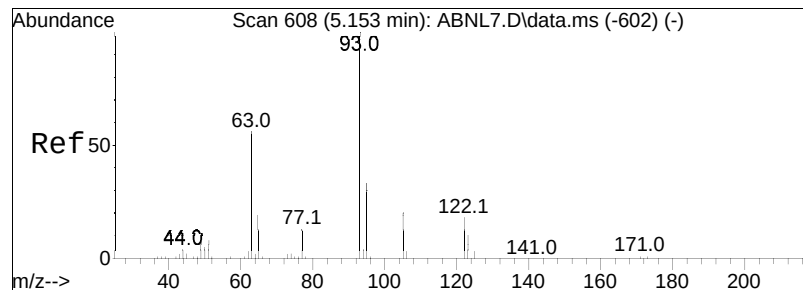


#23  
 2,4-Dimethylphenol  
 Concen: 31.32 ug/ml  
 RT: 4.807 min Scan# 566  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 118858 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 55.1  | 40.2  | 60.4   |
| 122       | 92.1  | 70.2  | 105.4  |







#24

Bis(2-chloroethoxy)methane

Concen: 29.71 ug/ml

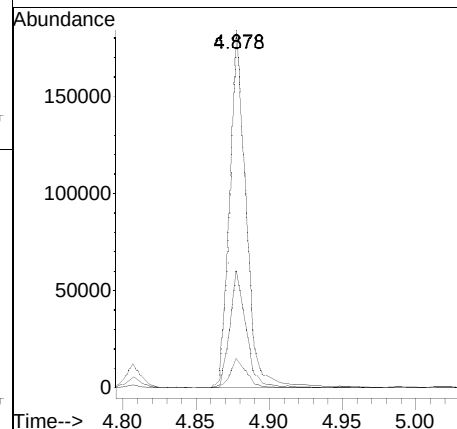
RT: 4.878 min Scan# 578

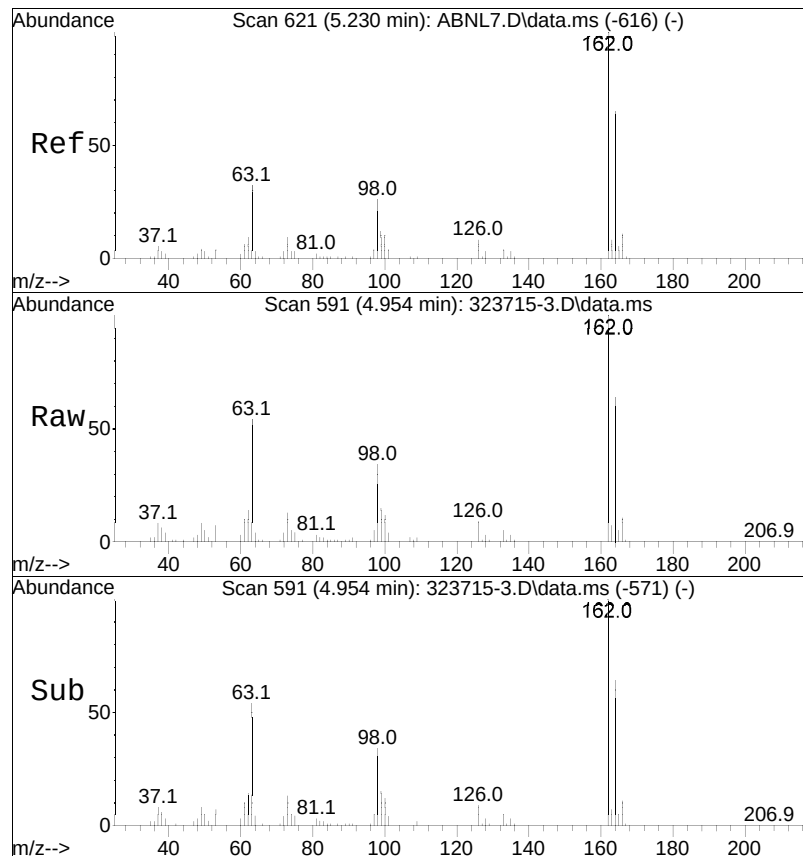
Delta R.T. 0.000 min

Lab File: 323715-3.D

Acq: 24 Dec 2019 1:27 am

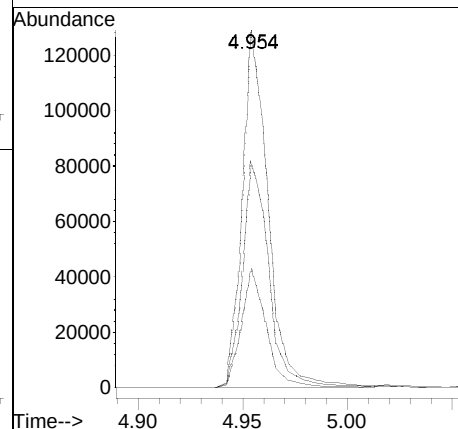
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 142250 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 32.9  | 26.3  | 39.5   |
| 123       | 8.5   | 11.4  | 17.0#  |

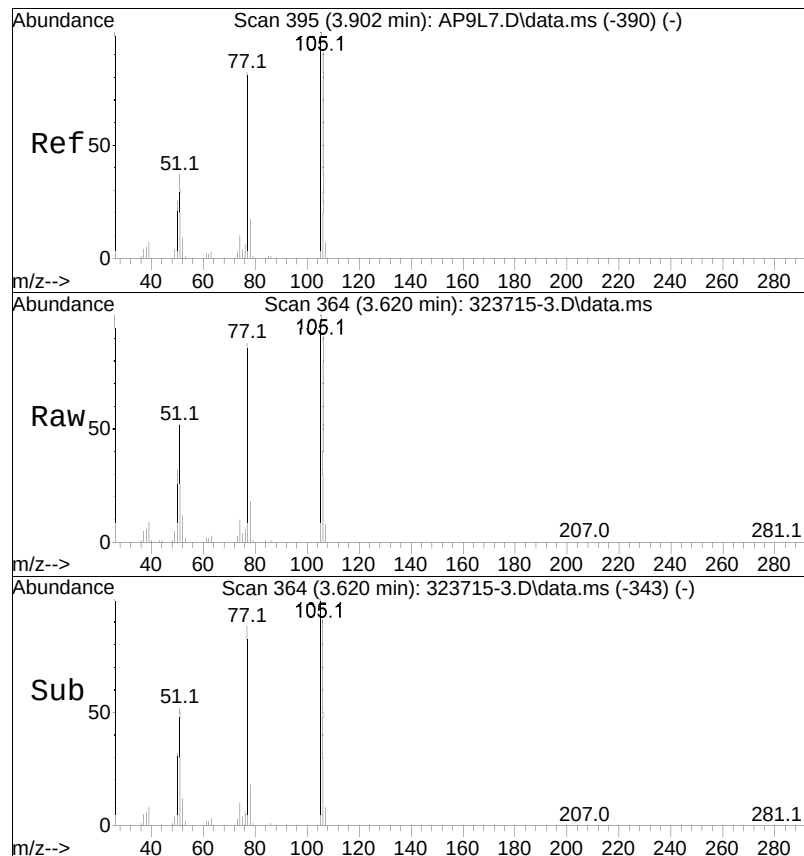




#25  
 2,4-Dichlorophenol  
 Concen: 32.06 ug/ml  
 RT: 4.954 min Scan# 591  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

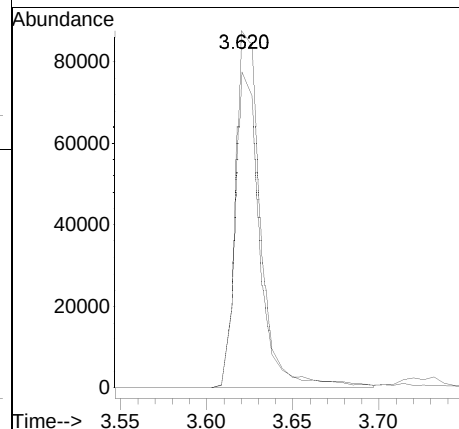
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 65.8  | 51.2  | 76.8  |
| 98      | 32.7  | 34.6  | 52.0  |

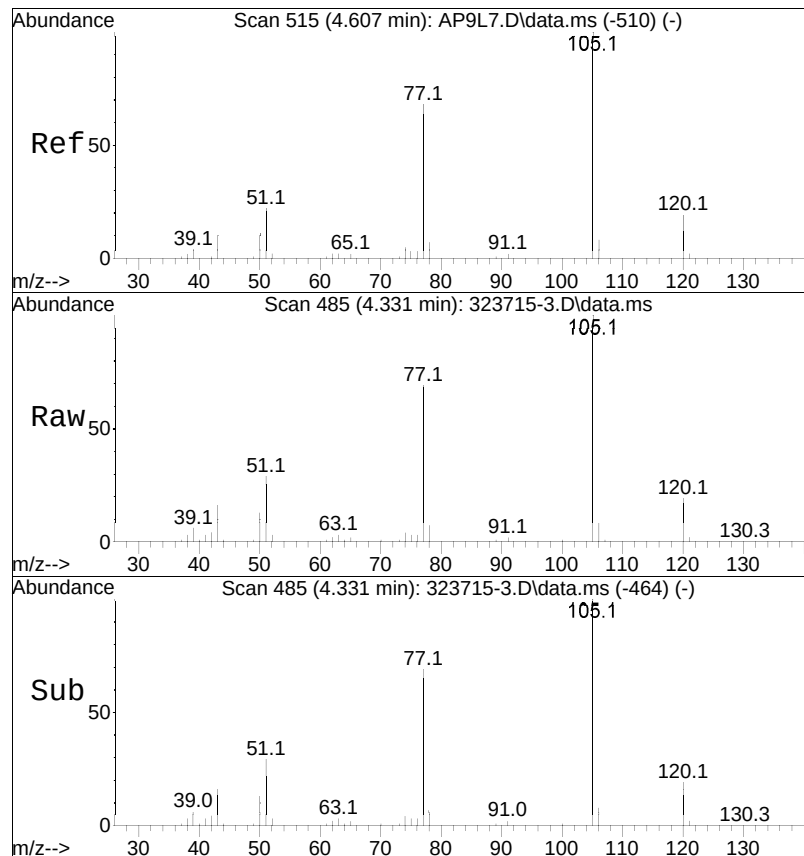




#28  
 Benzaldehyde  
 Concen: 25.43 ug/ml  
 RT: 3.620 min Scan# 364  
 Delta R.T. 0.001 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

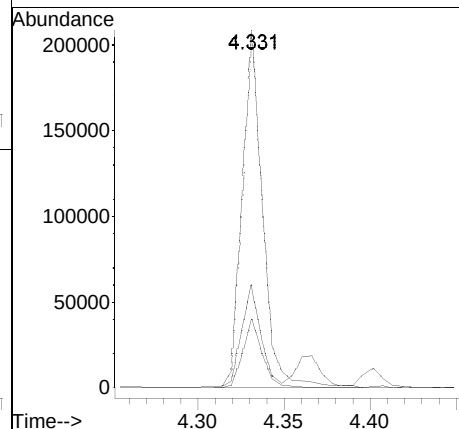
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 77      | 86.7  | 79.4  | 119.0 |

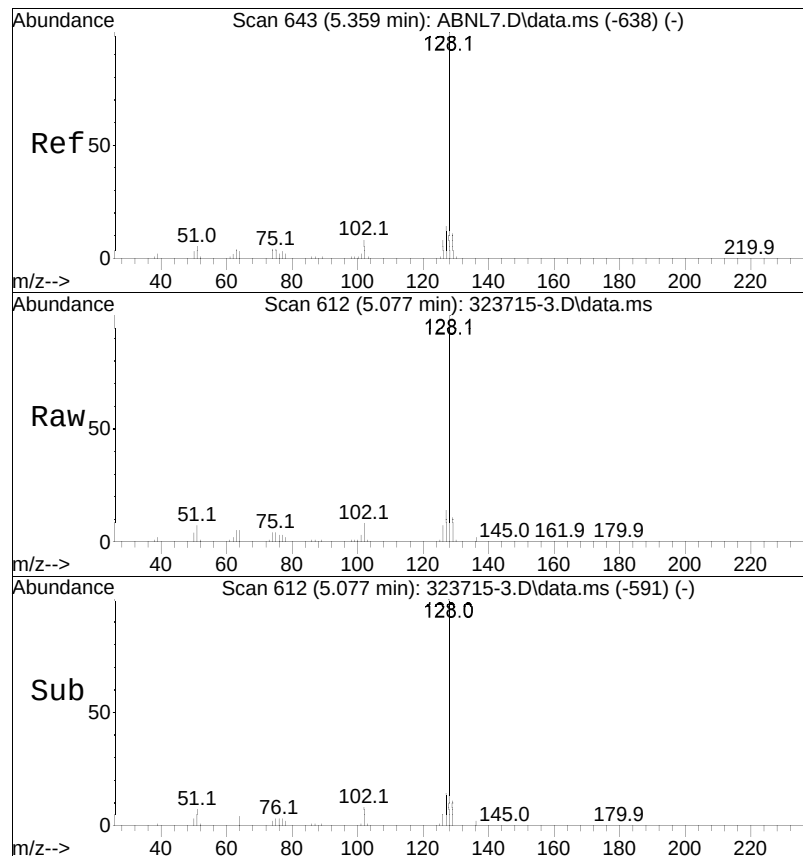




#29  
 Acetophenone  
 Concen: 30.65 ug/ml  
 RT: 4.331 min Scan# 485  
 Delta R.T. 0.001 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

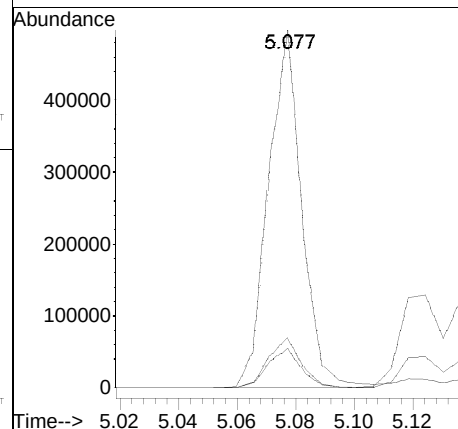
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 170902 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 18.6  | 19.9  | 29.9#  |
| 51        | 27.9  | 17.8  | 26.6#  |

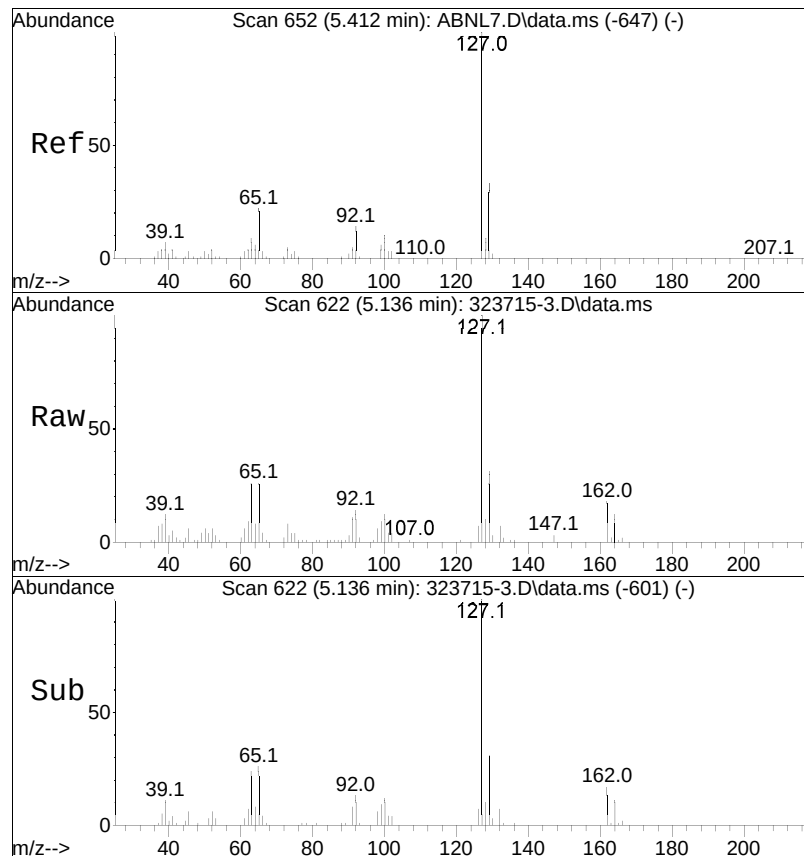




#36  
 Naphthalene  
 Concen: 30.56 ug/ml  
 RT: 5.077 min Scan# 612  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

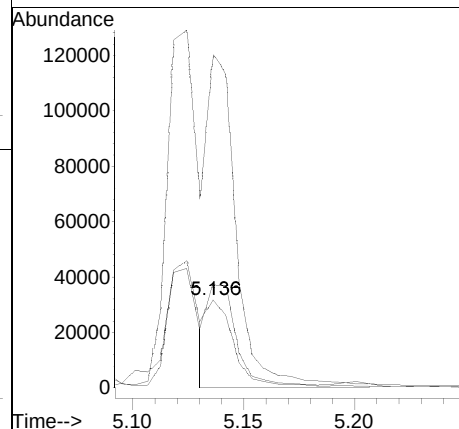
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 389407 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 129 | 11.2    | 9.0   | 13.6   |
| 127 | 14.0    | 11.3  | 16.9   |

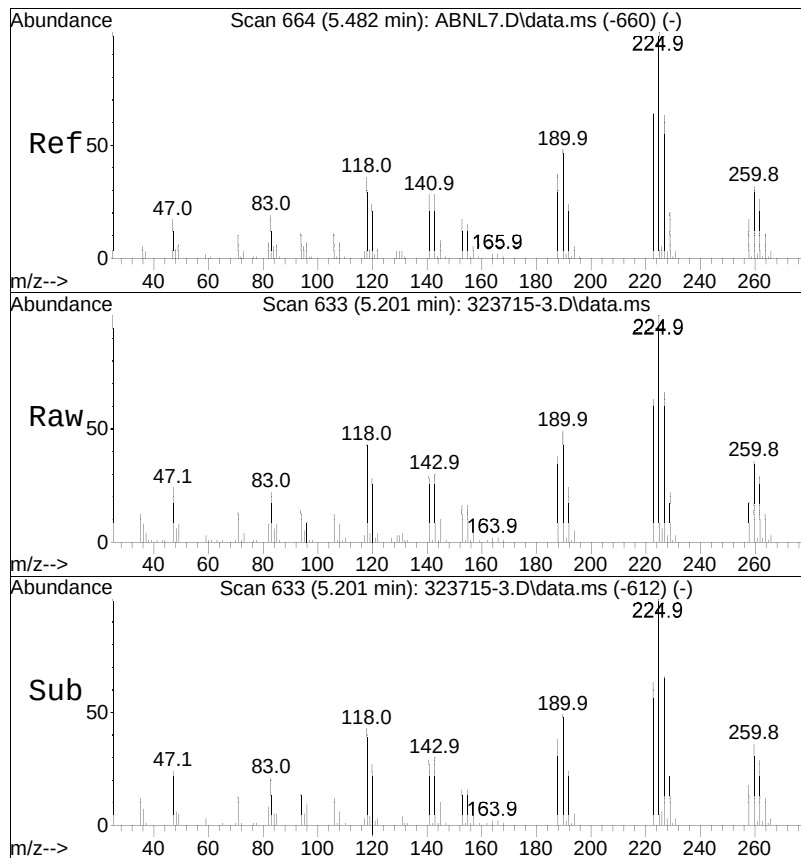




#38  
 4-Chloroaniline  
 Concen: 20.55 ug/ml M3  
 RT: 5.136 min Scan# 622  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

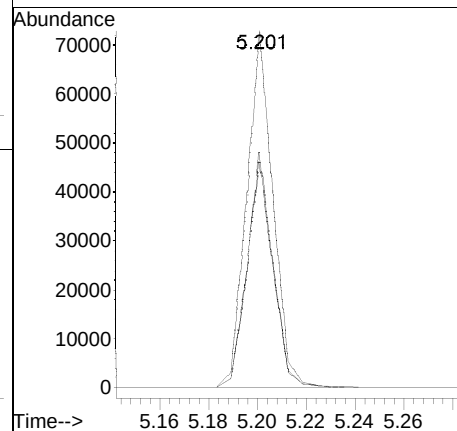
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 65 | Resp: | 27183  |
| Ion | Ratio   | Lower | Upper  |
| 65  | 100     |       |        |
| 127 | 450.4   | 295.3 | 442.9# |
| 129 | 145.4   | 96.3  | 144.5# |

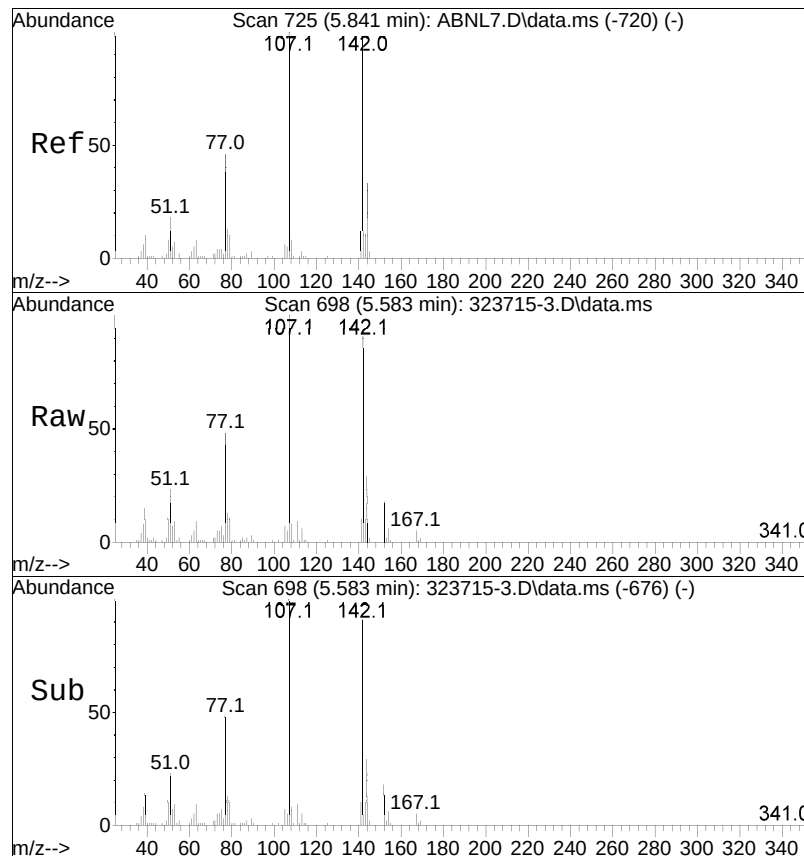




#39  
 Hexachlorobutadiene  
 Concen: 26.29 ug/ml  
 RT: 5.201 min Scan# 633  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

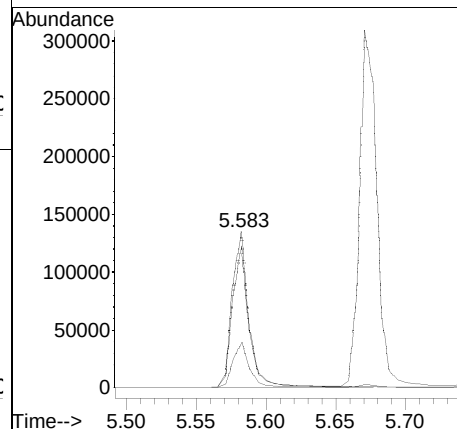
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.2  | 50.2  | 75.2  |
| 227     | 64.6  | 51.3  | 76.9  |



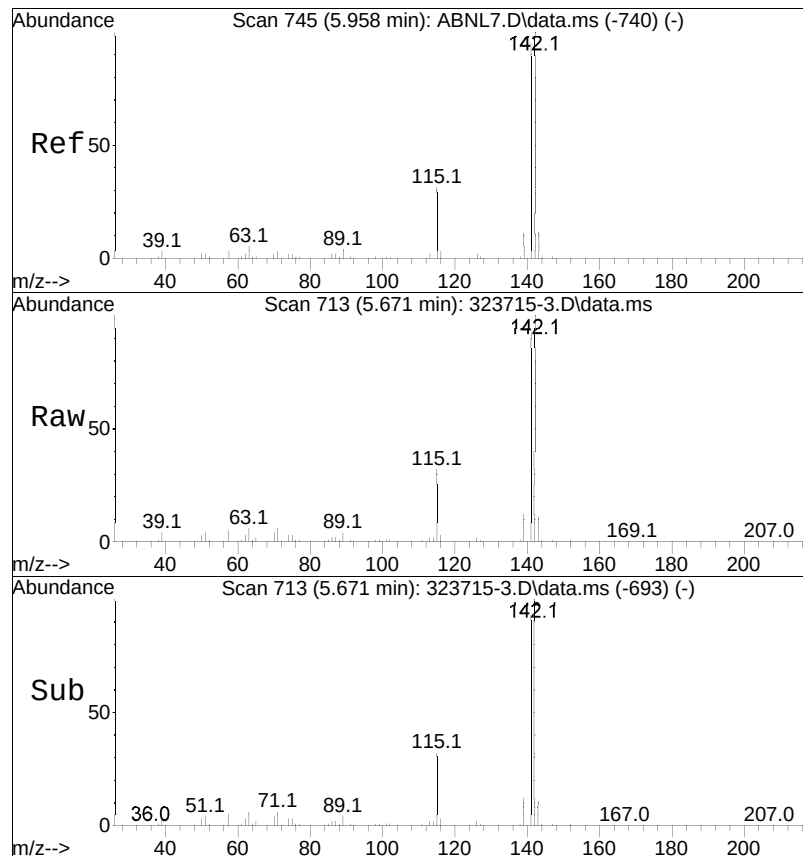


#40  
 p-Chloro-m-cresol  
 Concen: 34.00 ug/ml  
 RT: 5.583 min Scan# 698  
 Delta R.T. 0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 113993 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 28.5  | 20.7  | 31.1   |
| 142       | 88.0  | 63.7  | 95.5   |

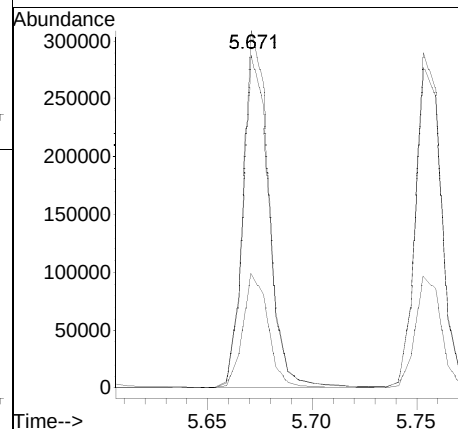


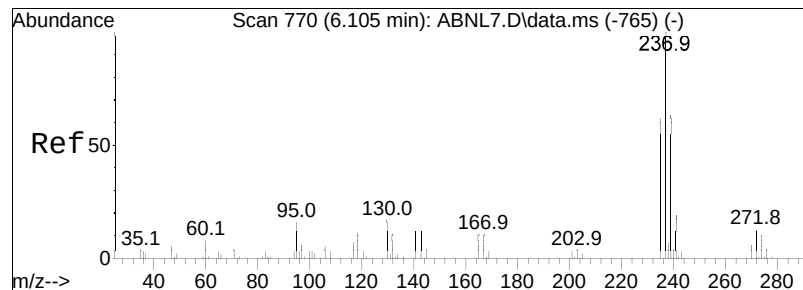




#41  
 2-Methylnaphthalene  
 Concen: 31.27 ug/ml  
 RT: 5.671 min Scan# 713  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 263731 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 94.6  | 71.0  | 106.6  |
| 115       | 32.2  | 29.8  | 44.6   |





#43

Hexachlorocyclopentadiene

Concen: 19.68 ug/ml

RT: 5.818 min Scan# 738

Delta R.T. -0.006 min

Lab File: 323715-3.D

Acq: 24 Dec 2019 1:27 am

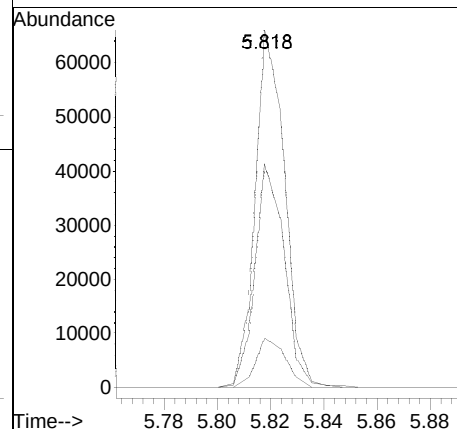
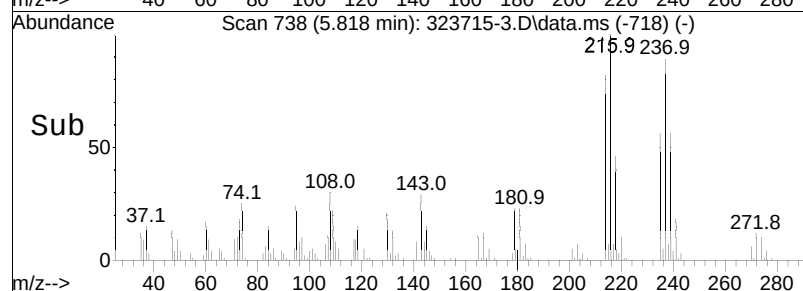
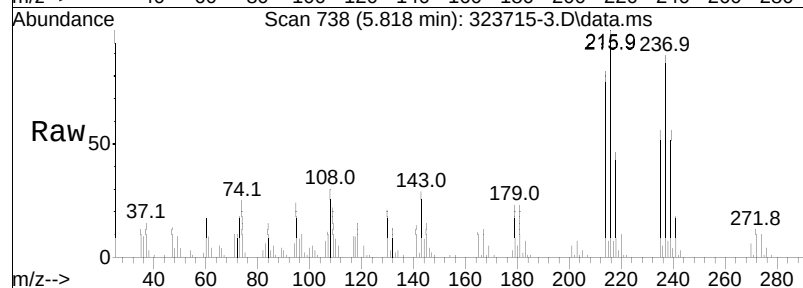
Tgt Ion: 237 Resp: 50577

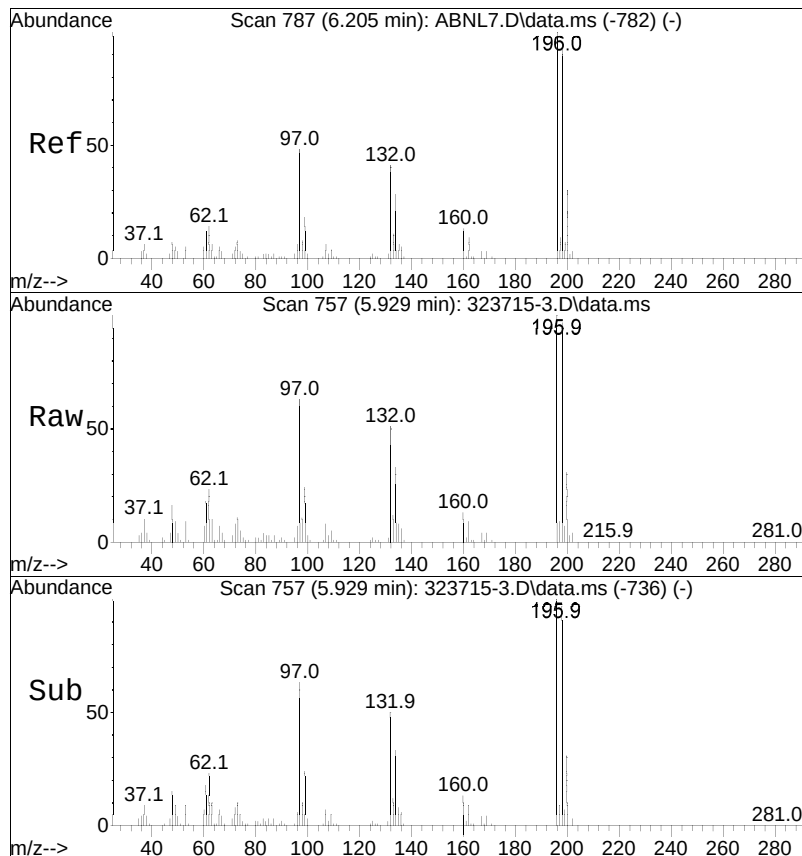
Ion Ratio Lower Upper

237 100

235 62.5 50.2 75.2

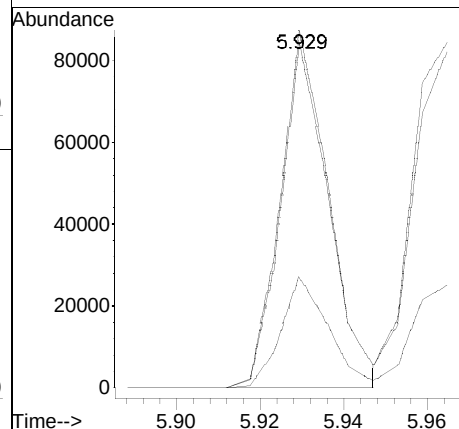
272 14.0 11.4 17.2

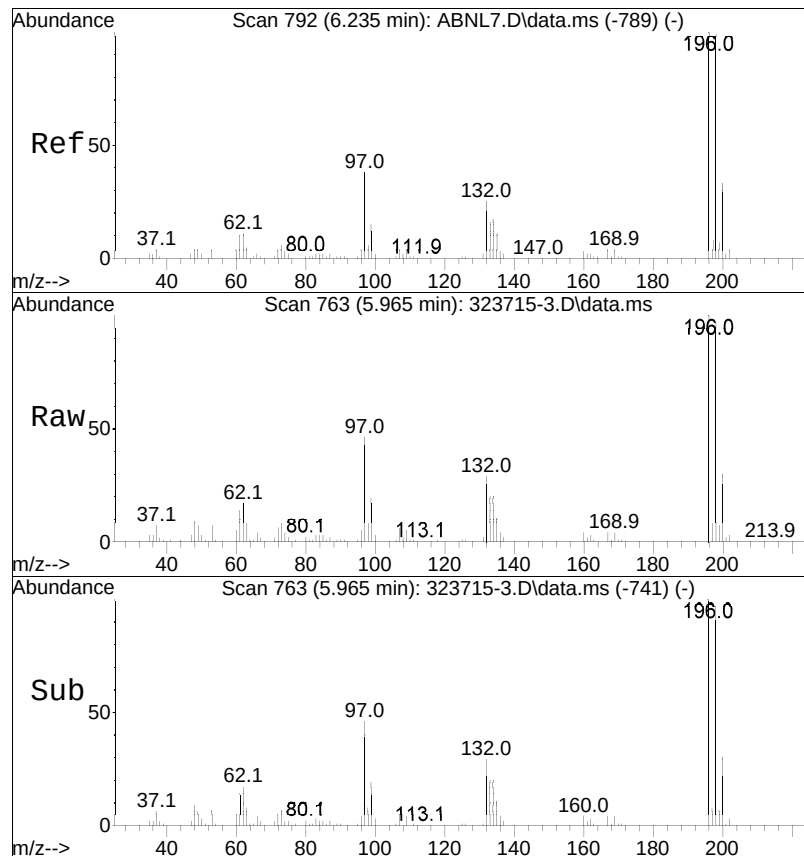




#44  
 2,4,6-Trichlorophenol  
 Concen: 28.34 ug/ml  
 RT: 5.929 min Scan# 757  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

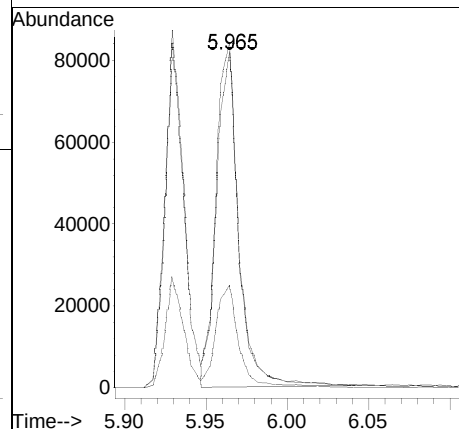
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 196   | Resp: | 70343 |
| Ion Ratio | Lower | Upper |       |
| 196       | 100   |       |       |
| 198       | 95.7  | 76.0  | 114.0 |
| 200       | 30.6  | 24.9  | 37.3  |

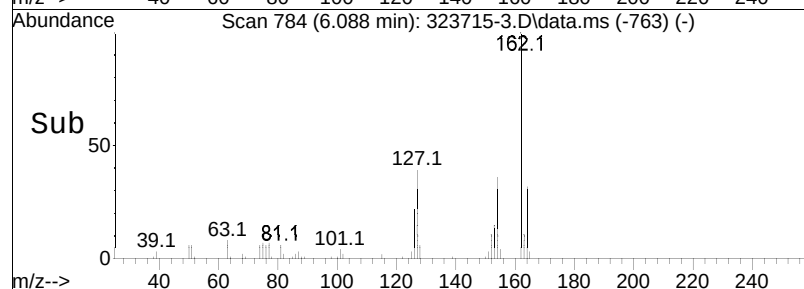
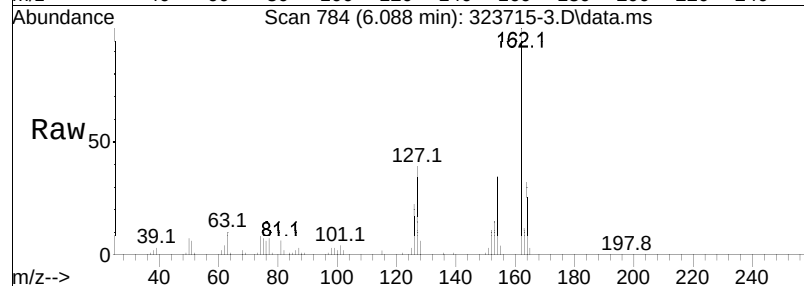
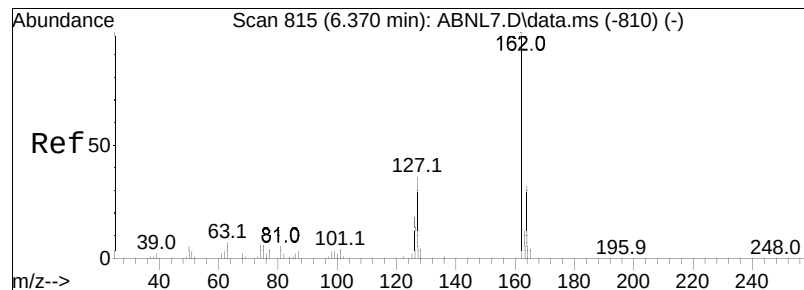




#45  
 2,4,5-Trichlorophenol  
 Concen: 31.29 ug/ml  
 RT: 5.965 min Scan# 763  
 Delta R.T. 0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

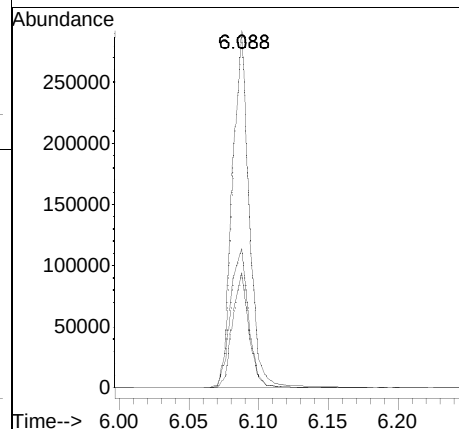
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 196   | Resp: | 81985 |
| Ion Ratio | Lower | Upper |       |
| 196       | 100   |       |       |
| 200       | 30.5  | 23.8  | 35.6  |
| 198       | 94.1  | 74.3  | 111.5 |

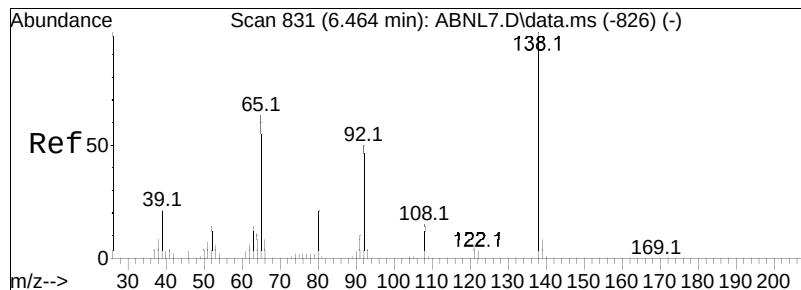




#47  
 2-Chloronaphthalene  
 Concen: 30.17 ug/ml  
 RT: 6.088 min Scan# 784  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 242213 |       |       |
| 127     | 42.5  |        | 33.9  | 50.9  |
| 164     | 32.2  |        | 26.3  | 39.5  |





#48

2-Nitroaniline

Concen: 35.18 ug/ml

RT: 6.188 min Scan# 801

Delta R.T. 0.000 min

Lab File: 323715-3.D

Acq: 24 Dec 2019 1:27 am

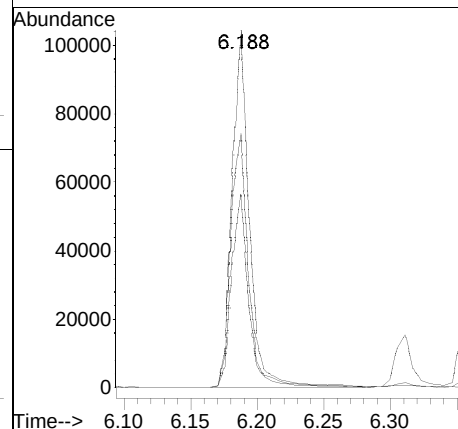
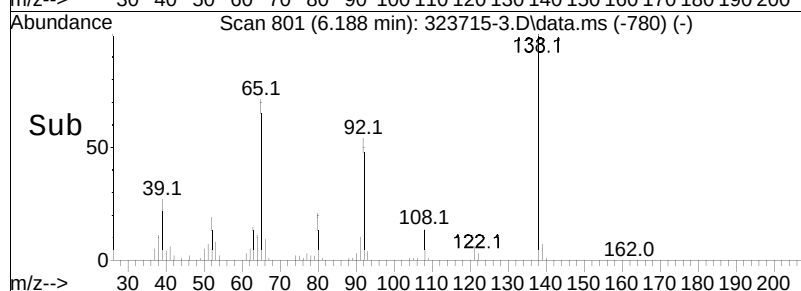
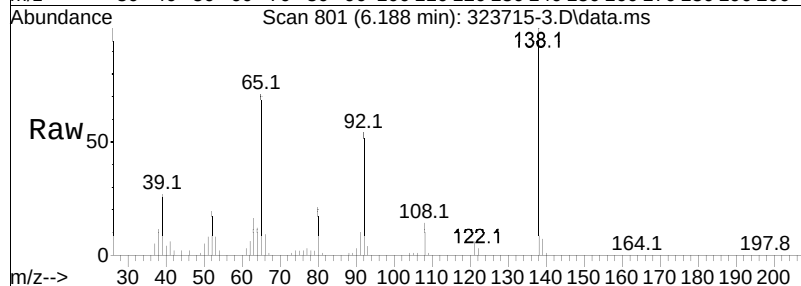
Tgt Ion:138 Resp: 92827

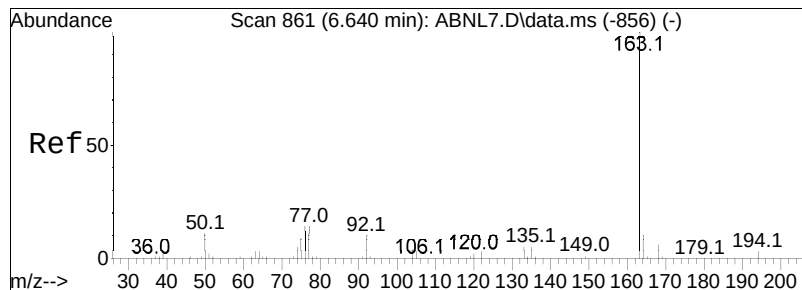
Ion Ratio Lower Upper

138 100

92 54.1 52.5 78.7

65 73.6 67.7 101.5





#51

Dimethyl phthalate

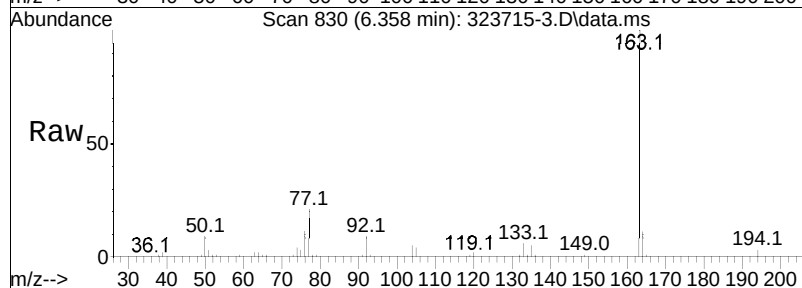
Concen: 30.09 ug/ml

RT: 6.358 min Scan# 830

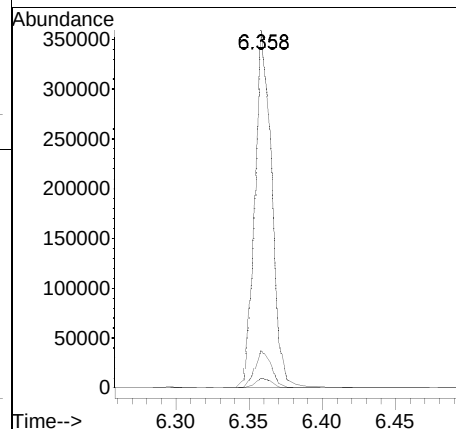
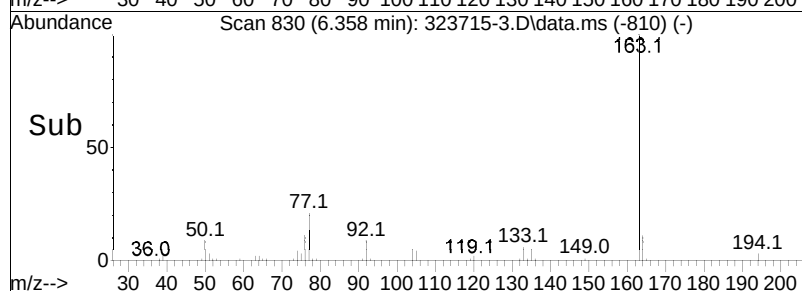
Delta R.T. -0.006 min

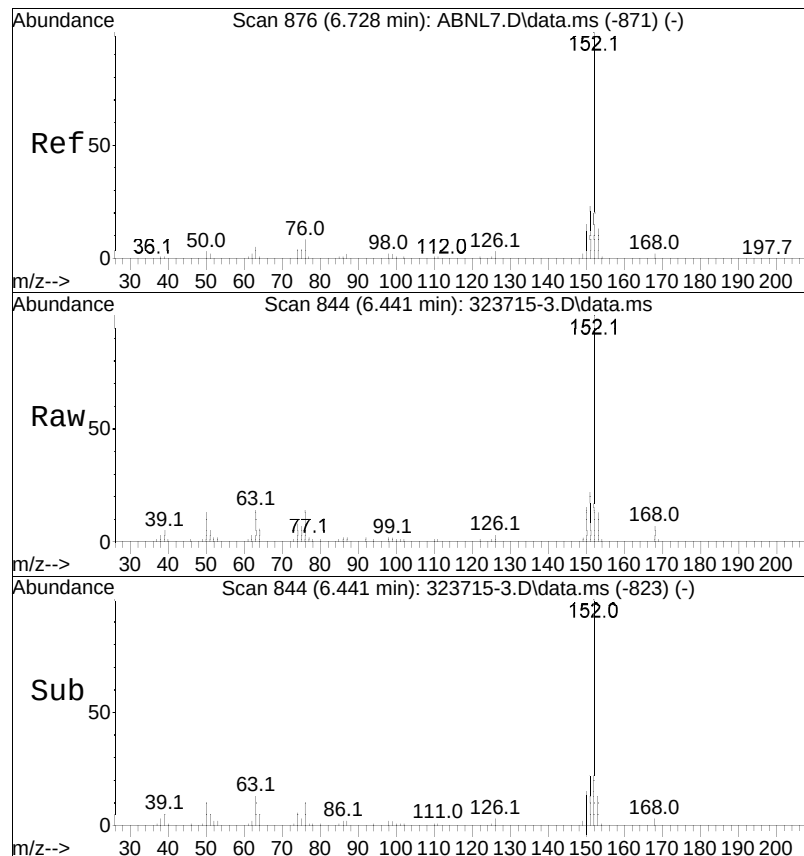
Lab File: 323715-3.D

Acq: 24 Dec 2019 1:27 am



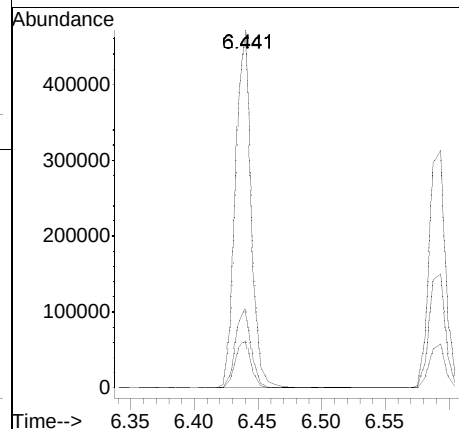
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 284132 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 2.7   | 3.5   | 5.3#   |
| 164       | 10.5  | 8.3   | 12.5   |



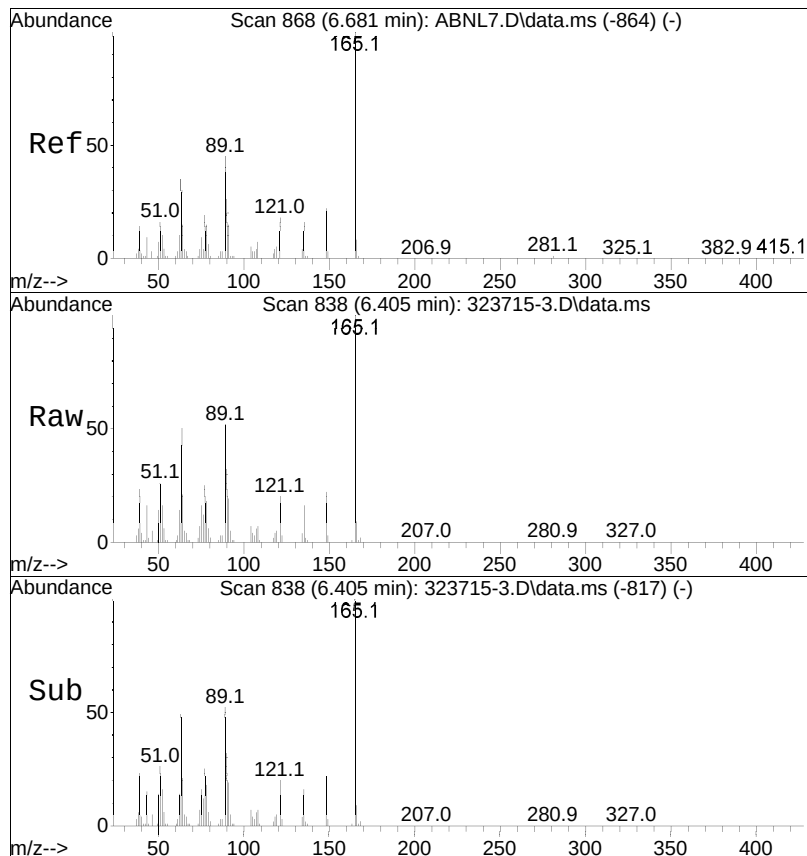


#52  
 Acenaphthylene  
 Concen: 31.11 ug/ml  
 RT: 6.441 min Scan# 844  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 407306 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 22.1  | 17.7  | 26.5   |
| 153       | 13.3  | 10.6  | 15.8   |

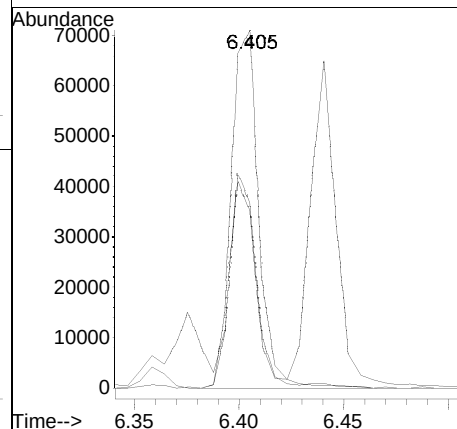


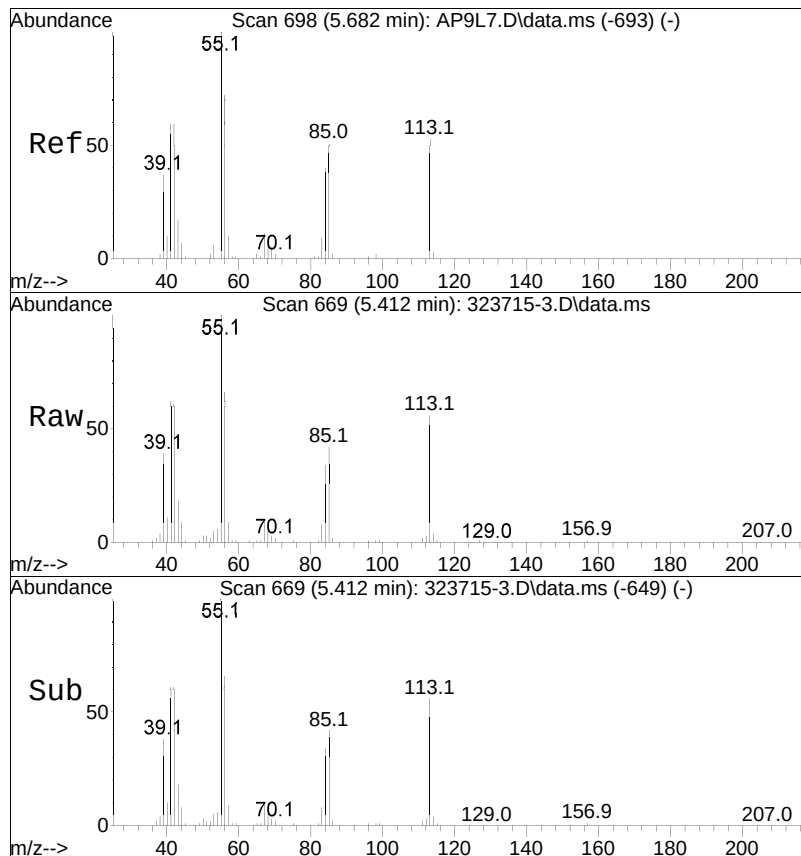




#53  
 2,6-Dinitrotoluene  
 Concen: 32.77 ug/ml  
 RT: 6.405 min Scan# 838  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

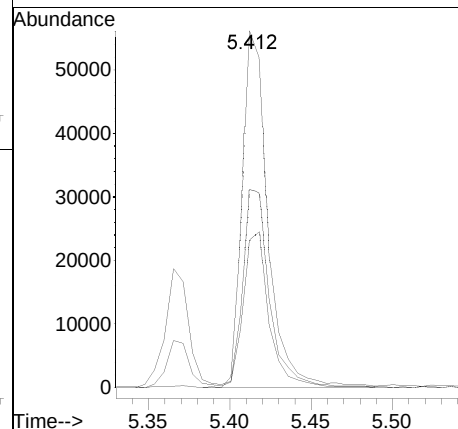
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 165     | 100   | 64768 |       |       |
| 89      | 57.2  |       | 56.8  | 85.2  |
| 63      | 53.2  |       | 50.6  | 76.0  |

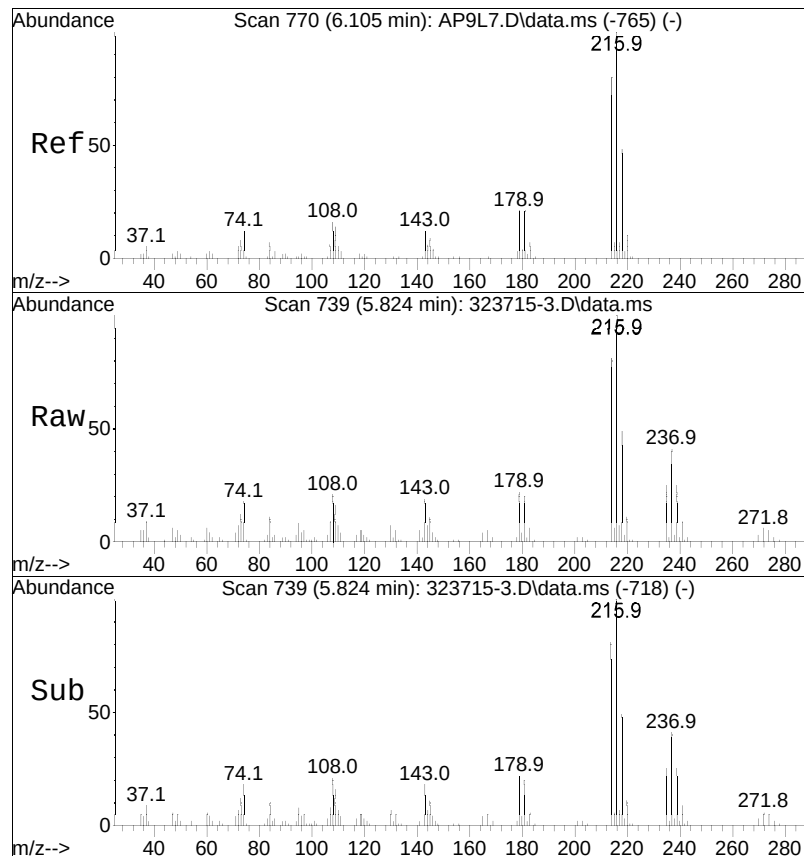




#60  
 Caprolactam  
 Concen: 36.83 ug/ml  
 RT: 5.412 min Scan# 669  
 Delta R.T. -0.005 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

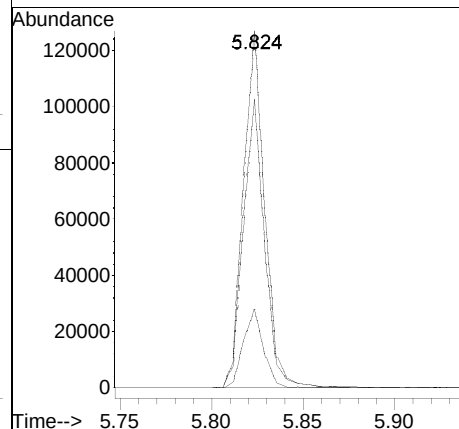
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 55    | Resp: | 61861  |
| Ion Ratio | Lower | Upper |        |
| 55        | 100   |       |        |
| 85        | 44.1  | 47.4  | 71.2#  |
| 113       | 57.9  | 71.0  | 106.4# |

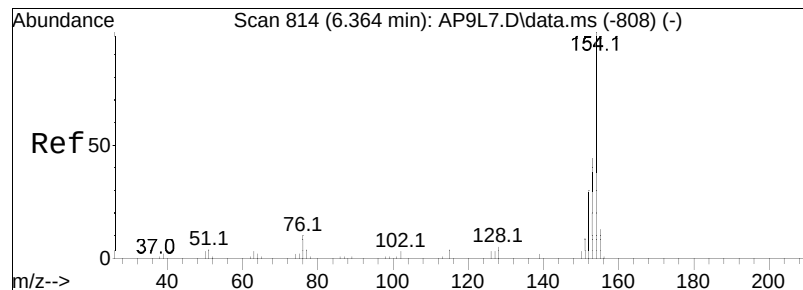




#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 27.25 ug/ml  
 RT: 5.824 min Scan# 739  
 Delta R.T. 0.001 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

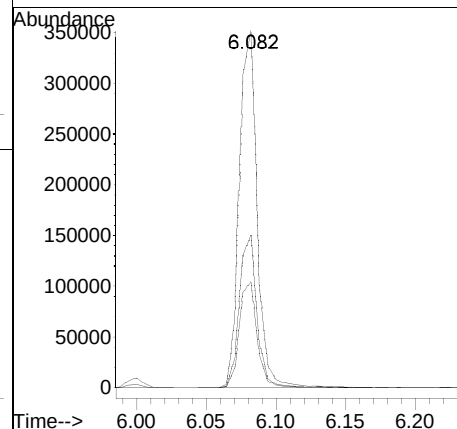
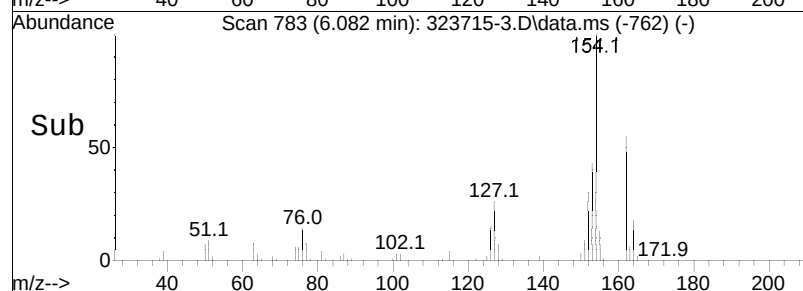
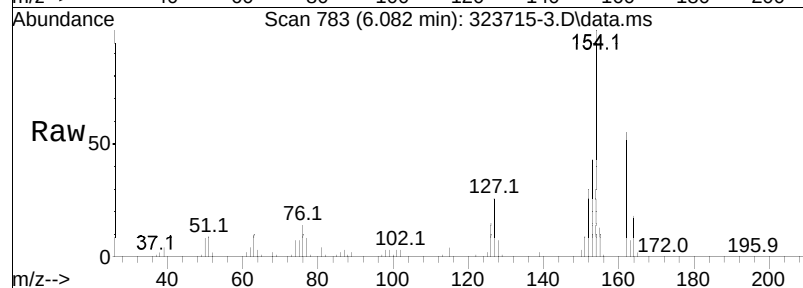
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 102465 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 81.2  | 64.2  | 96.2   |
| 179       | 21.4  | 17.8  | 26.8   |

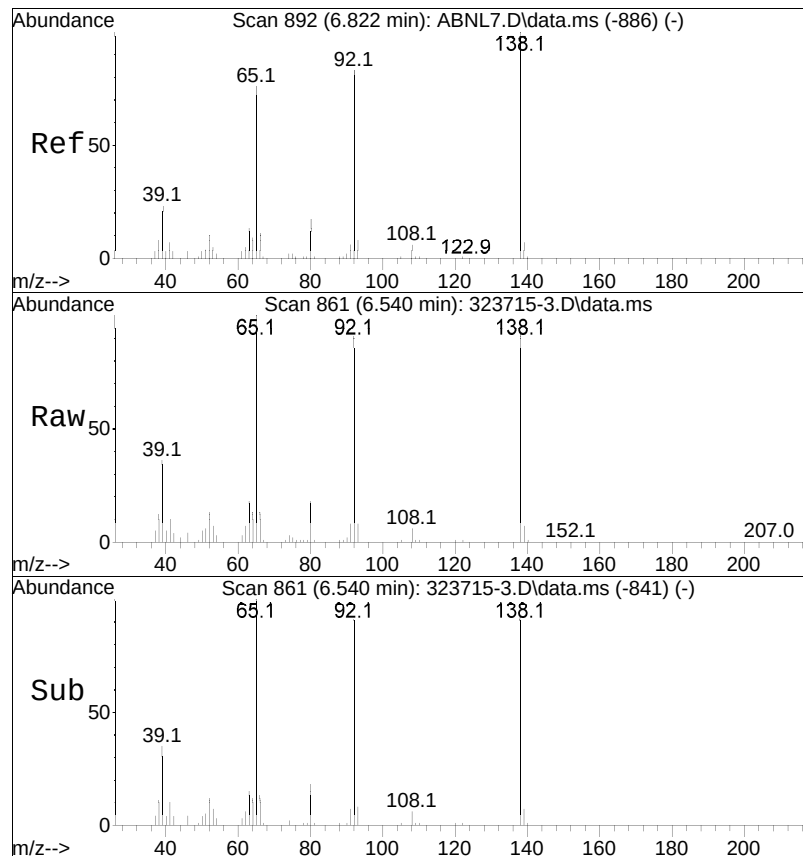




#62  
 Biphenyl  
 Concen: 30.49 ug/ml  
 RT: 6.082 min Scan# 783  
 Delta R.T. 0.001 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

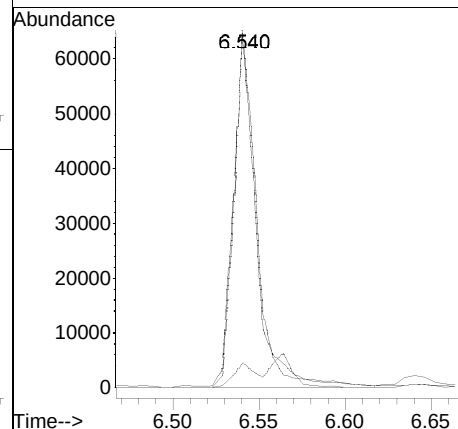
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 42.8  | 35.1  | 52.7  |
| 152     | 30.0  | 24.0  | 36.0  |

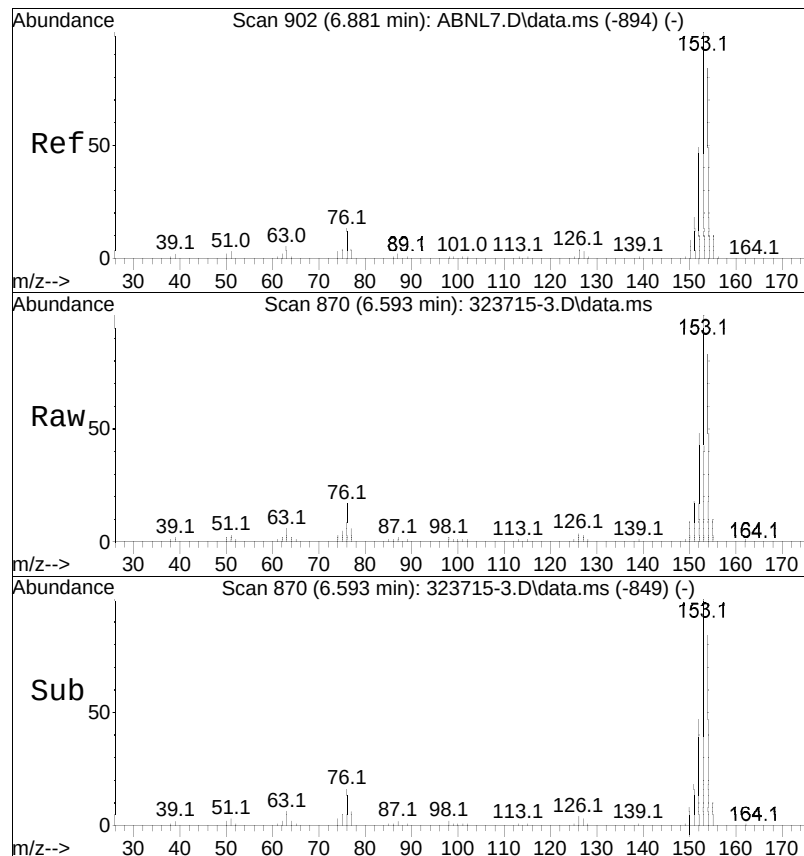




#64  
 3-Nitroaniline  
 Concen: 25.48 ug/ml  
 RT: 6.540 min Scan# 861  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

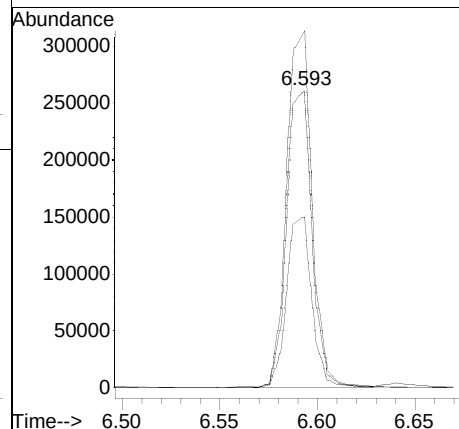
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 138   | Resp: | 58829 |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 92        | 100.1 | 95.4  | 143.2 |
| 108       | 7.0   | 8.1   | 12.1# |

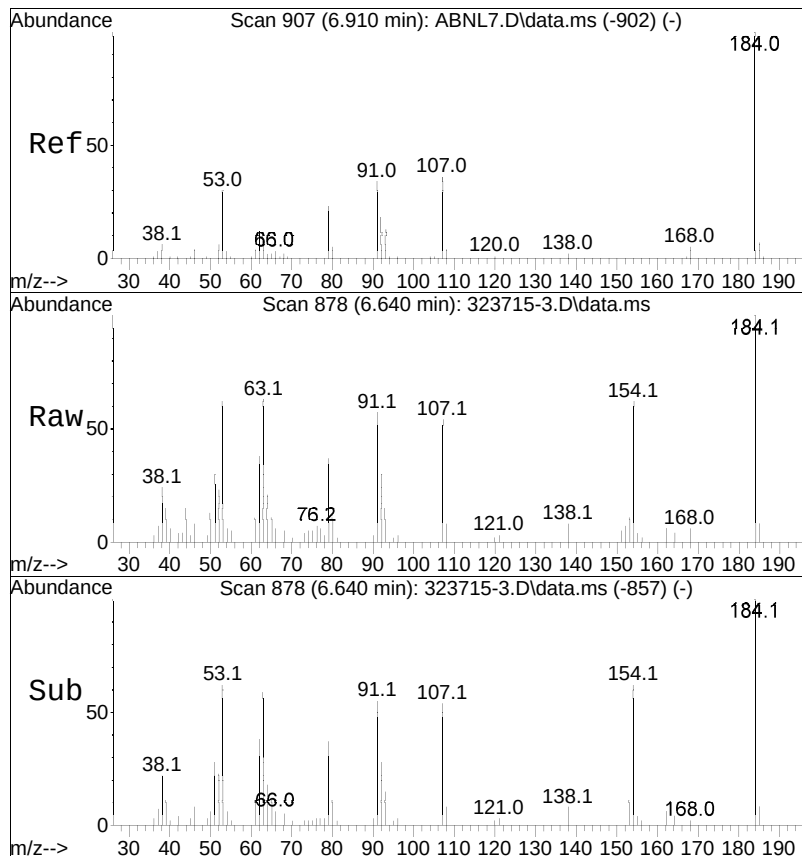




#65  
 Acenaphthene  
 Concen: 30.62 ug/ml  
 RT: 6.593 min Scan# 870  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

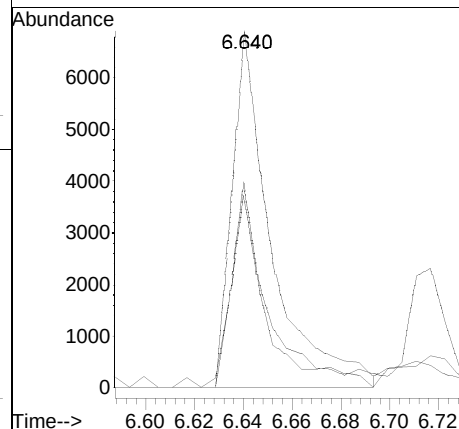
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:154 | Resp: | 236266 |
| Ion | Ratio   | Lower | Upper  |
| 154 | 100     |       |        |
| 153 | 120.5   | 89.2  | 133.8  |
| 152 | 57.4    | 44.2  | 66.2   |

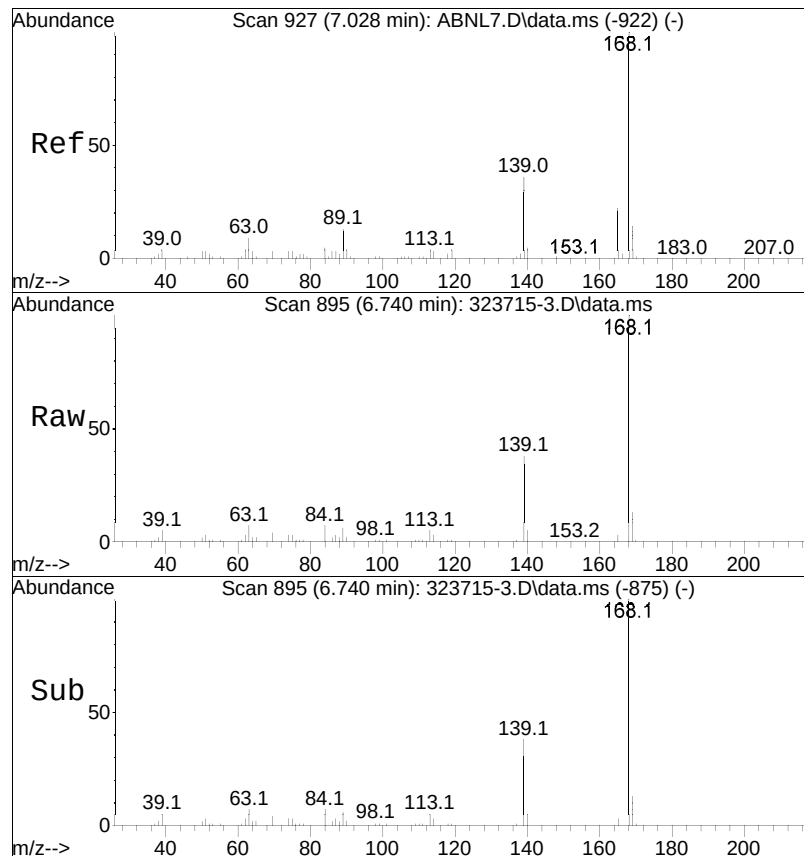




#66  
2,4-Dinitrophenol  
Concen: 9.95 ug/ml  
RT: 6.640 min Scan# 878  
Delta R.T. 0.000 min  
Lab File: 323715-3.D  
Acq: 24 Dec 2019 1:27 am

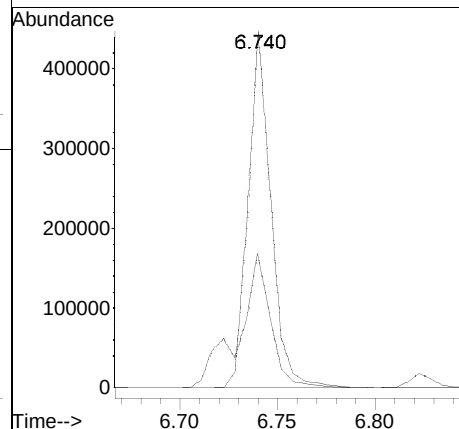
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 184   | Resp: | 7724 |
| Ion Ratio | Lower | Upper |      |
| 184       | 100   |       |      |
| 107       | 48.1  | 40.6  | 61.0 |
| 91        | 57.2  | 47.3  | 70.9 |



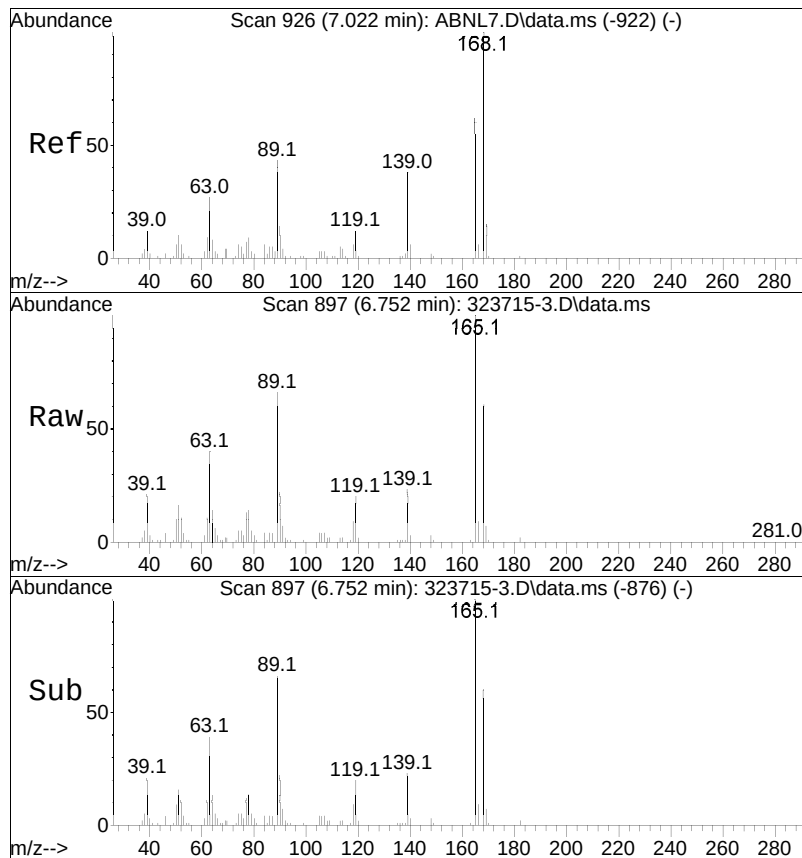


#67  
 Dibenzofuran  
 Concen: 30.98 ug/ml  
 RT: 6.740 min Scan# 895  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 54.3  | 33.3  | 49.9# |

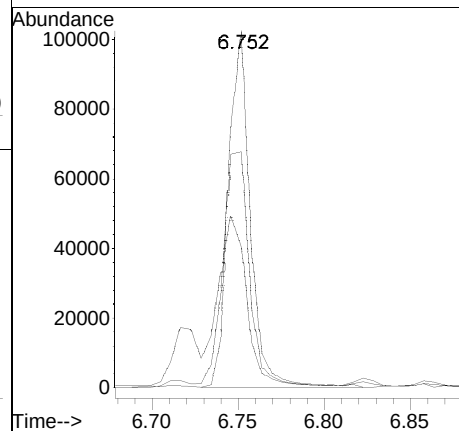


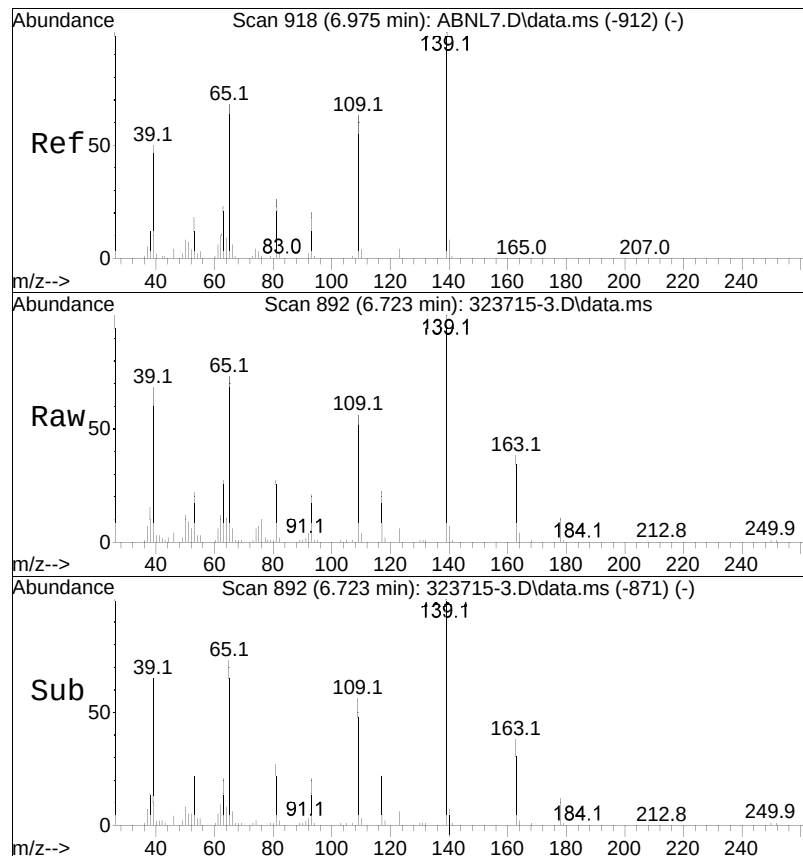




#68  
 2,4-Dinitrotoluene  
 Concen: 35.52 ug/ml  
 RT: 6.752 min Scan# 897  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

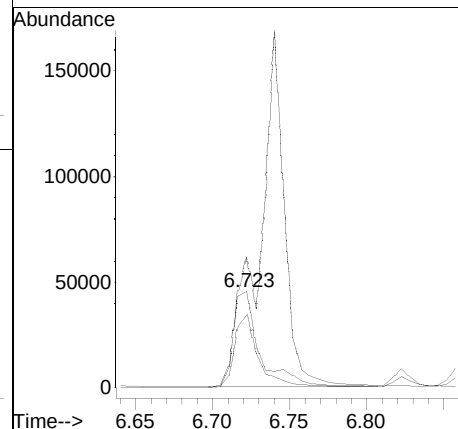
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 90000 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 89        | 82.7  | 82.6  | 124.0 |
| 63        | 61.8  | 56.9  | 85.3  |

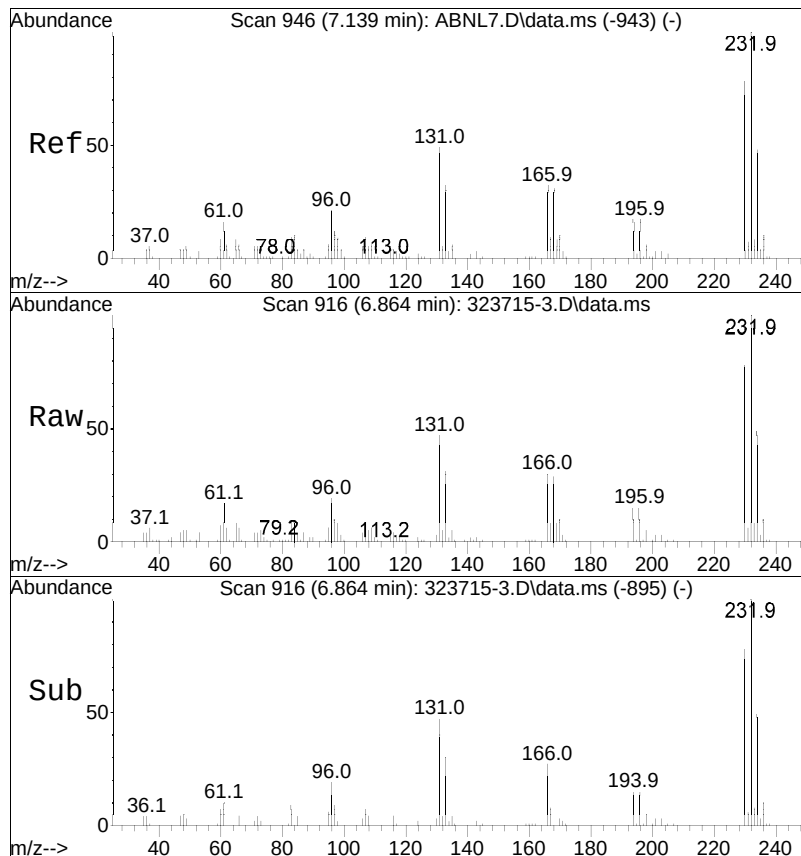




#69  
 4-Nitrophenol  
 Concen: 36.03 ug/ml  
 RT: 6.723 min Scan# 892  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

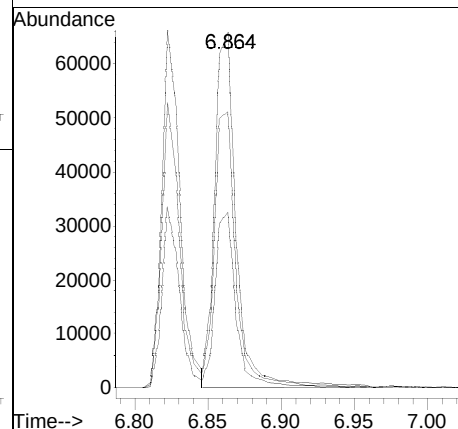
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 65 | Resp: | 55260  |
| Ion | Ratio   | Lower | Upper  |
| 65  | 100     |       |        |
| 109 | 67.9    | 60.7  | 91.1   |
| 139 | 352.3   | 90.3  | 135.5# |

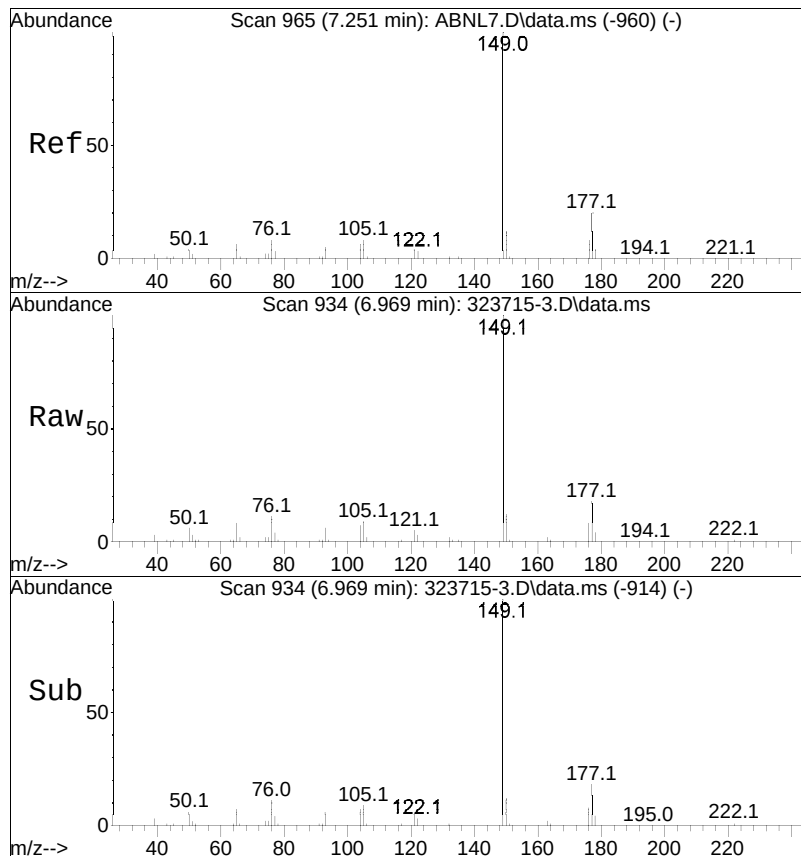




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 29.67 ug/ml  
 RT: 6.864 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

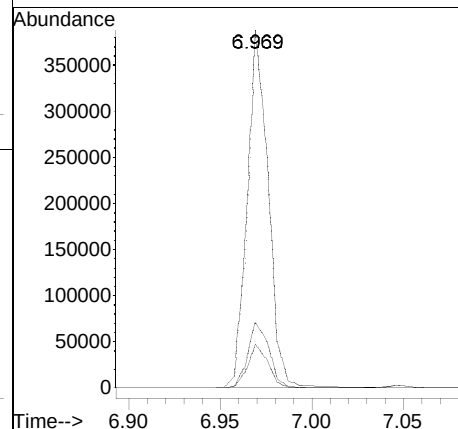
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 232   | Resp: | 66936 |
| Ion Ratio | Lower | Upper |       |
| 232       | 100   |       |       |
| 230       | 76.4  | 61.6  | 92.4  |
| 234       | 47.6  | 39.0  | 58.6  |

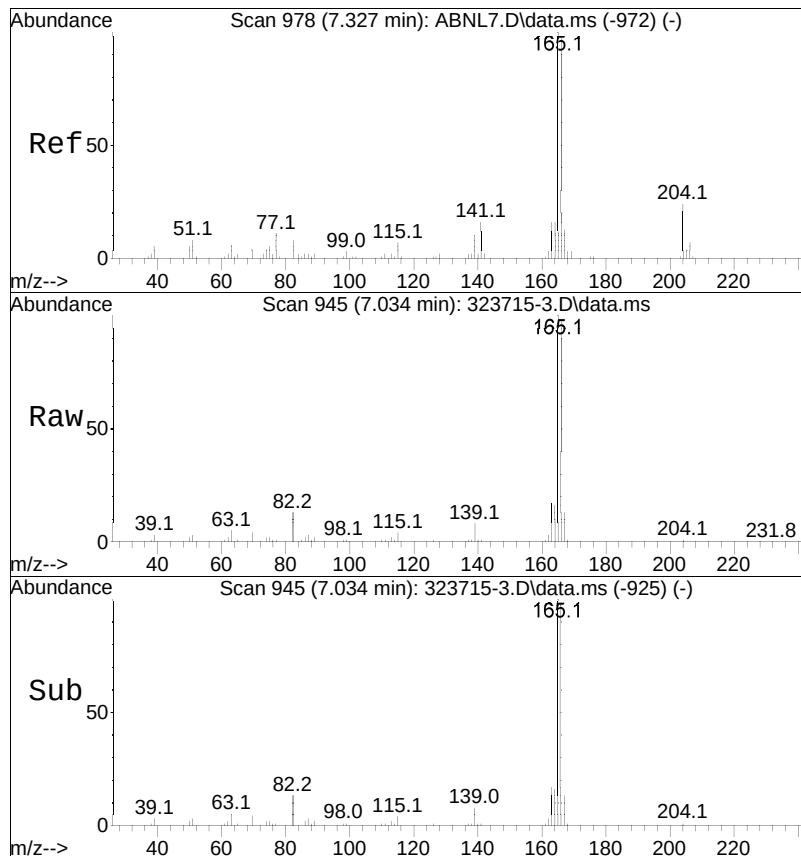




#72  
 Diethyl phthalate  
 Concen: 31.49 ug/ml  
 RT: 6.969 min Scan# 934  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

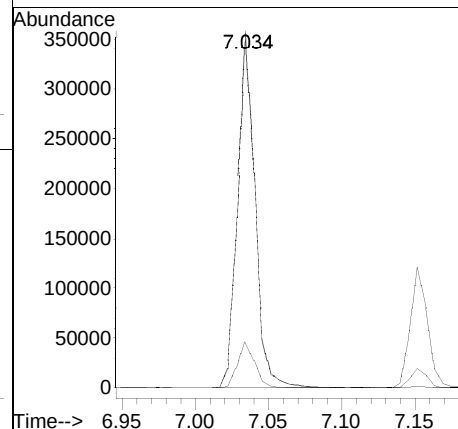
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 18.9  | 14.7  | 22.1  |
| 150     | 12.0  | 9.4   | 14.0  |

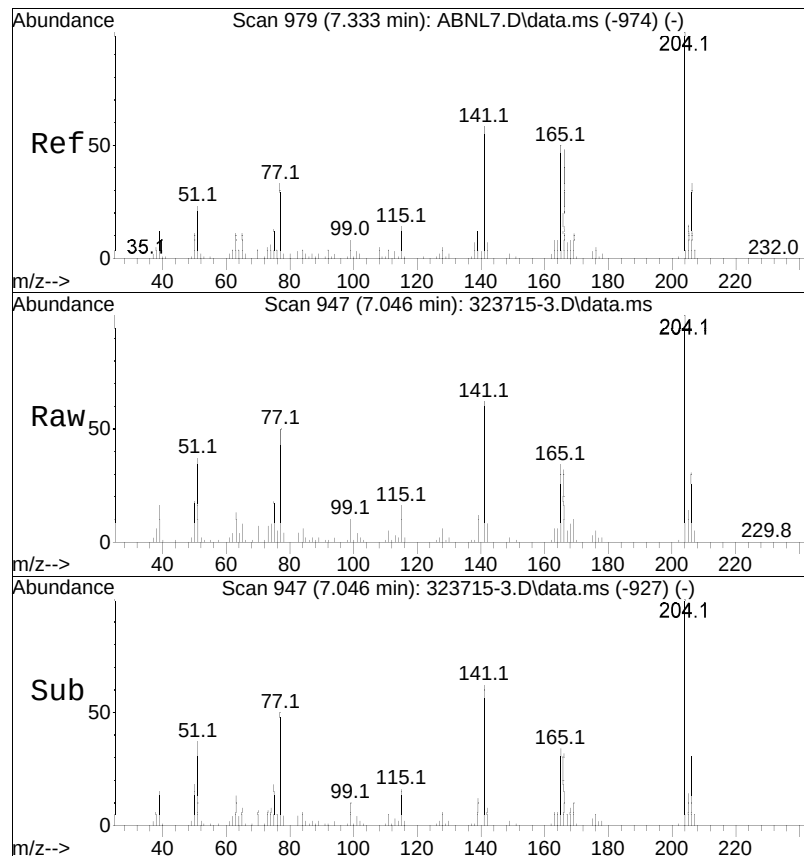




#73  
 Fluorene  
 Concen: 31.49 ug/ml  
 RT: 7.034 min Scan# 945  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

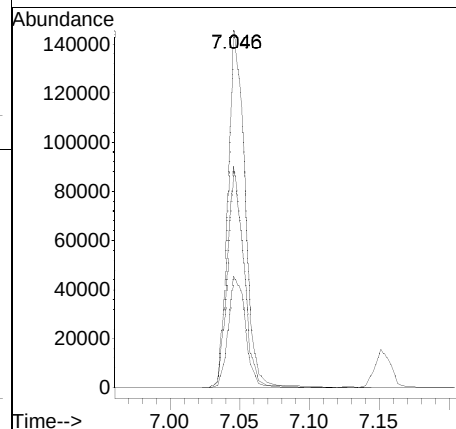
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 292950 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 102.8 | 76.7  | 115.1  |
| 167       | 13.3  | 11.0  | 16.4   |

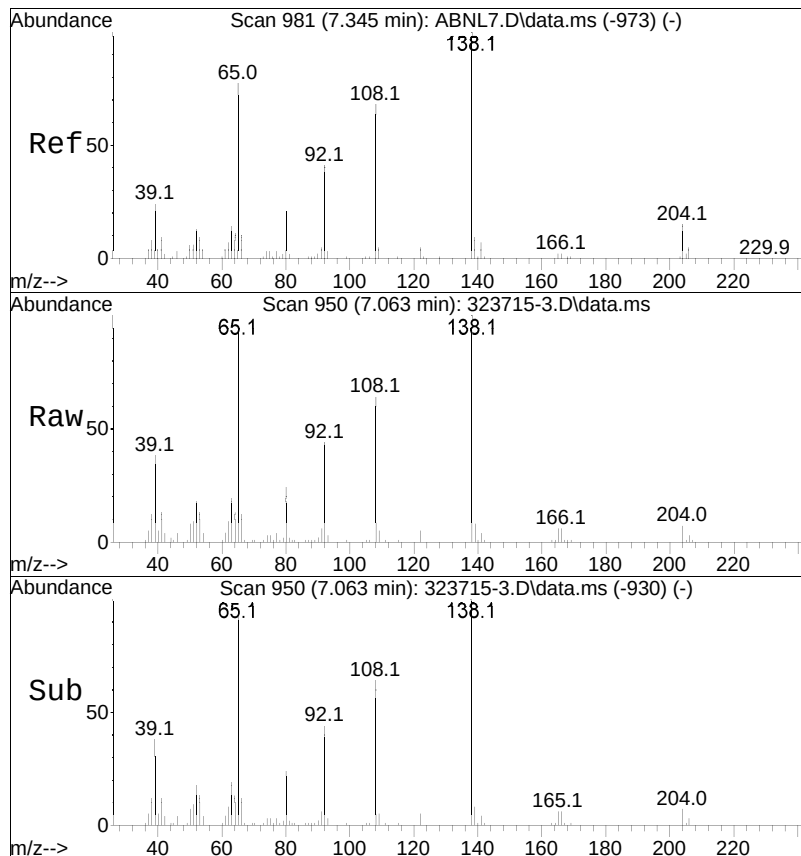




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 28.69 ug/ml  
 RT: 7.046 min Scan# 947  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

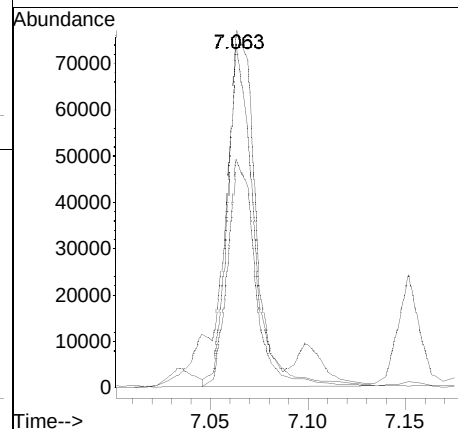
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 204     | 100   | 122000 |       |       |
| 206     | 32.4  |        | 25.8  | 38.6  |
| 141     | 60.1  |        | 56.2  | 84.4  |

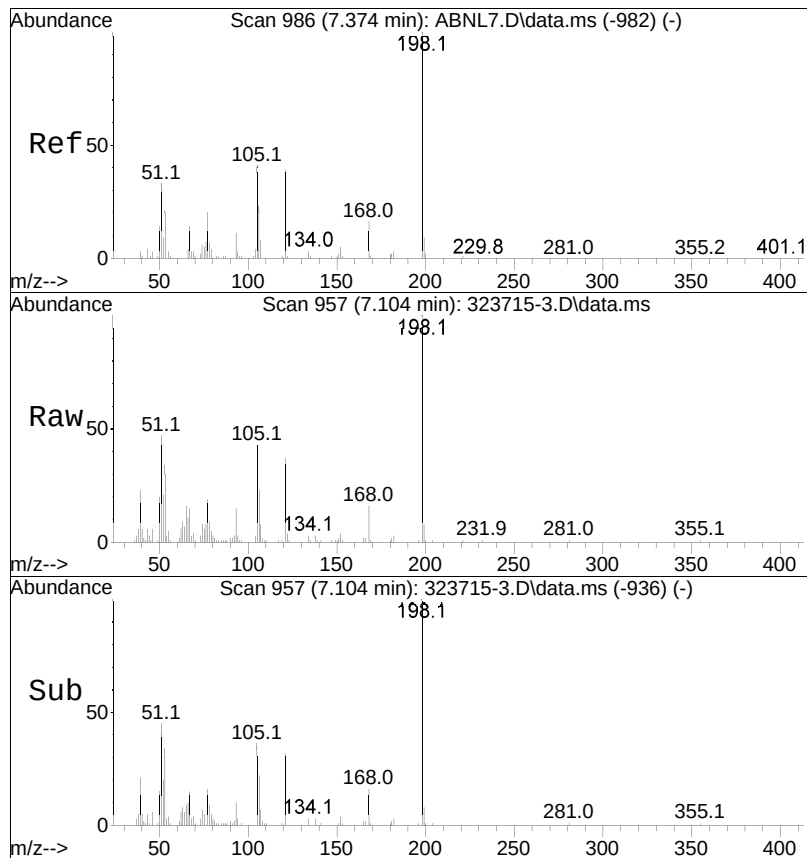




#75  
 4-Nitroaniline  
 Concen: 29.20 ug/ml  
 RT: 7.063 min Scan# 950  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

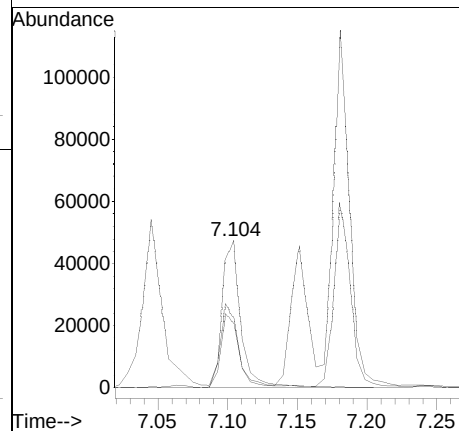
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 66.4  | 54.2  | 81.4  |
| 65      | 100.5 | 88.2  | 132.4 |



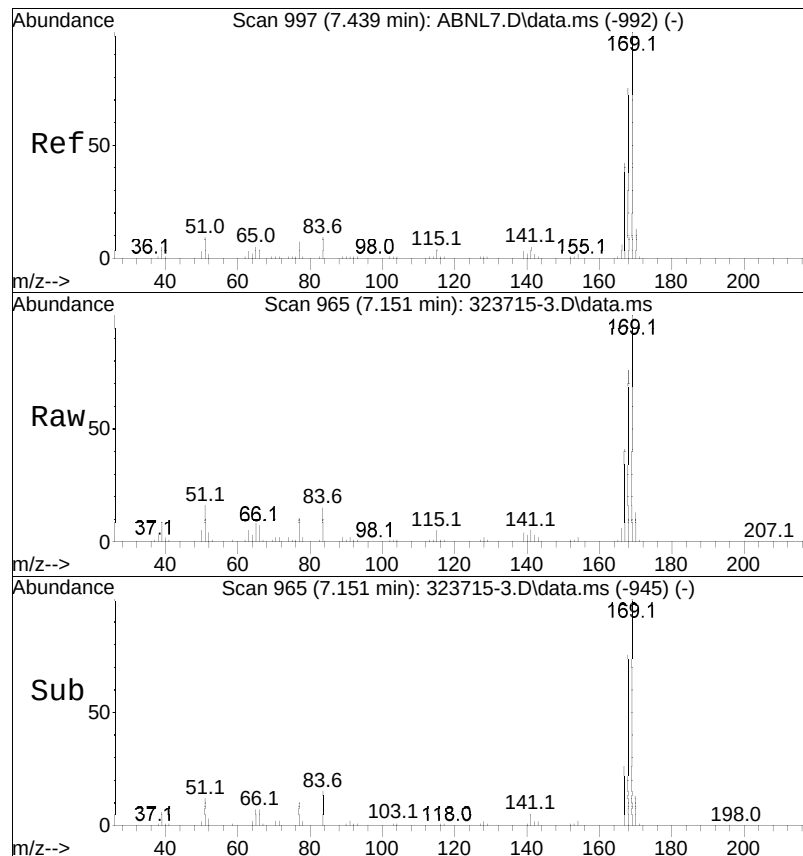


#76  
 4,6-Dinitro-o-cresol  
 Concen: 29.51 ug/ml  
 RT: 7.104 min Scan# 957  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 198     | 100   | 44489 |       |       |
| 51      | 50.1  |       | 41.0  | 61.4  |
| 105     | 48.2  |       | 49.0  | 73.4# |

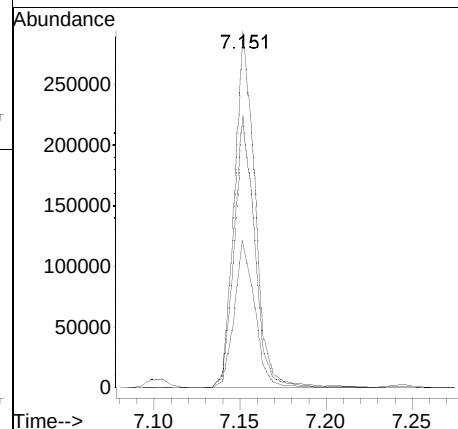


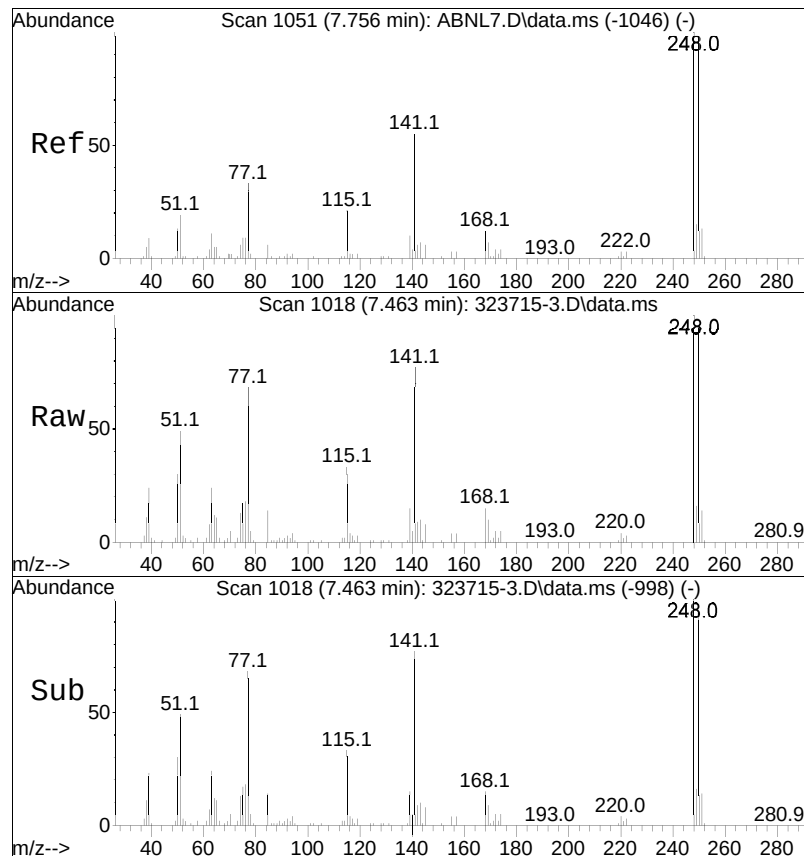




#77  
NDPA/DPA  
Concen: 30.55 ug/ml  
RT: 7.151 min Scan# 965  
Delta R.T. -0.006 min  
Lab File: 323715-3.D  
Acq: 24 Dec 2019 1:27 am

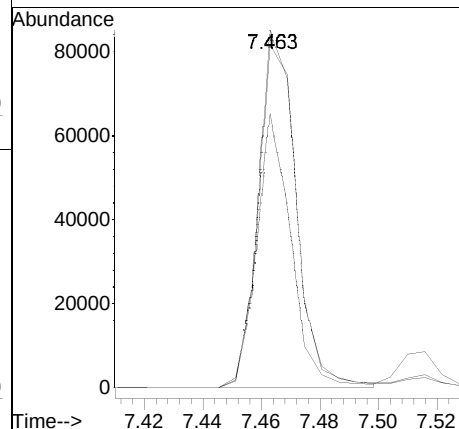
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 169   | Resp: | 245598 |
| Ion Ratio | Lower | Upper |        |
| 169       | 100   |       |        |
| 168       | 75.0  | 58.2  | 87.4   |
| 167       | 41.5  | 31.7  | 47.5   |

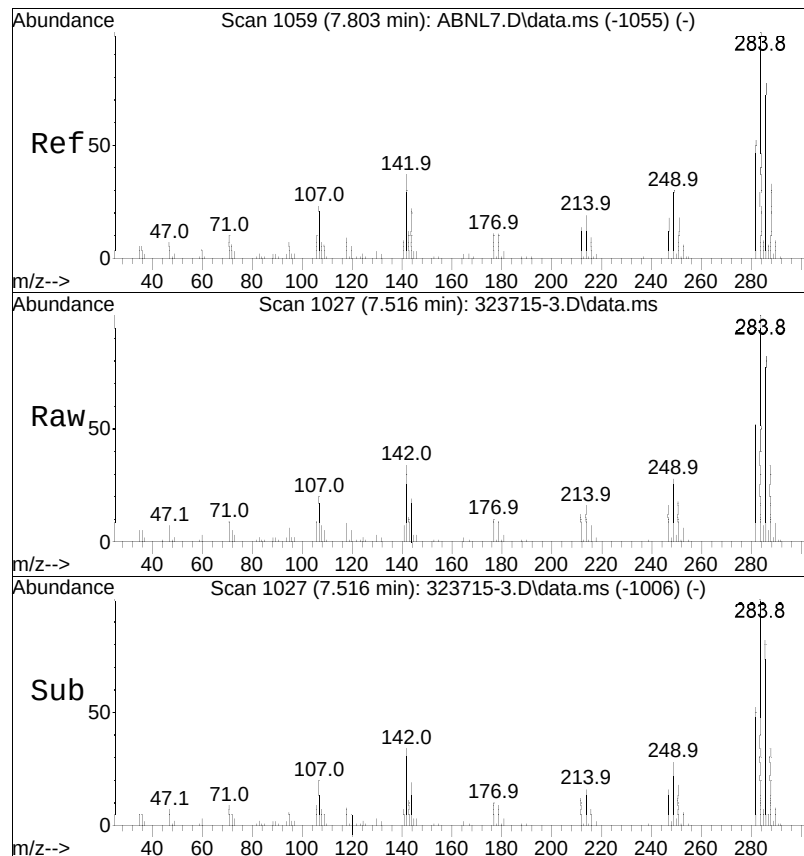




#80  
 4-Bromophenyl phenyl ether  
 Concen: 29.17 ug/ml  
 RT: 7.463 min Scan# 1018  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

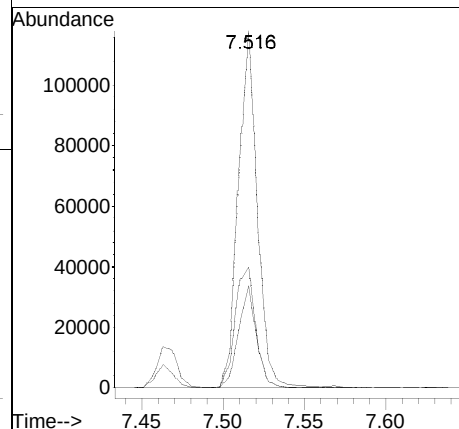
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 75433 |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 141       | 70.6  | 68.2  | 102.4 |
| 250       | 98.0  | 76.5  | 114.7 |

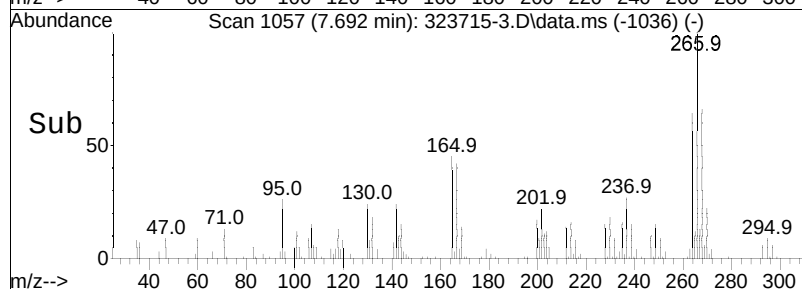
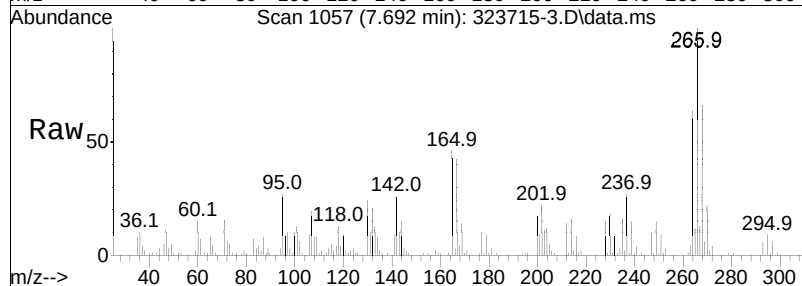
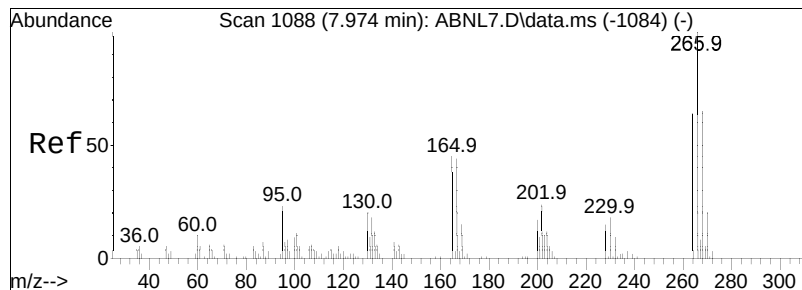




#81  
 Hexachlorobenzene  
 Concen: 30.83 ug/ml  
 RT: 7.516 min Scan# 1027  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

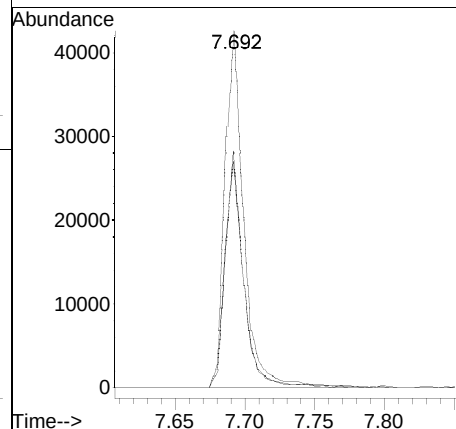
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 36.9  | 38.1  | 57.1# |
| 249     | 27.5  | 20.7  | 31.1  |

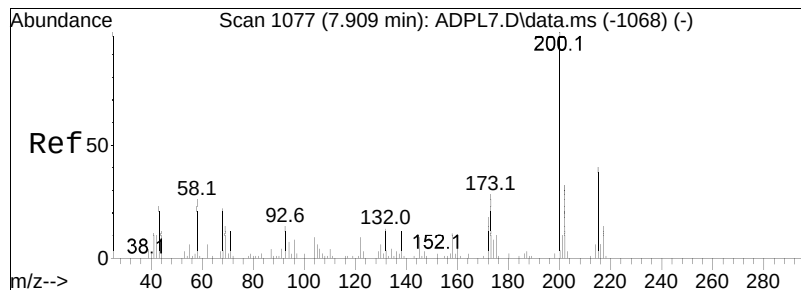




#82  
 Pentachlorophenol  
 Concen: 21.70 ug/ml  
 RT: 7.692 min Scan# 1057  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

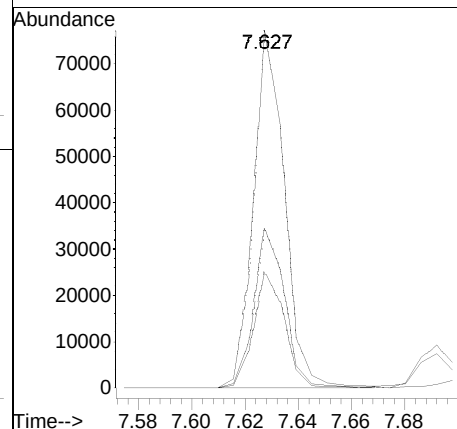
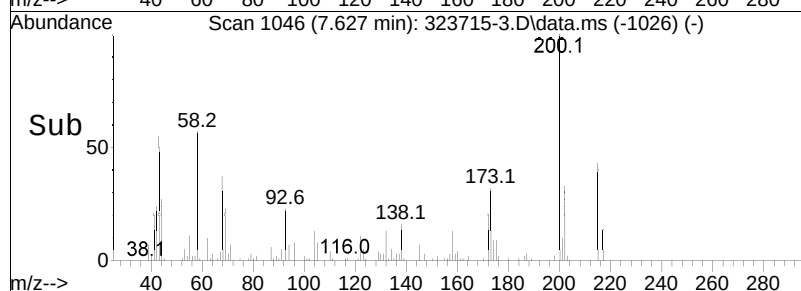
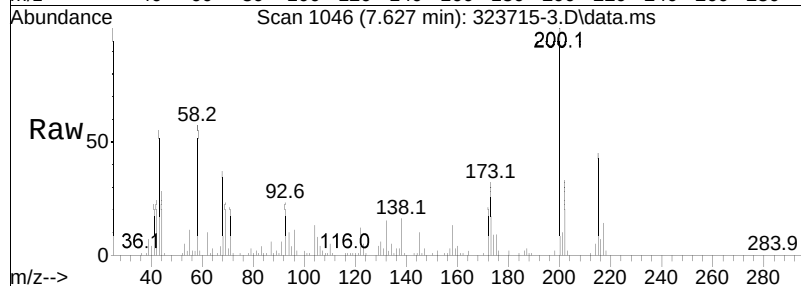
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 63.5  | 49.4  | 74.2  |
| 268     | 63.9  | 51.1  | 76.7  |

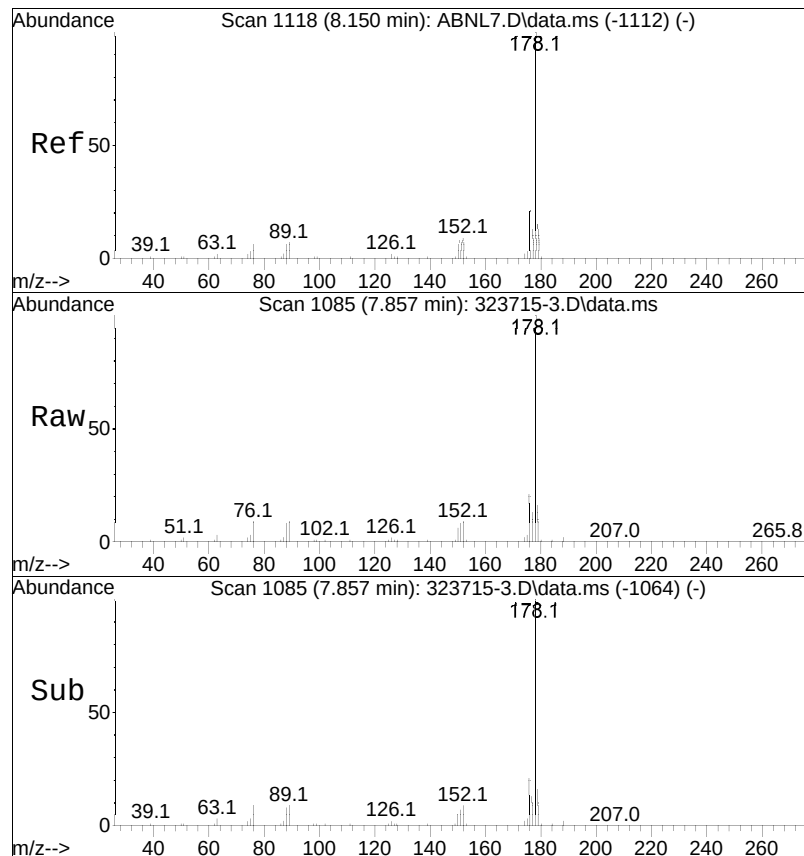




#87  
 Atrazine  
 Concen: 27.28 ug/ml  
 RT: 7.627 min Scan# 1046  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

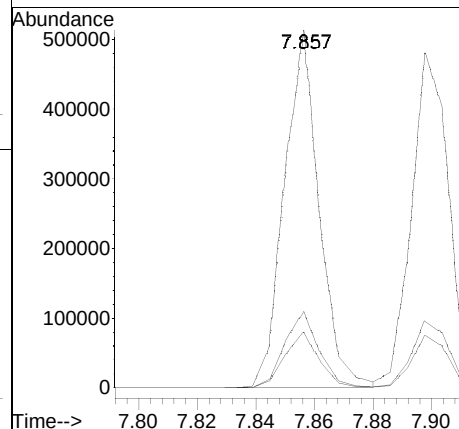
| Tgt | Ion  | Ratio | Resp  | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 200 | 100  |       | 62028 |       |       |
| 202 | 32.6 | 26.4  |       | 39.6  |       |
| 215 | 44.5 | 41.4  |       | 62.2  |       |

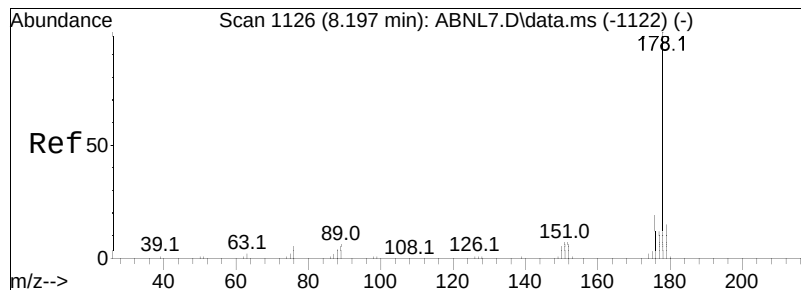




#89  
 Phenanthrene  
 Concen: 29.98 ug/ml  
 RT: 7.857 min Scan# 1085  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

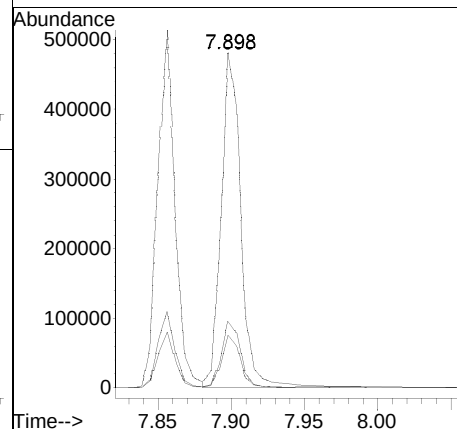
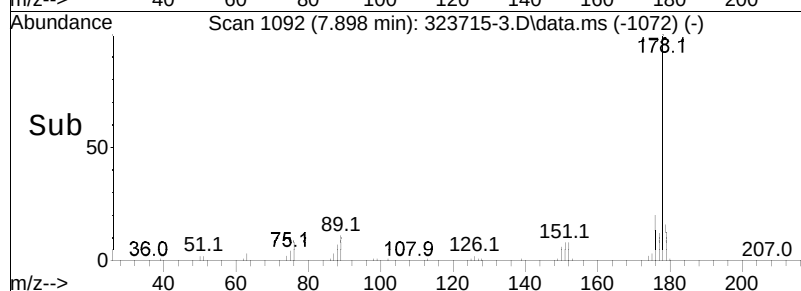
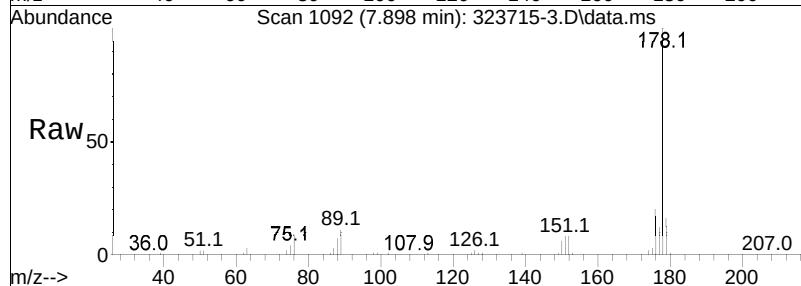
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 423527 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.9  | 19.3   |
| 176       | 21.2  | 16.7  | 25.1   |

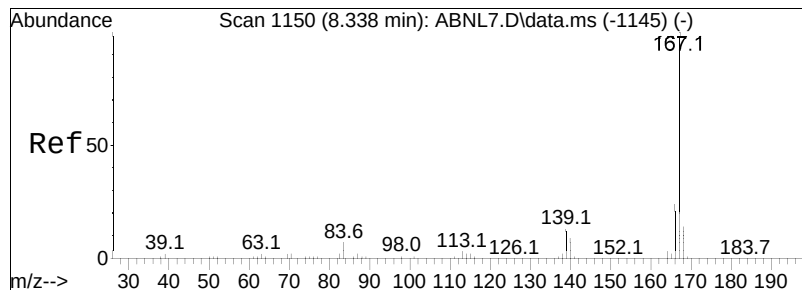




#90  
 Anthracene  
 Concen: 31.38 ug/ml  
 RT: 7.898 min Scan# 1092  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

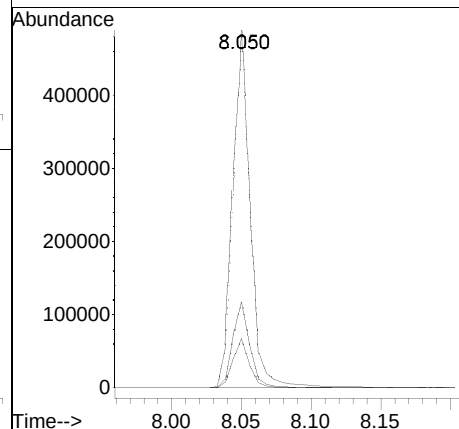
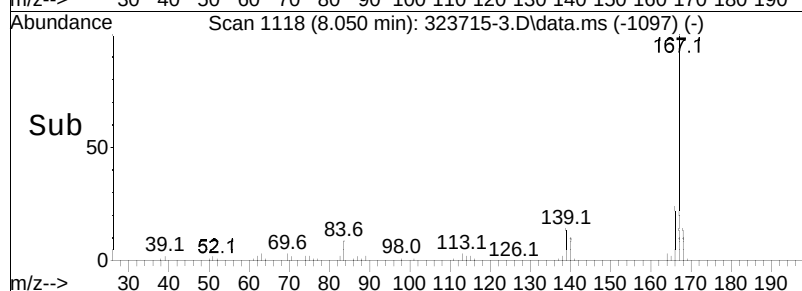
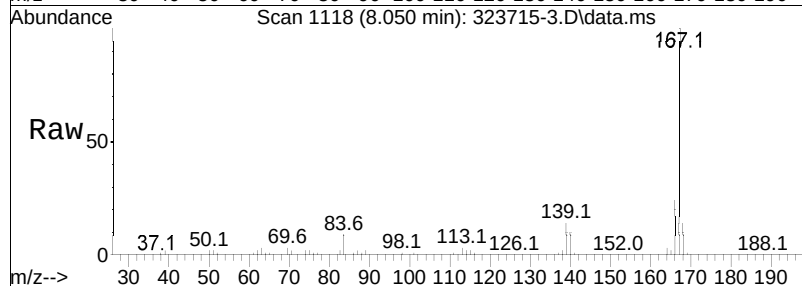
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 12.7  | 19.1  |
| 176     | 19.9  | 16.6  | 24.8  |



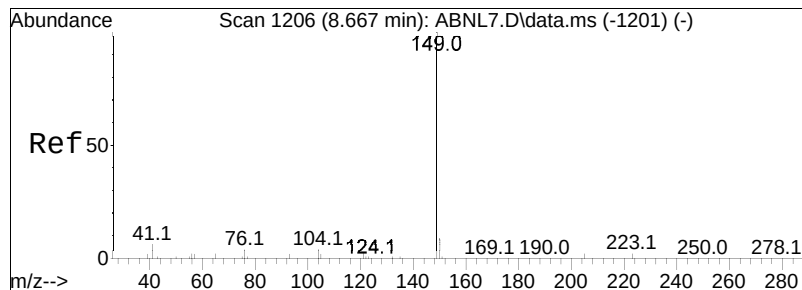


#91  
 Carbazole  
 Concen: 31.26 ug/ml  
 RT: 8.050 min Scan# 1118  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 168     | 13.6  | 11.3  | 16.9  |
| 166     | 23.9  | 18.9  | 28.3  |

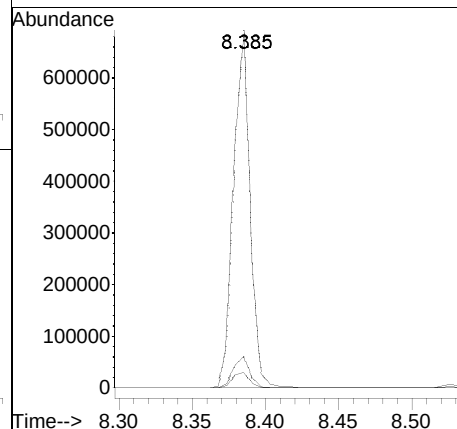
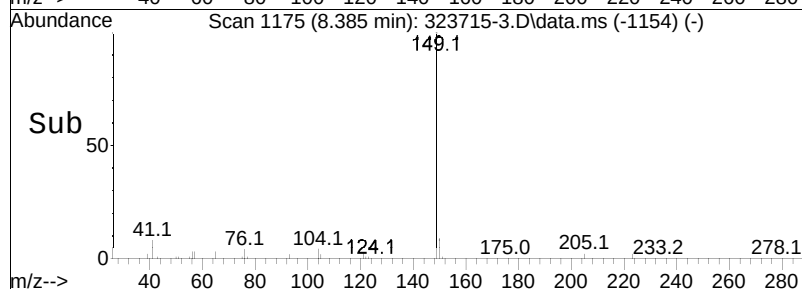
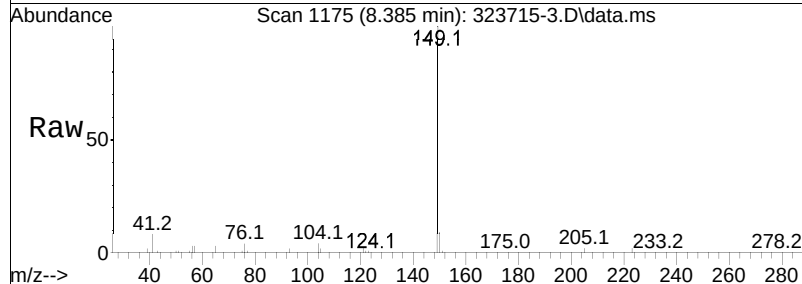


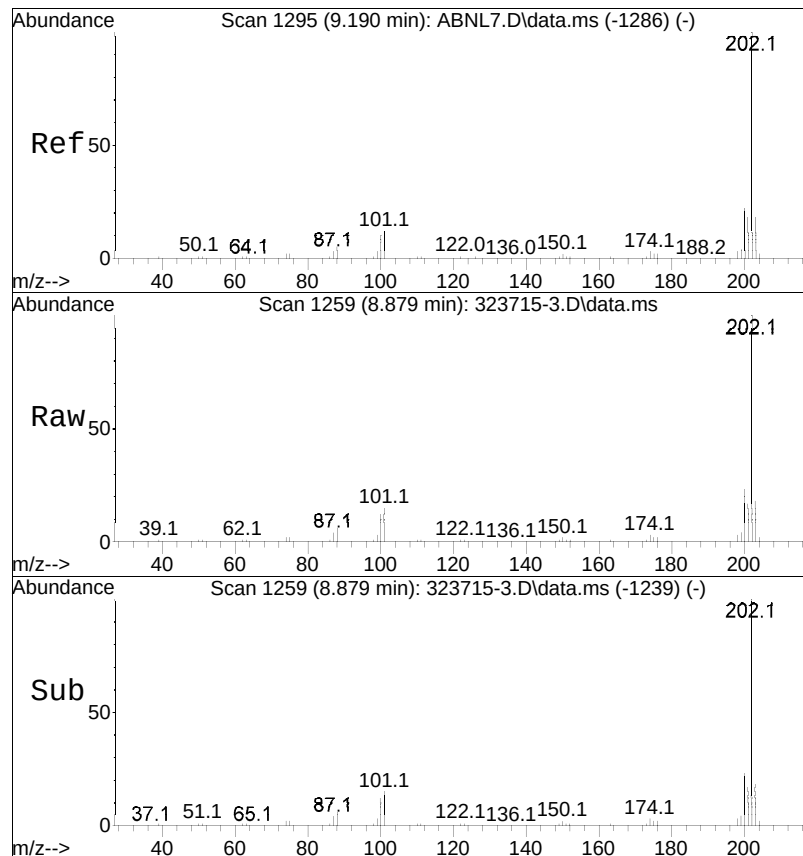




#92  
 Di-n-butylphthalate  
 Concen: 32.46 ug/ml  
 RT: 8.385 min Scan# 1175  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

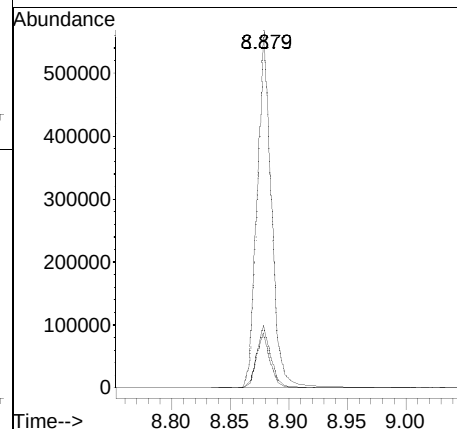
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 532542 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 9.0   | 7.8   | 11.6   |
| 104       | 4.6   | 4.8   | 7.2#   |

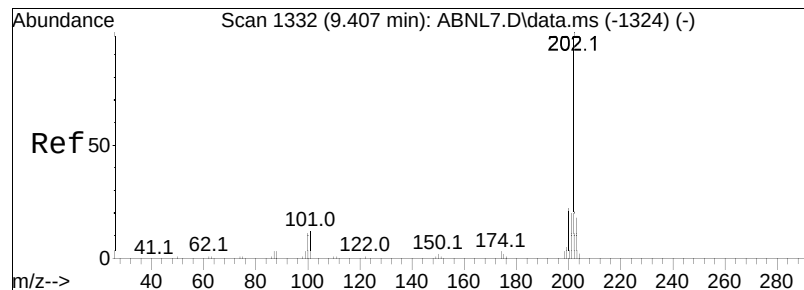




#93  
 Fluoranthene  
 Concen: 30.42 ug/ml  
 RT: 8.879 min Scan# 1259  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

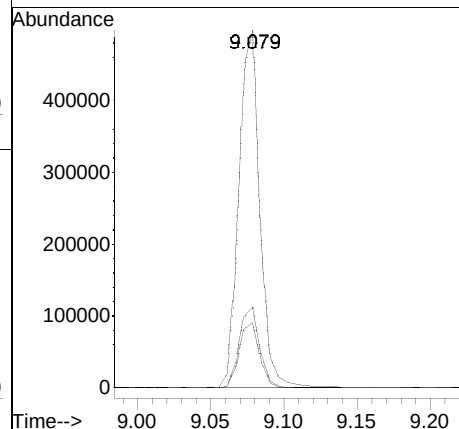
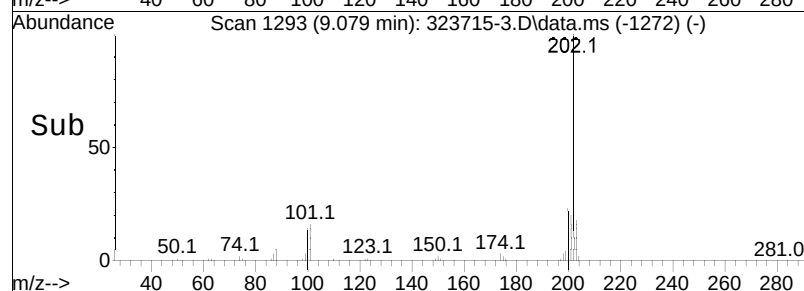
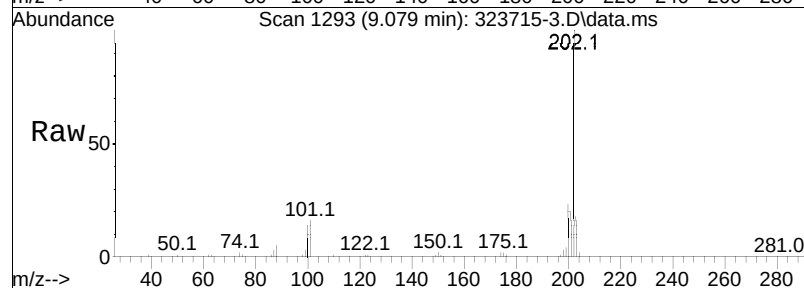
| Tgt | Ion | Ratio | Lower | Upper |
|-----|-----|-------|-------|-------|
| 202 | 202 | 100   |       |       |
| 101 | 101 | 15.2  | 18.6  | 28.0# |
| 203 | 203 | 17.2  | 14.2  | 21.2  |

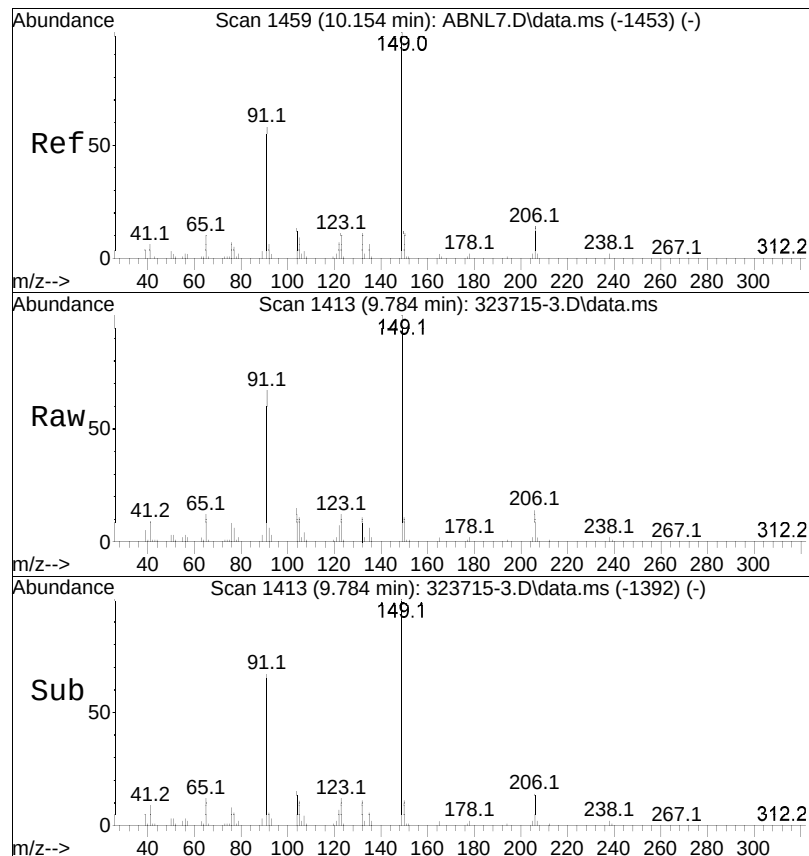




#95  
 Pyrene  
 Concen: 29.75 ug/ml  
 RT: 9.079 min Scan# 1293  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

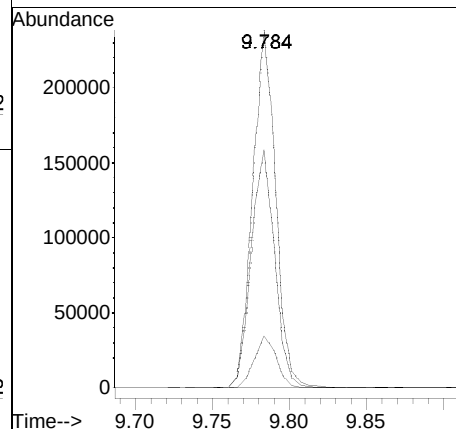
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.6  | 17.8  | 26.8  |
| 203     | 18.4  | 14.7  | 22.1  |

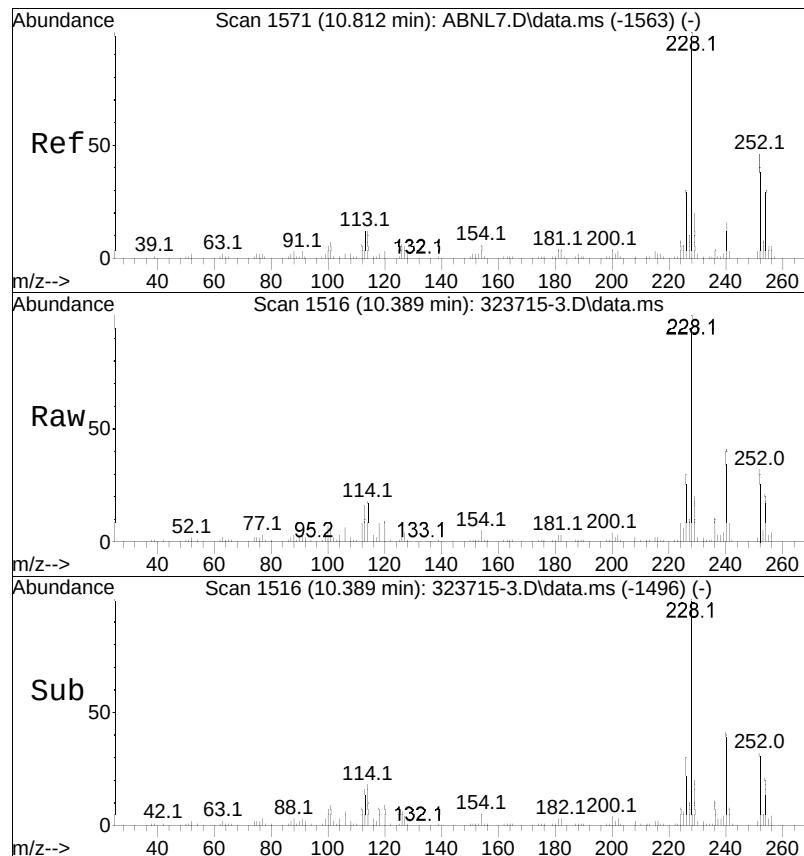




#97  
 Butyl benzyl phthalate  
 Concen: 32.58 ug/ml  
 RT: 9.784 min Scan# 1413  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

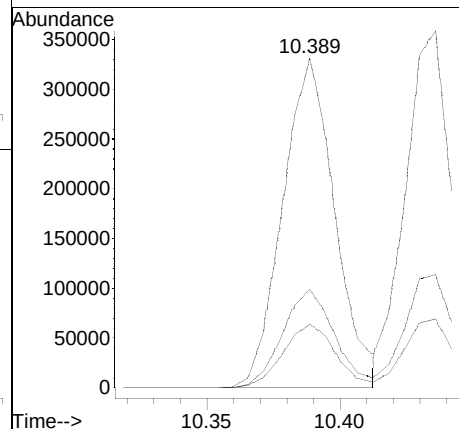
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 245003 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 68.4  | 69.0  | 103.6# |
| 206       | 14.4  | 11.8  | 17.8   |

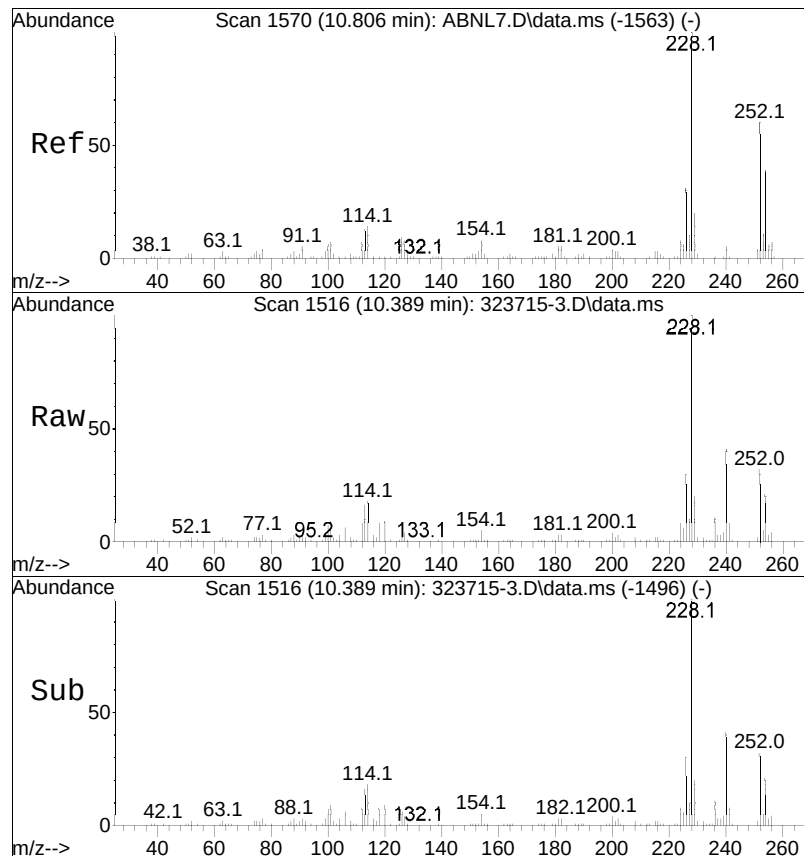




#105  
 Benzo(a)anthracene  
 Concen: 27.71 ug/ml  
 RT: 10.389 min Scan# 1516  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

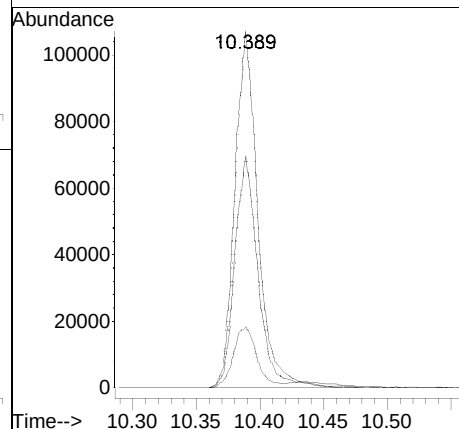
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 23.7  | 35.5  |
| 229     | 19.6  | 16.2  | 24.4  |

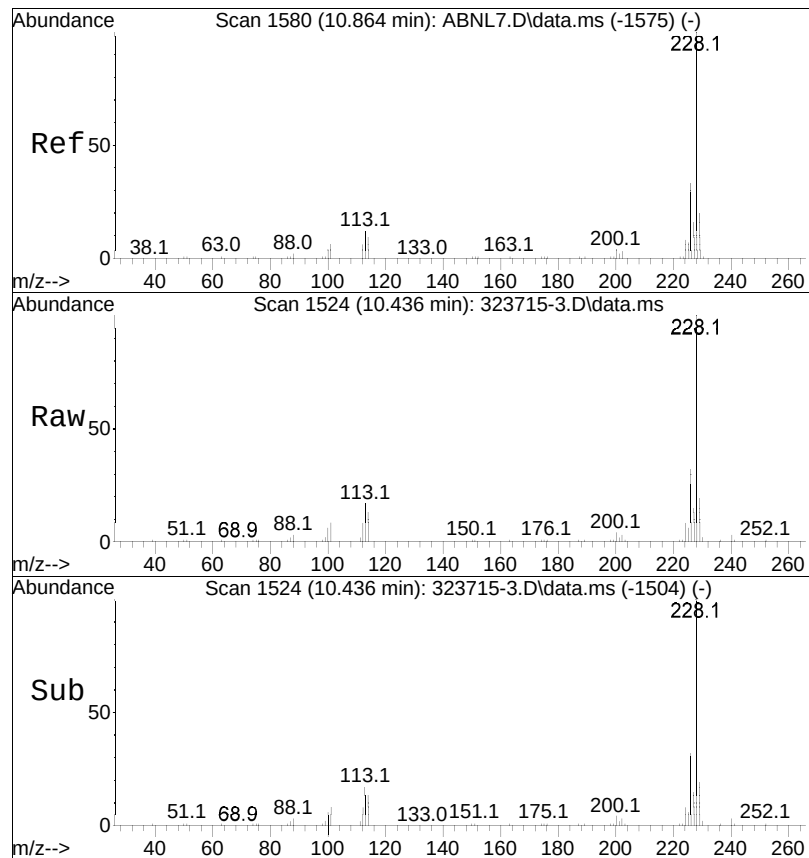




#106  
 3,3'-Dichlorobenzidine  
 Concen: 20.93 ug/ml  
 RT: 10.389 min Scan# 1516  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

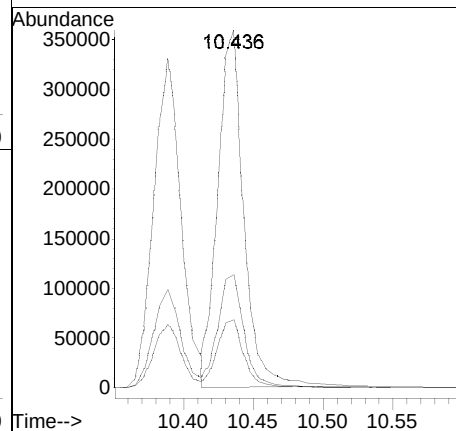
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 126     | 17.7  | 17.8  | 26.6# |
| 254     | 65.7  | 51.8  | 77.6  |

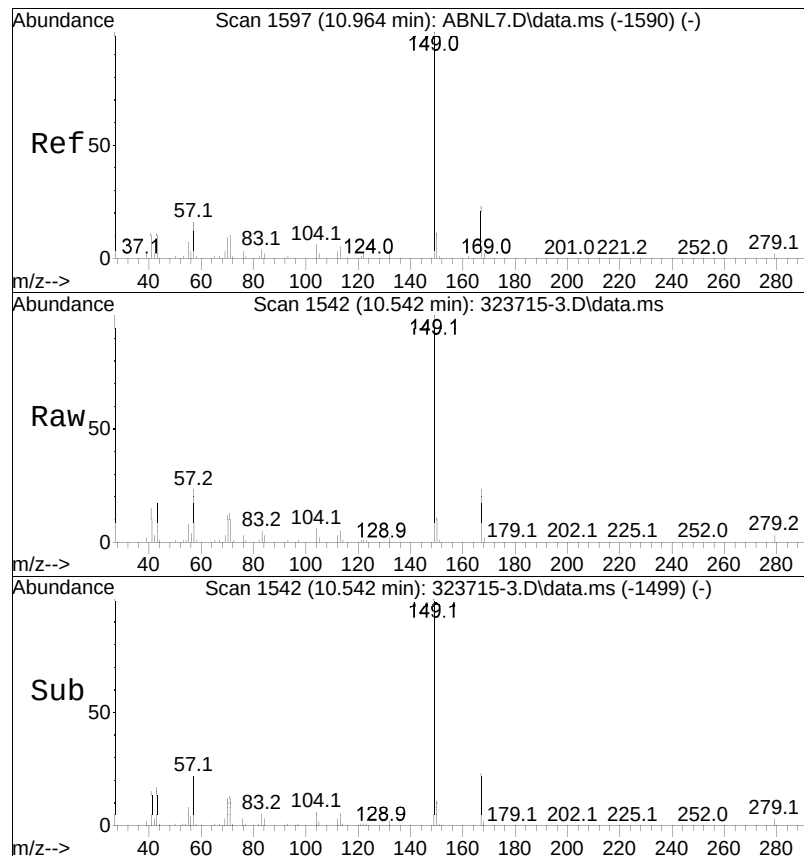




#107  
 Chrysene  
 Concen: 28.59 ug/ml  
 RT: 10.436 min Scan# 1524  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

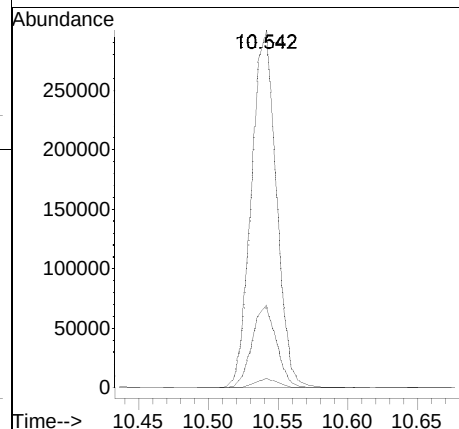
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.5  | 25.9  | 38.9  |
| 229     | 19.8  | 16.2  | 24.4  |



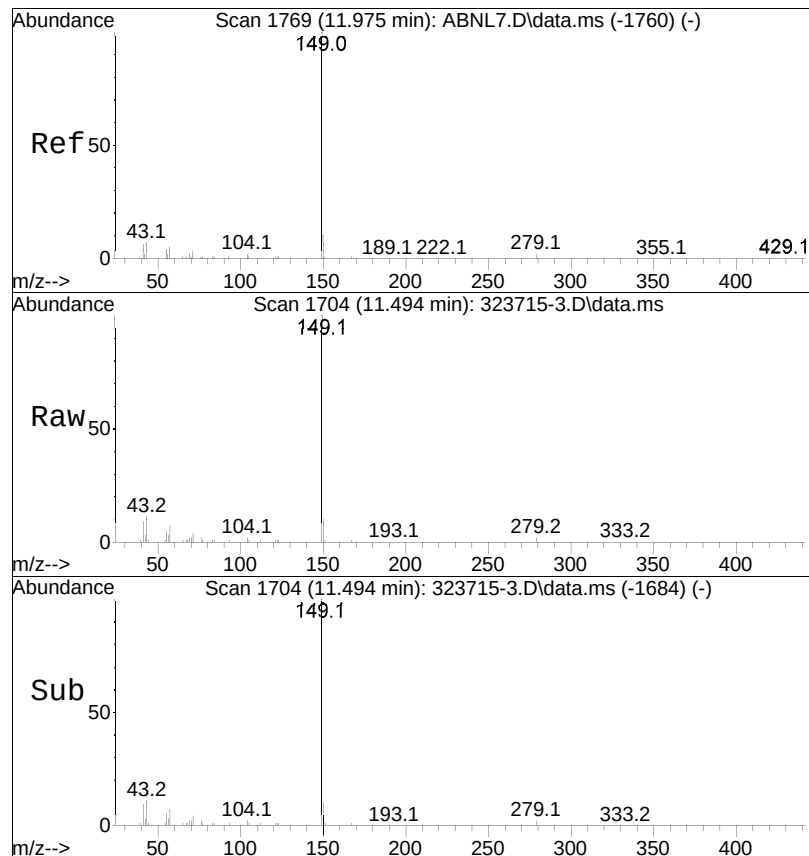


#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 31.64 ug/ml  
 RT: 10.542 min Scan# 1542  
 Delta R.T. 0.000 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 371487 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 22.9  | 21.0  | 31.4   |
| 279       | 2.5   | 3.6   | 5.4#   |

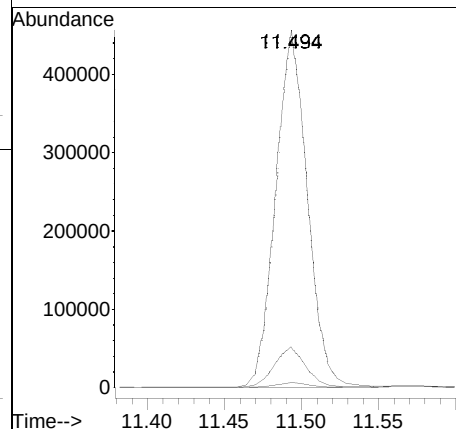


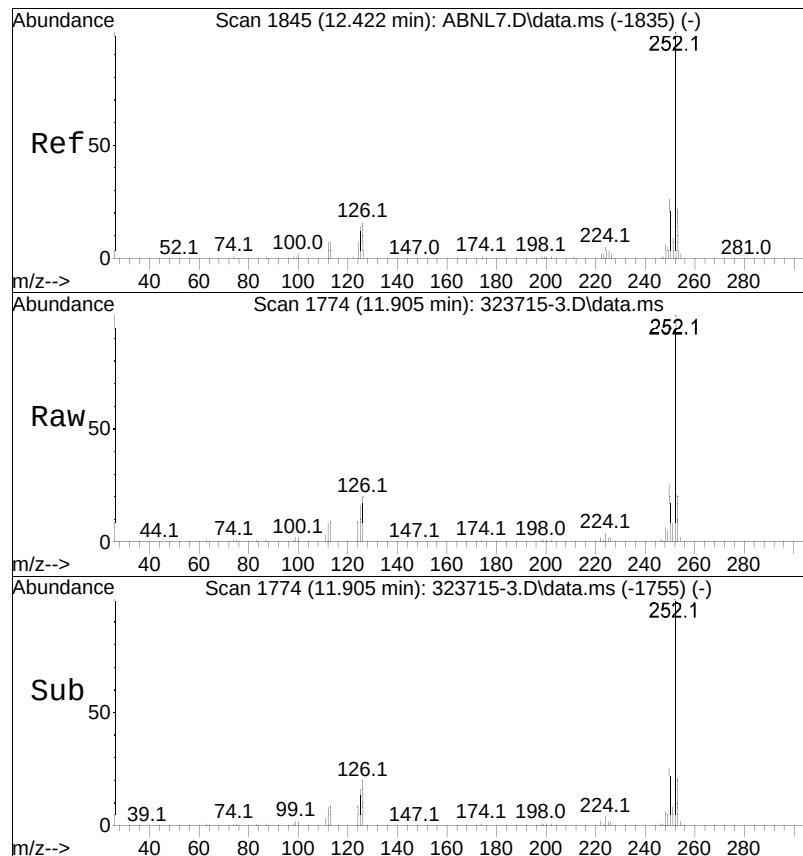




#109  
 Di-n-octylphthalate  
 Concen: 31.01 ug/ml  
 RT: 11.494 min Scan# 1704  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

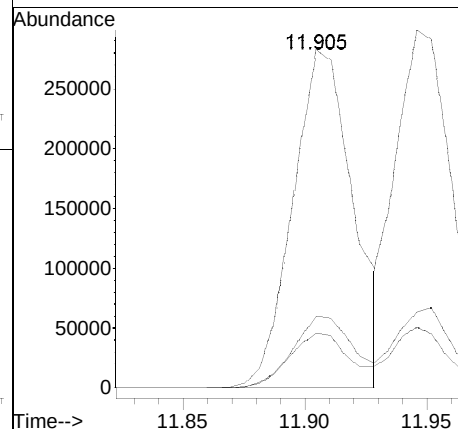
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 642739 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 43        | 11.4  | 8.4   | 12.6   |
| 167       | 1.3   | 1.0   | 1.6    |

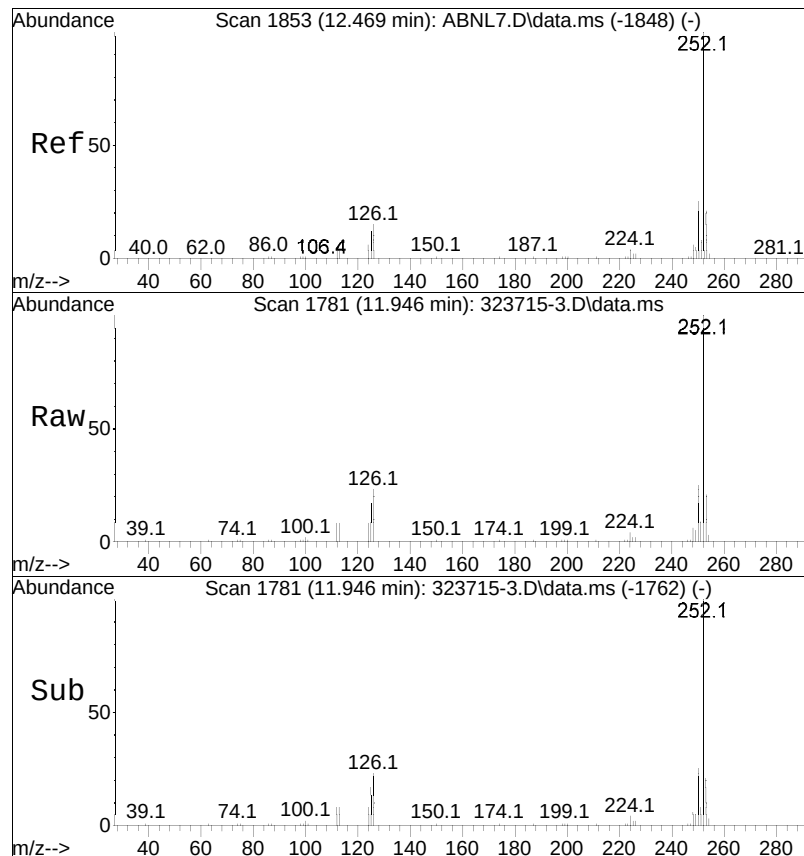




#110  
 Benzo(b)fluoranthene  
 Concen: 28.58 ug/ml  
 RT: 11.905 min Scan# 1774  
 Delta R.T. -0.011 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

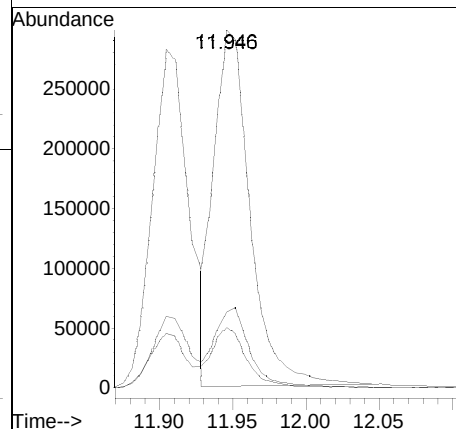
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 488114 |       |       |
| 125 | 15.3 | 16.9  | 25.3#  |       |       |
| 253 | 21.4 | 17.7  | 26.5   |       |       |

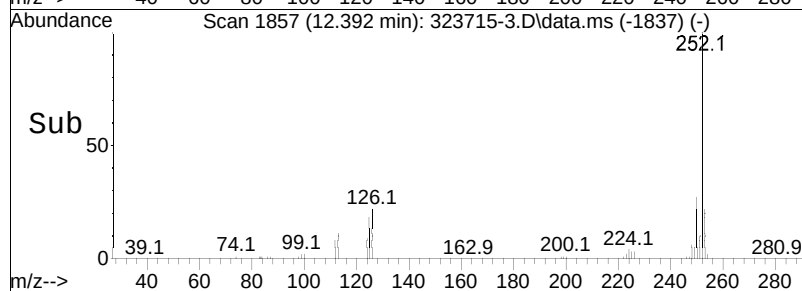
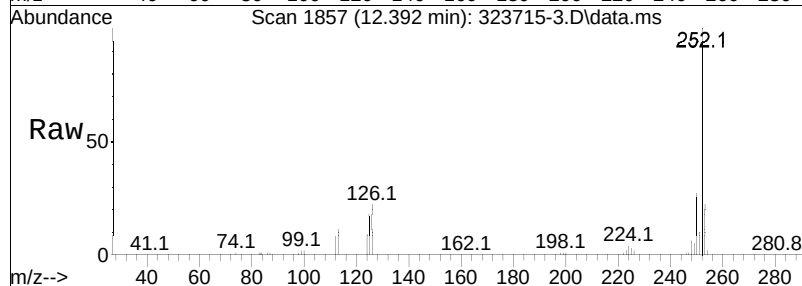
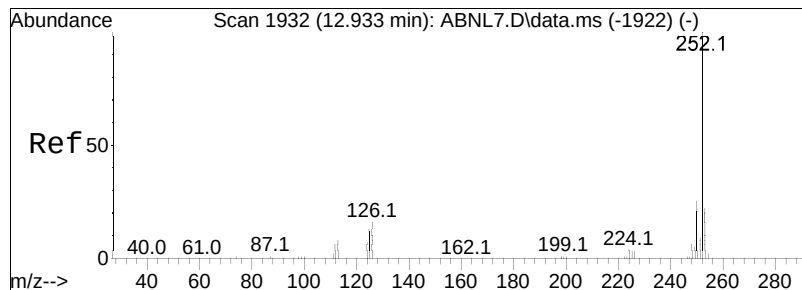




#111  
 Benzo(k)fluoranthene  
 Concen: 30.41 ug/ml  
 RT: 11.946 min Scan# 1781  
 Delta R.T. -0.011 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

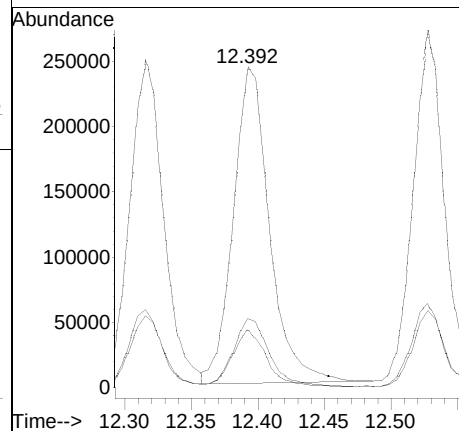
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 17.0  | 16.6  | 25.0  |
| 253     | 21.8  | 17.7  | 26.5  |

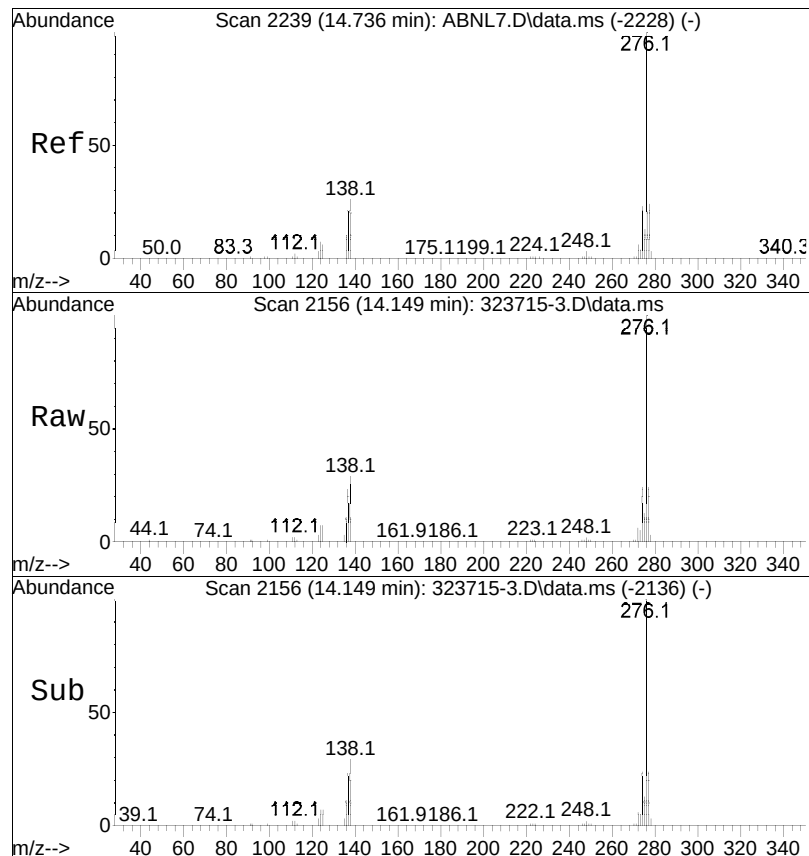




#112  
 Benzo(a)pyrene  
 Concen: 27.88 ug/ml  
 RT: 12.392 min Scan# 1857  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

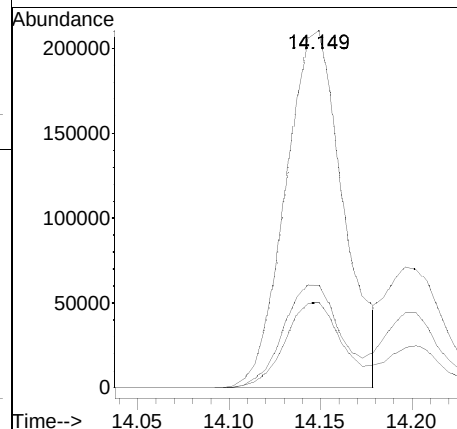
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 125     | 17.0  | 18.3  | 27.5# |
| 253     | 21.5  | 17.6  | 26.4  |

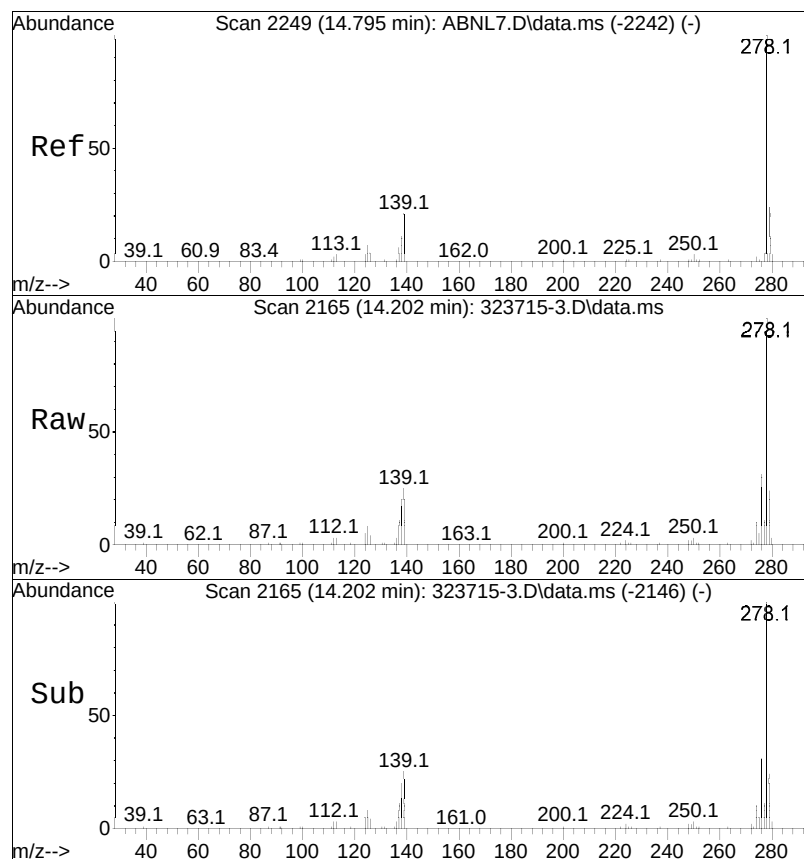




#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 30.55 ug/mL  
 RT: 14.149 min Scan# 2156  
 Delta R.T. -0.006 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

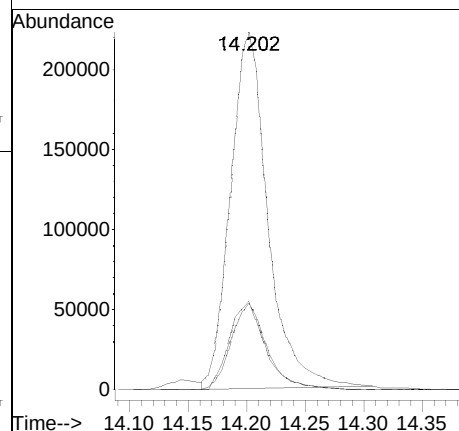
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:276 | Resp: | 461223 |
| Ion | Ratio   | Lower | Upper  |
| 276 | 100     |       |        |
| 138 | 28.7    | 29.6  | 44.4#  |
| 277 | 23.3    | 19.1  | 28.7   |

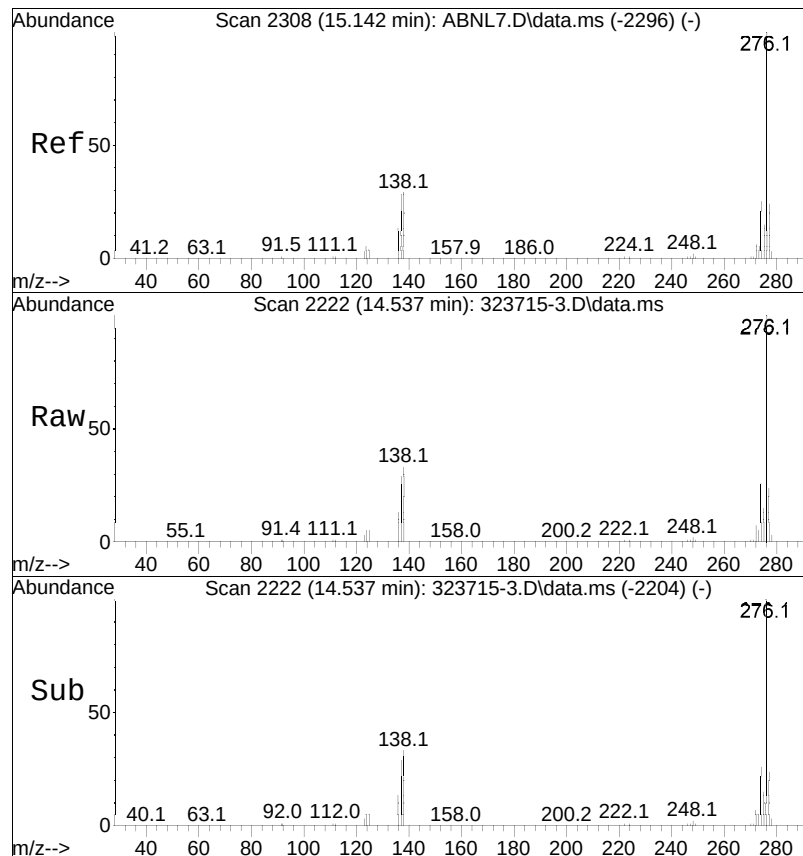




#115  
 Dibenzo(a,h)anthracene  
 Concen: 32.25 ug/ml  
 RT: 14.202 min Scan# 2165  
 Delta R.T. -0.011 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

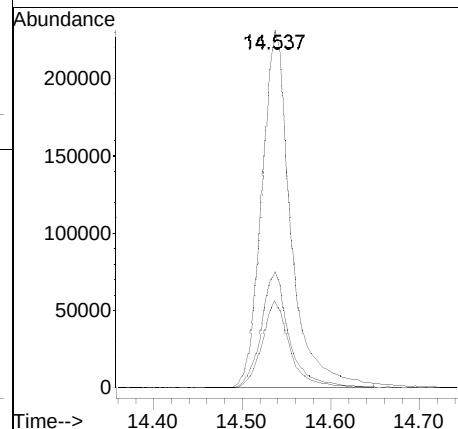
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 488195 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 24.6  | 24.7  | 37.1#  |
| 279       | 24.3  | 19.6  | 29.4   |





#116  
 Benzo(ghi)perylene  
 Concen: 33.06 ug/ml  
 RT: 14.537 min Scan# 2222  
 Delta R.T. -0.017 min  
 Lab File: 323715-3.D  
 Acq: 24 Dec 2019 1:27 am

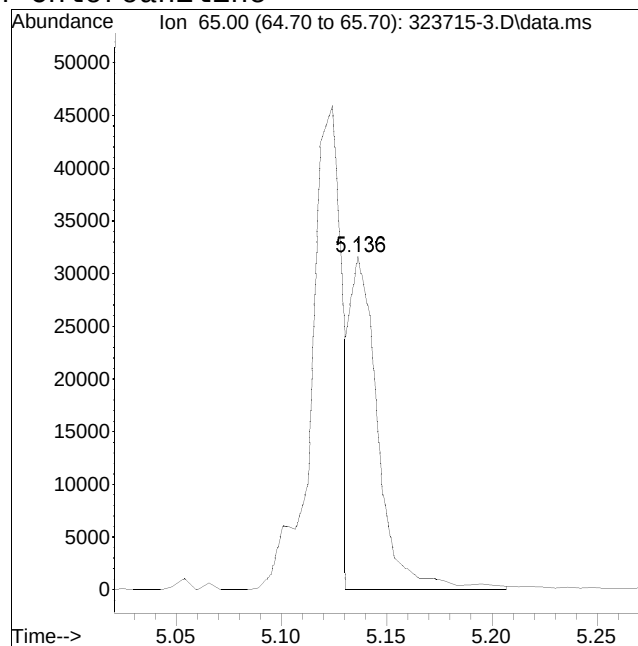
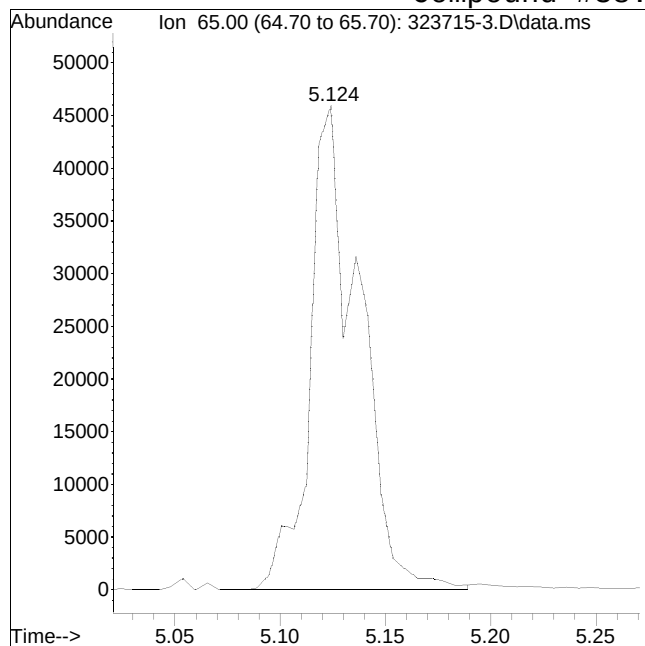
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.8  | 43.5  | 65.3# |
| 277     | 23.9  | 22.6  | 33.8  |



# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-3.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 1:27 am Instrument : Buffy  
Sample : wg1323715-3,32,,ny,ask Quant Date : 12/24/2019 10:35 am

## Compound #38: 4-Chloroaniline



Original Peak Response = 74485

Manual Peak Response = 27183 M3

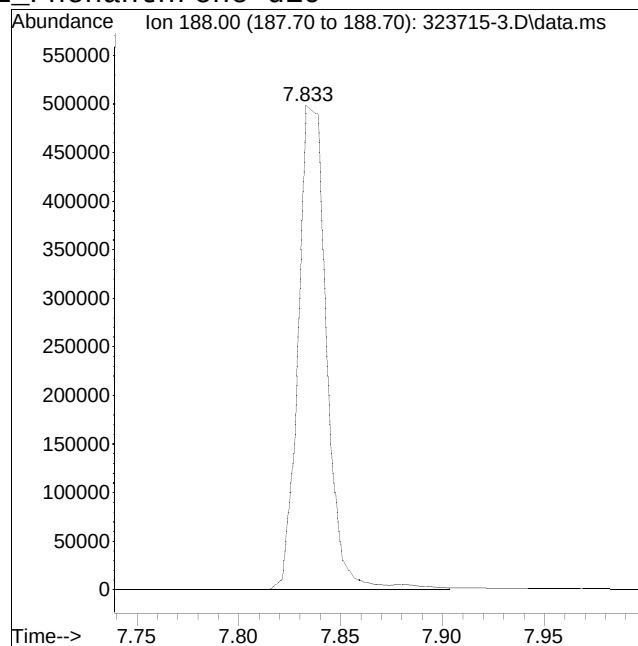
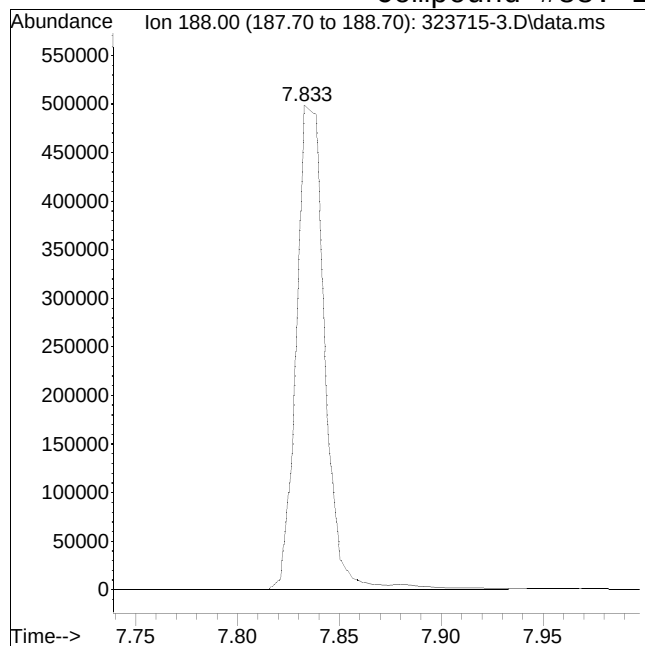
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-3.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 1:27 am Instrument : Buffy  
Sample : wg1323715-3,32,,ny,ask Quant Date : 12/24/2019 10:35 am

## Compound #88: IS1 Phenanthrene-d10



Original Peak Response = 485874

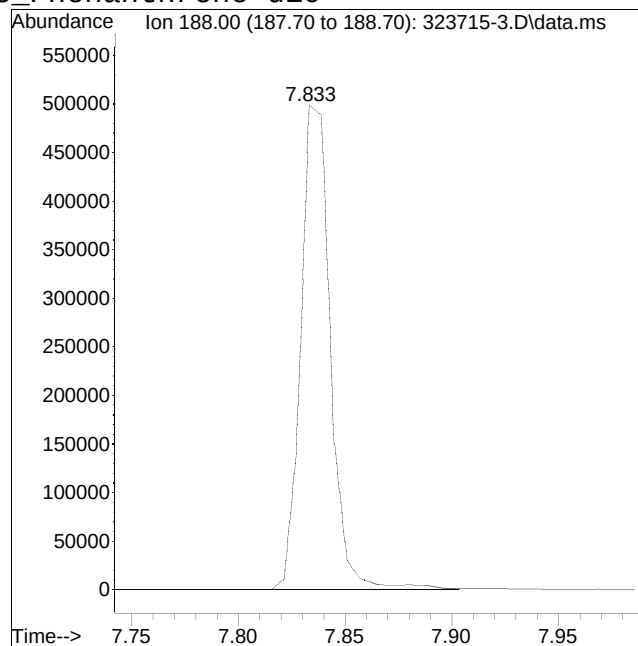
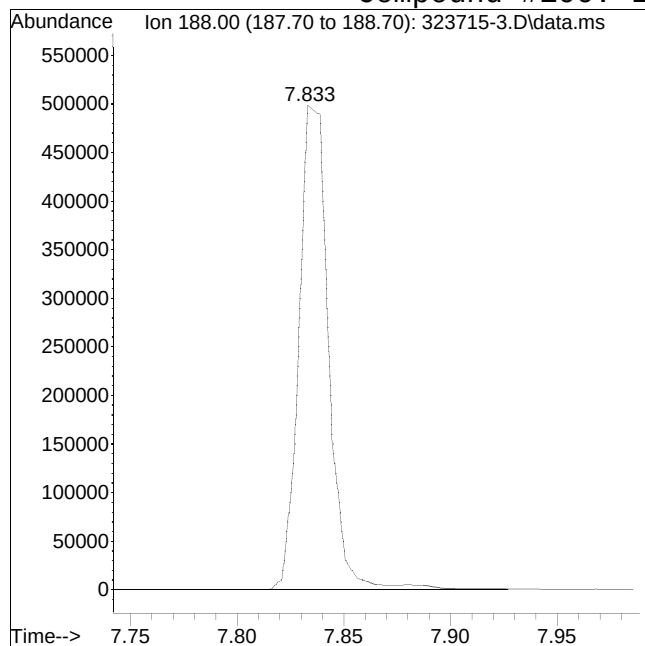
Manual Peak Response = 483296 M2

M2 = Peak not found by automatic integration algorithm.

# Manual Integration Report

Data Path : I:\8270\Buffy\191223n\ QMethod : FS191006buffy.m  
Data File : 323715-3.D Operator : Buffy:jg  
Date Inj'd : 12/24/2019 1:27 am Instrument : Buffy  
Sample : wg1323715-3,32,,ny,ask Quant Date : 12/24/2019 10:35 am

## Compound #100: IS3 Phenanthrene-d10



Original Peak Response = 485461

Manual Peak Response = 483296 M2

M2 = Peak not found by automatic integration algorithm.

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-4.d  
 Acq On : 24 Dec 2019 6:42 am  
 Operator : gcms5:ek  
 Sample : wg1323715-4,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 26 11:54:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| Internal Standards            |                |      |            |          |       |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.587          | 152  | 135729     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 230273      |                |      | Recovery = | 58.94%   |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.587          | 152  | 135729     | 40.000   | ug/ml | 0.00     |
| Standard Area 3 = 218924      |                |      | Recovery = | 62.00%   |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.587          | 152  | 135729     | 40.000   | ug/ml | 0.00     |
| Standard Area 2 = 228352      |                |      | Recovery = | 59.44%   |       |          |
| 35) IS1_Naphthalene-d8        | 4.698          | 136  | 499333     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 837477      |                |      | Recovery = | 59.62%   |       |          |
| 55) IS2_Naphthalene-d8        | 4.698          | 136  | 499333     | 40.000   | ug/ml | 0.00     |
| Standard Area 3 = 792530      |                |      | Recovery = | 63.00%   |       |          |
| 63) IS1_Acenaphthene-d10      | 6.141          | 164  | 291678     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 496701      |                |      | Recovery = | 58.72%   |       |          |
| 83) IS2_Acenaphthene-d10      | 6.141          | 164  | 291678     | 40.000   | ug/ml | 0.00     |
| Standard Area 3 = 449723      |                |      | Recovery = | 64.86%   |       |          |
| 86) IS3_Acenaphthene-d10      | 6.141          | 164  | 291678     | 40.000   | ug/ml | 0.00     |
| Standard Area 2 = 468017      |                |      | Recovery = | 62.32%   |       |          |
| 88) IS1_Phenanthrene-d10      | 7.327          | 188  | 619896     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 1076593     |                |      | Recovery = | 57.58%   |       |          |
| 100) IS3_Phenanthrene-d10     | 7.327          | 188  | 619896     | 40.000   | ug/ml | 0.00     |
| Standard Area 2 = 989066      |                |      | Recovery = | 62.67%   |       |          |
| 104) IS1_Chrysene-d12         | 9.661          | 240  | 739820     | 40.000   | ug/ml | # 0.00   |
| Standard Area 1 = 1191633     |                |      | Recovery = | 62.08%   |       |          |
| 113) IS1_Perylene-d12         | 10.906         | 264  | 818346     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 1381786     |                |      | Recovery = | 59.22%   |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 4) 2-Fluorophenol             | 2.310          | 112  | 197315     | 52.574   | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 105.15%  |       |          |
| 7) Phenol-d6                  | 3.320          | 99   | 236889     | 52.145   | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 104.29%  |       |          |
| 19) Nitrobenzene-d5           | 4.089          | 82   | 94304      | 23.162   | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 92.65%   |       |          |
| 46) 2-Fluorobiphenyl          | 5.617          | 172  | 238502     | 22.155   | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 88.62%   |       |          |
| 79) 2,4,6-Tribromophenol      | 6.771          | 330  | 119634     | 62.254   | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 124.51%# |       |          |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-4.d  
 Acq On : 24 Dec 2019 6:42 am  
 Operator : gcms5:ek  
 Sample : wg1323715-4,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 26 11:54:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| 96) 4-Terphenyl-d14           | 8.737  | 244   | 345774   | 25.081   | ug/ml  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 100.32%  |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 6) 2-Chlorophenol             | 3.395  | 128   | 189144   | 44.815   | ug/ml  | 95       |
| 8) Phenol                     | 3.331  | 94    | 204235   | 38.379   | ug/ml# | 57       |
| 9) Bis(2-chloroethyl)ether    | 3.379  | 93    | 133717   | 37.109   | ug/ml# | 72       |
| 14) Bis(2-chloroisopropyl)... | 3.881  | 45    | 192134   | 30.509   | ug/ml  | 96       |
| 15) 2-Methylphenol            | 3.886  | 108   | 154002   | 42.323   | ug/ml  | 100      |
| 16) Hexachloroethane          | 4.031  | 117   | 69574    | 35.539   | ug/ml# | 75       |
| 17) n-Nitrosodi-n-propylamine | 3.993  | 70    | 102620   | 36.683   | ug/ml# | 92       |
| 18) 3-Methylphenol/4-Methy... | 4.025  | 108   | 171118   | 43.399   | ug/ml  | 98       |
| 20) Nitrobenzene              | 4.105  | 77    | 154442   | 36.986   | ug/ml  | 96       |
| 21) Isophorone                | 4.330  | 82    | 273348   | 37.285   | ug/ml  | 97       |
| 22) 2-Nitrophenol             | 4.388  | 139   | 84933    | 38.765   | ug/ml  | 92       |
| 23) 2,4-Dimethylphenol        | 4.479  | 107   | 151432   | 37.201   | ug/ml  | 93       |
| 24) Bis(2-chloroethoxy)met... | 4.549  | 93    | 183078   | 36.463   | ug/ml# | 95       |
| 25) 2,4-Dichlorophenol        | 4.602  | 162   | 176104   | 43.525   | ug/ml  | 96       |
| 28) Benzaldehyde              | 3.170  | 105   | 129336   | 44.673   | ug/ml  | 86       |
| 29) Acetophenone              | 3.972  | 105   | 221800   | 40.564   | ug/ml# | 87       |
| 36) Naphthalene               | 4.714  | 128   | 516045   | 40.724   | ug/ml  | 99       |
| 38) 4-Chloroaniline           | 4.789  | 65    | 46997    | 30.139   | ug/ml# | 38       |
| 39) Hexachlorobutadiene       | 4.853  | 225   | 111189   | 40.446   | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 5.233  | 107   | 141499   | 40.292   | ug/ml  | 92       |
| 41) 2-Methylnaphthalene       | 5.297  | 142   | 371555   | 40.265   | ug/ml  | 96       |
| 43) Hexachlorocyclopentadiene | 5.446  | 237   | 70060    | 20.284   | ug/ml  | 98       |
| 44) 2,4,6-Trichlorophenol     | 5.548  | 196   | 136871   | 44.003   | ug/ml  | 94       |
| 45) 2,4,5-Trichlorophenol     | 5.574  | 196   | 153279   | 46.496   | ug/ml  | 99       |
| 47) 2-Chloronaphthalene       | 5.692  | 162   | 364096   | 39.031   | ug/ml  | 99       |
| 48) 2-Nitroaniline            | 5.793  | 138   | 127660   | 45.882   | ug/ml  | 90       |
| 51) Dimethyl phthalate        | 5.970  | 163   | 394292   | 37.429   | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.018  | 152   | 560711   | 39.011   | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 6.002  | 165   | 91137    | 41.857   | ug/ml# | 84       |
| 60) Caprolactam               | 5.067  | 55    | 68836    | 38.873   | ug/ml# | 87       |
| 61) 1,2,4,5-Tetrachloroben... | 5.441  | 216   | 206756   | 42.321   | ug/ml  | 98       |
| 62) Biphenyl                  | 5.692  | 154   | 430284   | 40.778   | ug/ml  | 98       |
| 64) 3-Nitroaniline            | 6.125  | 138   | 96338    | 39.142   | ug/ml# | 93       |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-4.d  
 Acq On : 24 Dec 2019 6:42 am  
 Operator : gcms5:ek  
 Sample : wg1323715-4,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 26 11:54:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 65)  | Acenaphthene              | 6.162  | 154  | 334977   | 39.334 | ug/ml  | 94       |
| 66)  | 2,4-Dinitrophenol         | 6.210  | 184  | 1670     | 4.041  | ug/ml# | 48       |
| 67)  | Dibenzofuran              | 6.306  | 168  | 532631   | 41.420 | ug/ml# | 78       |
| 68)  | 2,4-Dinitrotoluene        | 6.322  | 165  | 117444   | 42.343 | ug/ml# | 72       |
| 69)  | 4-Nitrophenol             | 6.301  | 65   | 68200    | 38.804 | ug/ml# | 1        |
| 71)  | 2,3,4,6-Tetrachlorophenol | 6.418  | 232  | 147046   | 46.741 | ug/ml  | 97       |
| 72)  | Diethyl phthalate         | 6.547  | 149  | 395146   | 37.673 | ug/ml  | 99       |
| 73)  | Fluorene                  | 6.579  | 166  | 419975   | 41.134 | ug/ml  | 93       |
| 74)  | 4-Chlorophenyl phenyl ... | 6.600  | 204  | 201419   | 38.701 | ug/ml  | 94       |
| 75)  | 4-Nitroaniline            | 6.611  | 138  | 110757   | 41.797 | ug/ml  | 88       |
| 76)  | 4,6-Dinitro-o-cresol      | 6.643  | 198  | 10595    | 6.560  | ug/ml# | 89       |
| 77)  | NDPA/DPA                  | 6.702  | 169  | 353723   | 40.617 | ug/ml  | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 6.990  | 248  | 144056   | 42.884 | ug/ml  | 94       |
| 81)  | Hexachlorobenzene         | 7.022  | 284  | 179112   | 44.935 | ug/ml  | 95       |
| 82)  | Pentachlorophenol         | 7.193  | 266  | 126108   | 49.332 | ug/ml  | 98       |
| 87)  | Atrazine                  | 7.161  | 200  | 95903    | 38.052 | ug/ml  | 92       |
| 89)  | Phenanthrene              | 7.343  | 178  | 692014   | 39.199 | ug/ml  | 100      |
| 90)  | Anthracene                | 7.385  | 178  | 692098   | 39.899 | ug/ml  | 99       |
| 91)  | Carbazole                 | 7.535  | 167  | 647790   | 40.589 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 7.898  | 149  | 731582   | 41.994 | ug/ml# | 98       |
| 93)  | Fluoranthene              | 8.358  | 202  | 879690   | 42.743 | ug/ml  | 97       |
| 95)  | Pyrene                    | 8.550  | 202  | 935649   | 42.104 | ug/ml  | 100      |
| 97)  | Butyl benzyl phthalate    | 9.229  | 149  | 361506   | 43.898 | ug/ml# | 89       |
| 105) | Benzo(a)anthracene        | 9.656  | 228  | 946990   | 41.169 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 9.667  | 252  | 265312   | 30.630 | ug/ml  | 98       |
| 107) | Chrysene                  | 9.688  | 228  | 870682   | 35.484 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 9.811  | 149  | 540492   | 36.560 | ug/ml# | 90       |
| 109) | Di-n-octylphthalate       | 10.393 | 149  | 973528   | 41.375 | ug/ml# | 93       |
| 110) | Benzo(b)fluoranthene      | 10.596 | 252  | 959742   | 38.011 | ug/ml  | 99       |
| 111) | Benzo(k)fluoranthene      | 10.623 | 252  | 912745   | 38.366 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 10.858 | 252  | 863509   | 35.898 | ug/ml  | 97       |
| 114) | Indeno(1,2,3-cd)pyrene    | 11.686 | 276  | 909048M3 | 42.197 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 11.707 | 278  | 857910   | 40.501 | ug/ml  | 98       |
| 116) | Benzo(ghi)perylene        | 11.862 | 276  | 900733   | 39.084 | ug/ml  | 96       |

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

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-4.d  
 Acq On : 24 Dec 2019 6:42 am  
 Operator : gcms5:ek  
 Sample : wg1323715-4,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 26 11:54:41 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

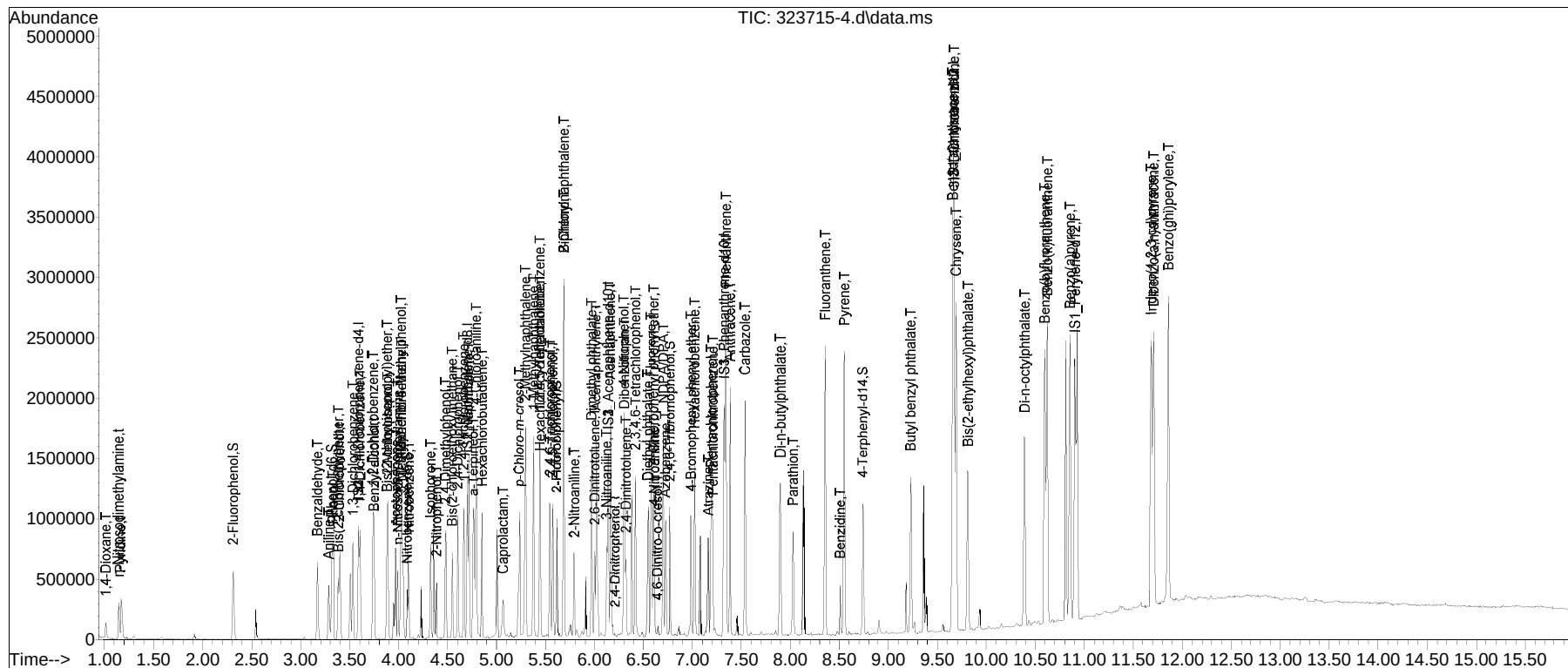
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

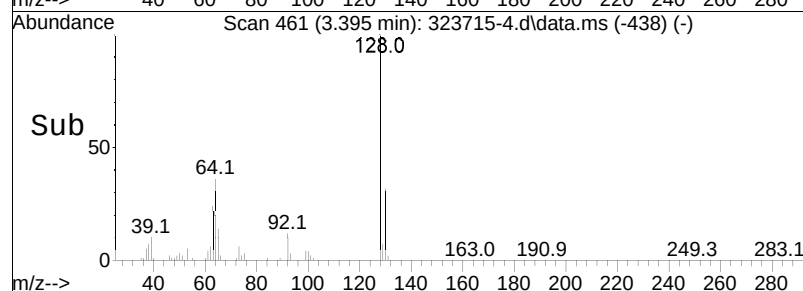
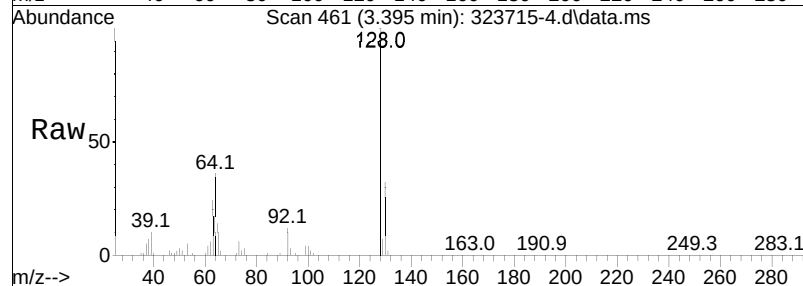
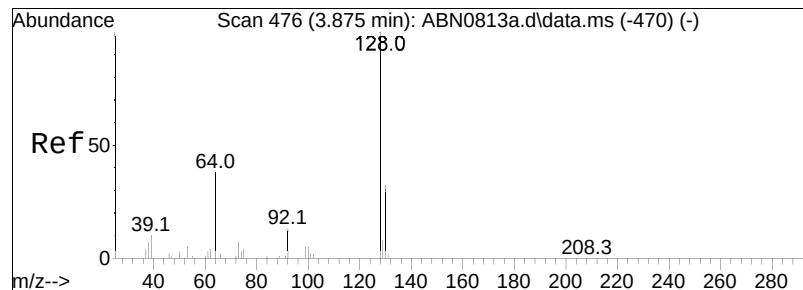
(QT Reviewed)

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Data Path   : I:\8270\GCMS5\191223n\  
Data File  : 323715-4.d  
Acq On     : 24 Dec 2019    6:42 am  
Operator   : gcms5:ek  
Sample     : wg1323715-4,32,,ny,ask  
Misc       : wg1324236,wg1323715,ical15860  
ALS Vial   : 13    Sample Multiplier: 1
```

Quant Time: Dec 26 11:54:41 2019  
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Thu Dec 26 11:52:31 2019  
Response via : Initial Calibration

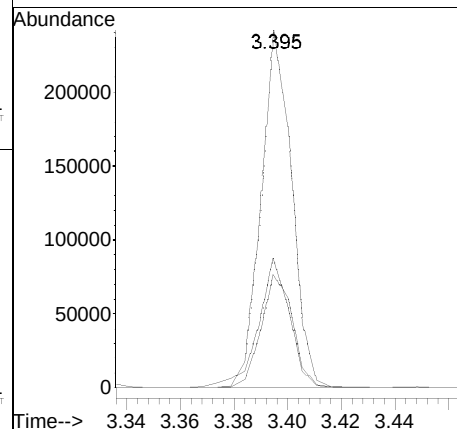
Sub List : 8270TCL\_REV2 - TCL/CT/MAn\AP91223n.d•



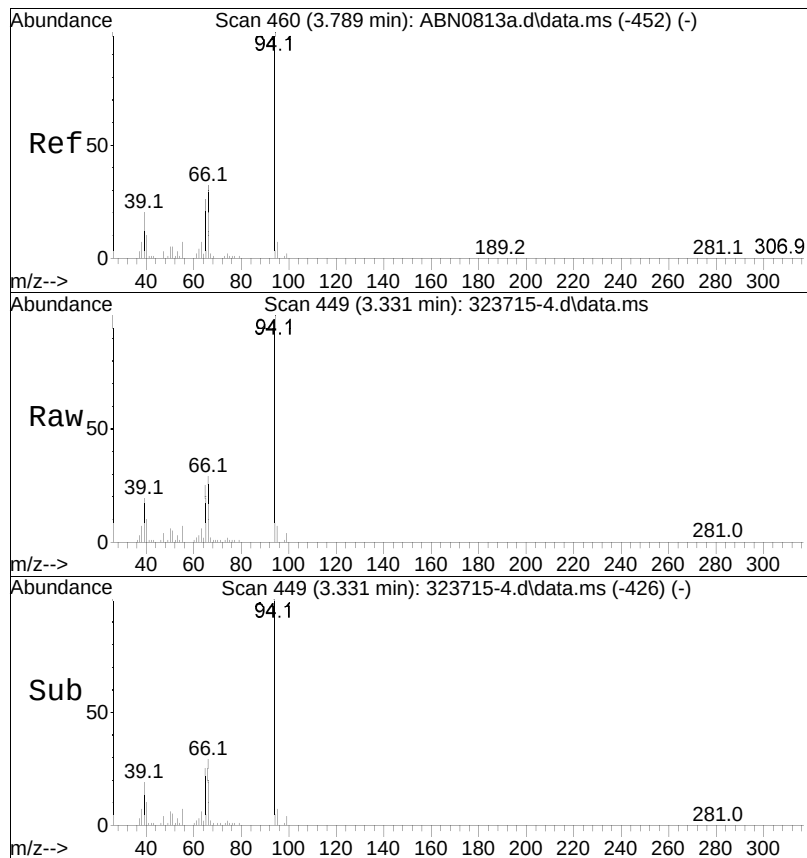


#6  
 2-Chlorophenol  
 Concen: 44.82 ug/ml  
 RT: 3.395 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 64      | 37.0  | 33.5  | 50.3  |
| 130     | 32.8  | 25.9  | 38.9  |

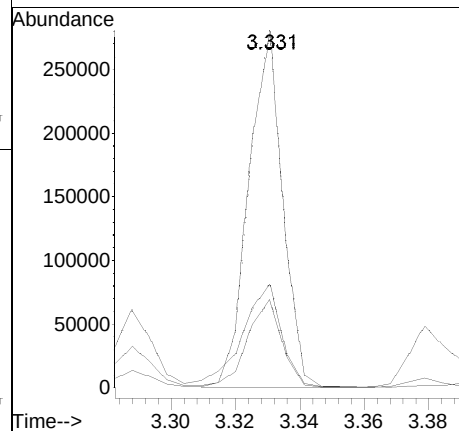


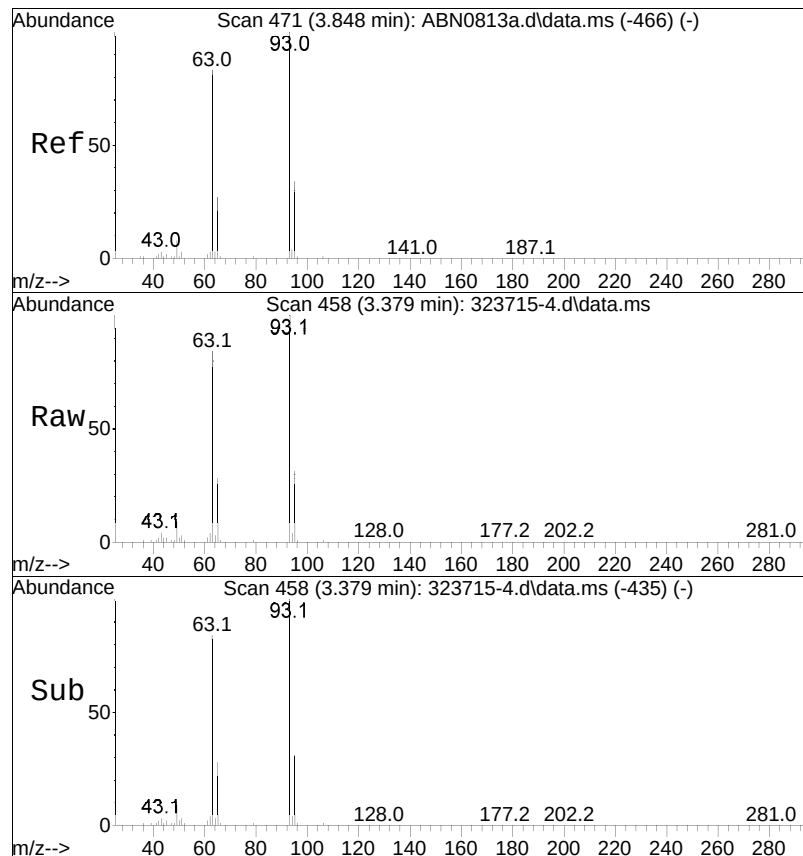




#8  
 Phenol  
 Concen: 38.38 ug/ml  
 RT: 3.331 min Scan# 449  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

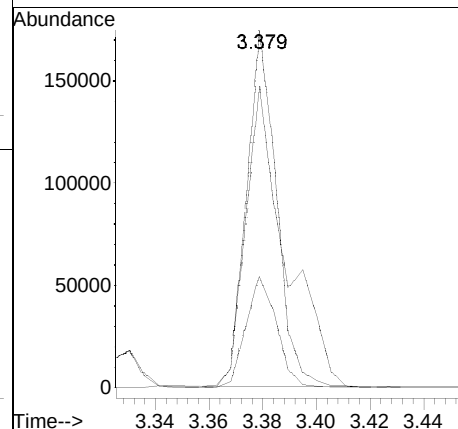
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 94  | 100  |       |       |       |
| 65  | 25.3 | 38.8  | 58.2# |       |
| 66  | 34.4 | 60.3  | 90.5# |       |

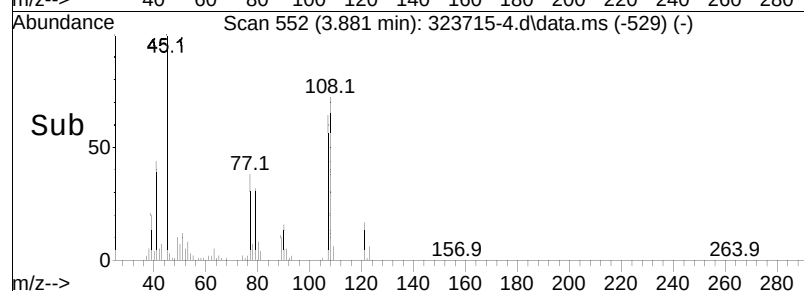
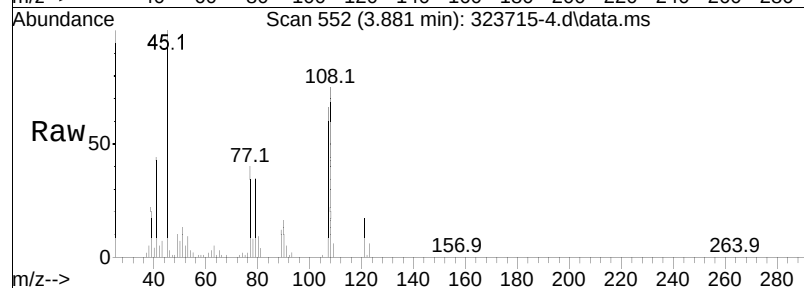
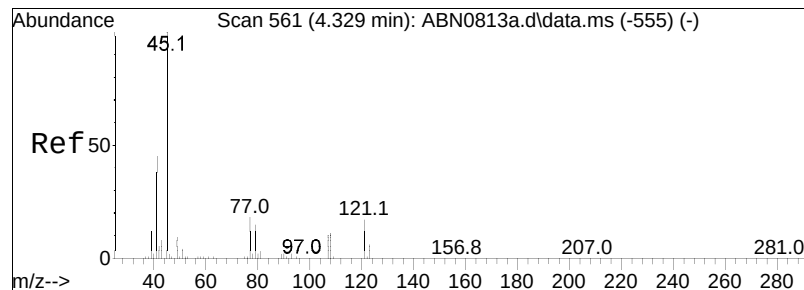




#9  
 Bis(2-chloroethyl)ether  
 Concen: 37.11 ug/ml  
 RT: 3.379 min Scan# 458  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

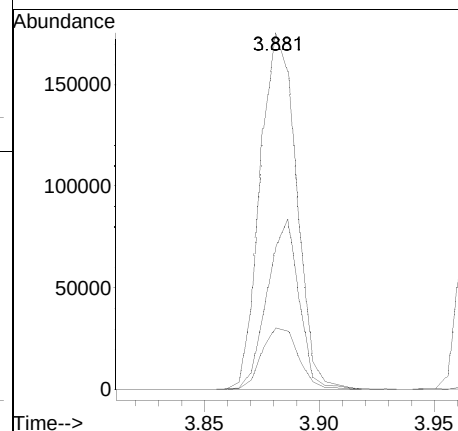
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 133717 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 113.2 | 63.0  | 94.6#  |
| 95        | 32.2  | 26.3  | 39.5   |

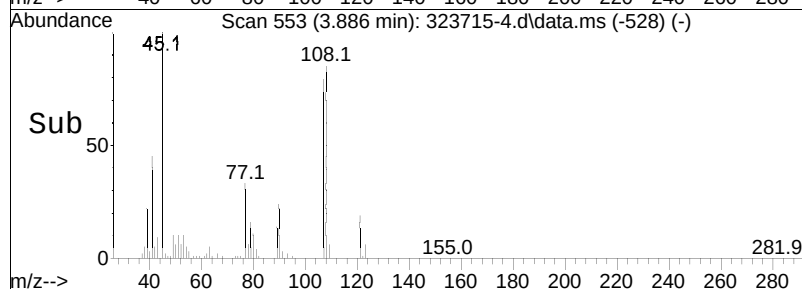
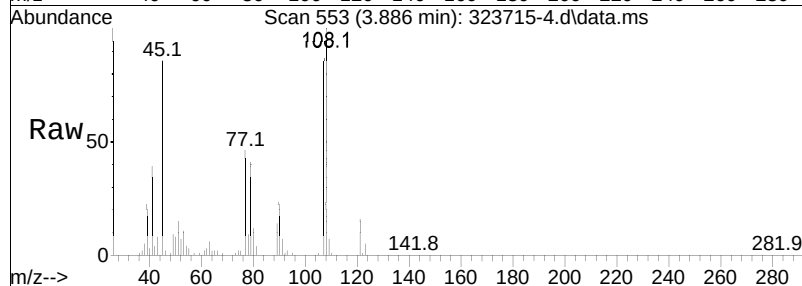
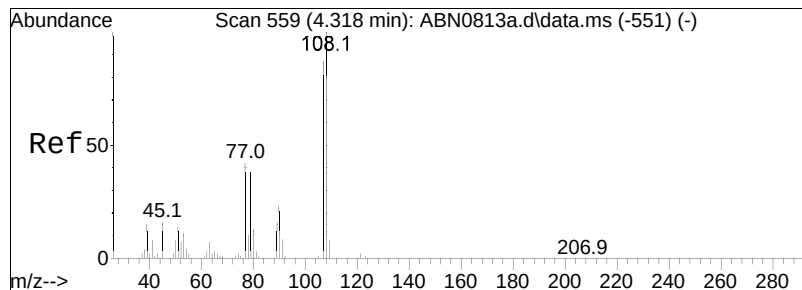




#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 30.51 ug/ml  
 RT: 3.881 min Scan# 552  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

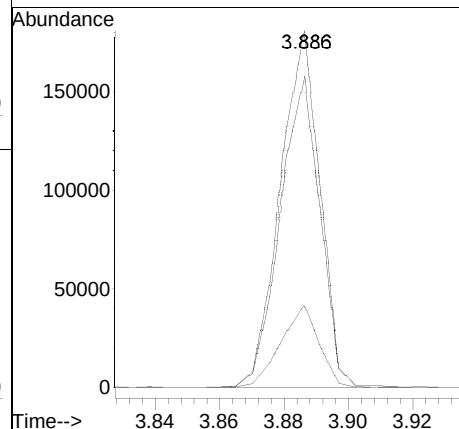
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 121     | 17.5  | 16.0  | 24.0  |
| 77      | 42.2  | 32.1  | 48.1  |

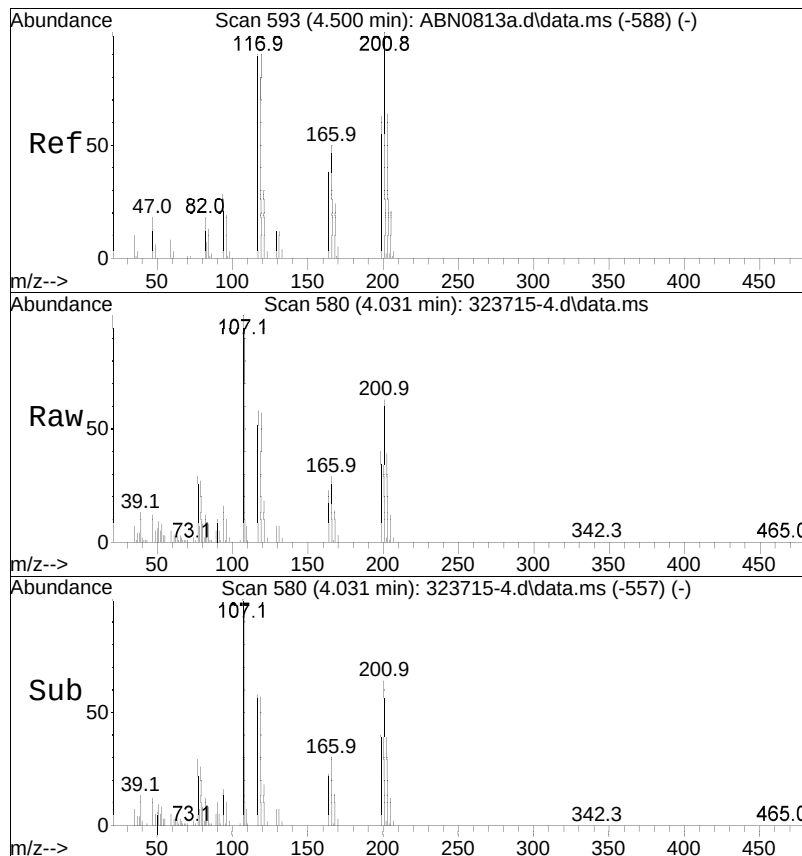




#15  
 2-Methylphenol  
 Concen: 42.32 ug/ml  
 RT: 3.886 min Scan# 553  
 Delta R.T. 0.011 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

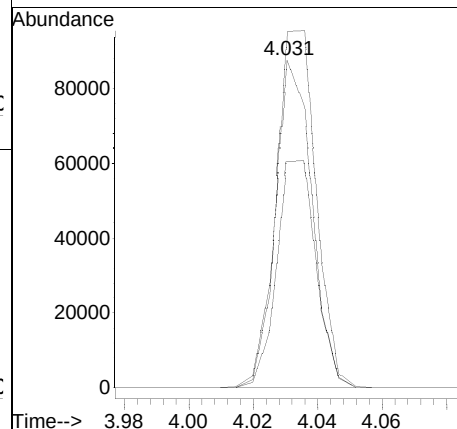
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 108 | 100  |       |       |       |
| 107 | 87.9 | 70.3  | 105.5 |       |
| 90  | 22.3 | 18.7  | 28.1  |       |

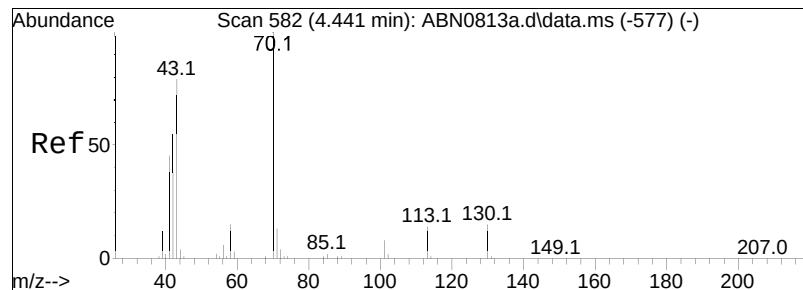




#16  
 Hexachloroethane  
 Concen: 35.54 ug/ml  
 RT: 4.031 min Scan# 580  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

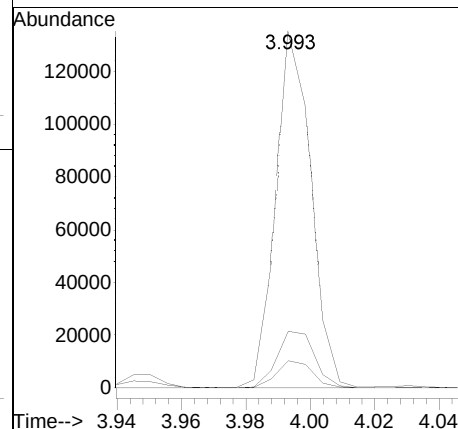
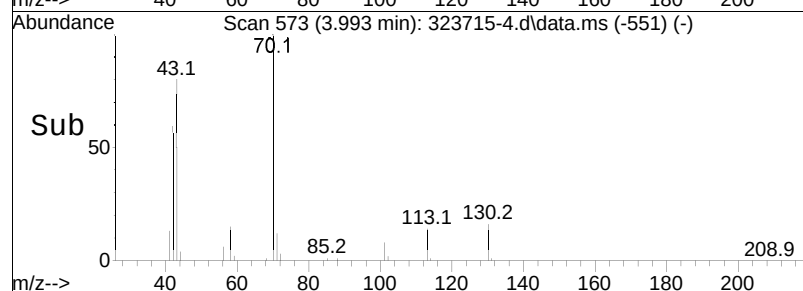
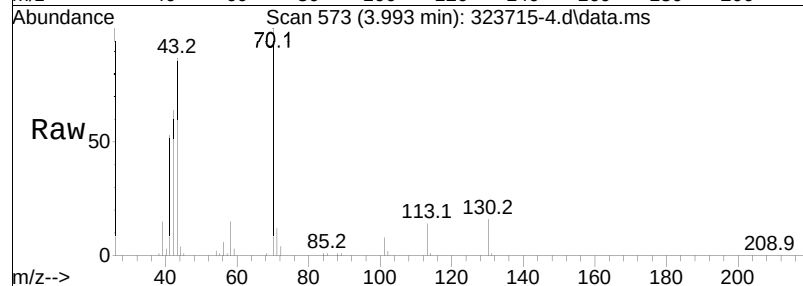
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 69574  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 201       | 117.5 | 73.4  | 110.0# |
| 199       | 74.2  | 45.9  | 68.9#  |

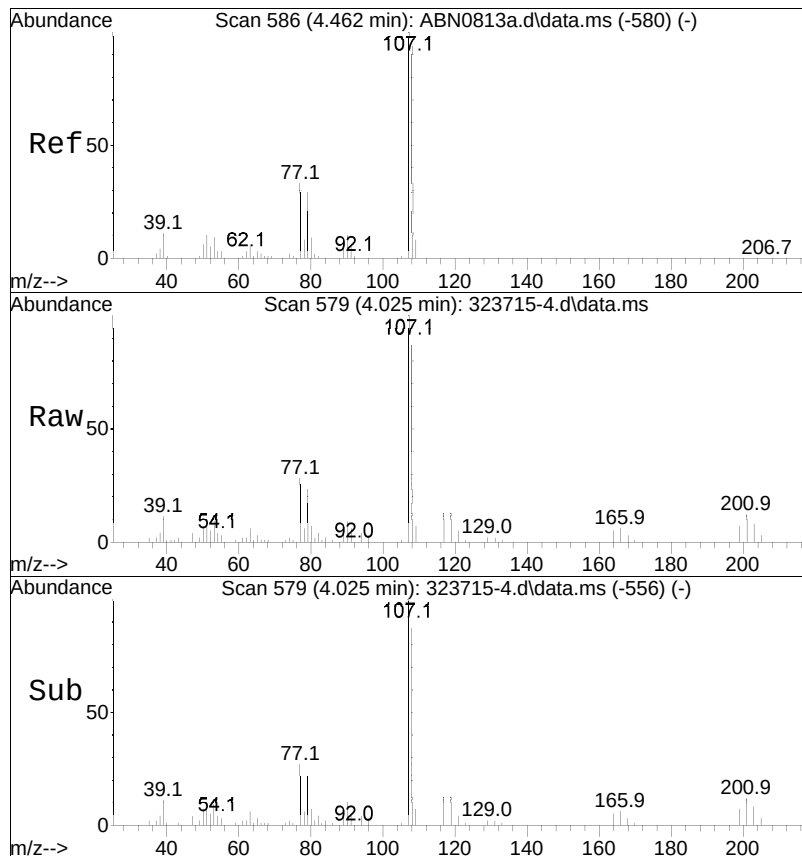




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 36.68 ug/ml  
 RT: 3.993 min Scan# 573  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

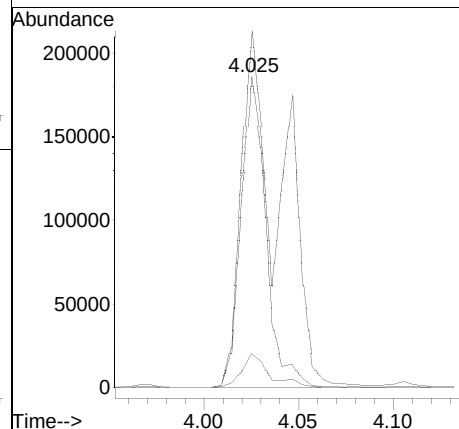
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 70      | 100   | 102620 |       |       |
| 130     | 16.9  |        | 17.1  | 25.7# |
| 101     | 7.7   |        | 7.0   | 10.4  |

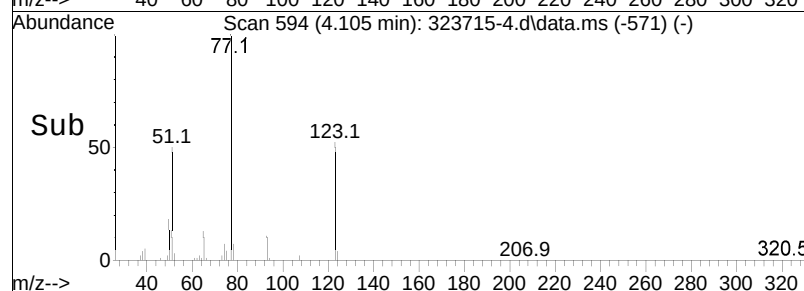
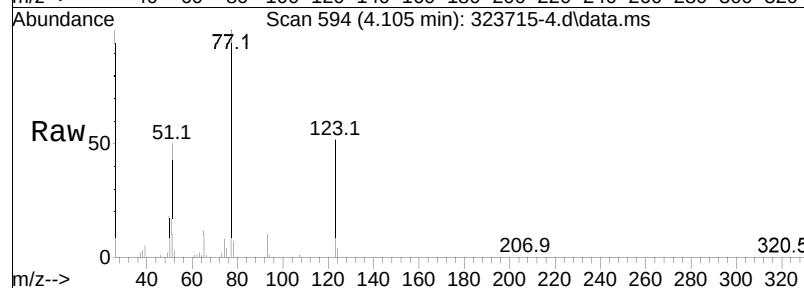
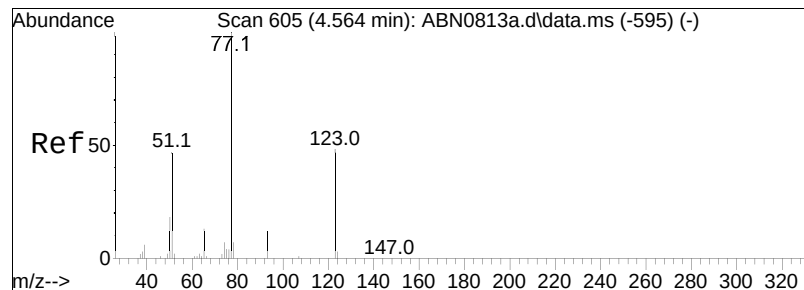




#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 43.40 ug/ml  
 RT: 4.025 min Scan# 579  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:108 | Resp: | 171118 |
| Ion | Ratio   | Lower | Upper  |
| 108 | 100     |       |        |
| 107 | 108.7   | 88.2  | 132.2  |
| 90  | 11.8    | 8.5   | 12.7   |





#20

Nitrobenzene

Concen: 36.99 ug/ml

RT: 4.105 min Scan# 594

Delta R.T. 0.000 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

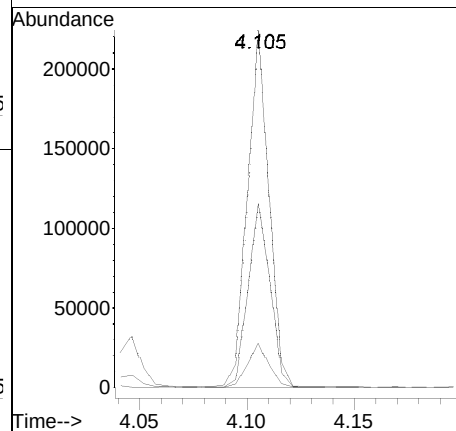
Tgt Ion: 77 Resp: 154442

Ion Ratio Lower Upper

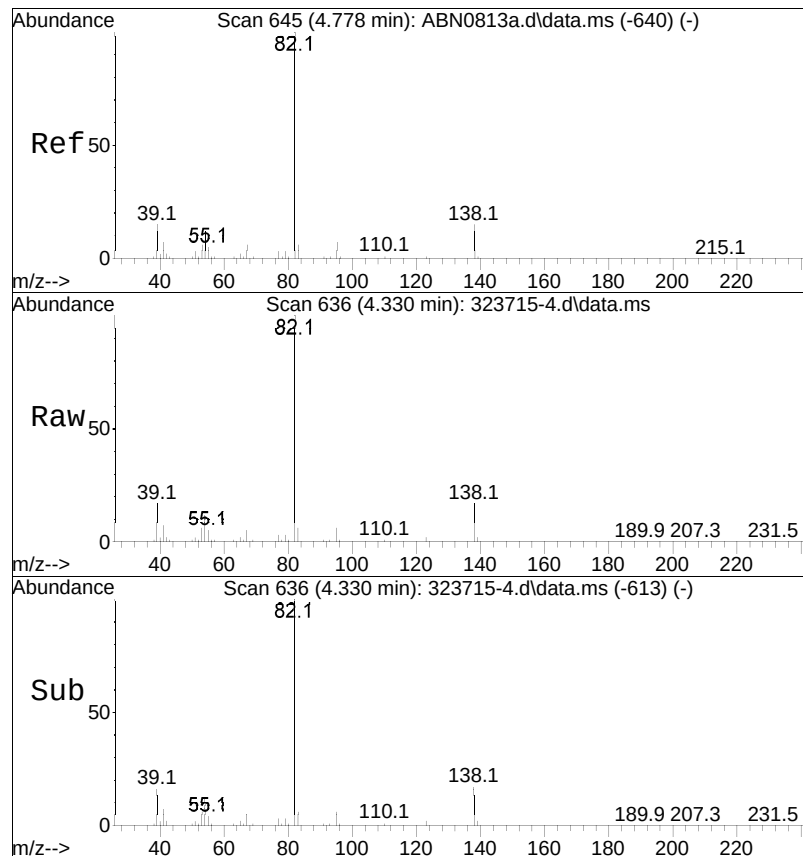
77 100

123 52.4 39.5 59.3

65 12.5 11.0 16.6

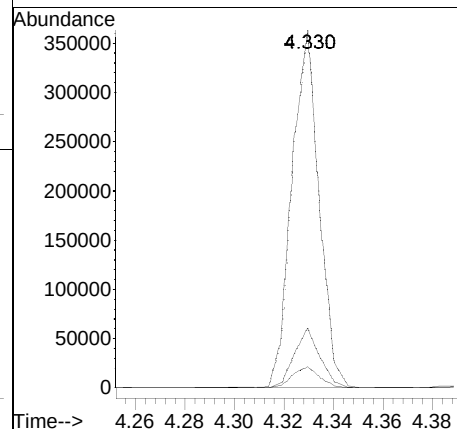


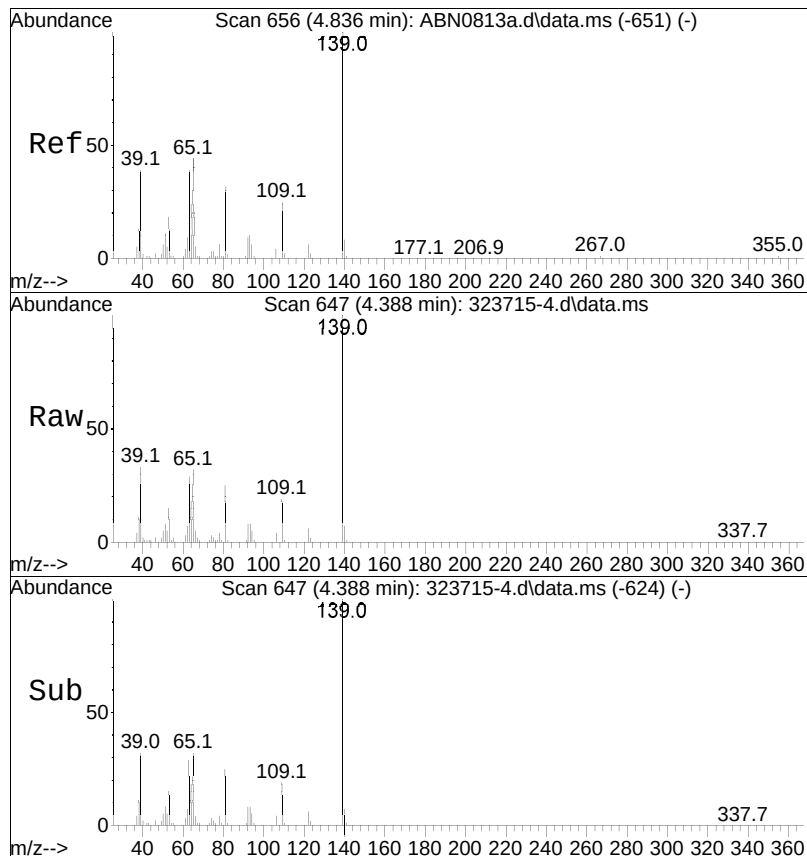




#21  
 Isophorone  
 Concen: 37.28 ug/ml  
 RT: 4.330 min Scan# 636  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

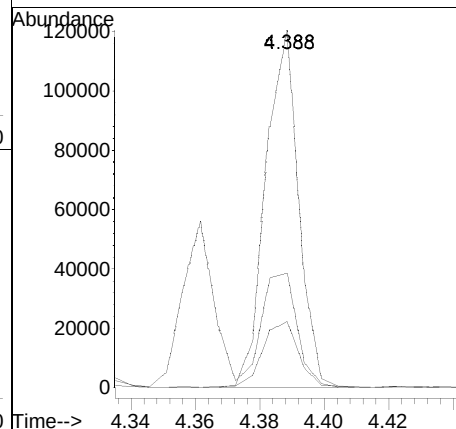
|                       |              |
|-----------------------|--------------|
| Tgt Ion: 82           | Resp: 273348 |
| Ion Ratio Lower Upper |              |
| 82 100                |              |
| 138 15.9              | 13.9 20.9    |
| 95 6.4                | 5.1 7.7      |

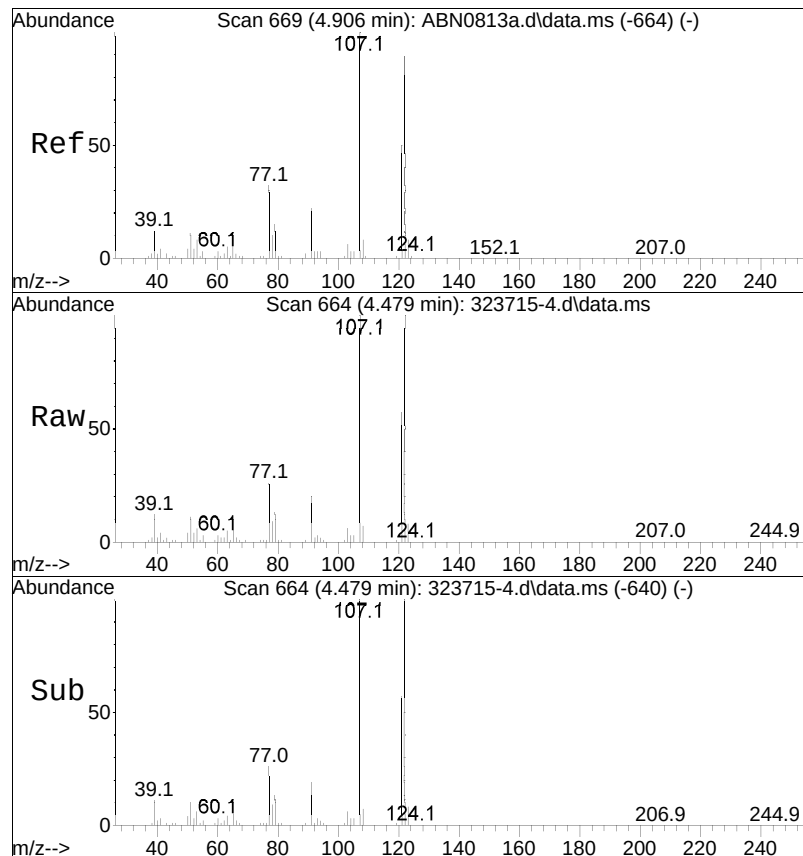




#22  
 2-Nitrophenol  
 Concen: 38.77 ug/ml  
 RT: 4.388 min Scan# 647  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

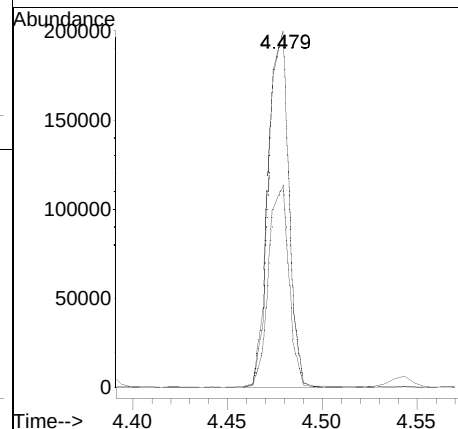
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 139   | Resp: | 84933 |
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 20.7  | 17.2  | 25.8  |
| 65        | 35.1  | 33.8  | 50.6  |

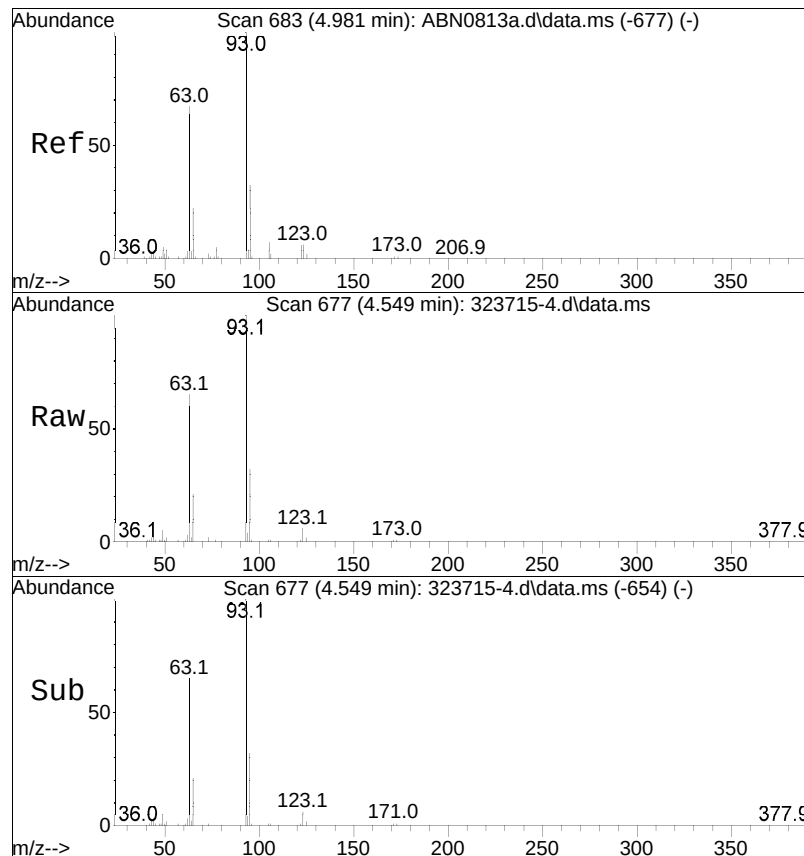




#23  
 2,4-Dimethylphenol  
 Concen: 37.20 ug/ml  
 RT: 4.479 min Scan# 664  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

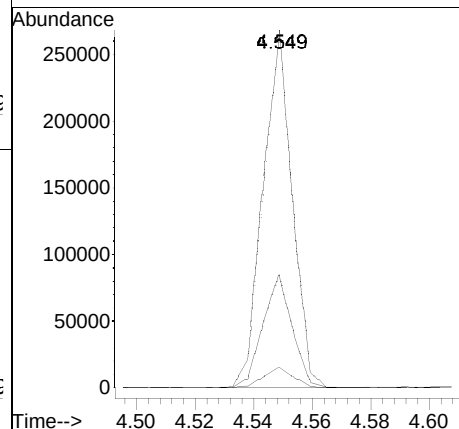
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 151432 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 55.5  | 41.2  | 61.8   |
| 122       | 97.5  | 72.5  | 108.7  |

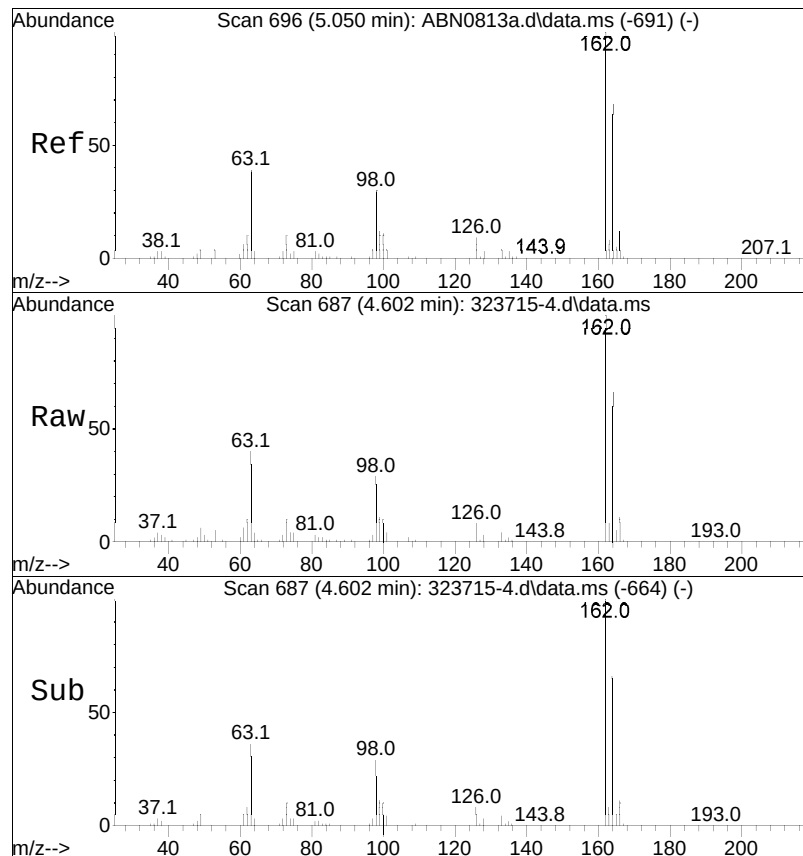




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 36.46 ug/ml  
 RT: 4.549 min Scan# 677  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

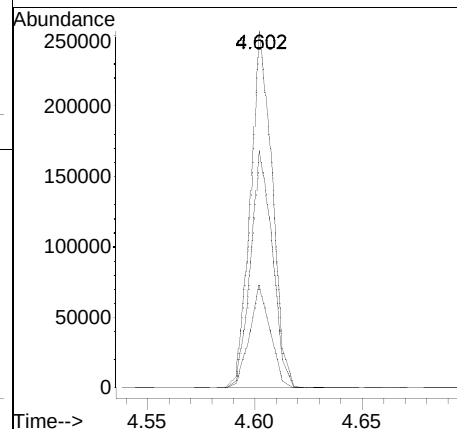
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 183078 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 31.9  | 26.8  | 40.2   |
| 123       | 6.1   | 8.7   | 13.1#  |

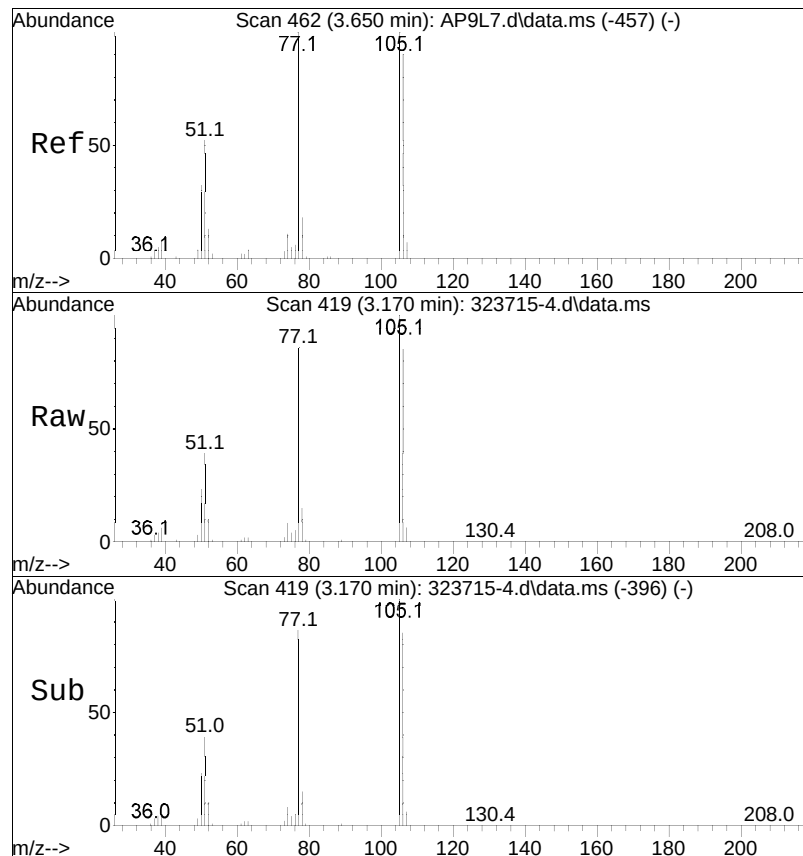




#25  
 2,4-Dichlorophenol  
 Concen: 43.53 ug/ml  
 RT: 4.602 min Scan# 687  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

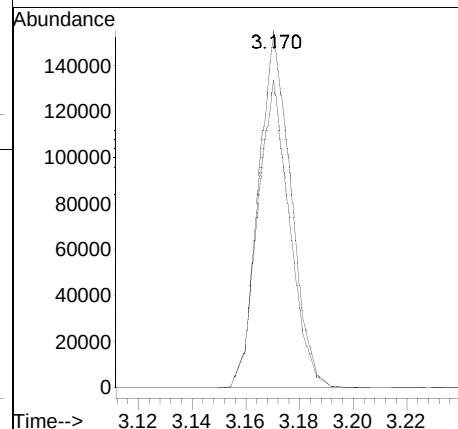
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 176104 |       |       |
| 164     | 66.7  |        | 51.8  | 77.8  |
| 98      | 27.6  |        | 25.0  | 37.4  |

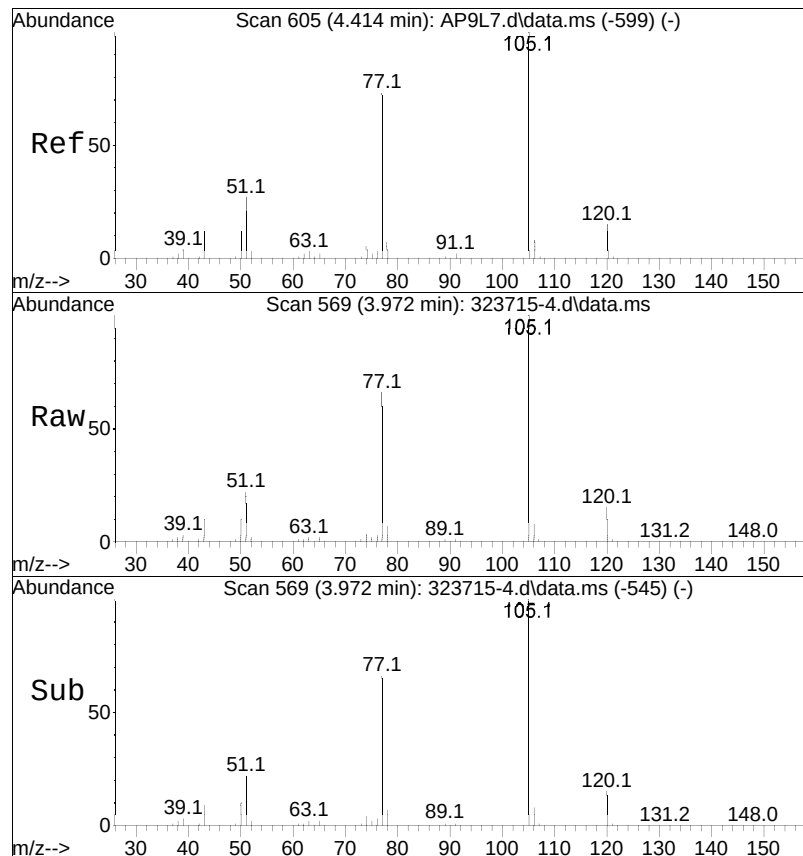




#28  
 Benzaldehyde  
 Concen: 44.67 ug/ml  
 RT: 3.170 min Scan# 419  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

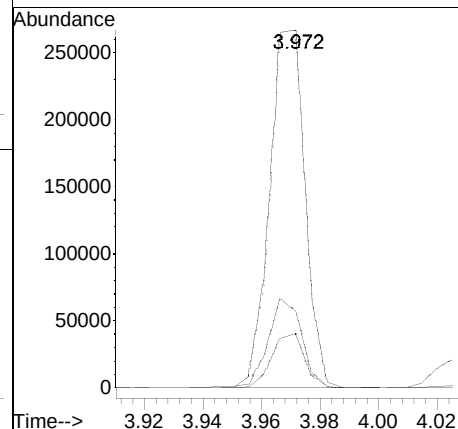
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 77  | 85.5 | 79.3  | 118.9 |       |

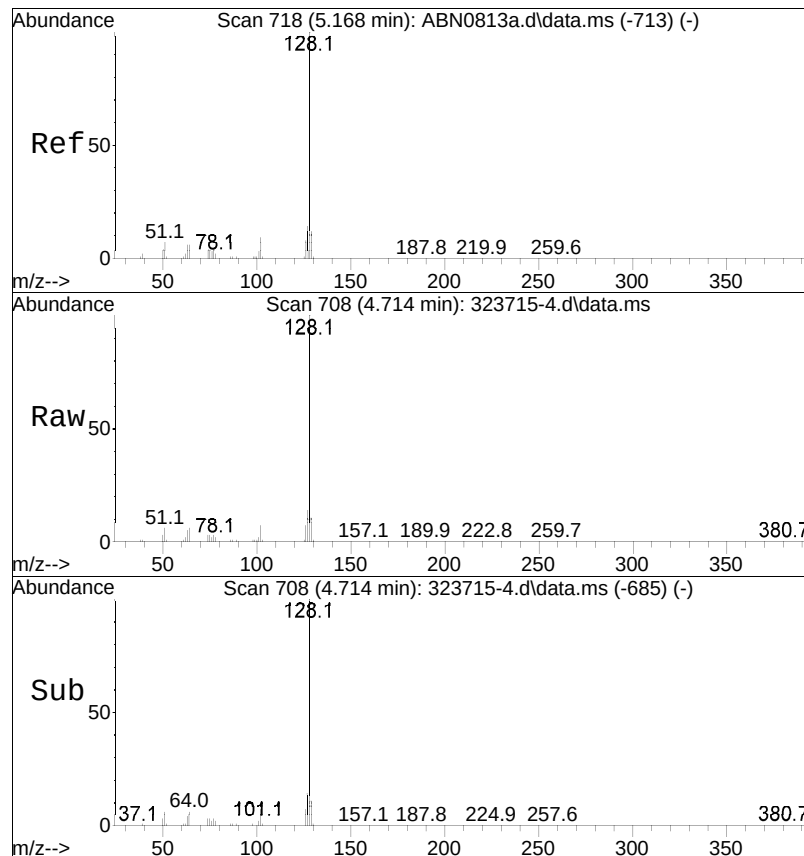




#29  
 Acetophenone  
 Concen: 40.56 ug/ml  
 RT: 3.972 min Scan# 569  
 Delta R.T. 0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

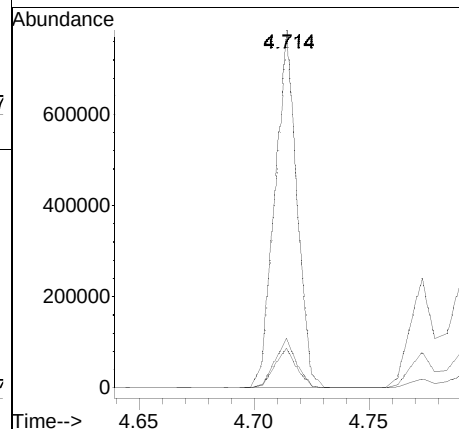
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 221800 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 14.4  | 17.4  | 26.2#  |
| 51        | 24.1  | 23.8  | 35.6   |



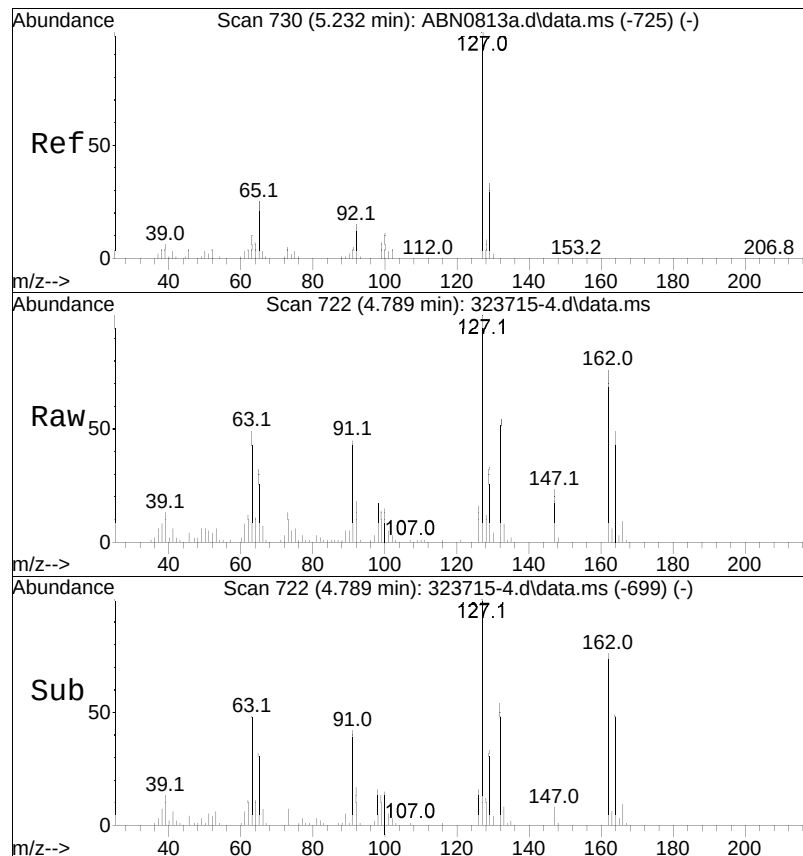


#36  
 Naphthalene  
 Concen: 40.72 ug/ml  
 RT: 4.714 min Scan# 708  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 516045 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 129 | 11.2    | 9.0   | 13.6   |
| 127 | 13.6    | 11.3  | 16.9   |

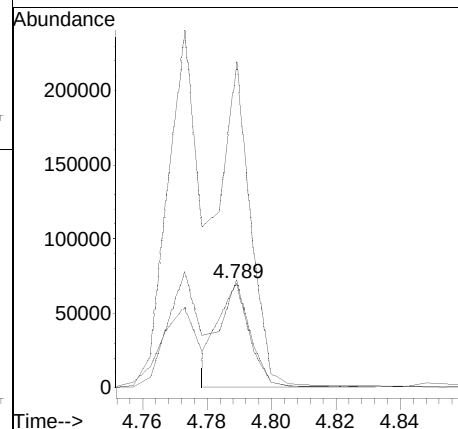


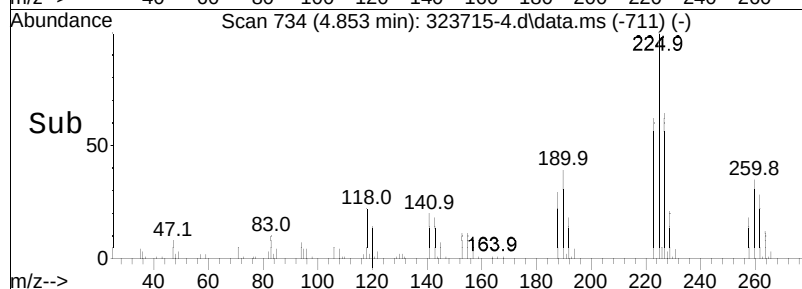
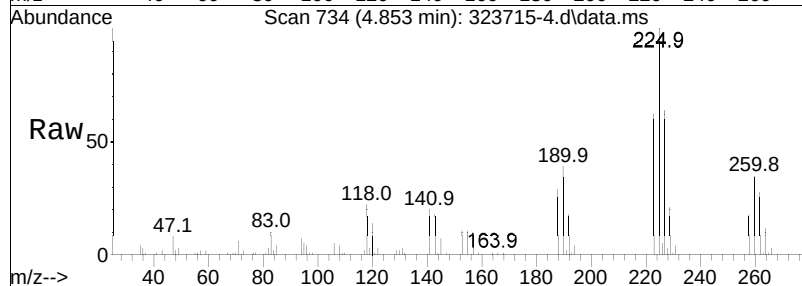
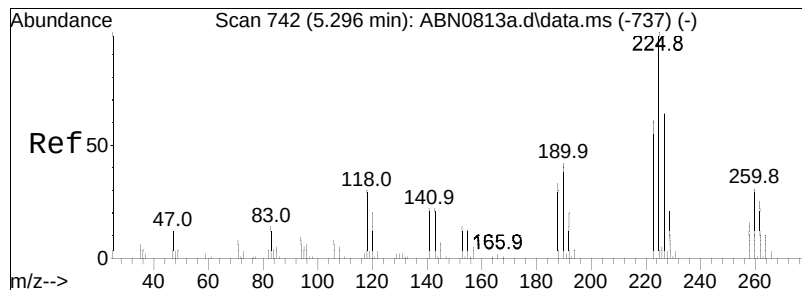




#38  
 4-Chloroaniline  
 Concen: 30.14 ug/ml  
 RT: 4.789 min Scan# 722  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 65 | Resp: | 46997  |
| Ion | Ratio   | Lower | Upper  |
| 65  | 100     |       |        |
| 127 | 221.7   | 302.2 | 453.2# |
| 129 | 73.0    | 97.8  | 146.8# |





#39

Hexachlorobutadiene

Concen: 40.45 ug/ml

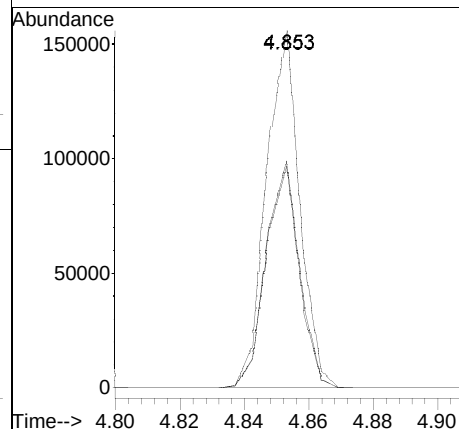
RT: 4.853 min Scan# 734

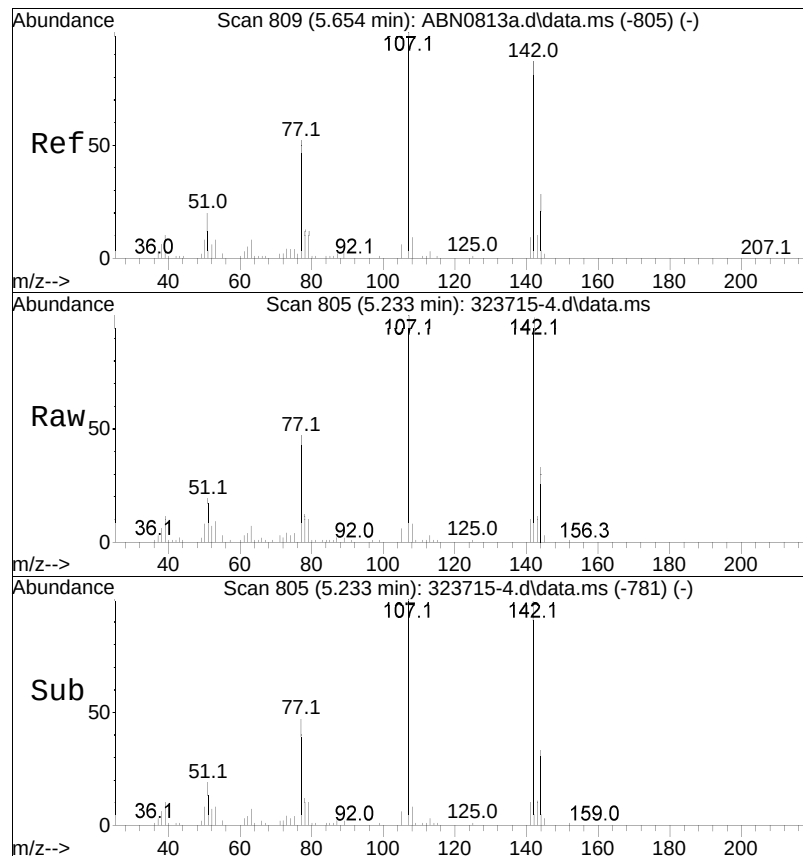
Delta R.T. 0.000 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

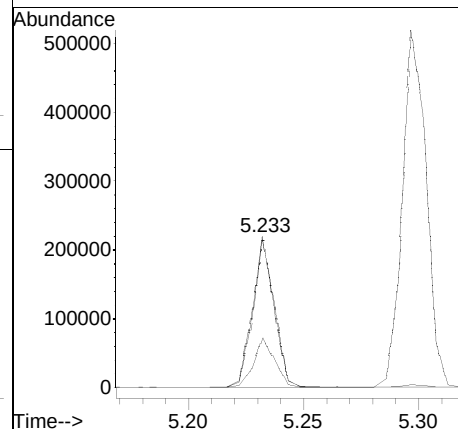
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 111189 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 61.8  | 50.0  | 75.0   |
| 227       | 64.1  | 51.8  | 77.6   |

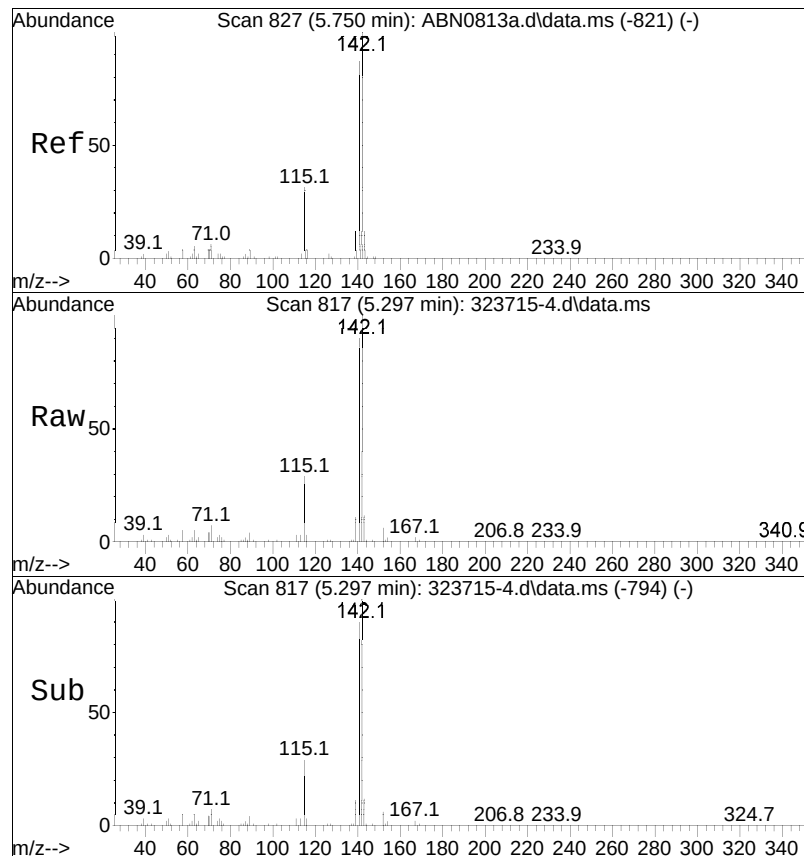




#40  
 p-Chloro-m-cresol  
 Concen: 40.29 ug/ml  
 RT: 5.233 min Scan# 805  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

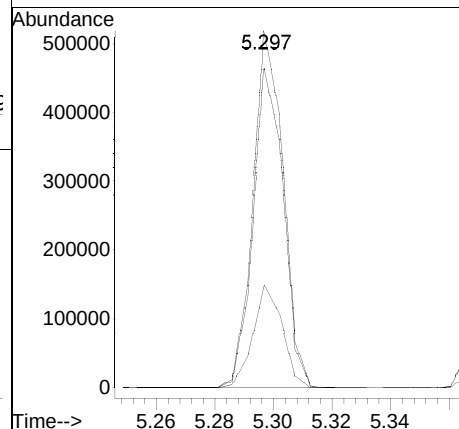
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 141499 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 32.6  | 23.3  | 34.9   |
| 142       | 98.5  | 72.7  | 109.1  |

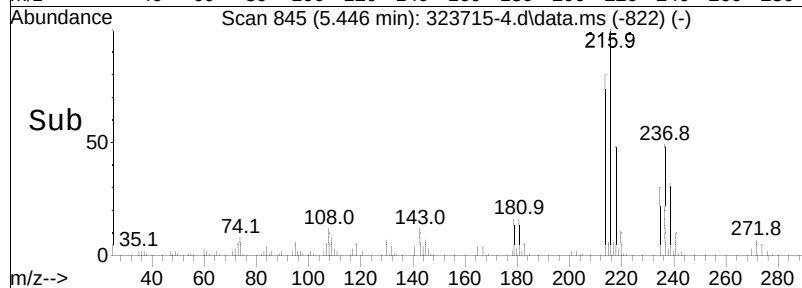
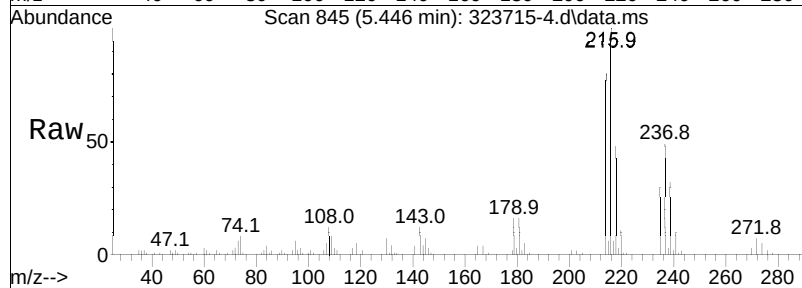
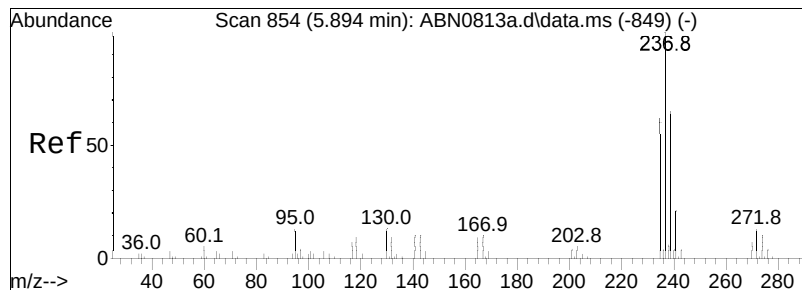




#41  
 2-Methylnaphthalene  
 Concen: 40.26 ug/ml  
 RT: 5.297 min Scan# 817  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 371555 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 89.7  | 69.5  | 104.3  |
| 115       | 28.4  | 25.4  | 38.2   |





#43

Hexachlorocyclopentadiene

Concen: 20.28 ug/ml

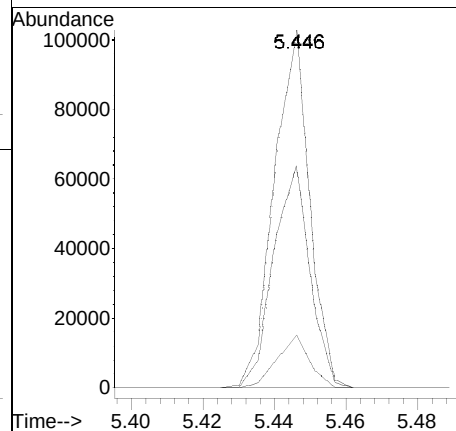
RT: 5.446 min Scan# 845

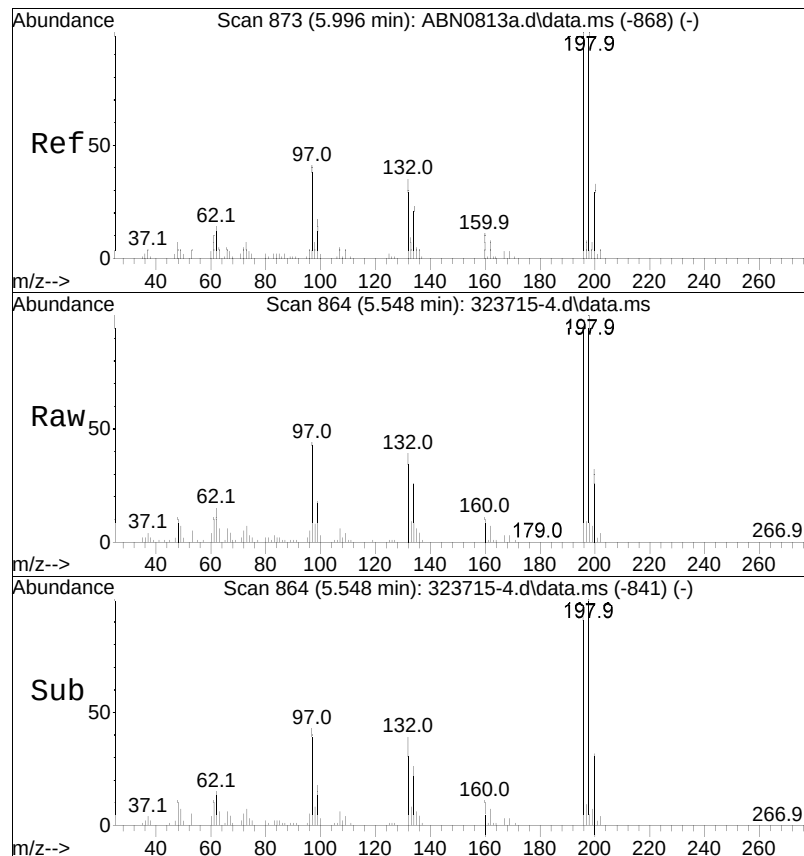
Delta R.T. 0.000 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

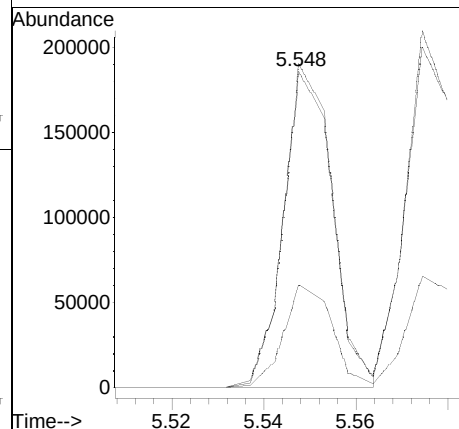
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 70060 |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 235       | 63.9  | 49.9  | 74.9  |
| 272       | 13.7  | 11.4  | 17.2  |

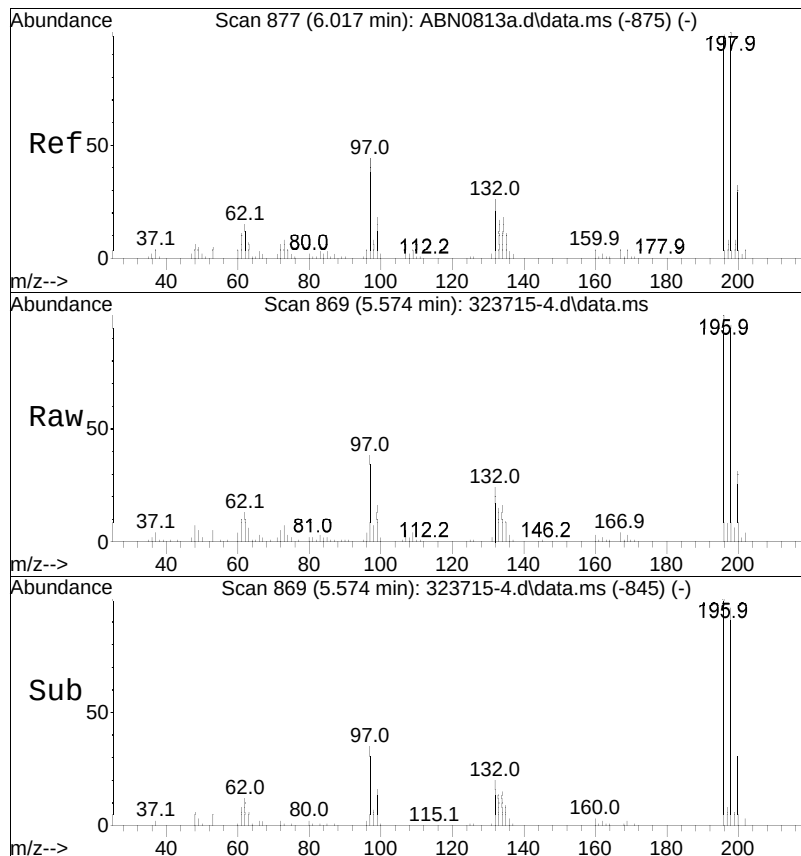




#44  
 2,4,6-Trichlorophenol  
 Concen: 44.00 ug/ml  
 RT: 5.548 min Scan# 864  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

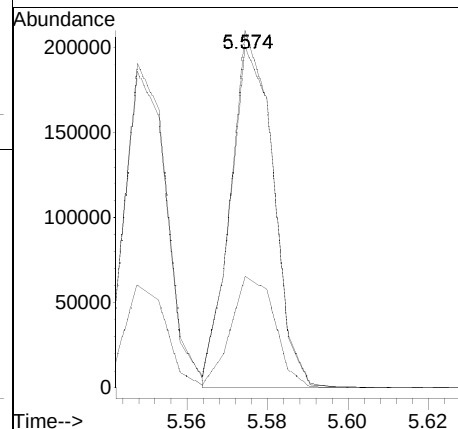
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 136871 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 102.8 | 77.0  | 115.6  |
| 200       | 32.5  | 25.0  | 37.6   |

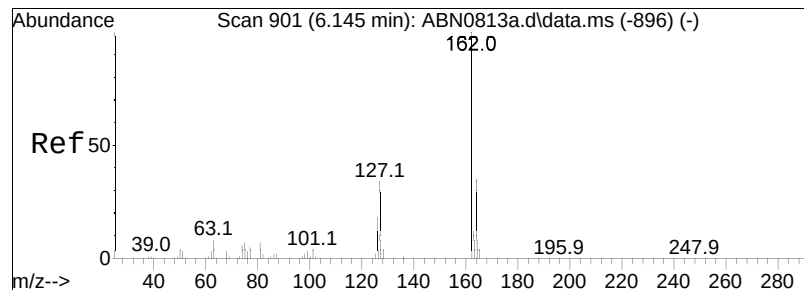




#45  
 2,4,5-Trichlorophenol  
 Concen: 46.50 ug/ml  
 RT: 5.574 min Scan# 869  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

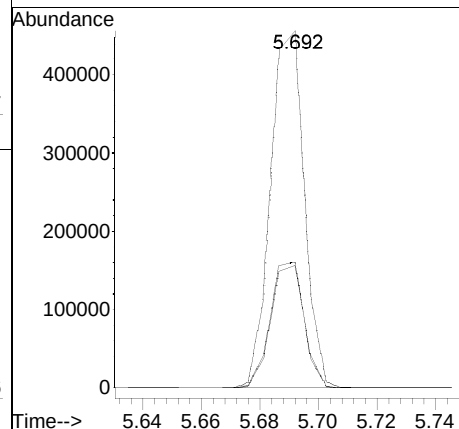
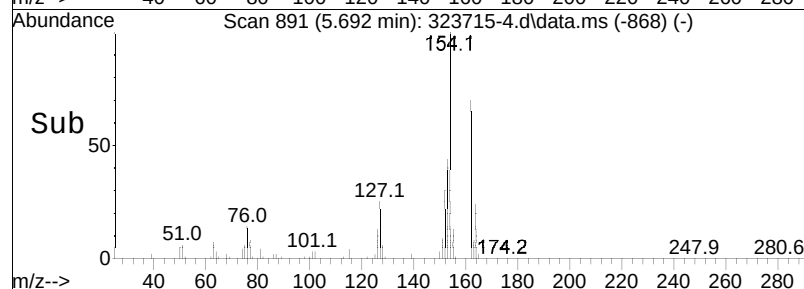
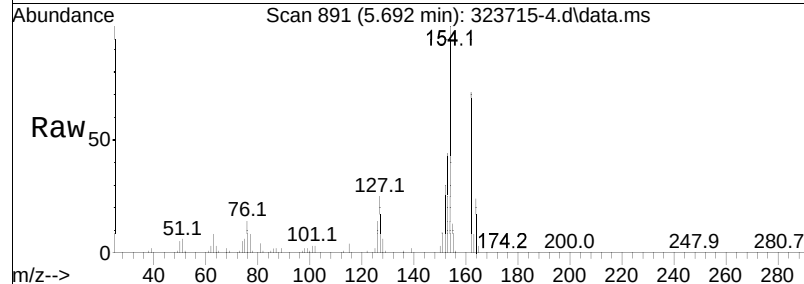
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 153279 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 32.4  | 24.9  | 37.3   |
| 198       | 98.8  | 78.5  | 117.7  |



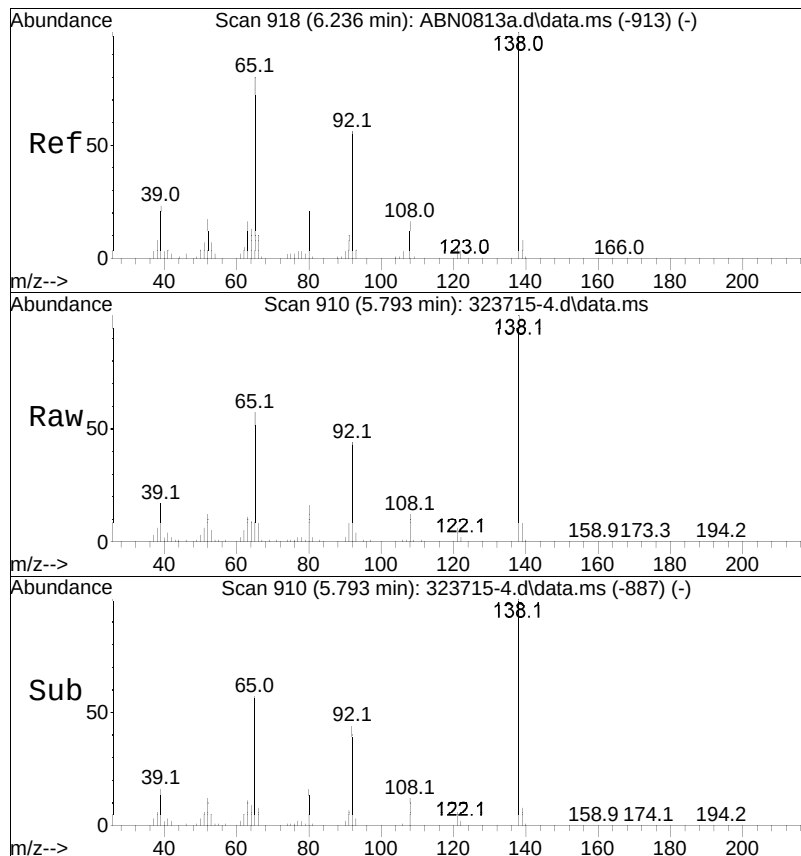


#47  
 2-Chloronaphthalene  
 Concen: 39.03 ug/ml  
 RT: 5.692 min Scan# 891  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 364096 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 35.5  | 28.0  | 42.0   |
| 164       | 34.2  | 26.6  | 39.8   |

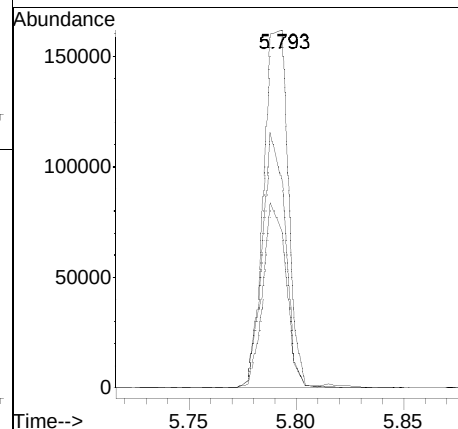


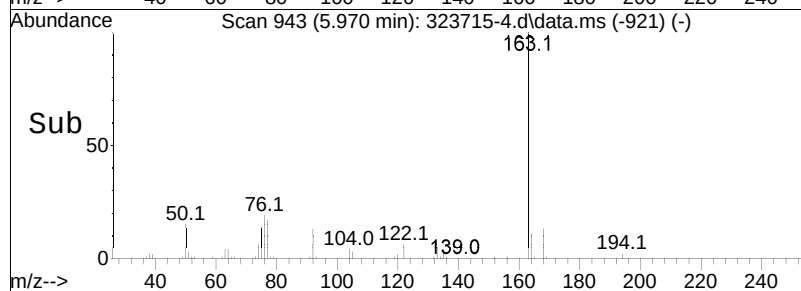
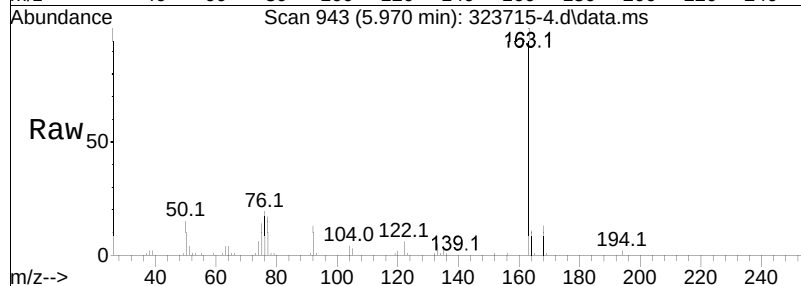
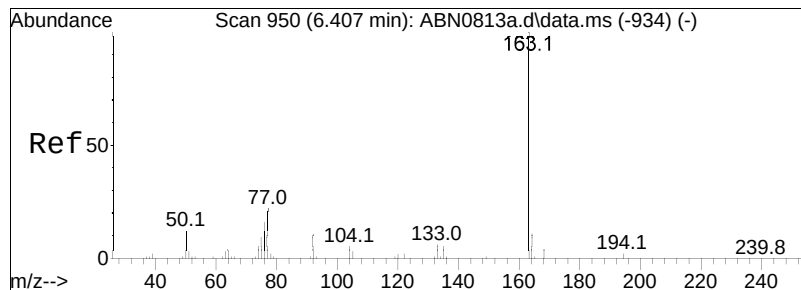




#48  
 2-Nitroaniline  
 Concen: 45.88 ug/ml  
 RT: 5.793 min Scan# 910  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 127660 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 48.6  | 41.7  | 62.5   |
| 65        | 65.7  | 61.5  | 92.3   |





#51

Dimethyl phthalate

Concen: 37.43 ug/ml

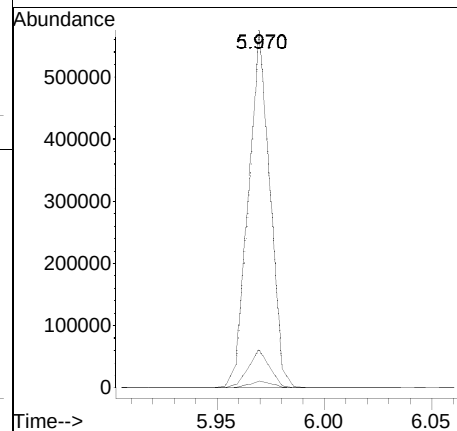
RT: 5.970 min Scan# 943

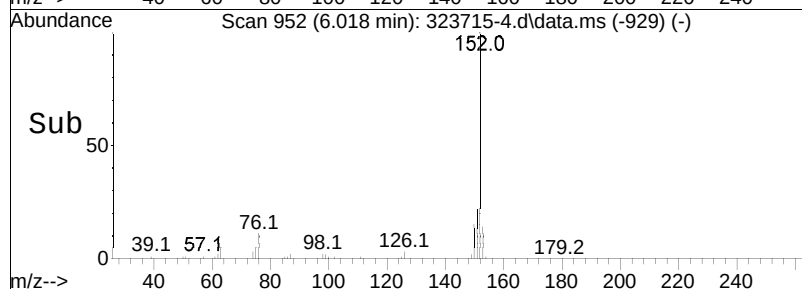
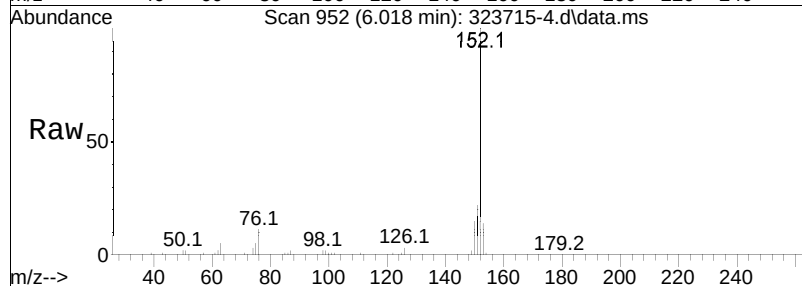
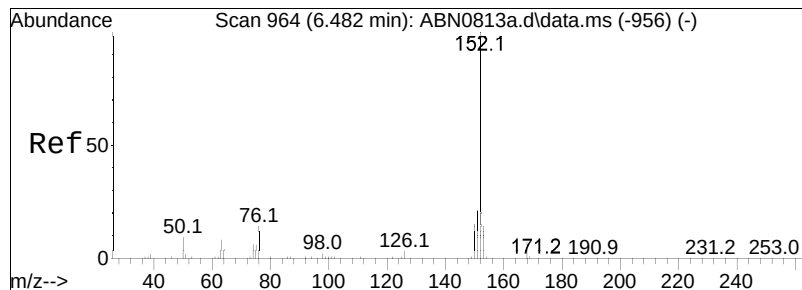
Delta R.T. -0.005 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:163 | Resp: | 394292 |
| Ion | Ratio   | Lower | Upper  |
| 163 | 100     |       |        |
| 194 | 2.0     | 3.4   | 5.2#   |
| 164 | 10.6    | 8.4   | 12.6   |





#52

Acenaphthylene

Concen: 39.01 ug/ml

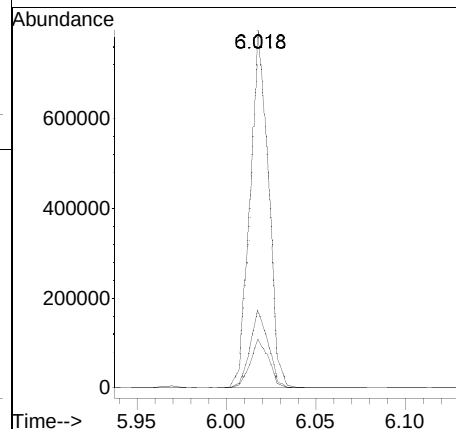
RT: 6.018 min Scan# 952

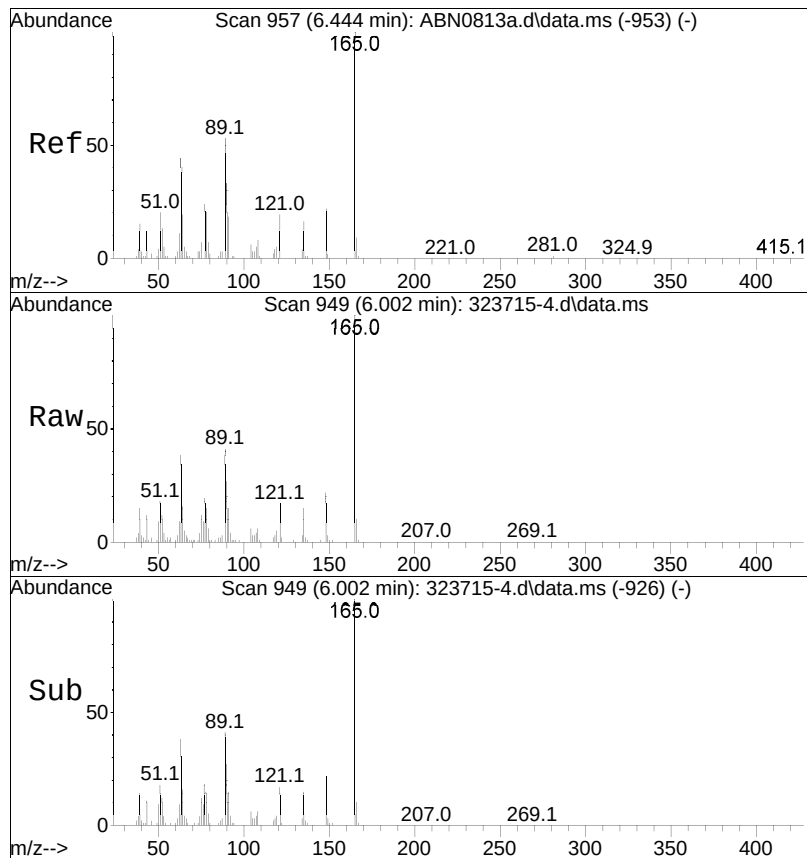
Delta R.T. 0.000 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

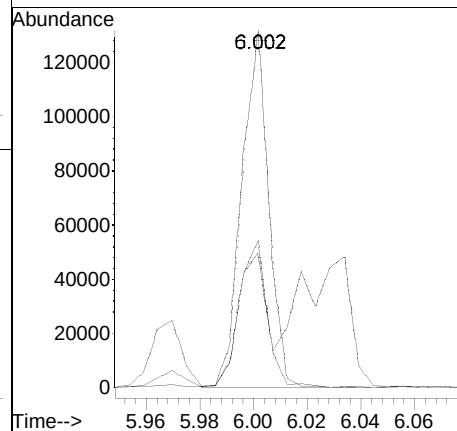
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 560711 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 21.8  | 16.7  | 25.1   |
| 153       | 13.9  | 11.1  | 16.7   |

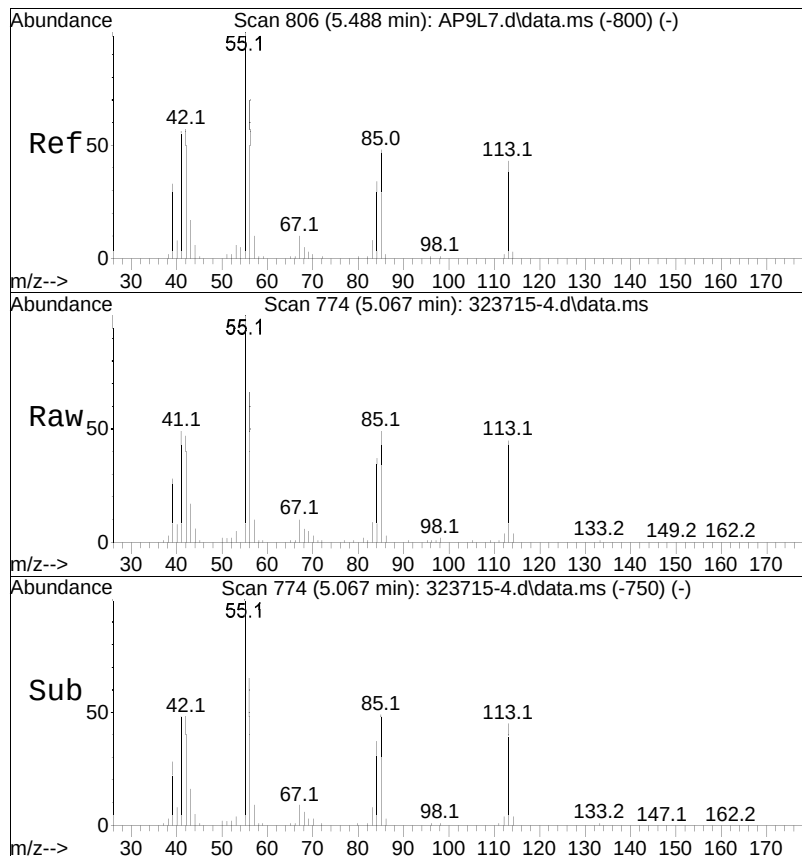




#53  
 2,6-Dinitrotoluene  
 Concen: 41.86 ug/ml  
 RT: 6.002 min Scan# 949  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

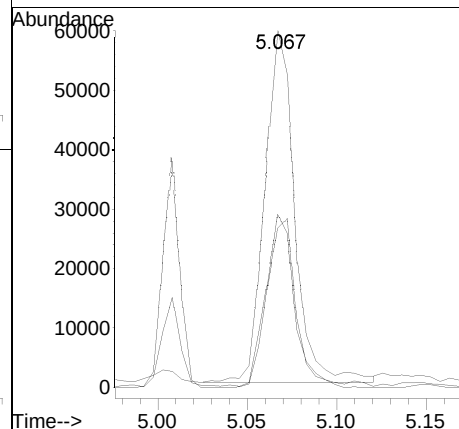
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 91137 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 89        | 43.1  | 43.1  | 64.7# |
| 63        | 40.8  | 42.7  | 64.1# |

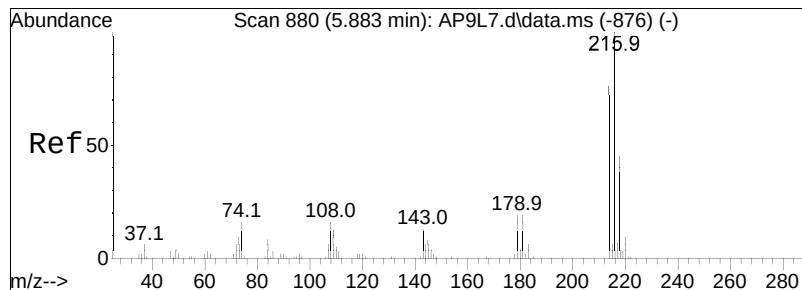




#60  
 Caprolactam  
 Concen: 38.87 ug/ml  
 RT: 5.067 min Scan# 774  
 Delta R.T. 0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 55    | Resp: | 68836 |
| Ion Ratio | Lower | Upper |       |
| 55        | 100   |       |       |
| 85        | 47.4  | 36.6  | 54.8  |
| 113       | 46.5  | 50.2  | 75.2# |





#61

1,2,4,5-Tetrachlorobenzene

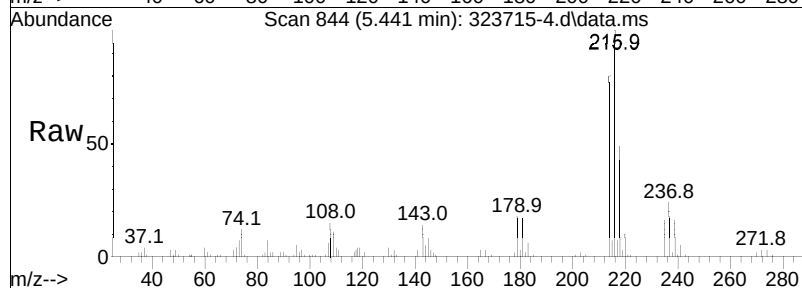
Concen: 42.32 ug/ml

RT: 5.441 min Scan# 844

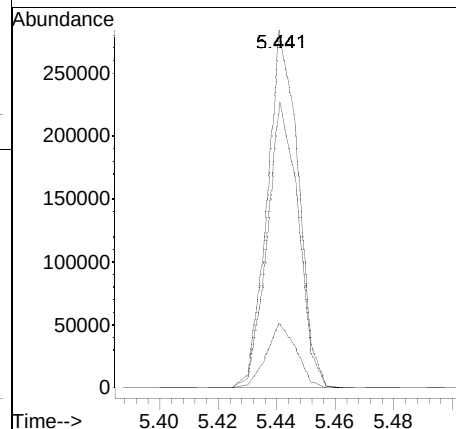
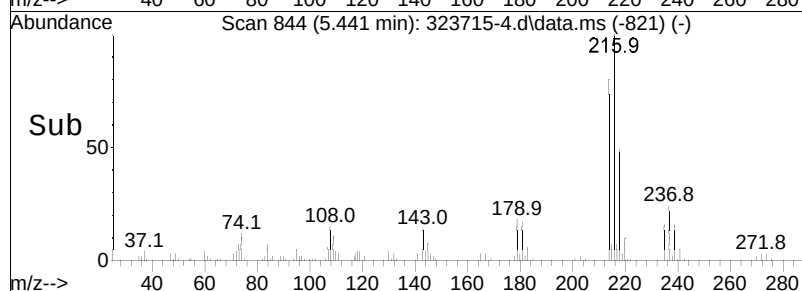
Delta R.T. 0.000 min

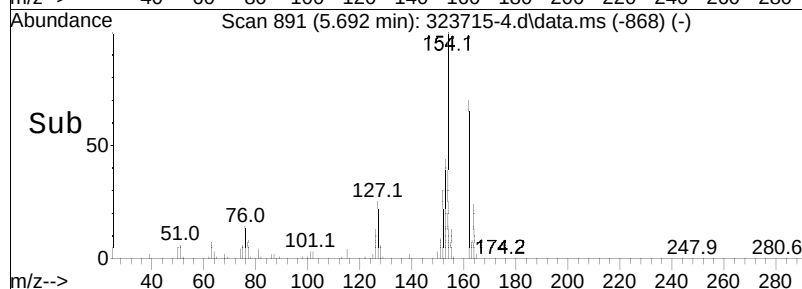
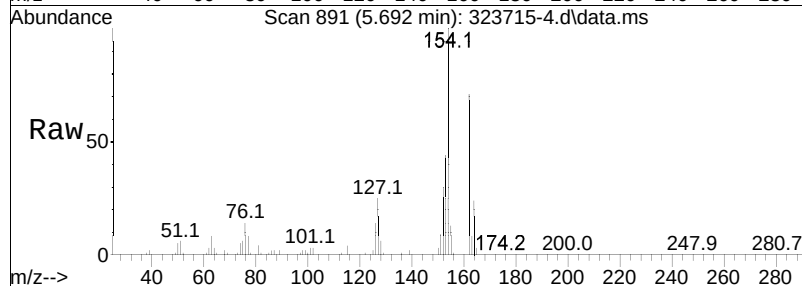
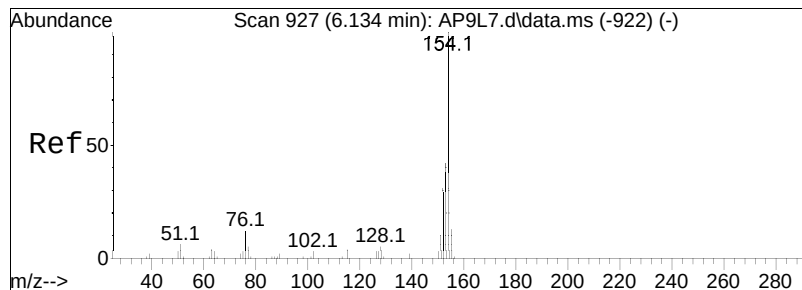
Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am



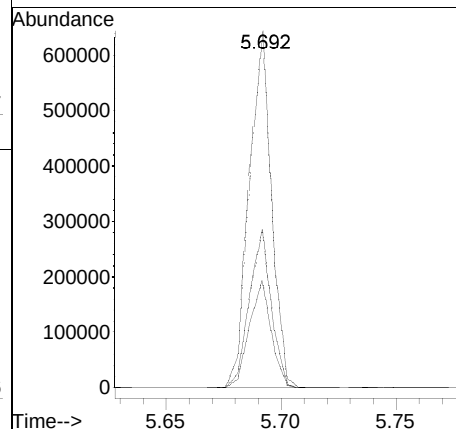
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 206756 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 80.0  | 63.0  | 94.4   |
| 179       | 17.6  | 15.3  | 22.9   |

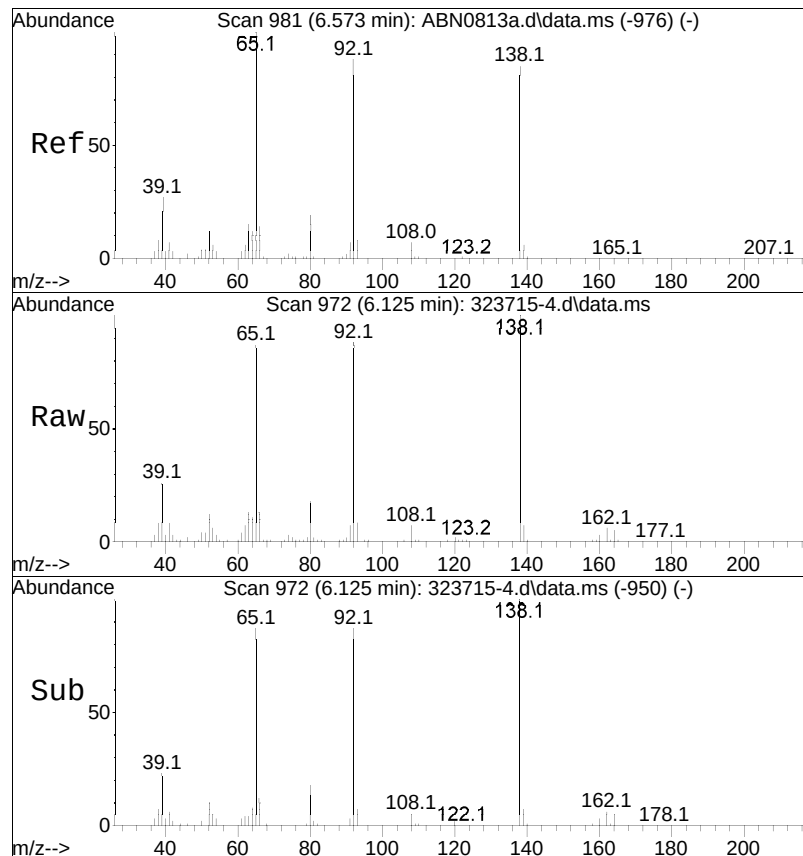




#62  
 Biphenyl  
 Concen: 40.78 ug/ml  
 RT: 5.692 min Scan# 891  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

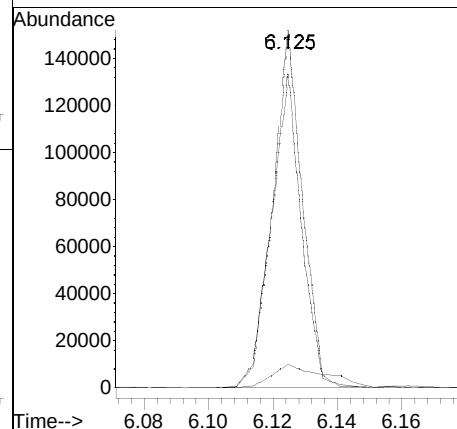
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 430284 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 43.8  | 33.8  | 50.8   |
| 152       | 29.8  | 23.0  | 34.6   |



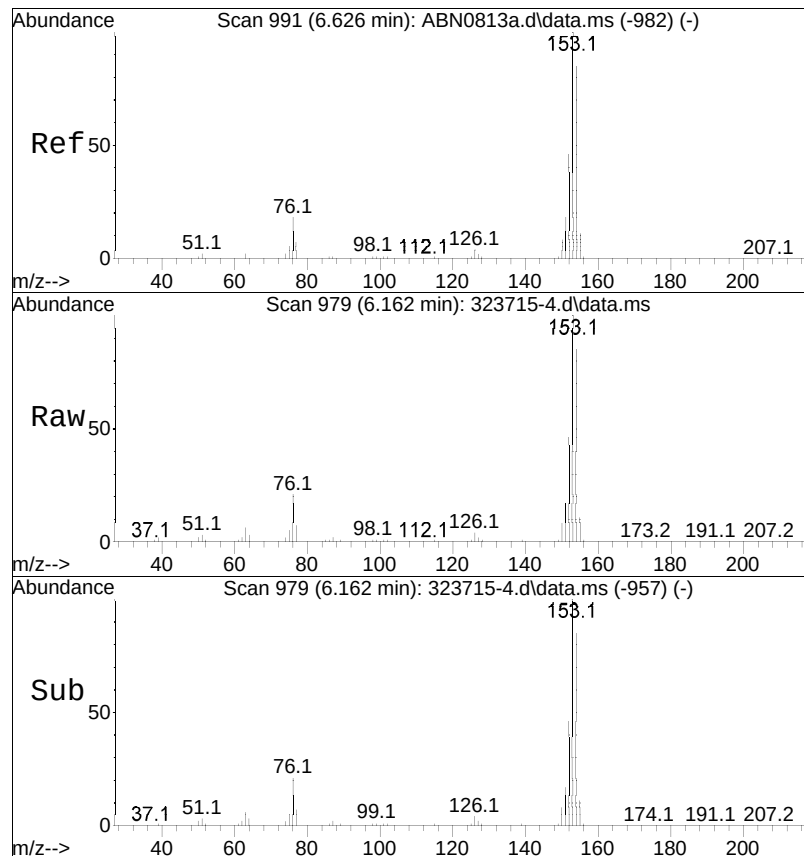


#64  
 3-Nitroaniline  
 Concen: 39.14 ug/ml  
 RT: 6.125 min Scan# 972  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 138   | Resp: | 96338 |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 92        | 90.0  | 77.5  | 116.3 |
| 108       | 12.3  | 7.0   | 10.4# |

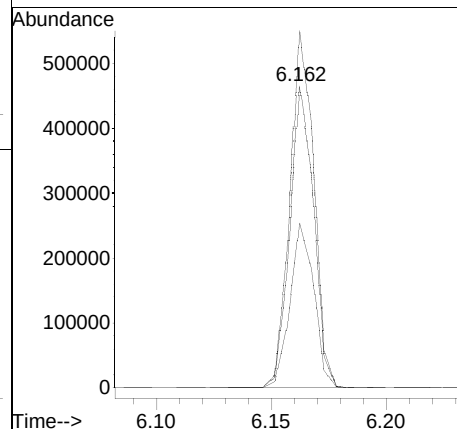


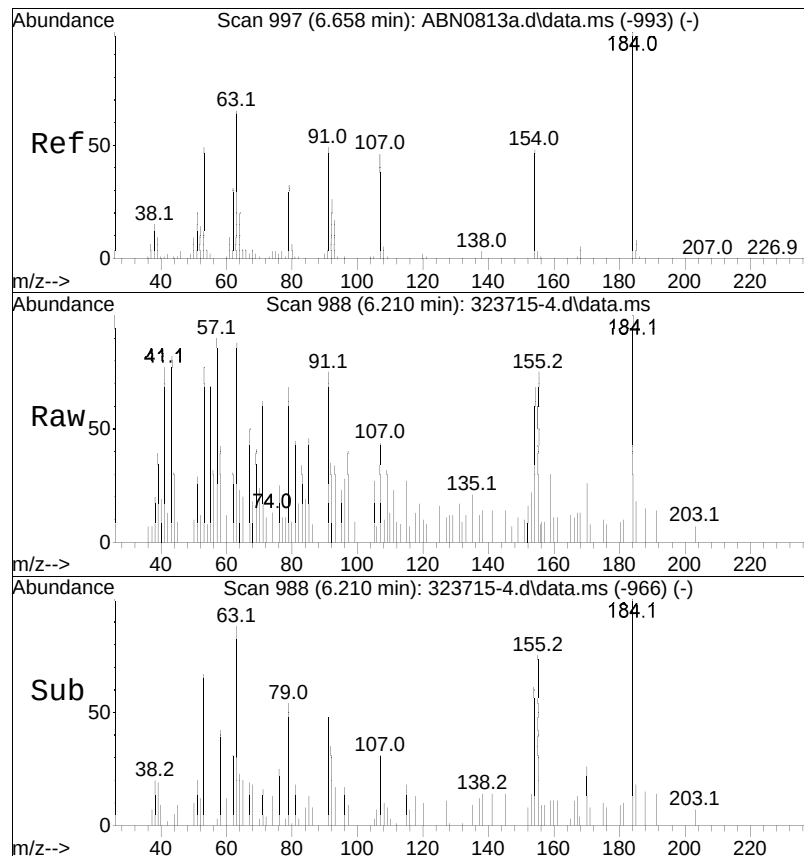




#65  
 Acenaphthene  
 Concen: 39.33 ug/ml  
 RT: 6.162 min Scan# 979  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

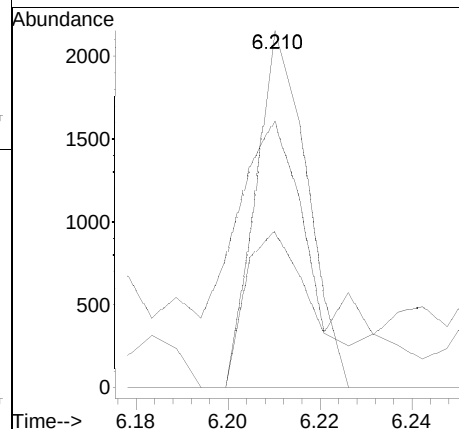
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 334977 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 118.7 | 89.4  | 134.0  |
| 152       | 55.0  | 42.2  | 63.2   |

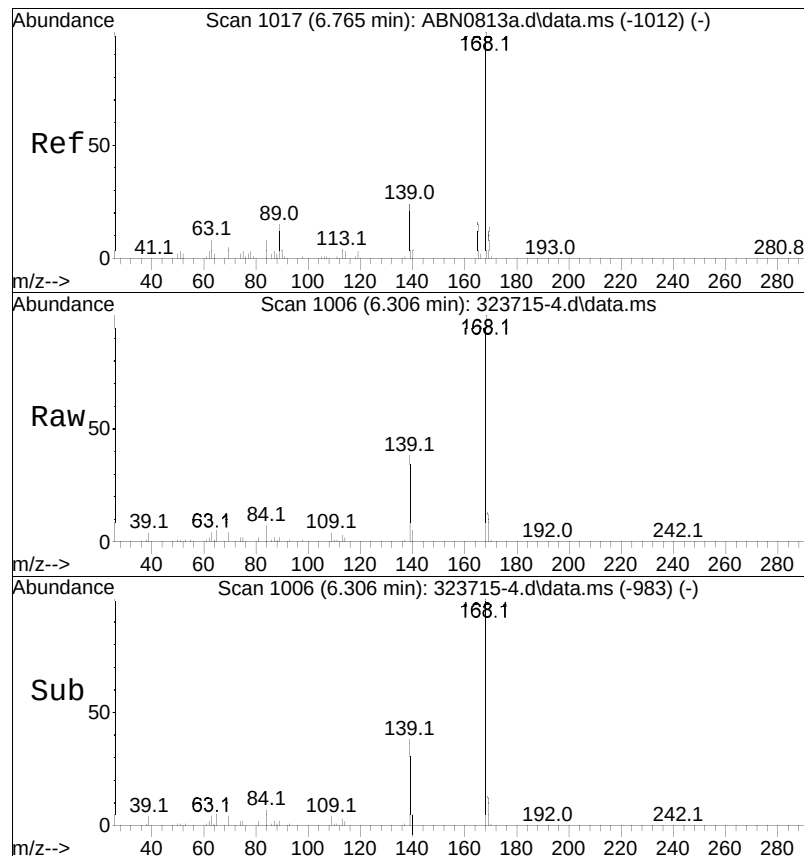




#66  
 2,4-Dinitrophenol  
 Concen: 4.04 ug/ml  
 RT: 6.210 min Scan# 988  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

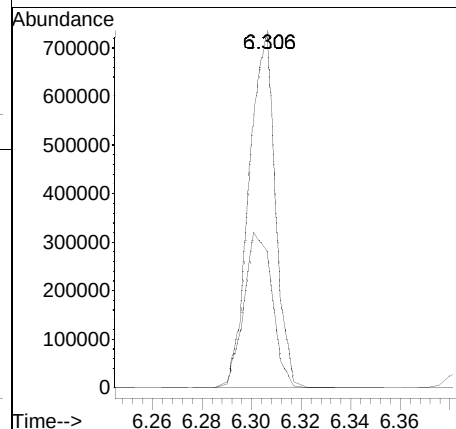
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 184   | Resp: | 1670  |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 107       | 71.8  | 31.4  | 47.2# |
| 91        | 80.5  | 37.2  | 55.8# |

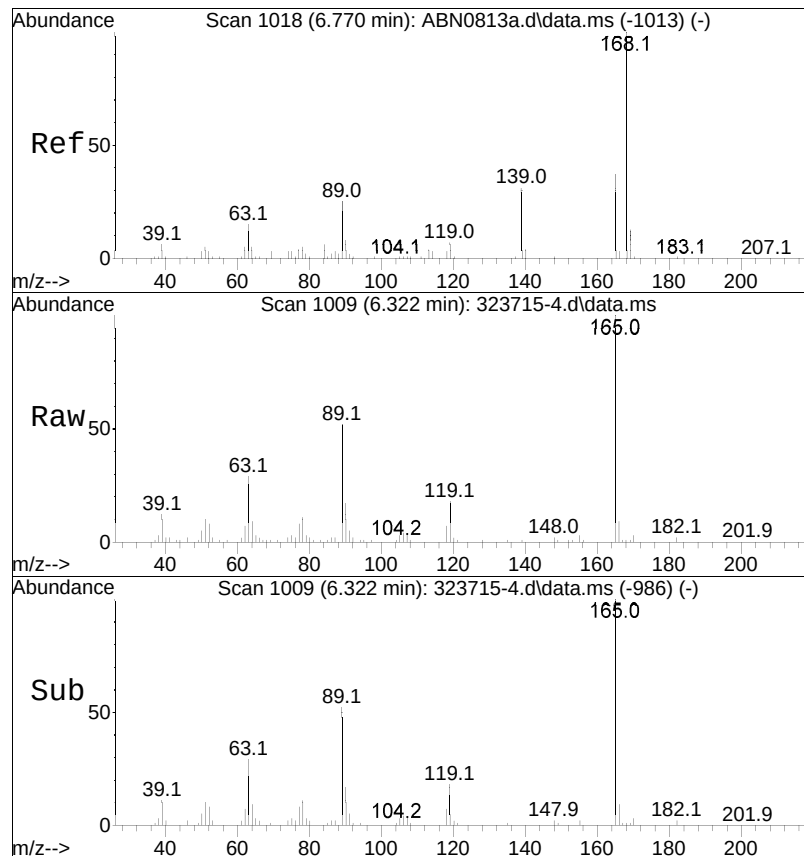




#67  
 Dibenzofuran  
 Concen: 41.42 ug/ml  
 RT: 6.306 min Scan# 1006  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

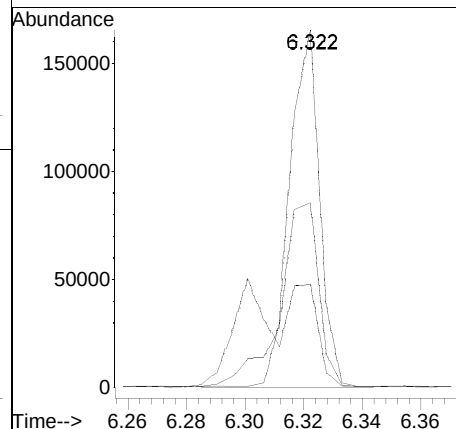
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 47.7  | 28.0  | 42.0# |

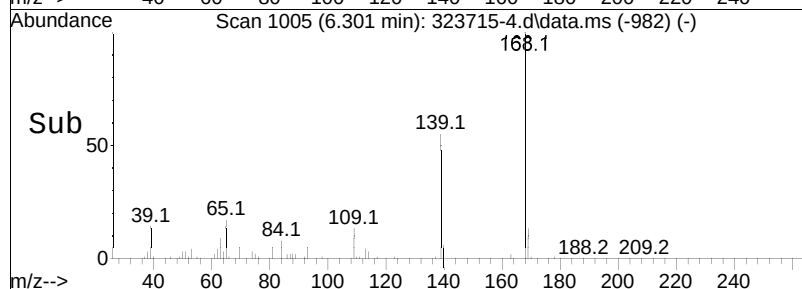
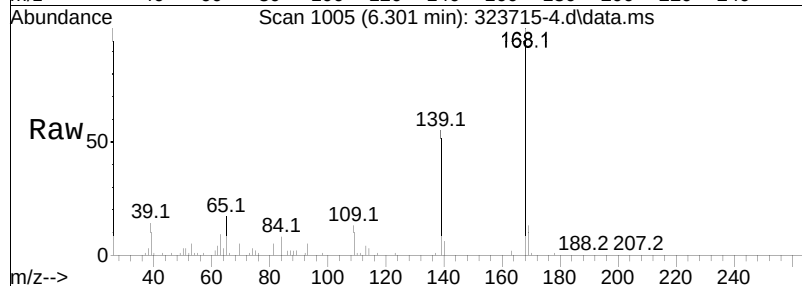
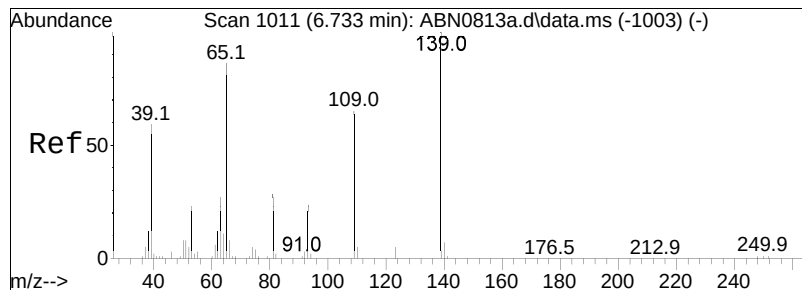




#68  
 2,4-Dinitrotoluene  
 Concen: 42.34 ug/ml  
 RT: 6.322 min Scan# 1009  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

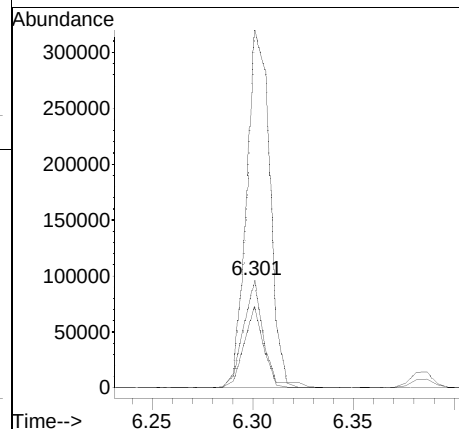
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:165 | Resp: | 117444 |
| Ion | Ratio   | Lower | Upper  |
| 165 | 100     |       |        |
| 89  | 67.0    | 63.0  | 94.6   |
| 63  | 27.9    | 50.3  | 75.5#  |

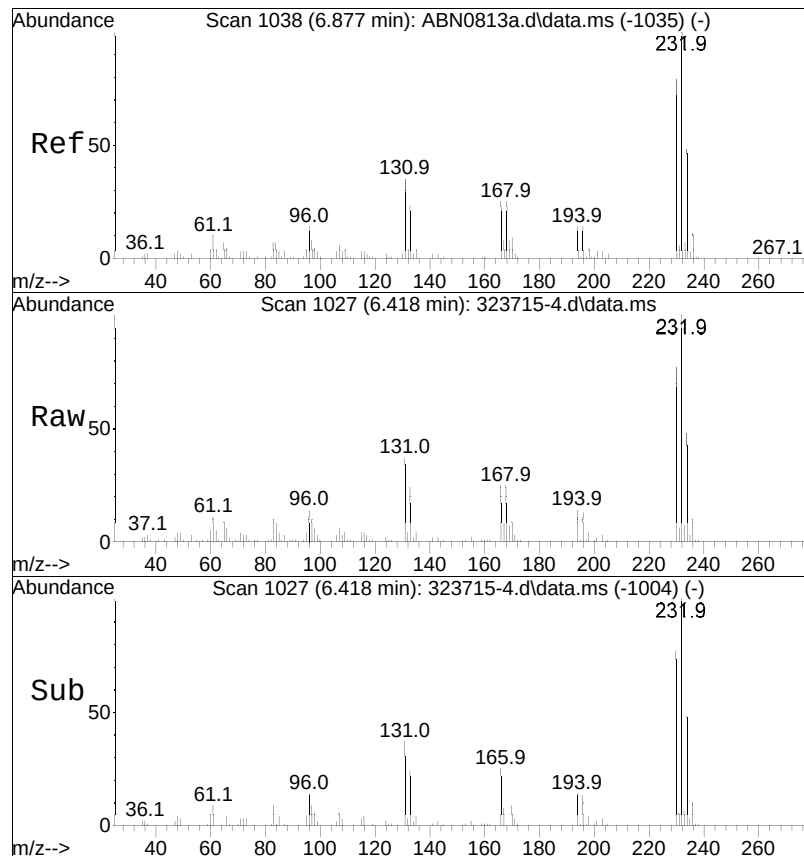




#69  
 4-Nitrophenol  
 Concen: 38.80 ug/ml  
 RT: 6.301 min Scan# 1005  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

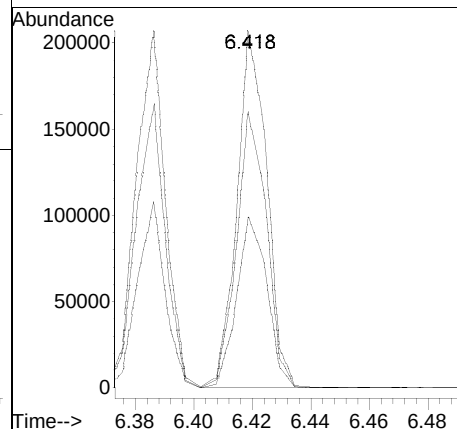
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 109     | 70.7  | 55.3  | 82.9   |
| 139     | 372.2 | 95.1  | 142.7# |

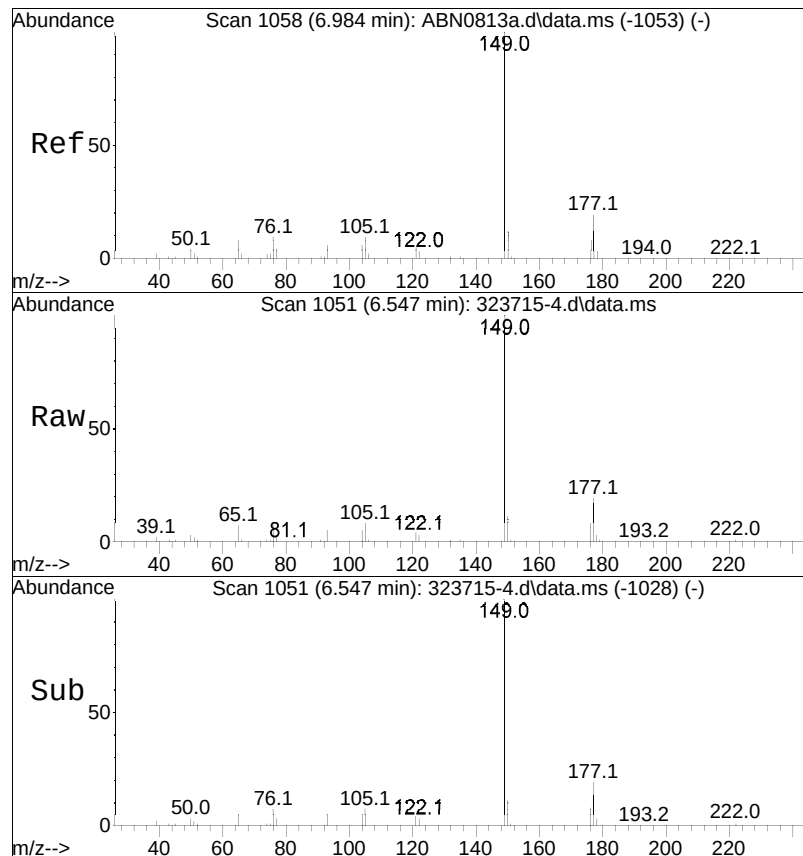




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 46.74 ug/ml  
 RT: 6.418 min Scan# 1027  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

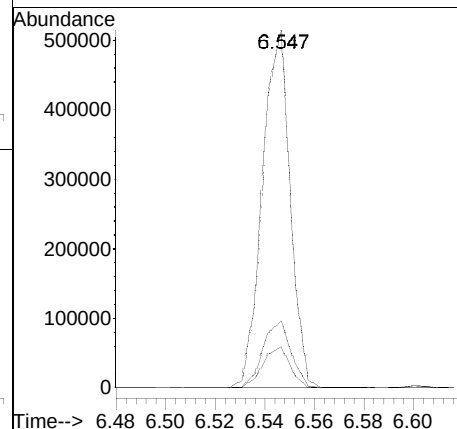
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:232 | Resp: | 147046 |
| Ion | Ratio   | Lower | Upper  |
| 232 | 100     |       |        |
| 230 | 77.2    | 64.2  | 96.4   |
| 234 | 48.7    | 38.4  | 57.6   |

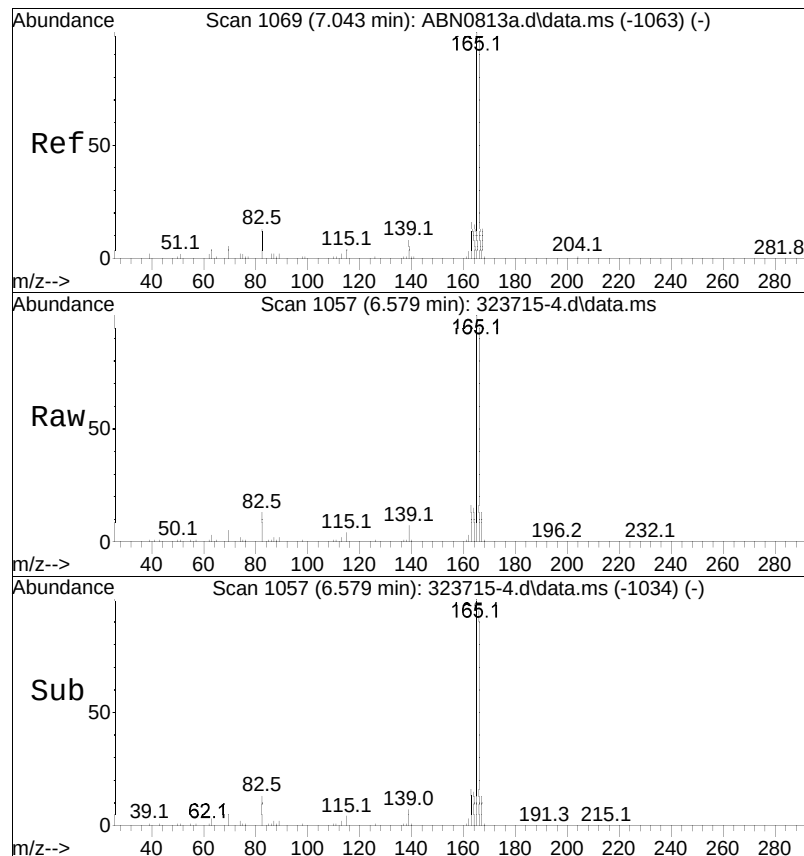




#72  
 Diethyl phthalate  
 Concen: 37.67 ug/ml  
 RT: 6.547 min Scan# 1051  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

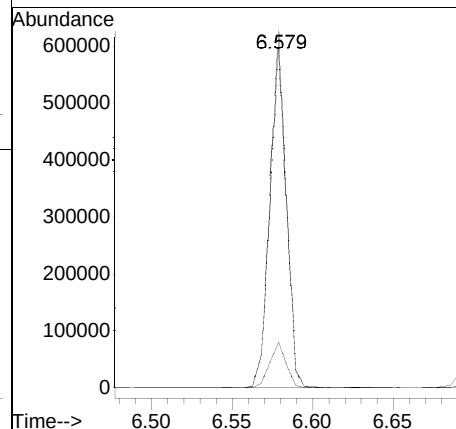
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 395146 |       |       |
| 177     | 19.6  |        | 16.2  | 24.2  |
| 150     | 11.5  |        | 9.4   | 14.0  |



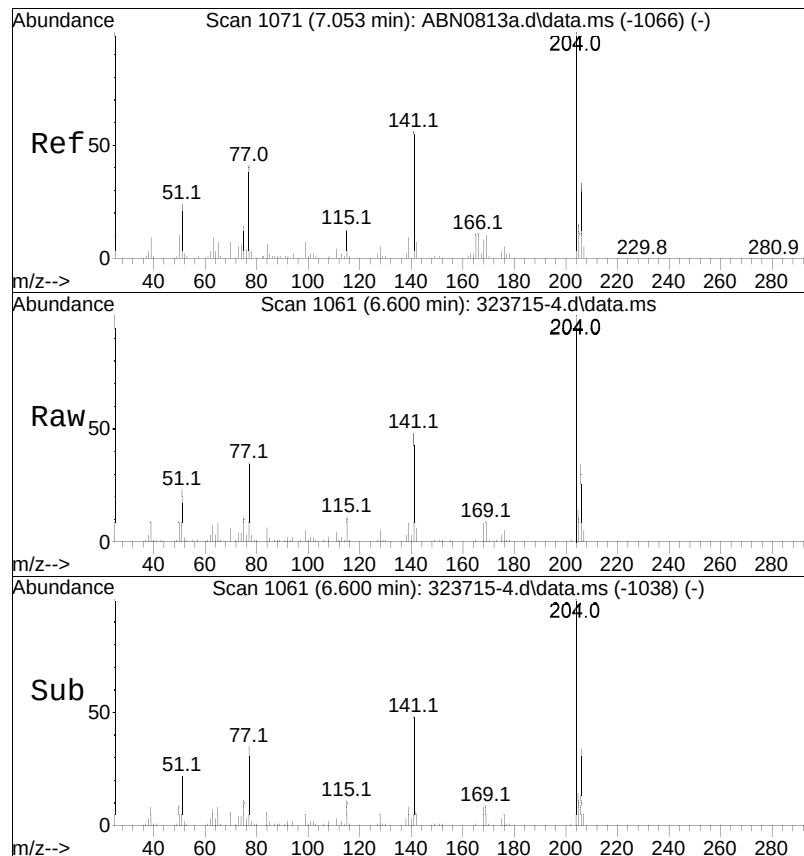


#73  
 Fluorene  
 Concen: 41.13 ug/ml  
 RT: 6.579 min Scan# 1057  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt Ion:  | 166   | Resp: | 419975 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 104.2 | 77.2  | 115.8  |
| 167       | 13.6  | 10.9  | 16.3   |

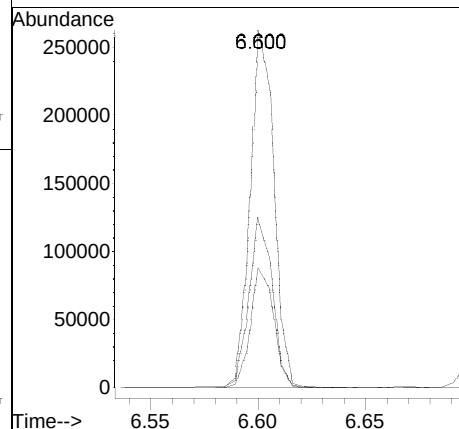


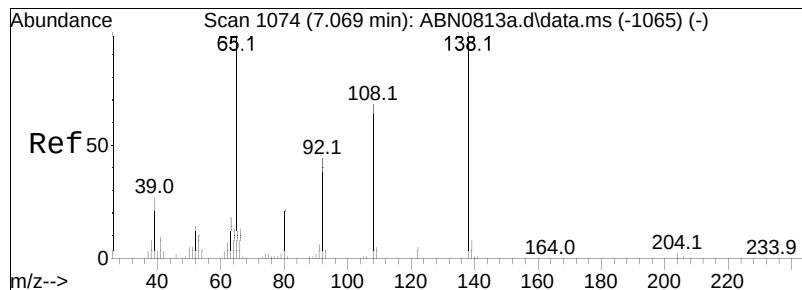




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 38.70 ug/ml  
 RT: 6.600 min Scan# 1061  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:204 | Resp: | 201419 |
| Ion | Ratio   | Lower | Upper  |
| 204 | 100     |       |        |
| 206 | 32.8    | 27.0  | 40.6   |
| 141 | 47.1    | 42.2  | 63.2   |





#75

4-Nitroaniline

Concen: 41.80 ug/ml

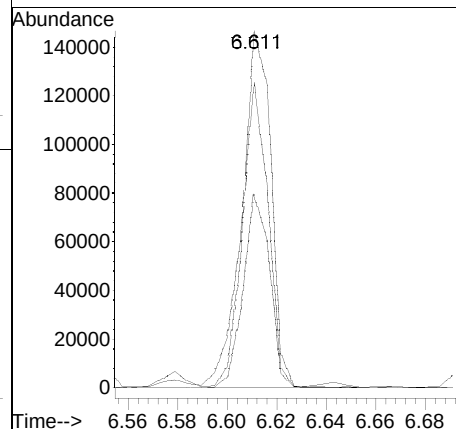
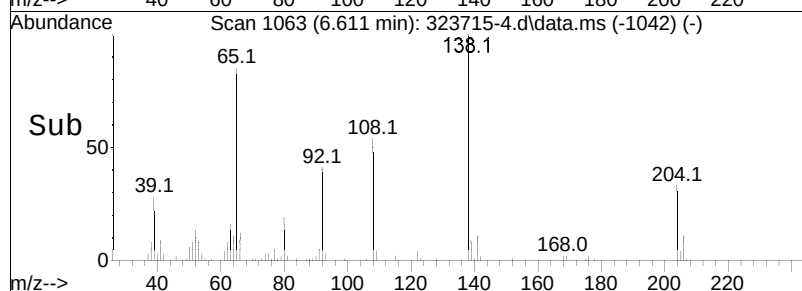
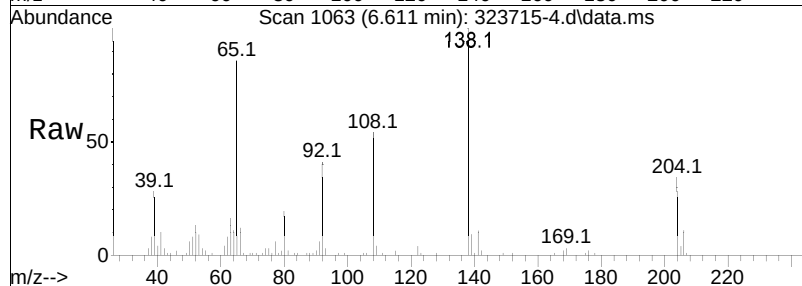
RT: 6.611 min Scan# 1063

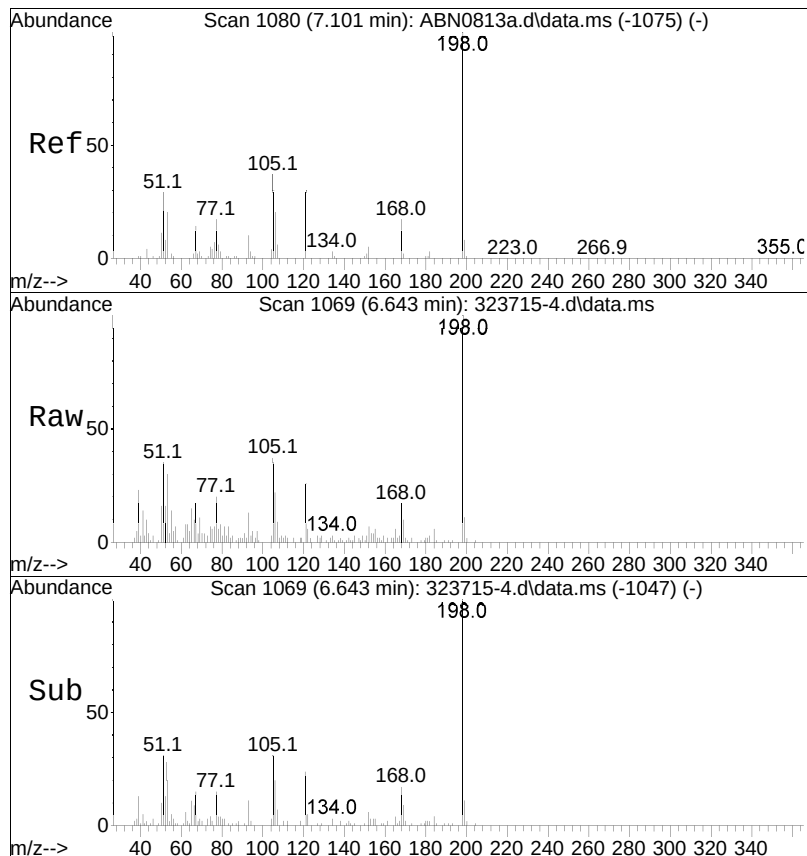
Delta R.T. -0.011 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

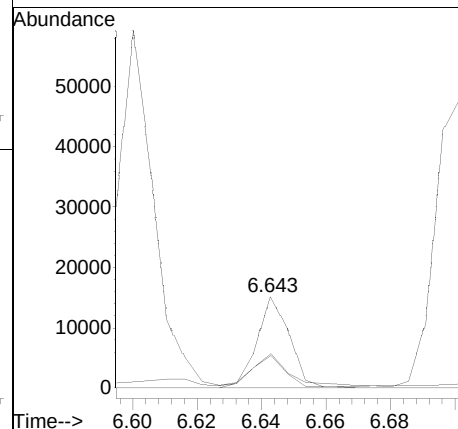
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 110757 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 53.1  | 46.7  | 70.1   |
| 65        | 86.3  | 81.2  | 121.8  |

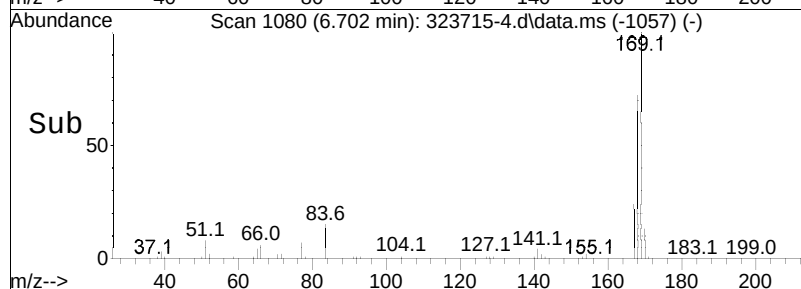
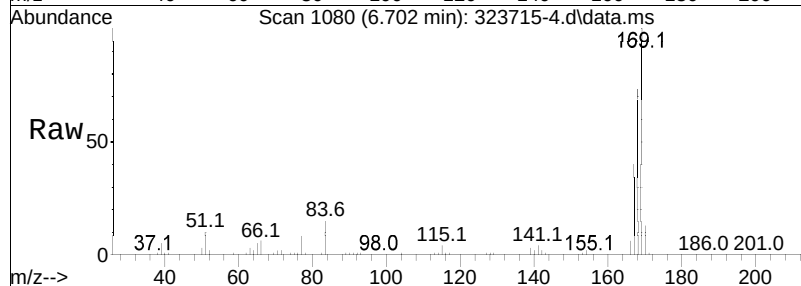
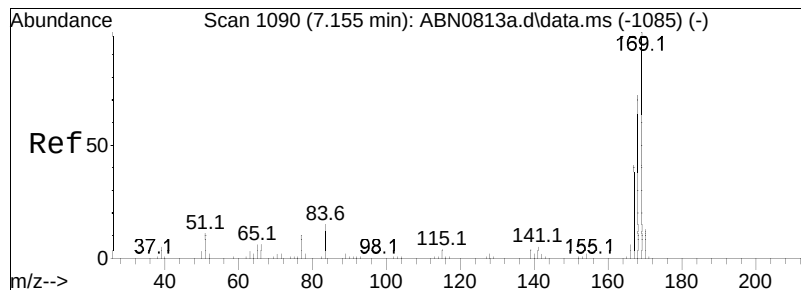




#76  
 4,6-Dinitro-o-cresol  
 Concen: 6.56 ug/ml  
 RT: 6.643 min Scan# 1069  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 33.6  | 35.0  | 52.6# |
| 105     | 36.9  | 32.3  | 48.5  |





#77

NDPA/DPA

Concen: 40.62 ug/ml

RT: 6.702 min Scan# 1080

Delta R.T. 0.000 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

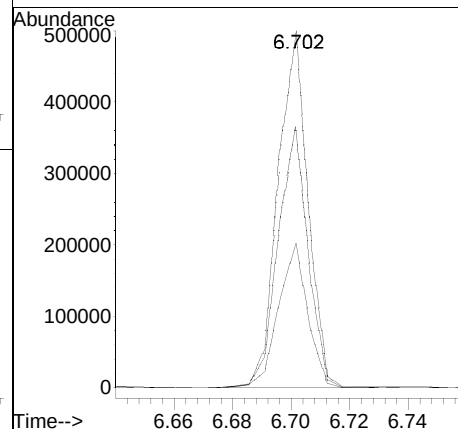
Tgt Ion:169 Resp: 353723

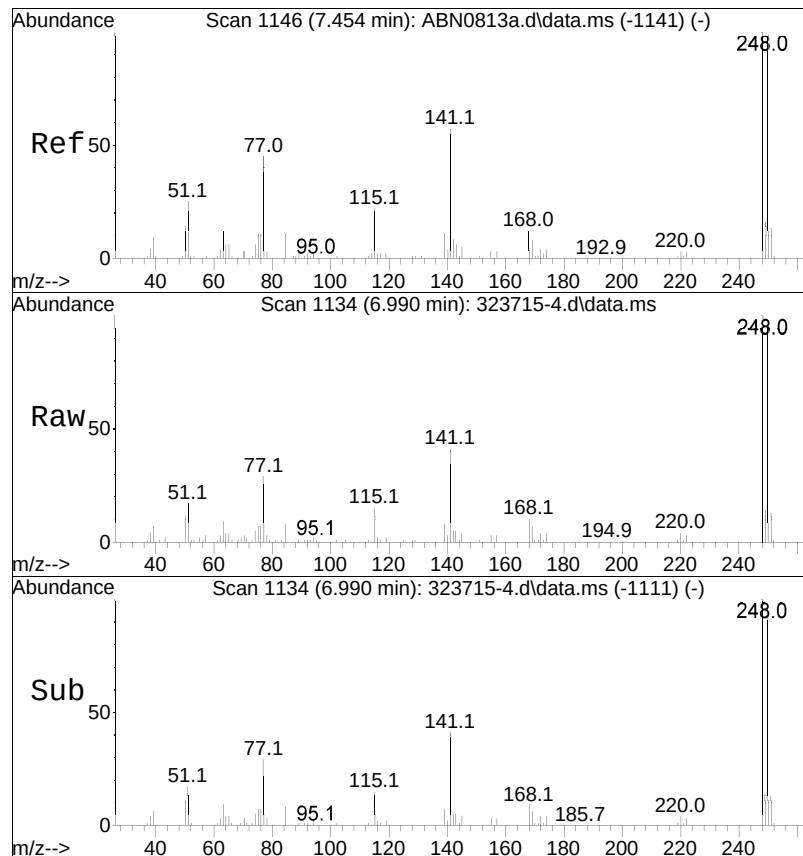
Ion Ratio Lower Upper

169 100

168 73.5 54.6 82.0

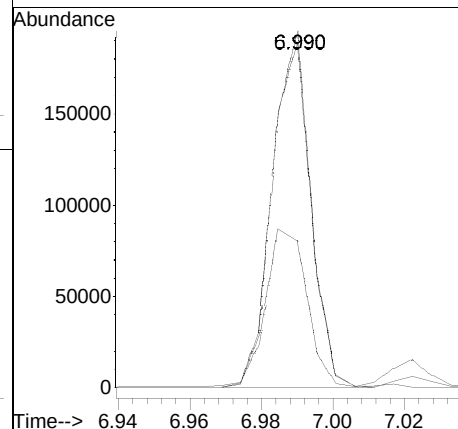
167 39.8 30.7 46.1

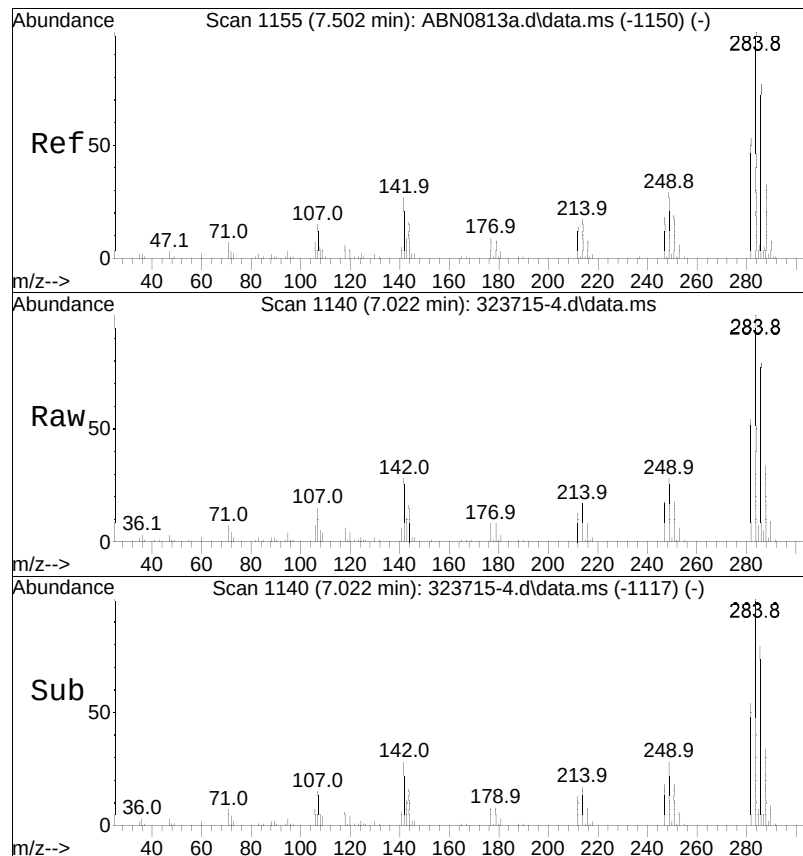




#80  
 4-Bromophenyl phenyl ether  
 Concen: 42.88 ug/ml  
 RT: 6.990 min Scan# 1134  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

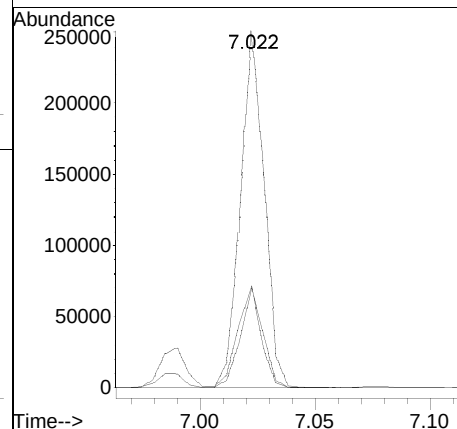
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 144056 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 48.7  | 46.6  | 70.0   |
| 250       | 97.5  | 79.4  | 119.2  |

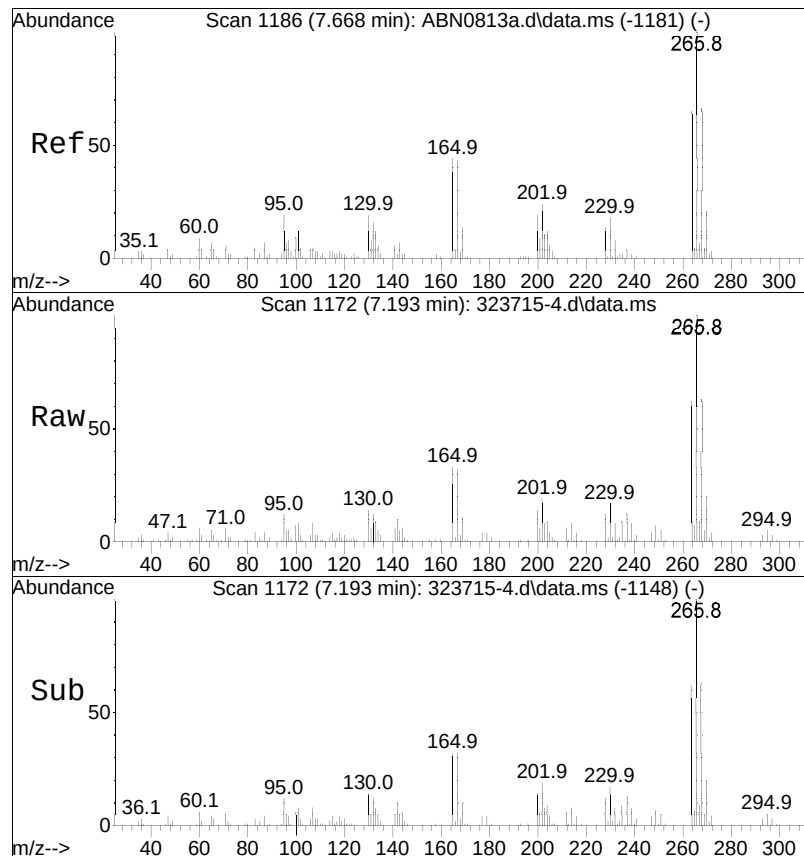




#81  
 Hexachlorobenzene  
 Concen: 44.93 ug/ml  
 RT: 7.022 min Scan# 1140  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

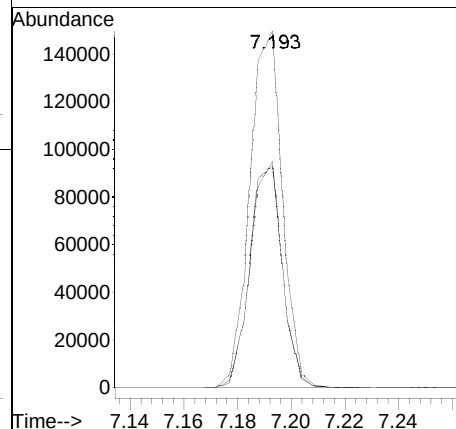
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 28.2  | 26.0  | 39.0  |
| 249     | 26.8  | 20.6  | 30.8  |

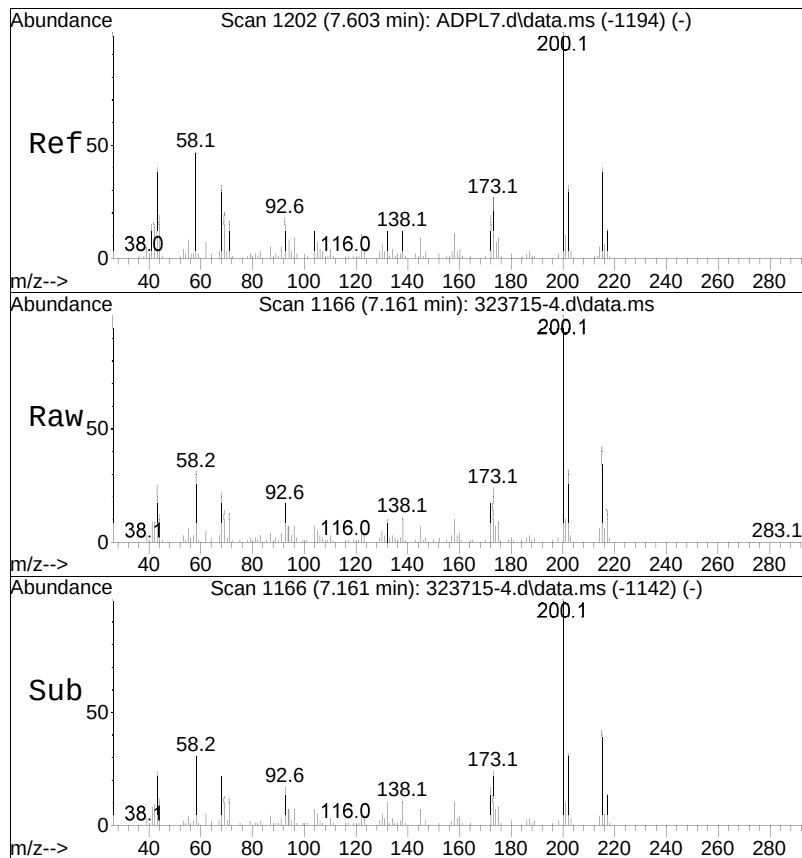




#82  
 Pentachlorophenol  
 Concen: 49.33 ug/ml  
 RT: 7.193 min Scan# 1172  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

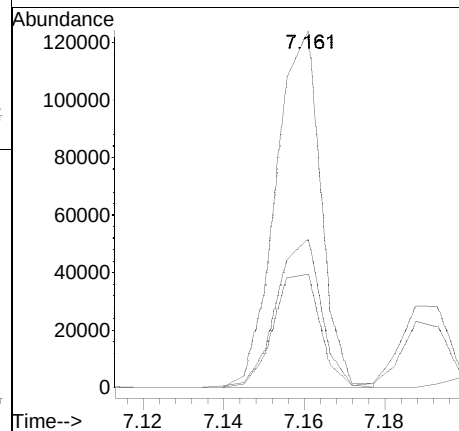
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:266 | Resp: | 126108 |
| Ion | Ratio   | Lower | Upper  |
| 266 | 100     |       |        |
| 264 | 62.8    | 51.2  | 76.8   |
| 268 | 62.2    | 51.5  | 77.3   |



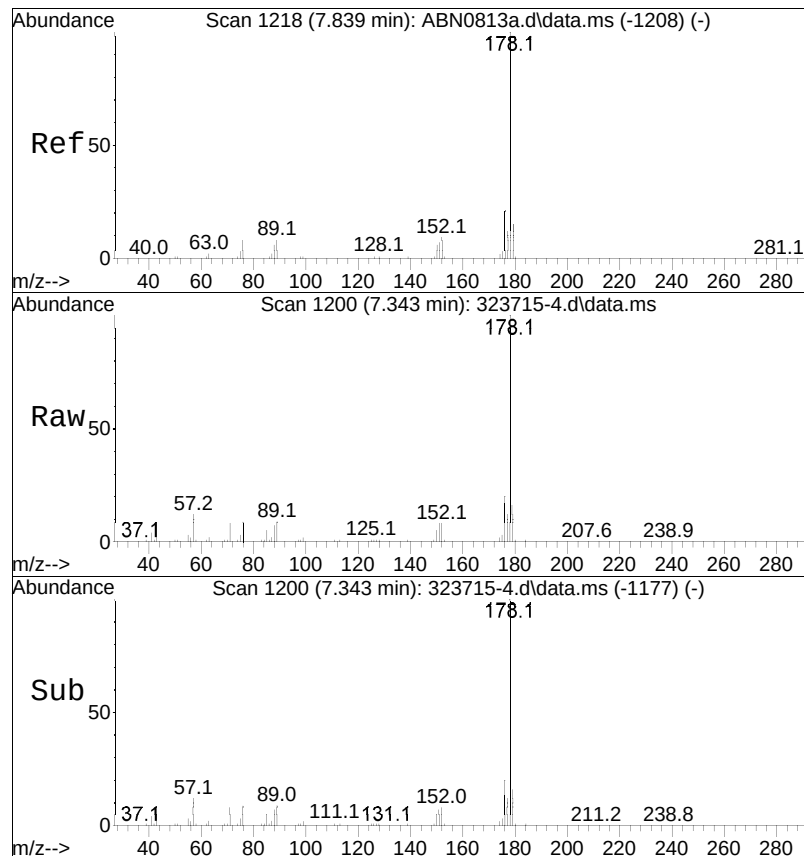


#87  
 Atrazine  
 Concen: 38.05 ug/ml  
 RT: 7.161 min Scan# 1166  
 Delta R.T. 0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 200     | 100   | 95903 |       |       |
| 202     | 33.0  |       | 25.8  | 38.8  |
| 215     | 41.7  |       | 40.3  | 60.5  |

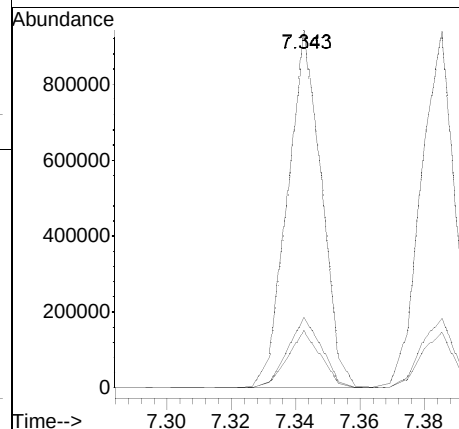


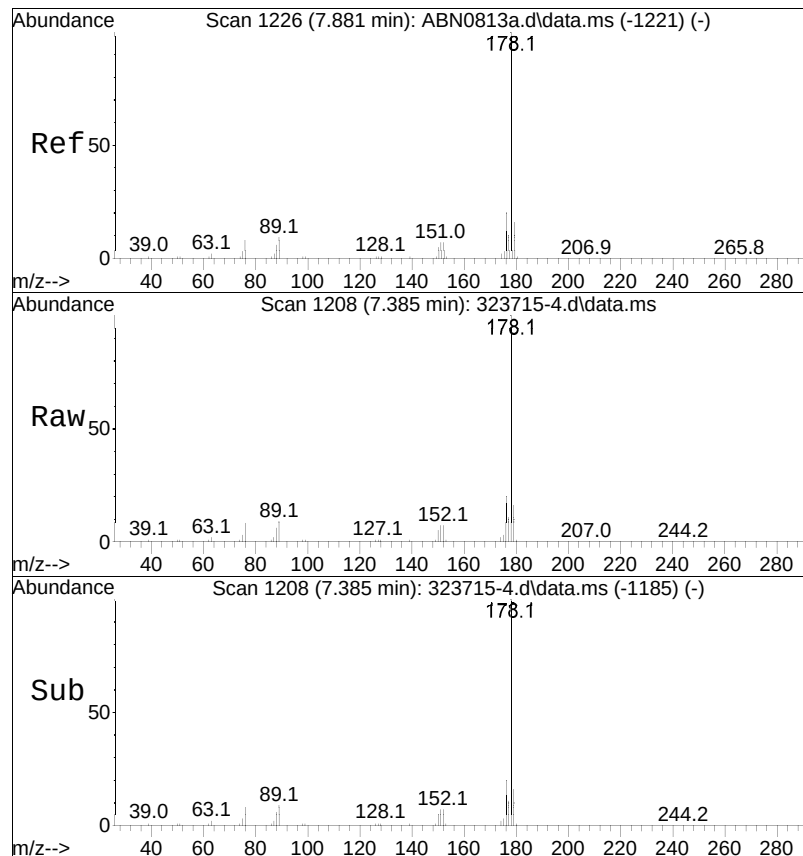




#89  
 Phenanthrene  
 Concen: 39.20 ug/ml  
 RT: 7.343 min Scan# 1200  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

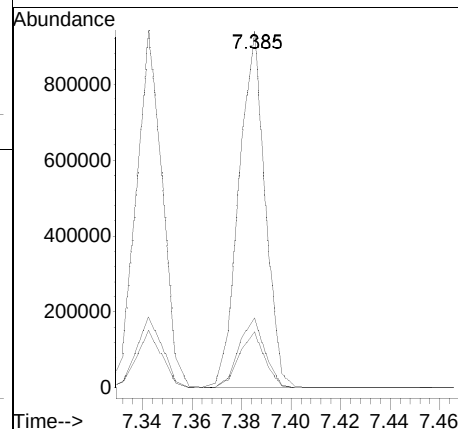
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:178 | Resp: | 692014 |
| Ion | Ratio   | Lower | Upper  |
| 178 | 100     |       |        |
| 179 | 15.8    | 12.7  | 19.1   |
| 176 | 19.8    | 15.8  | 23.6   |

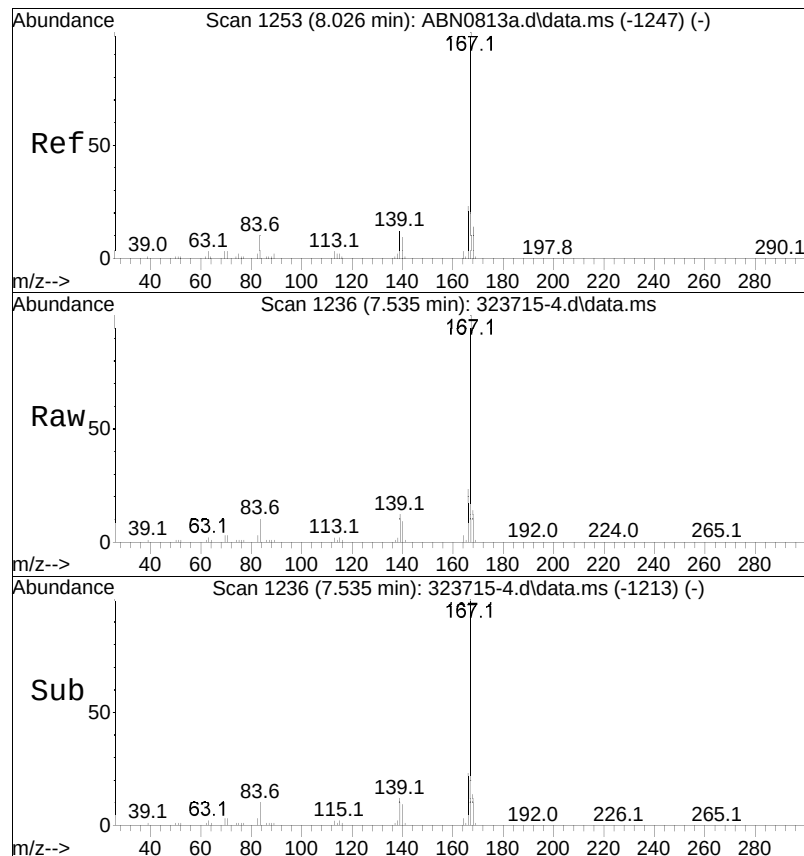




#90  
 Anthracene  
 Concen: 39.90 ug/ml  
 RT: 7.385 min Scan# 1208  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

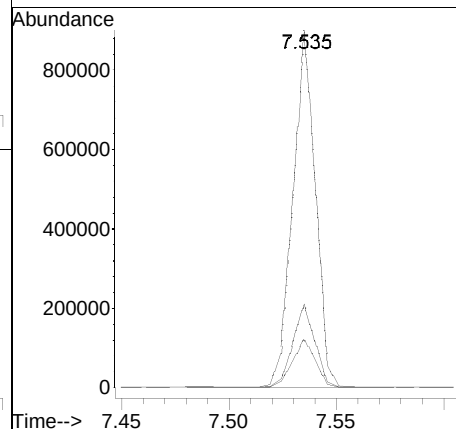
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 178 | 100  |       | 692098 |       |       |
| 179 | 15.5 | 12.5  |        | 18.7  |       |
| 176 | 19.5 | 15.4  |        | 23.0  |       |

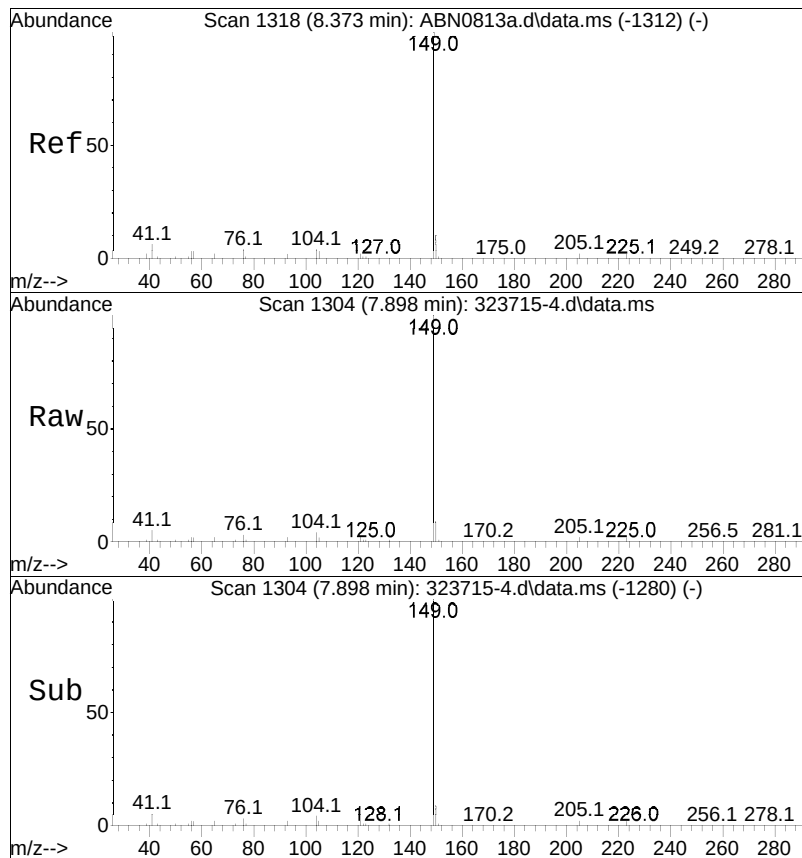




#91  
 Carbazole  
 Concen: 40.59 ug/ml  
 RT: 7.535 min Scan# 1236  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

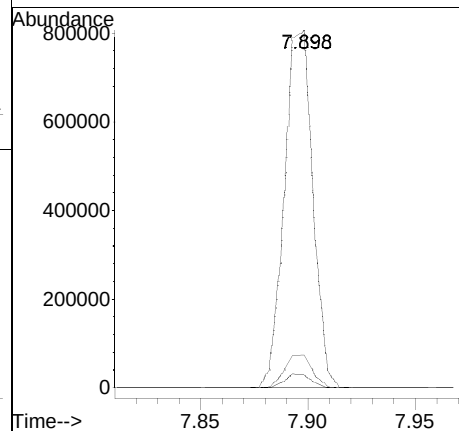
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 167     | 100   | 647790 |       |       |
| 168     | 14.1  |        | 11.3  | 16.9  |
| 166     | 23.3  |        | 17.8  | 26.8  |

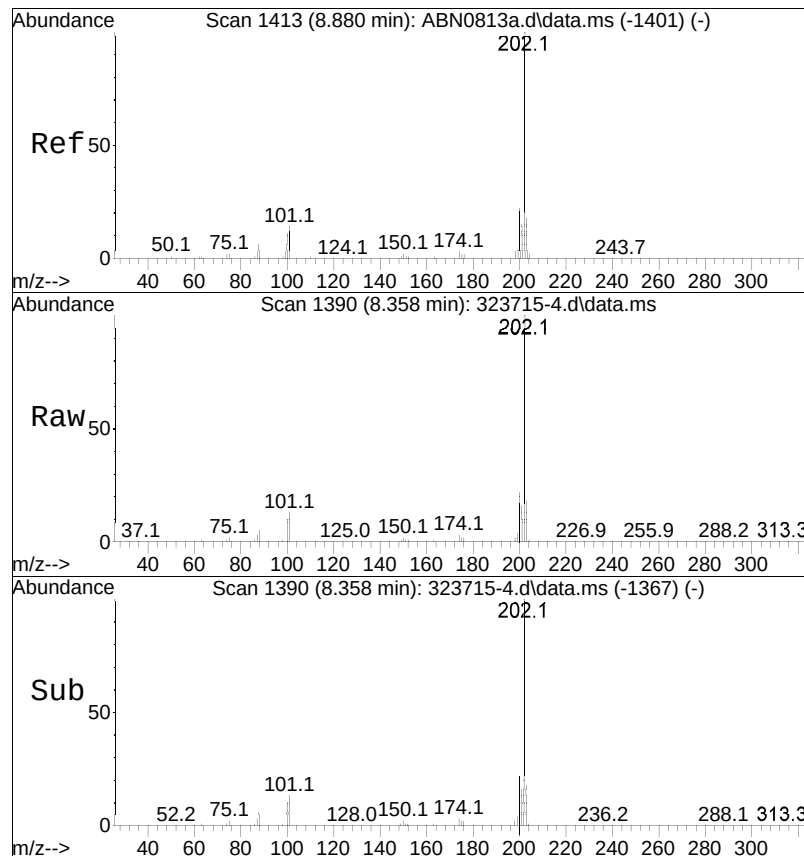




#92  
 Di-n-butylphthalate  
 Concen: 41.99 ug/ml  
 RT: 7.898 min Scan# 1304  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

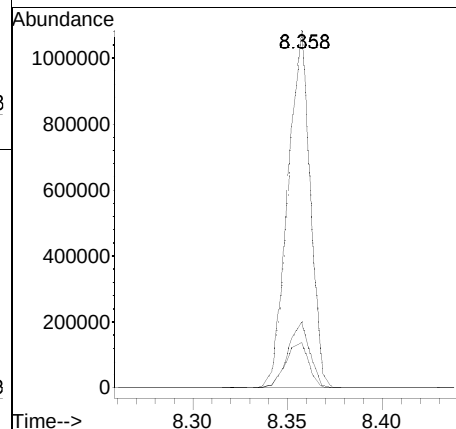
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 731582 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 9.1   | 7.4   | 11.2   |
| 104       | 3.7   | 3.8   | 5.8#   |

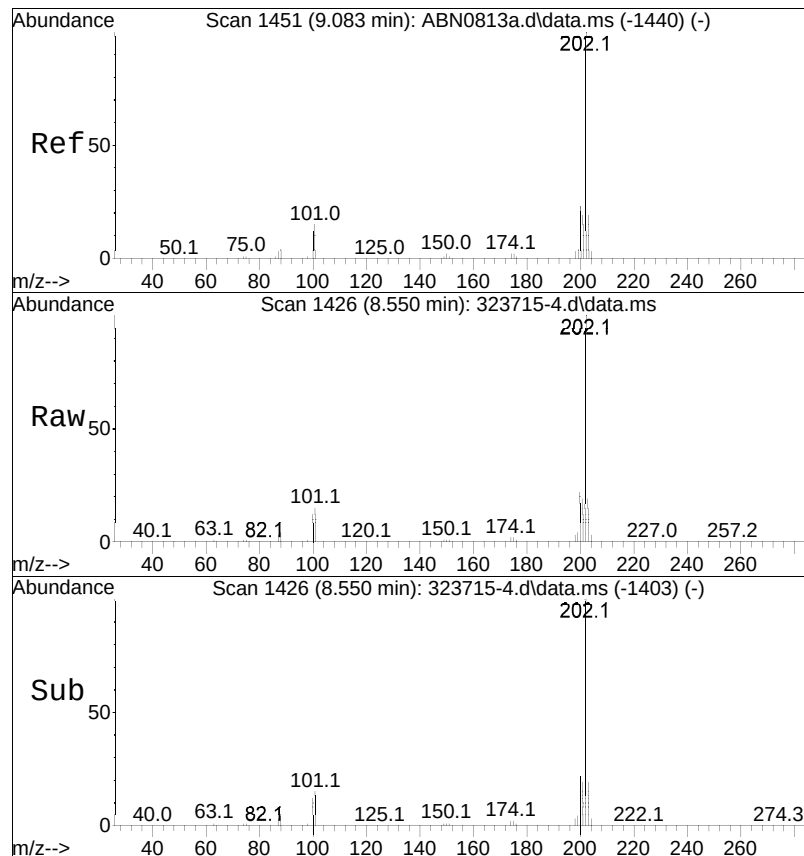




#93  
 Fluoranthene  
 Concen: 42.74 ug/ml  
 RT: 8.358 min Scan# 1390  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

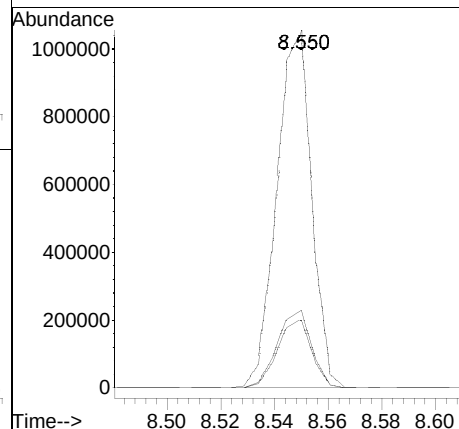
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 879690 |       |       |
| 101 | 13.4 |       |        | 12.6  | 19.0  |
| 203 | 18.2 |       |        | 14.4  | 21.6  |

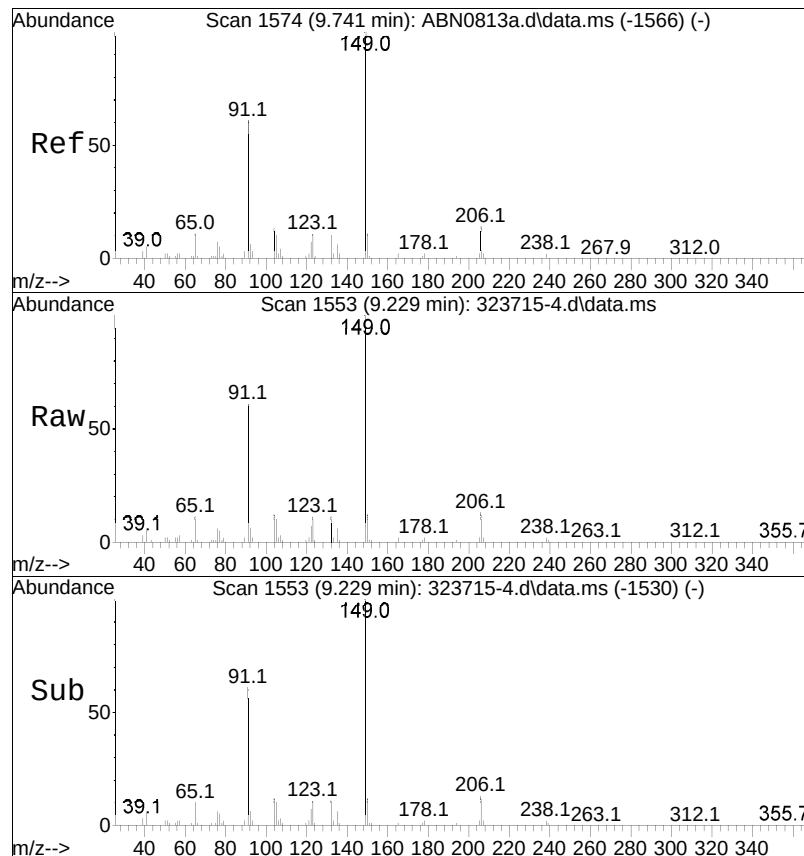




#95  
 Pyrene  
 Concen: 42.10 ug/ml  
 RT: 8.550 min Scan# 1426  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

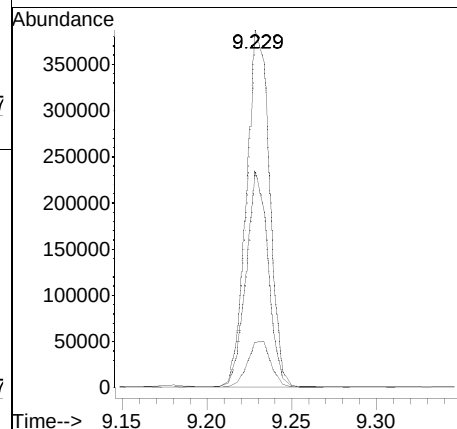
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 935649 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.6  | 17.2  | 25.8   |
| 203       | 19.0  | 15.0  | 22.6   |

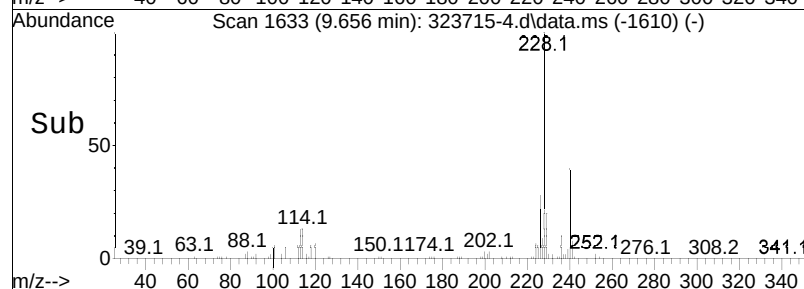
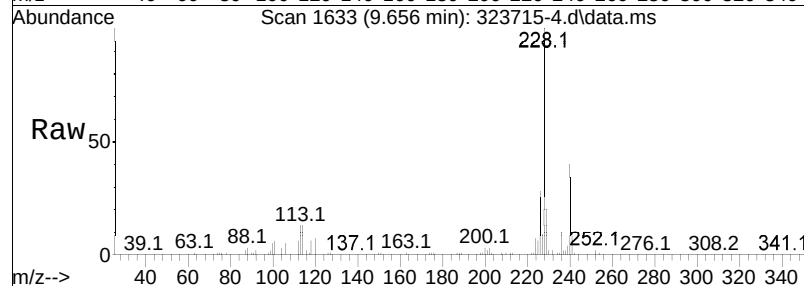
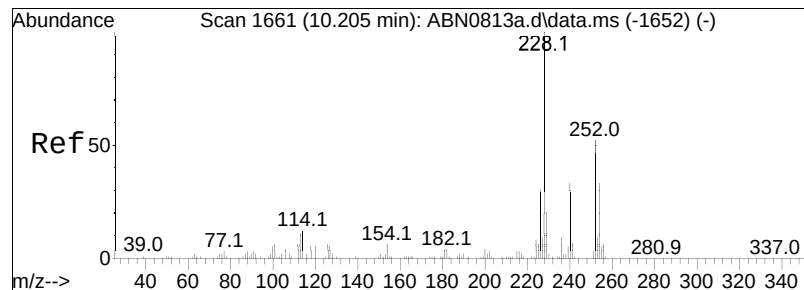




#97  
 Butyl benzyl phthalate  
 Concen: 43.90 ug/ml  
 RT: 9.229 min Scan# 1553  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

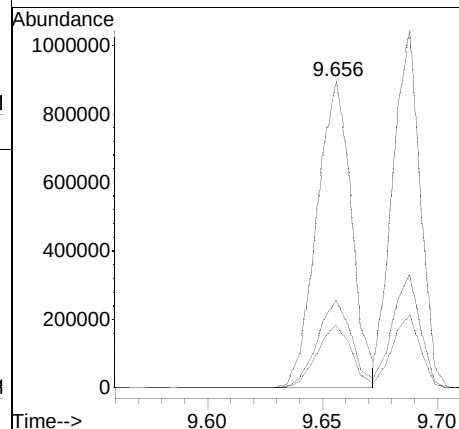
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 361506 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 57.8  | 53.4  | 80.2   |
| 206       | 13.3  | 13.3  | 19.9#  |



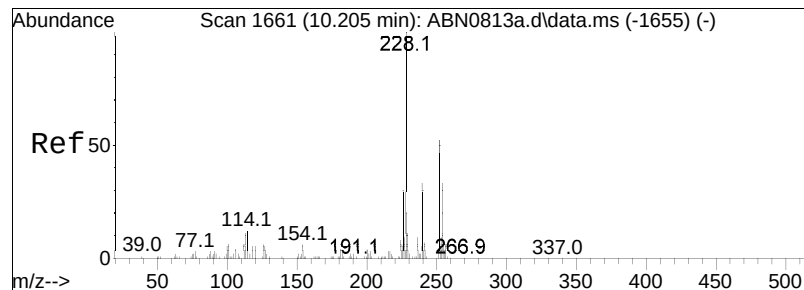


#105  
 Benzo(a)anthracene  
 Concen: 41.17 ug/ml  
 RT: 9.656 min Scan# 1633  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 946990 |       |       |
| 226     | 28.6  |        | 22.9  | 34.3  |
| 229     | 20.5  |        | 16.1  | 24.1  |

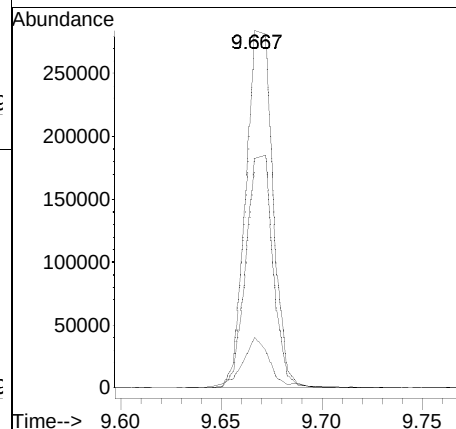
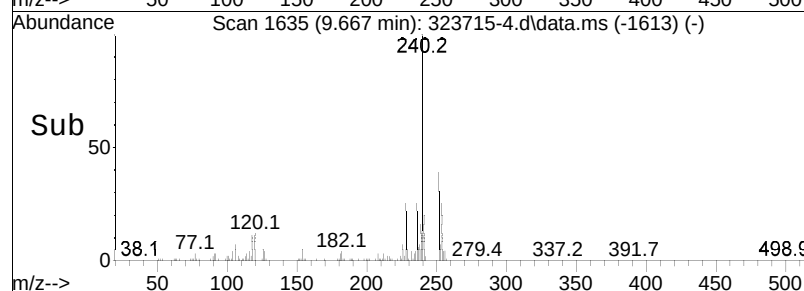
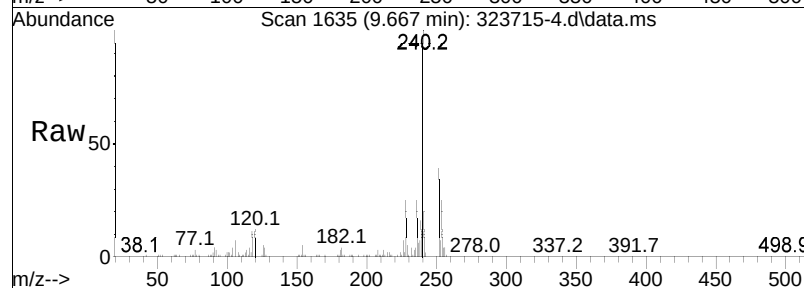


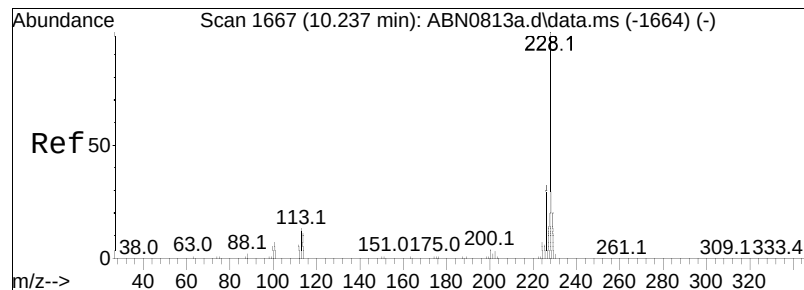




#106  
 3,3'-Dichlorobenzidine  
 Concen: 30.63 ug/ml  
 RT: 9.667 min Scan# 1635  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 265312 |       |       |
| 126 | 14.3 | 13.4  | 20.0   |       |       |
| 254 | 65.1 | 52.8  | 79.2   |       |       |





#107

Chrysene

Concen: 35.48 ug/ml

RT: 9.688 min Scan# 1639

Delta R.T. 0.000 min

Lab File: 323715-4.d

Acq: 24 Dec 2019 6:42 am

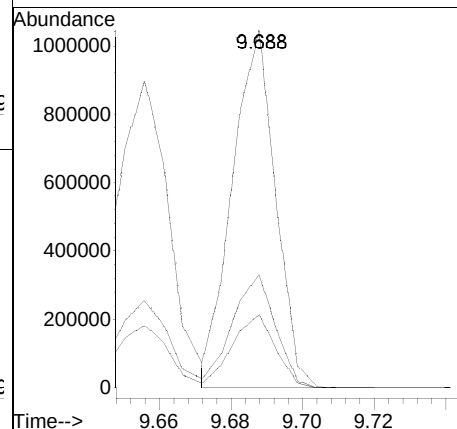
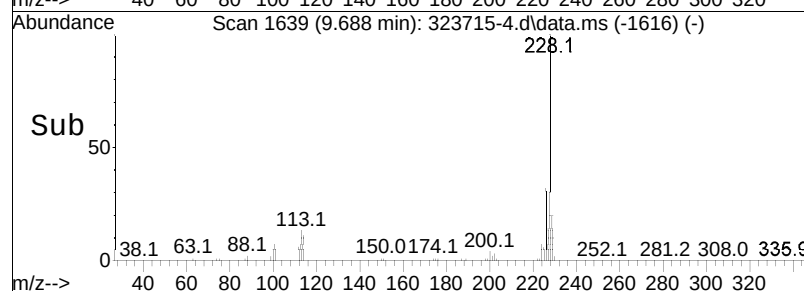
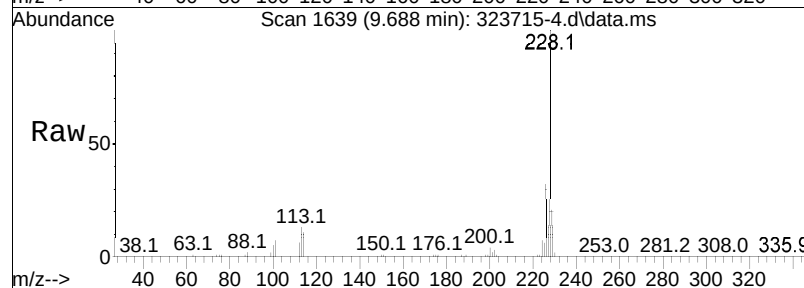
Tgt Ion: 228 Resp: 870682

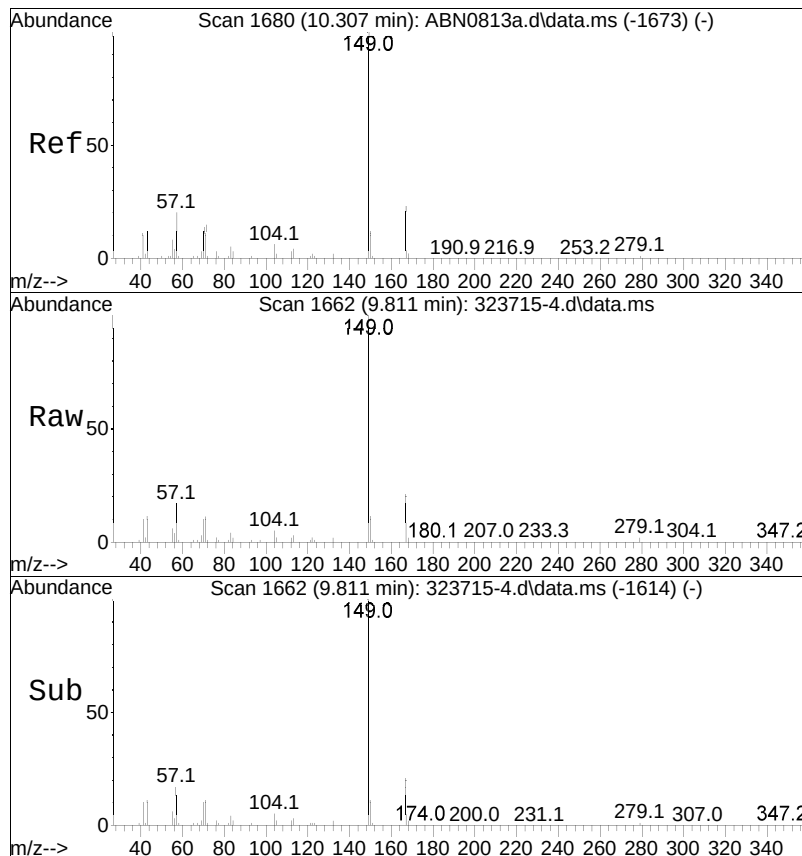
Ion Ratio Lower Upper

228 100

226 31.5 24.9 37.3

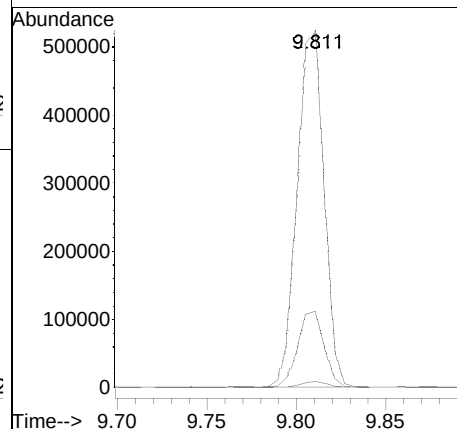
229 20.6 16.6 24.8

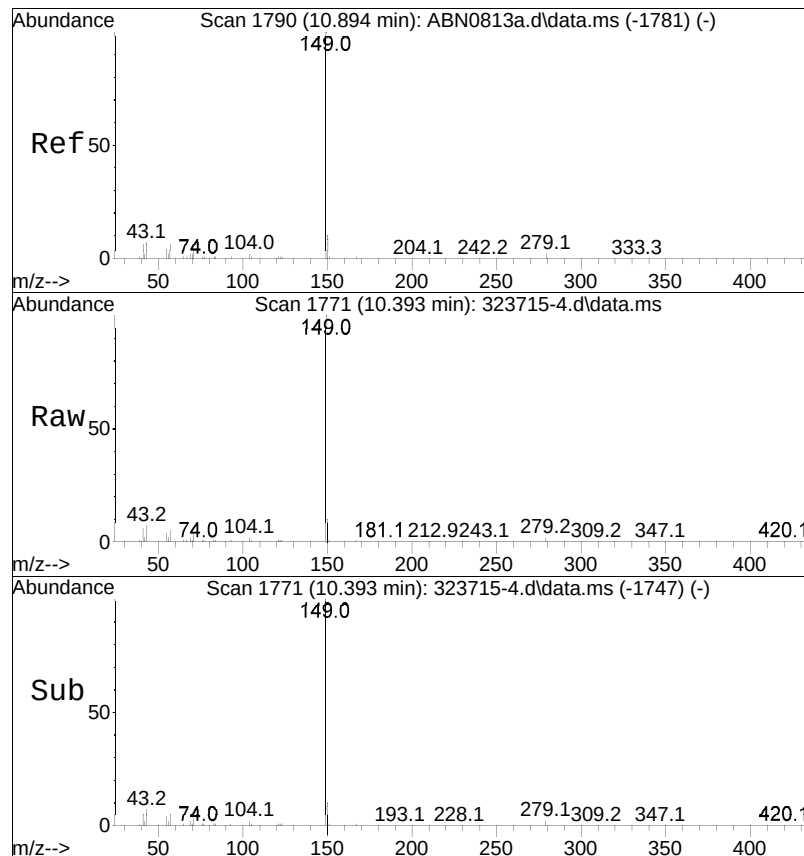




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 36.56 ug/ml  
 RT: 9.811 min Scan# 1662  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

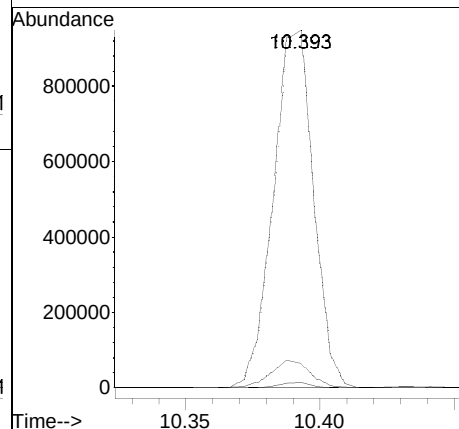
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 540492 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 21.1  | 21.2  | 31.8#  |
| 279       | 1.5   | 3.8   | 5.6#   |

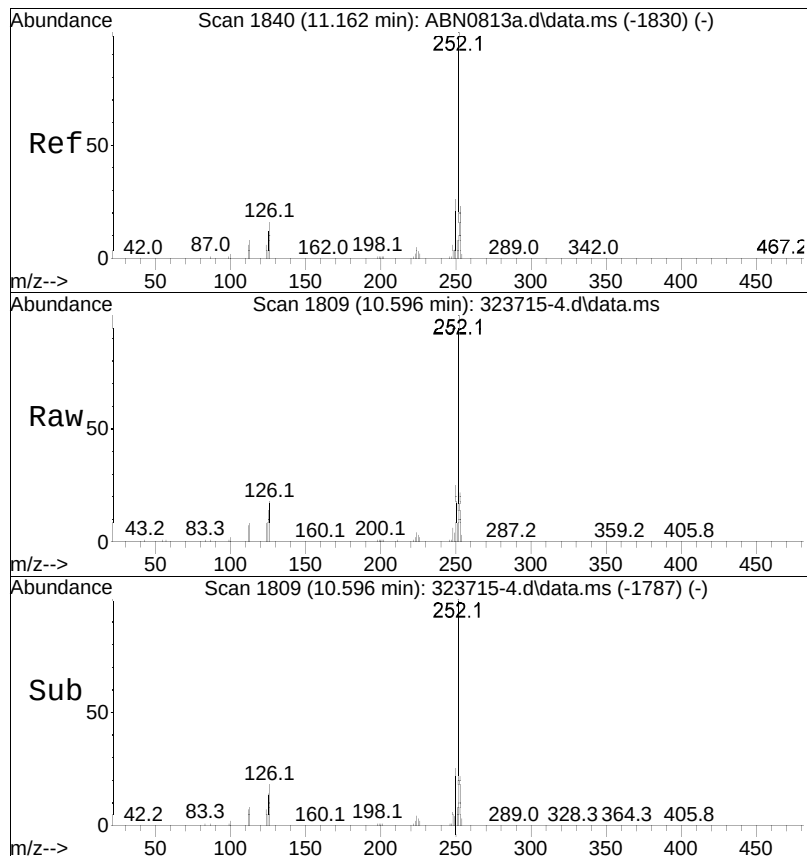




#109  
 Di-n-octylphthalate  
 Concen: 41.38 ug/ml  
 RT: 10.393 min Scan# 1771  
 Delta R.T. 0.006 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

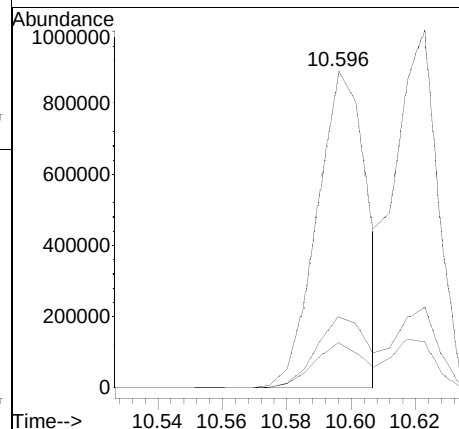
| Tgt Ion   | 149   | Resp  | 973528 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 43        | 7.2   | 8.0   | 12.0#  |
| 167       | 1.3   | 1.0   | 1.6    |

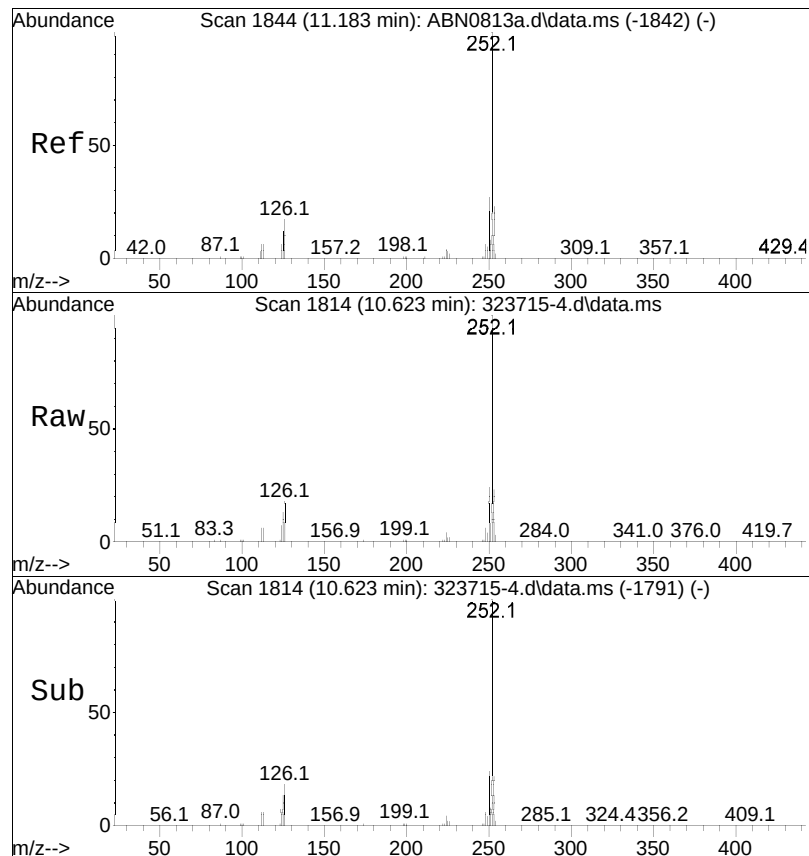




#110  
 Benzo(b)fluoranthene  
 Concen: 38.01 ug/ml  
 RT: 10.596 min Scan# 1809  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

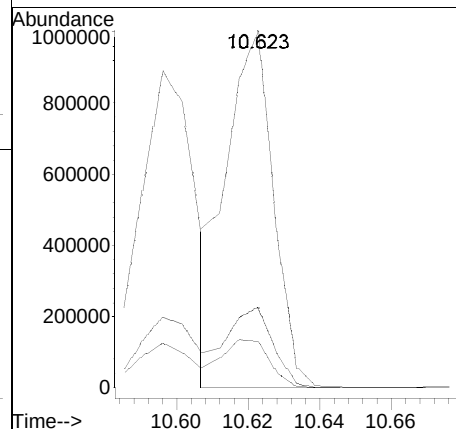
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 959742 |       |       |
| 125 | 14.3 | 12.6  |        | 18.8  |       |
| 253 | 22.8 | 18.2  |        | 27.2  |       |

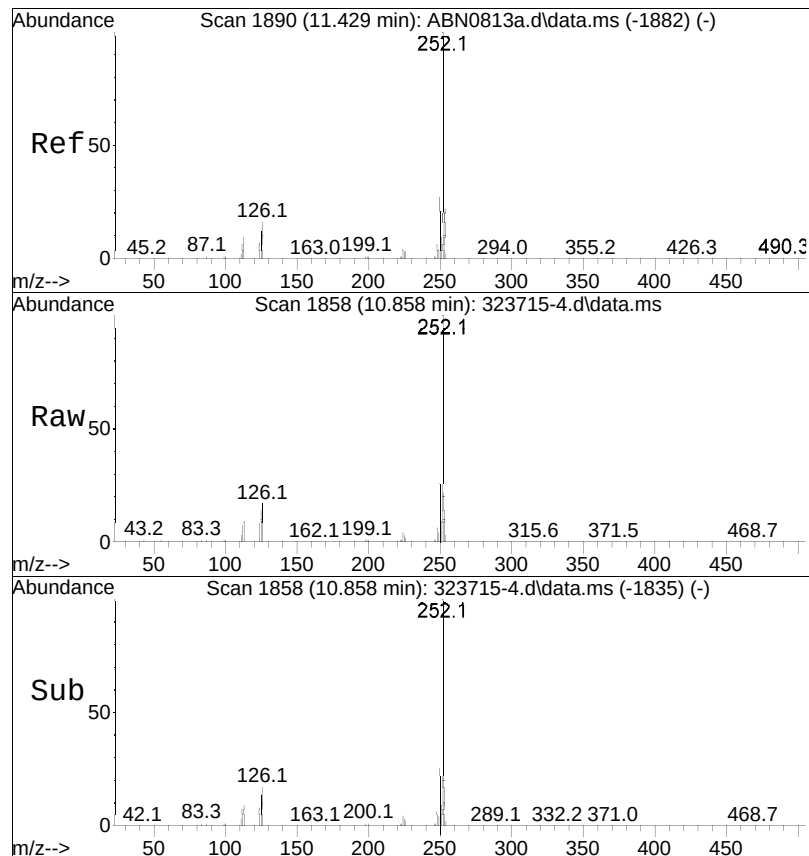




#111  
 Benzo(k)fluoranthene  
 Concen: 38.37 ug/ml  
 RT: 10.623 min Scan# 1814  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

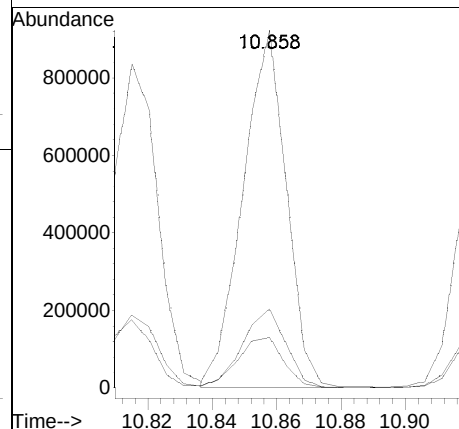
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 912745 |       |       |
| 125     | 13.8  |        | 12.1  | 18.1  |
| 253     | 22.5  |        | 18.1  | 27.1  |

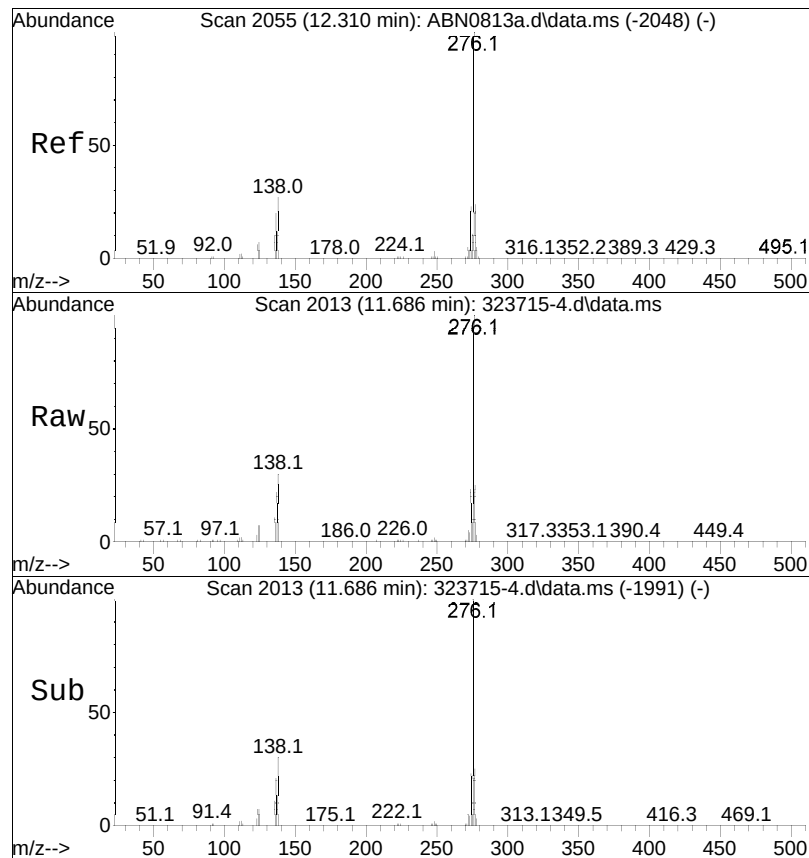




#112  
 Benzo(a)pyrene  
 Concen: 35.90 ug/ml  
 RT: 10.858 min Scan# 1858  
 Delta R.T. 0.000 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

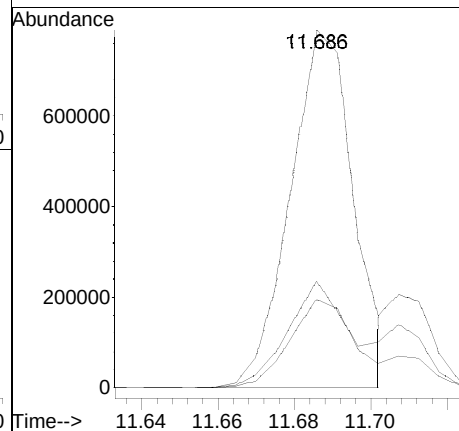
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 863509 |       |       |
| 125 | 14.9 | 13.3  |        | 19.9  |       |
| 253 | 22.0 | 18.2  |        | 27.4  |       |



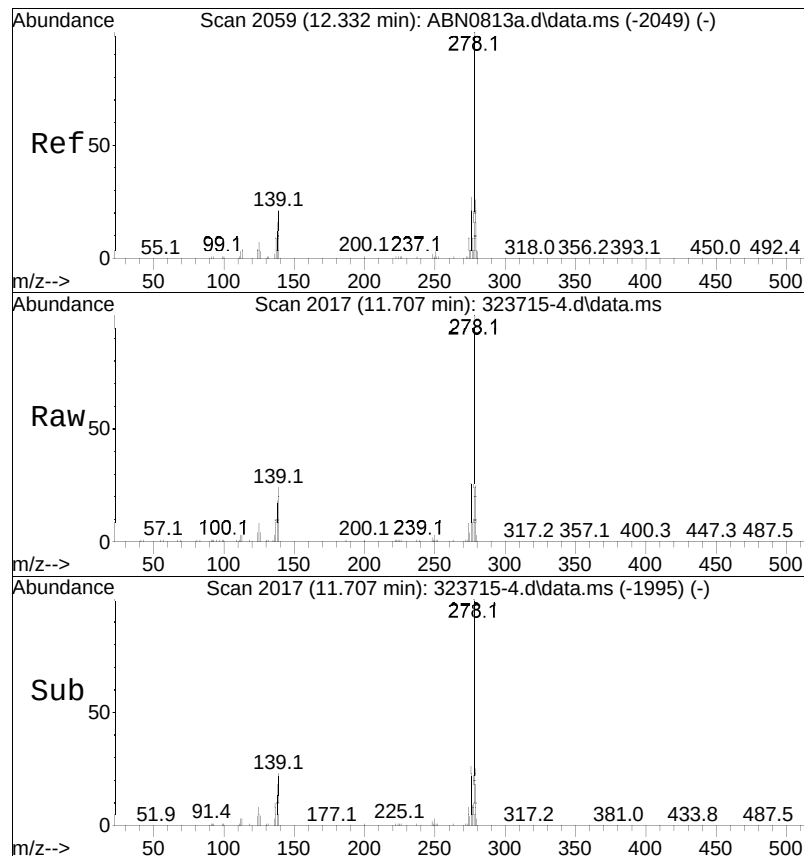


#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 42.20 ug/mL M3  
 RT: 11.686 min Scan# 2013  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 276 | 100  |       | 909048 |       |       |
| 138 | 30.5 |       |        | 26.7  | 40.1  |
| 277 | 30.9 |       |        | 20.4  | 30.6# |

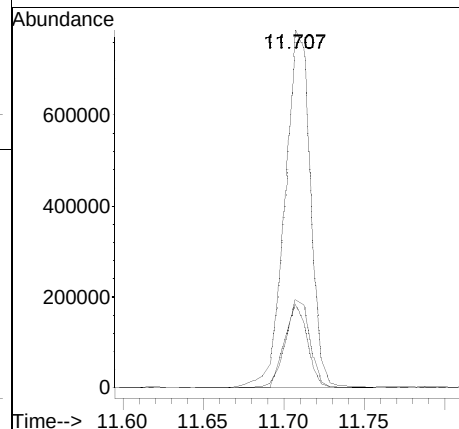


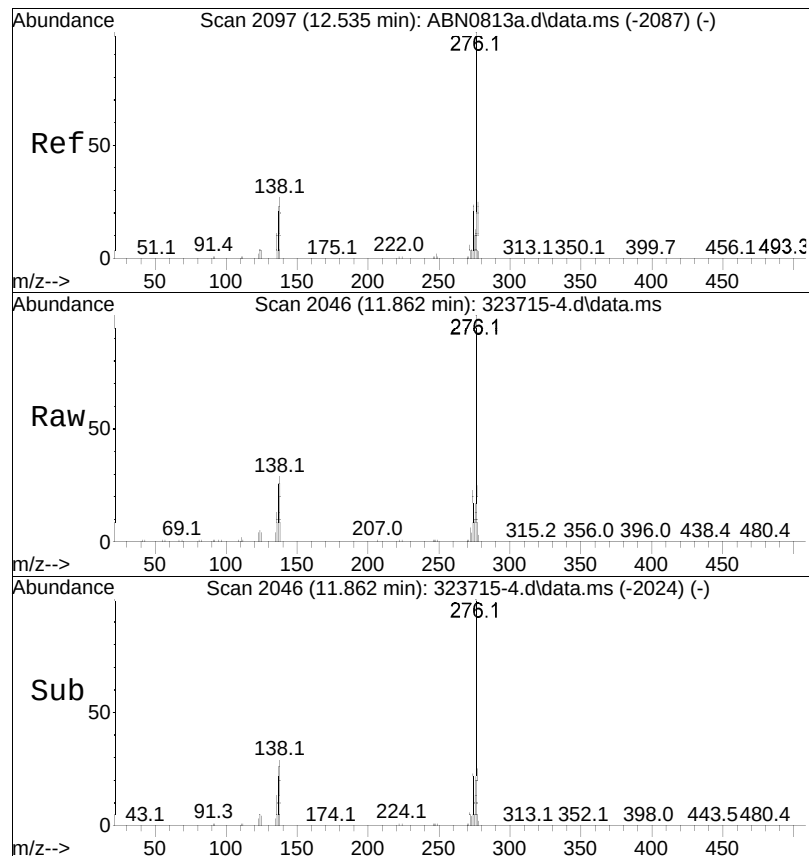




#115  
 Dibenzo(a,h)anthracene  
 Concen: 40.50 ug/ml  
 RT: 11.707 min Scan# 2017  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

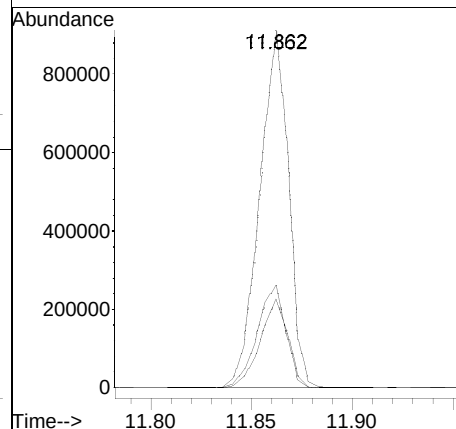
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:278 | Resp: | 857910 |
| Ion | Ratio   | Lower | Upper  |
| 278 | 100     |       |        |
| 139 | 21.4    | 18.2  | 27.4   |
| 279 | 23.8    | 19.3  | 28.9   |





#116  
 Benzo(ghi)perylene  
 Concen: 39.08 ug/ml  
 RT: 11.862 min Scan# 2046  
 Delta R.T. -0.005 min  
 Lab File: 323715-4.d  
 Acq: 24 Dec 2019 6:42 am

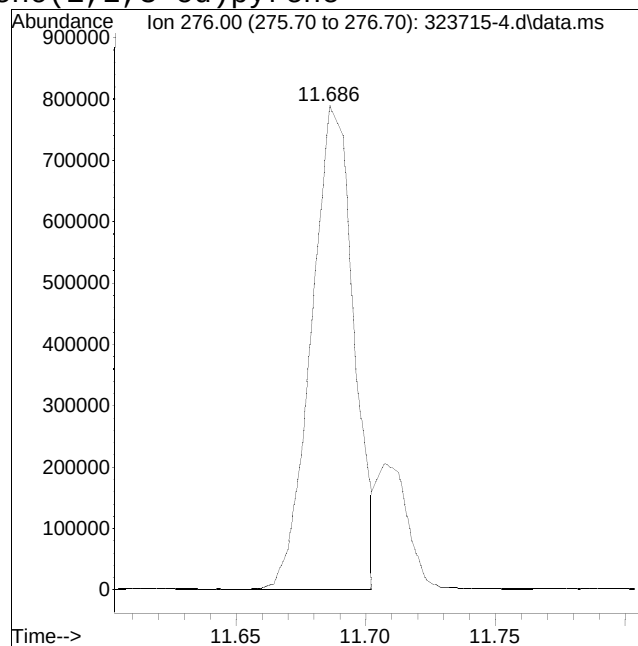
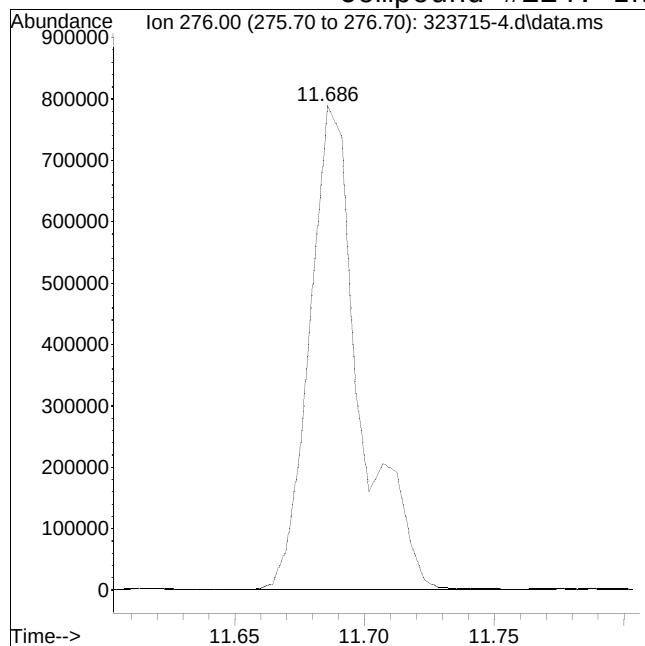
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:276 | Resp: | 900733 |
| Ion | Ratio   | Lower | Upper  |
| 276 | 100     |       |        |
| 138 | 28.5    | 26.1  | 39.1   |
| 277 | 24.3    | 19.4  | 29.0   |



# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 323715-4.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 6:42 am Instrument : GCMS5  
Sample : wg1323715-4,32,,ny,ask Quant Date : 12/26/2019 11:53 am

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1066494

Manual Peak Response = 909048 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-5.d  
 Acq On : 24 Dec 2019 7:04 am  
 Operator : gcms5:ek  
 Sample : wg1323715-5,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 26 11:56:15 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| Internal Standards            |                |      |            |          |       |          |
| 1) IS1_1,4-Dichlorobenzen...  | 3.587          | 152  | 136866     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 230273      |                |      | Recovery = | 59.44%   |       |          |
| 27) IS2_1,4-Dichlorobenzen... | 3.587          | 152  | 136866     | 40.000   | ug/ml | 0.00     |
| Standard Area 3 = 218924      |                |      | Recovery = | 62.52%   |       |          |
| 32) IS3_1,4-Dichlorobenzen... | 3.587          | 152  | 136866     | 40.000   | ug/ml | 0.00     |
| Standard Area 2 = 228352      |                |      | Recovery = | 59.94%   |       |          |
| 35) IS1_Naphthalene-d8        | 4.698          | 136  | 504857     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 837477      |                |      | Recovery = | 60.28%   |       |          |
| 55) IS2_Naphthalene-d8        | 4.698          | 136  | 504857     | 40.000   | ug/ml | 0.00     |
| Standard Area 3 = 792530      |                |      | Recovery = | 63.70%   |       |          |
| 63) IS1_Acenaphthene-d10      | 6.141          | 164  | 312670     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 496701      |                |      | Recovery = | 62.95%   |       |          |
| 83) IS2_Acenaphthene-d10      | 6.141          | 164  | 312670     | 40.000   | ug/ml | 0.00     |
| Standard Area 3 = 449723      |                |      | Recovery = | 69.53%   |       |          |
| 86) IS3_Acenaphthene-d10      | 6.141          | 164  | 312670     | 40.000   | ug/ml | 0.00     |
| Standard Area 2 = 468017      |                |      | Recovery = | 66.81%   |       |          |
| 88) IS1_Phenanthrene-d10      | 7.327          | 188  | 700728     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 1076593     |                |      | Recovery = | 65.09%   |       |          |
| 100) IS3_Phenanthrene-d10     | 7.327          | 188  | 700728     | 40.000   | ug/ml | 0.00     |
| Standard Area 2 = 989066      |                |      | Recovery = | 70.85%   |       |          |
| 104) IS1_Chrysene-d12         | 9.666          | 240  | 762402     | 40.000   | ug/ml | # 0.00   |
| Standard Area 1 = 1191633     |                |      | Recovery = | 63.98%   |       |          |
| 113) IS1_Perylene-d12         | 10.906         | 264  | 800644     | 40.000   | ug/ml | 0.00     |
| Standard Area 1 = 1381786     |                |      | Recovery = | 57.94%   |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 4) 2-Fluorophenol             | 2.310          | 112  | 182584     | 48.245   | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 96.49%   |       |          |
| 7) Phenol-d6                  | 3.320          | 99   | 227280     | 49.614   | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 99.23%   |       |          |
| 19) Nitrobenzene-d5           | 4.089          | 82   | 91620      | 22.316   | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 89.26%   |       |          |
| 46) 2-Fluorobiphenyl          | 5.617          | 172  | 243189     | 22.343   | ug/ml | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 89.37%   |       |          |
| 79) 2,4,6-Tribromophenol      | 6.776          | 330  | 125779     | 61.057   | ug/ml | 0.00     |
| Spiked Amount 50.000          | Range 15 - 110 |      | Recovery = | 122.11%# |       |          |

# Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-5.d  
 Acq On : 24 Dec 2019 7:04 am  
 Operator : gcms5:ek  
 Sample : wg1323715-5,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 26 11:56:15 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         | -----  | ----- | -----    | -----    | -----  | -----    |
| 96) 4-Terphenyl-d14           | 8.742  | 244   | 366345   | 23.507   | ug/ml  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 94.03%   |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 6) 2-Chlorophenol             | 3.395  | 128   | 180053   | 42.307   | ug/ml  | 95       |
| 8) Phenol                     | 3.331  | 94    | 199166   | 37.115   | ug/ml# | 57       |
| 9) Bis(2-chloroethyl)ether    | 3.379  | 93    | 124114   | 34.158   | ug/ml# | 68       |
| 14) Bis(2-chloroisopropyl)... | 3.881  | 45    | 181491   | 28.580   | ug/ml  | 95       |
| 15) 2-Methylphenol            | 3.886  | 108   | 150622   | 41.050   | ug/ml  | 98       |
| 16) Hexachloroethane          | 4.030  | 117   | 63631    | 32.234   | ug/ml# | 77       |
| 17) n-Nitrosodi-n-propylamine | 3.993  | 70    | 99281    | 35.194   | ug/ml# | 92       |
| 18) 3-Methylphenol/4-Methy... | 4.025  | 108   | 171235   | 43.068   | ug/ml  | 100      |
| 20) Nitrobenzene              | 4.105  | 77    | 148214   | 35.199   | ug/ml  | 95       |
| 21) Isophorone                | 4.330  | 82    | 265878   | 35.964   | ug/ml  | 97       |
| 22) 2-Nitrophenol             | 4.388  | 139   | 76025    | 34.411   | ug/ml  | 94       |
| 23) 2,4-Dimethylphenol        | 4.479  | 107   | 148109   | 36.082   | ug/ml  | 93       |
| 24) Bis(2-chloroethoxy)met... | 4.549  | 93    | 177394   | 35.038   | ug/ml# | 96       |
| 25) 2,4-Dichlorophenol        | 4.602  | 162   | 181829   | 44.567   | ug/ml  | 96       |
| 28) Benzaldehyde              | 3.170  | 105   | 122688   | 42.024   | ug/ml  | 85       |
| 29) Acetophenone              | 3.972  | 105   | 219483   | 39.806   | ug/ml# | 86       |
| 36) Naphthalene               | 4.714  | 128   | 498694   | 38.924   | ug/ml  | 99       |
| 38) 4-Chloroaniline           | 4.789  | 65    | 55305M3  | 35.079   | ug/ml  |          |
| 39) Hexachlorobutadiene       | 4.853  | 225   | 102277   | 36.797   | ug/ml  | 99       |
| 40) p-Chloro-m-cresol         | 5.232  | 107   | 147525   | 41.548   | ug/ml  | 90       |
| 41) 2-Methylnaphthalene       | 5.302  | 142   | 374913   | 40.184   | ug/ml  | 96       |
| 43) Hexachlorocyclopentadiene | 5.446  | 237   | 57617    | 16.499   | ug/ml  | 95       |
| 44) 2,4,6-Trichlorophenol     | 5.553  | 196   | 145274   | 46.193   | ug/ml  | 99       |
| 45) 2,4,5-Trichlorophenol     | 5.580  | 196   | 158341   | 47.506   | ug/ml  | 97       |
| 47) 2-Chloronaphthalene       | 5.692  | 162   | 367962   | 39.014   | ug/ml  | 98       |
| 48) 2-Nitroaniline            | 5.793  | 138   | 135048   | 48.007   | ug/ml  | 90       |
| 51) Dimethyl phthalate        | 5.970  | 163   | 420333   | 39.465   | ug/ml# | 98       |
| 52) Acenaphthylene            | 6.018  | 152   | 596925   | 41.077   | ug/ml  | 99       |
| 53) 2,6-Dinitrotoluene        | 6.002  | 165   | 94126    | 42.757   | ug/ml  | 89       |
| 60) Caprolactam               | 5.067  | 55    | 72286    | 40.375   | ug/ml# | 87       |
| 61) 1,2,4,5-Tetrachloroben... | 5.441  | 216   | 208456   | 42.202   | ug/ml  | 99       |
| 62) Biphenyl                  | 5.692  | 154   | 444883   | 41.700   | ug/ml  | 99       |
| 64) 3-Nitroaniline            | 6.125  | 138   | 108903   | 41.277   | ug/ml# | 94       |

## Quantitation Report (QT Reviewed)

Data Path : I:\8270\GCMS5\191223n\  
 Data File : 323715-5.d  
 Acq On : 24 Dec 2019 7:04 am  
 Operator : gcms5:ek  
 Sample : wg1323715-5,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 26 11:56:15 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

|      | Compound                  | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|------|---------------------------|--------|------|----------|--------|--------|----------|
| 65)  | Acenaphthene              | 6.162  | 154  | 350095   | 38.349 | ug/ml  | 95       |
| 66)  | 2,4-Dinitrophenol         | 6.210  | 184  | 1193     | 3.684  | ug/ml# | 70       |
| 67)  | Dibenzofuran              | 6.306  | 168  | 565977   | 41.058 | ug/ml# | 80       |
| 68)  | 2,4-Dinitrotoluene        | 6.322  | 165  | 126232   | 42.456 | ug/ml# | 73       |
| 69)  | 4-Nitrophenol             | 6.301  | 65   | 71280    | 37.833 | ug/ml# | 1        |
| 71)  | 2,3,4,6-Tetrachlorophenol | 6.424  | 232  | 155919   | 46.234 | ug/ml  | 98       |
| 72)  | Diethyl phthalate         | 6.547  | 149  | 423643   | 37.678 | ug/ml  | 99       |
| 73)  | Fluorene                  | 6.579  | 166  | 453509   | 41.436 | ug/ml  | 93       |
| 74)  | 4-Chlorophenyl phenyl ... | 6.605  | 204  | 213601   | 38.286 | ug/ml  | 94       |
| 75)  | 4-Nitroaniline            | 6.616  | 138  | 122849   | 43.248 | ug/ml  | 90       |
| 76)  | 4,6-Dinitro-o-cresol      | 6.648  | 198  | 8241     | 4.760  | ug/ml# | 89       |
| 77)  | NDPA/DPA                  | 6.701  | 169  | 377146   | 40.399 | ug/ml  | 95       |
| 80)  | 4-Bromophenyl phenyl e... | 6.990  | 248  | 154882   | 43.011 | ug/ml  | 94       |
| 81)  | Hexachlorobenzene         | 7.022  | 284  | 195542   | 45.763 | ug/ml  | 94       |
| 82)  | Pentachlorophenol         | 7.193  | 266  | 121310   | 44.410 | ug/ml  | 97       |
| 87)  | Atrazine                  | 7.161  | 200  | 106140   | 39.234 | ug/ml  | 91       |
| 89)  | Phenanthrene              | 7.343  | 178  | 742047   | 37.185 | ug/ml  | 100      |
| 90)  | Anthracene                | 7.385  | 178  | 752731   | 38.388 | ug/ml  | 100      |
| 91)  | Carbazole                 | 7.535  | 167  | 708187   | 39.255 | ug/ml  | 99       |
| 92)  | Di-n-butylphthalate       | 7.898  | 149  | 799546   | 40.601 | ug/ml# | 99       |
| 93)  | Fluoranthene              | 8.358  | 202  | 942929   | 40.531 | ug/ml  | 97       |
| 95)  | Pyrene                    | 8.550  | 202  | 979272   | 38.983 | ug/ml  | 99       |
| 97)  | Butyl benzyl phthalate    | 9.234  | 149  | 388434   | 41.727 | ug/ml# | 89       |
| 105) | Benzo(a)anthracene        | 9.656  | 228  | 944378   | 39.840 | ug/ml  | 100      |
| 106) | 3,3'-Dichlorobenzidine    | 9.672  | 252  | 300776   | 33.696 | ug/ml  | 97       |
| 107) | Chrysene                  | 9.688  | 228  | 896565   | 35.457 | ug/ml  | 99       |
| 108) | Bis(2-ethylhexyl)phtha... | 9.811  | 149  | 573342   | 37.609 | ug/ml# | 90       |
| 109) | Di-n-octylphthalate       | 10.393 | 149  | 1016556  | 41.924 | ug/ml# | 93       |
| 110) | Benzo(b)fluoranthene      | 10.601 | 252  | 1004617  | 38.610 | ug/ml# | 96       |
| 111) | Benzo(k)fluoranthene      | 10.623 | 252  | 798616   | 32.574 | ug/ml  | 99       |
| 112) | Benzo(a)pyrene            | 10.858 | 252  | 834111   | 33.649 | ug/ml  | 97       |
| 114) | Indeno(1,2,3-cd)pyrene    | 11.691 | 276  | 853183M3 | 40.480 | ug/mL  |          |
| 115) | Dibenzo(a,h)anthracene    | 11.712 | 278  | 816526   | 39.400 | ug/ml  | 98       |
| 116) | Benzo(ghi)perylene        | 11.862 | 276  | 858041   | 38.055 | ug/ml  | 97       |

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

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 Acq On : 24 Dec 2019 7:04 am  
 Operator : gcms5:ek  
 Sample : wg1323715-5,32,,ny,ask  
 Misc : wg1324236,wg1323715,ical15860  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 26 11:56:15 2019  
 Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
 Quant Title : Semivolatiles by GC/MS by modified 8270  
 QLast Update : Thu Dec 26 11:52:31 2019  
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\GCMS5\191223n\ABN1223n.d  
 : 2 - I:\8270\GCMS5\191223n\ADP1223n.d  
 : 3 - I:\8270\GCMS5\191223n\AP91223n.d  
 Sub List : 8270TCL\_REV2 - TCL/CT/MA

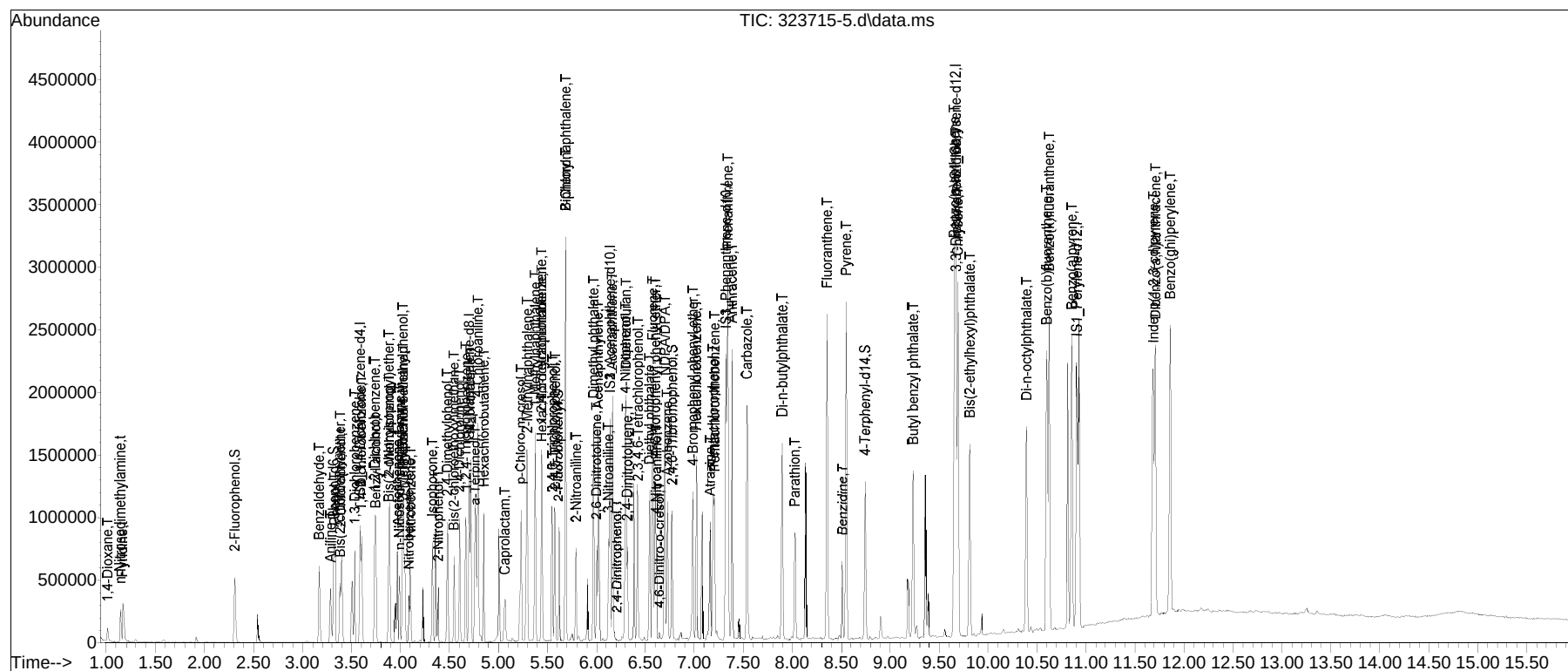
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

Quantitation Report (QT Reviewed)

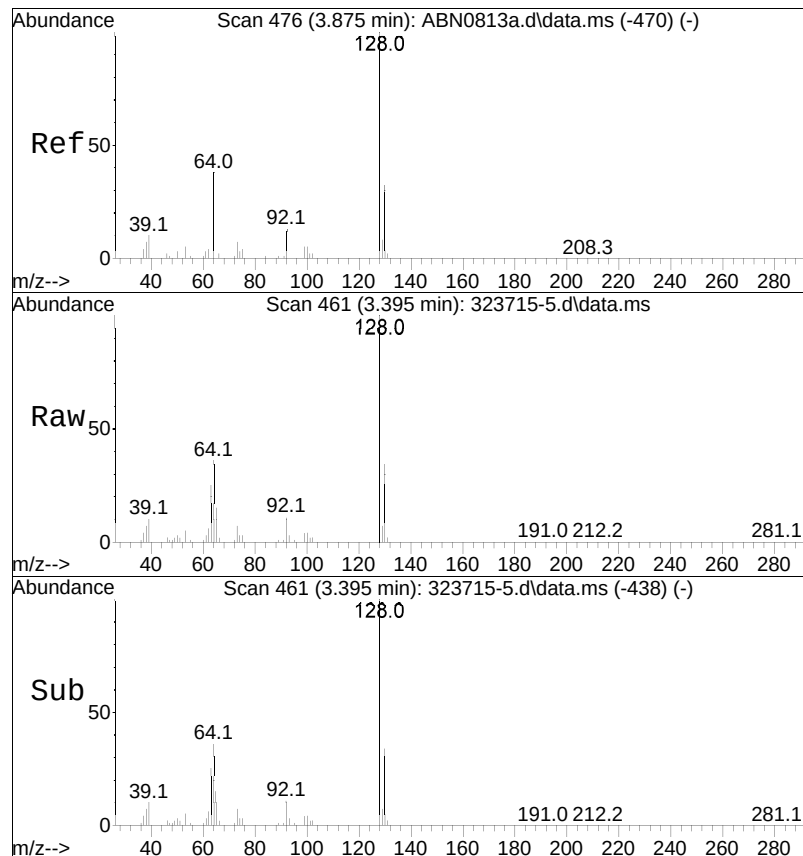
Data Path : I:\8270\GCMS5\191223n\  
Data File : 323715-5.d  
Acq On : 24 Dec 2019 7:04 am  
Operator : gcms5:ek  
Sample : wg1323715-5,32,,ny,ask  
Misc : wg1324236,wg1323715,ical15860  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 26 11:56:15 2019  
Quant Method : I:\8270\GCMS5\191223n\FS190609gcms5.m  
Quant Title : Semivolatiles by GC/MS by modified 8270  
QLast Update : Thu Dec 26 11:52:31 2019  
Response via : Initial Calibration

Sub List : 8270TCL\_REV2 - TCL/CT/MAn\AP91223n.d•

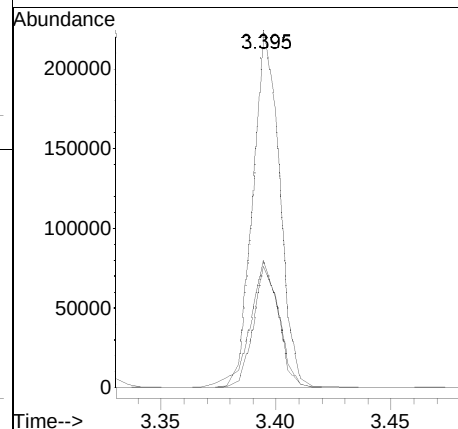


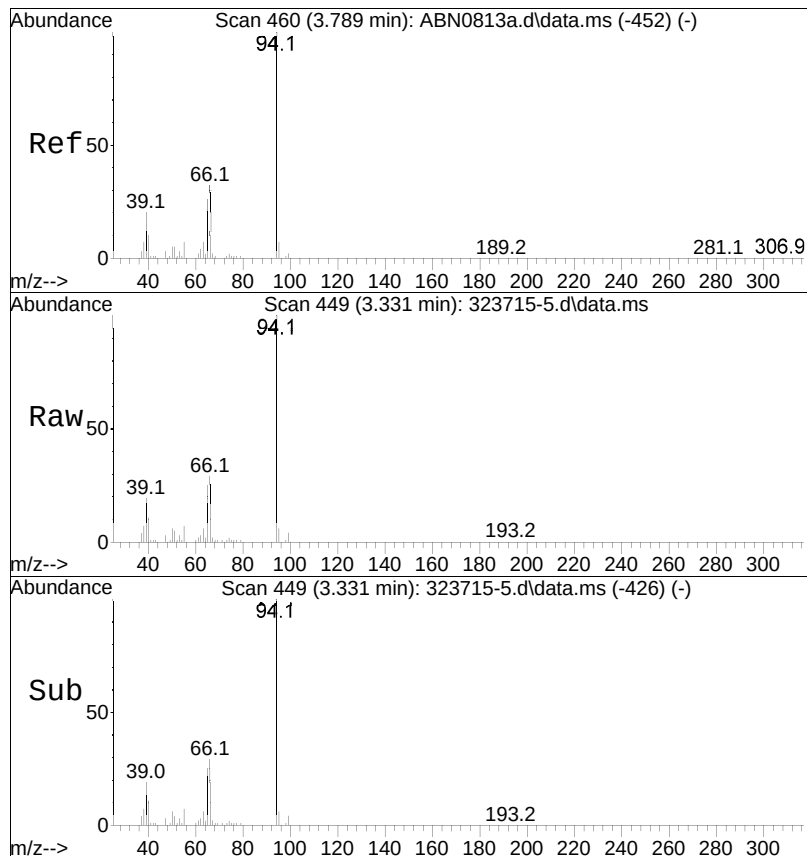




#6  
 2-Chlorophenol  
 Concen: 42.31 ug/ml  
 RT: 3.395 min Scan# 461  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

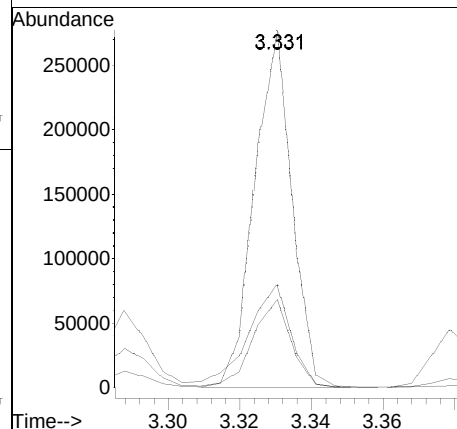
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 180053 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 64  | 37.4    | 33.5  | 50.3   |
| 130 | 33.3    | 25.9  | 38.9   |

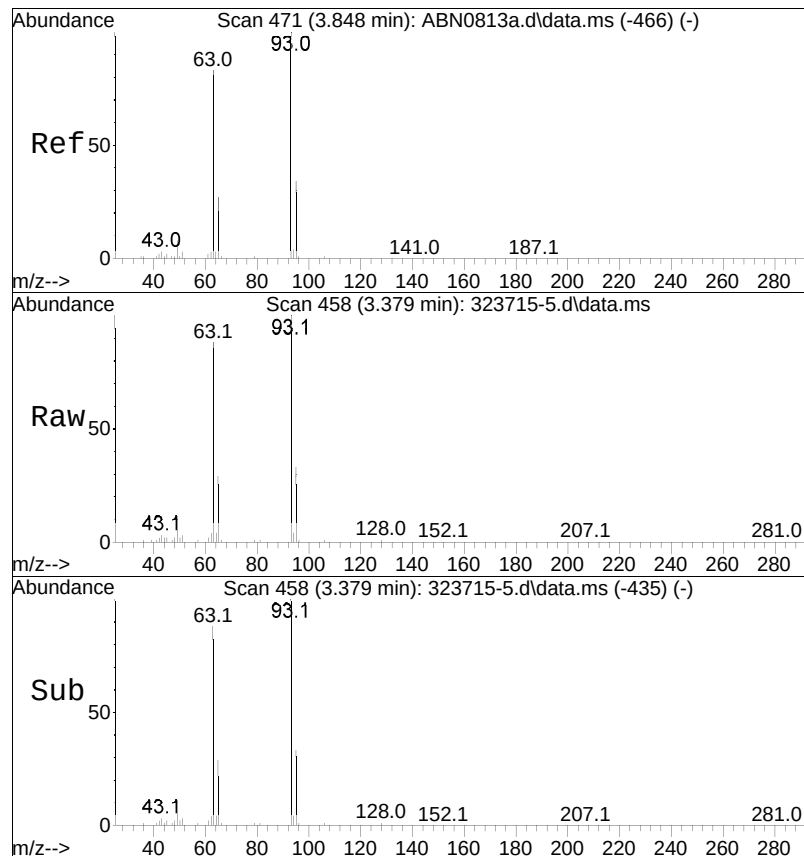




#8  
 Phenol  
 Concen: 37.12 ug/ml  
 RT: 3.331 min Scan# 449  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

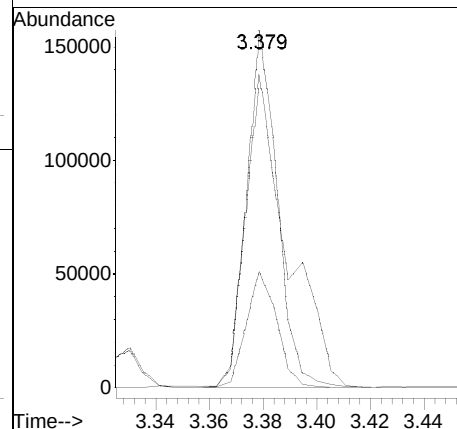
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 199166 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 25.6  | 38.8  | 58.2#  |
| 66        | 33.8  | 60.3  | 90.5#  |

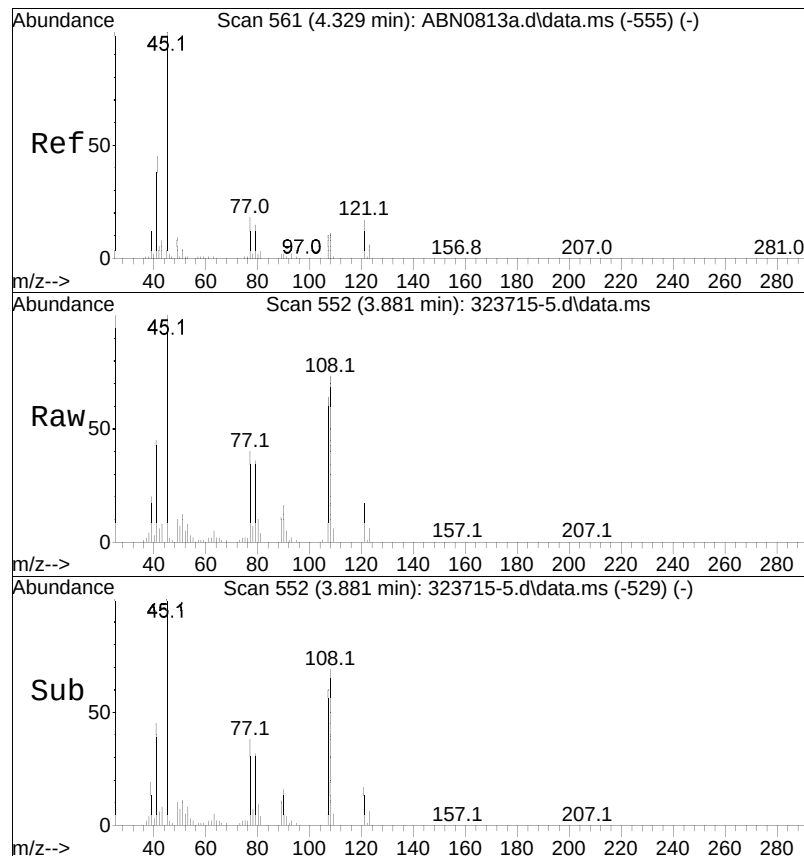




#9  
 Bis(2-chloroethyl)ether  
 Concen: 34.16 ug/ml  
 RT: 3.379 min Scan# 458  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

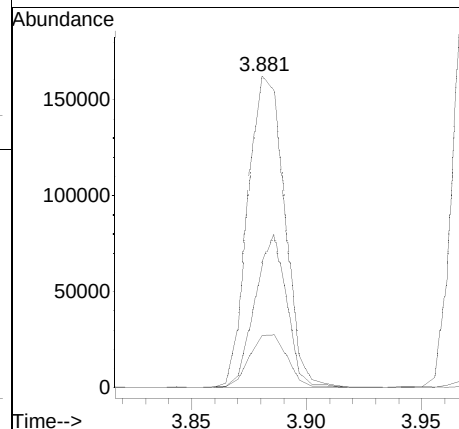
| Tgt | Ion   | Ratio | Lower | Upper |
|-----|-------|-------|-------|-------|
| 93  | 100   |       |       |       |
| 63  | 117.6 | 63.0  | 94.6# |       |
| 95  | 32.4  | 26.3  | 39.5  |       |

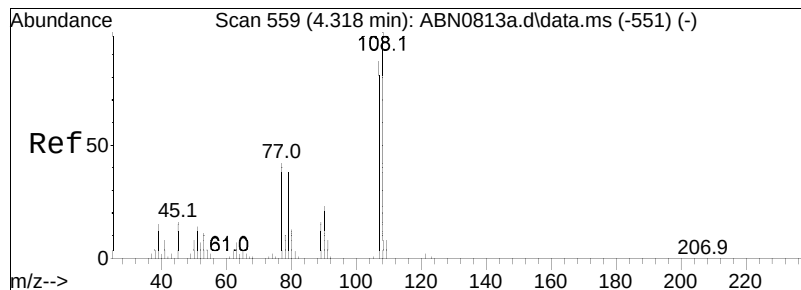




#14  
 Bis(2-chloroisopropyl)ether  
 Concen: 28.58 ug/ml  
 RT: 3.881 min Scan# 552  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

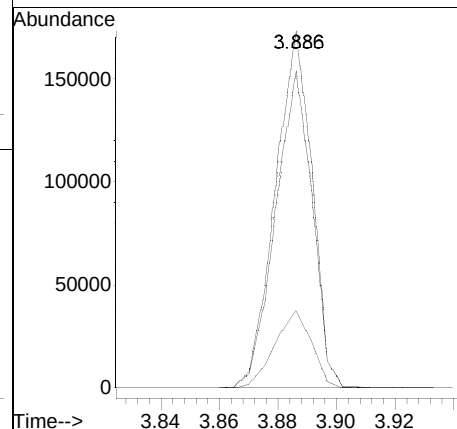
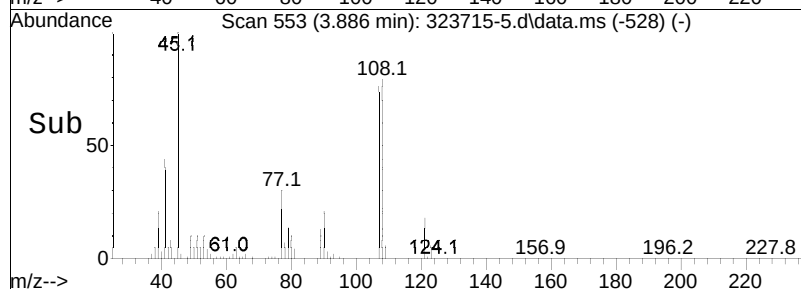
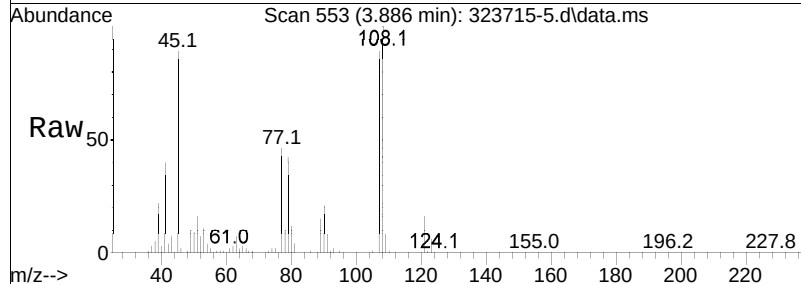
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 121     | 17.2  | 16.0  | 24.0  |
| 77      | 42.4  | 32.1  | 48.1  |

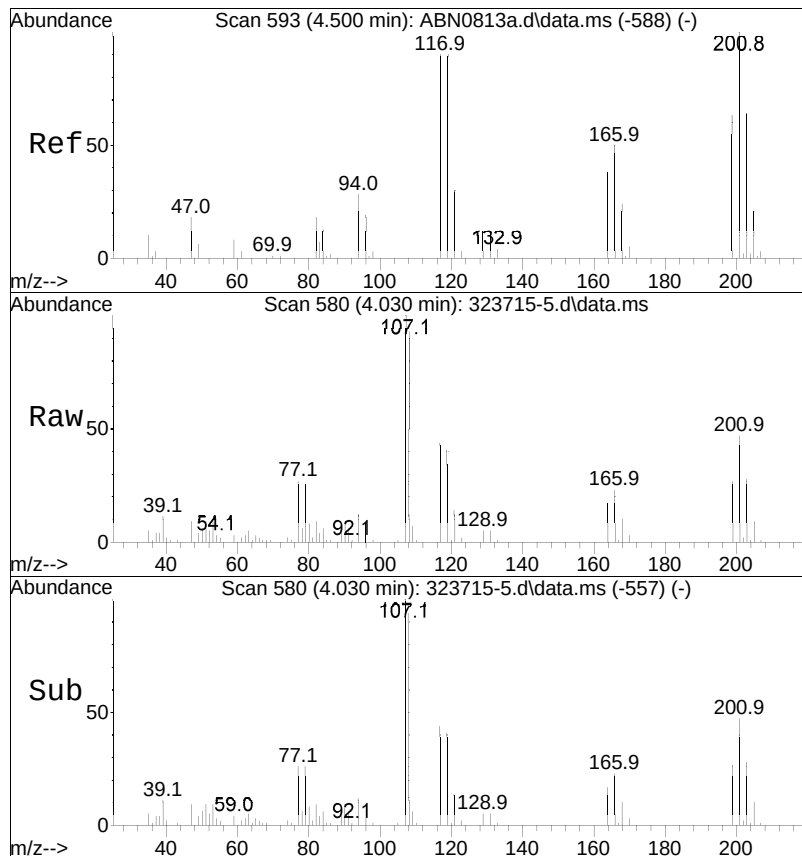




#15  
 2-Methylphenol  
 Concen: 41.05 ug/ml  
 RT: 3.886 min Scan# 553  
 Delta R.T. 0.011 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

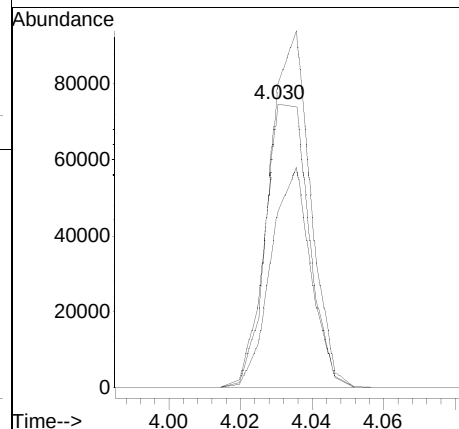
| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 108 | 100  |       |       |       |
| 107 | 88.9 | 70.3  | 105.5 |       |
| 90  | 21.8 | 18.7  | 28.1  |       |

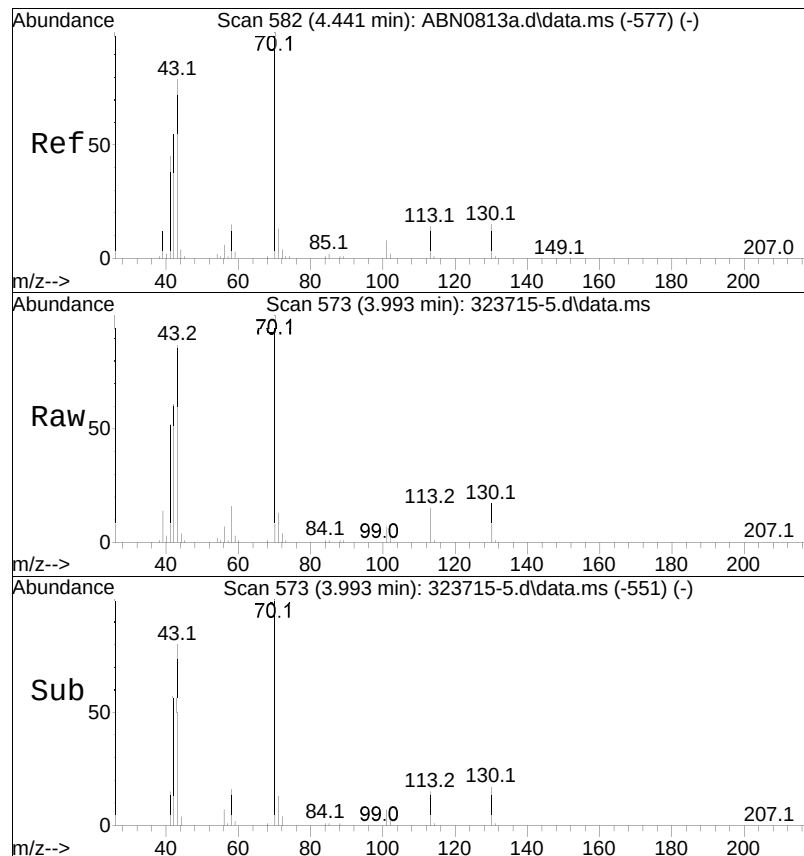




#16  
 Hexachloroethane  
 Concen: 32.23 ug/ml  
 RT: 4.030 min Scan# 580  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

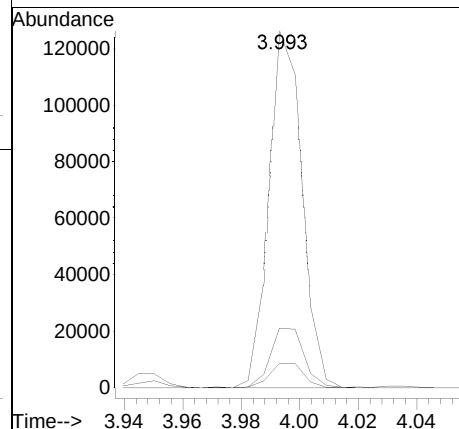
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 63631  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 201       | 116.5 | 73.4  | 110.0# |
| 199       | 71.0  | 45.9  | 68.9#  |

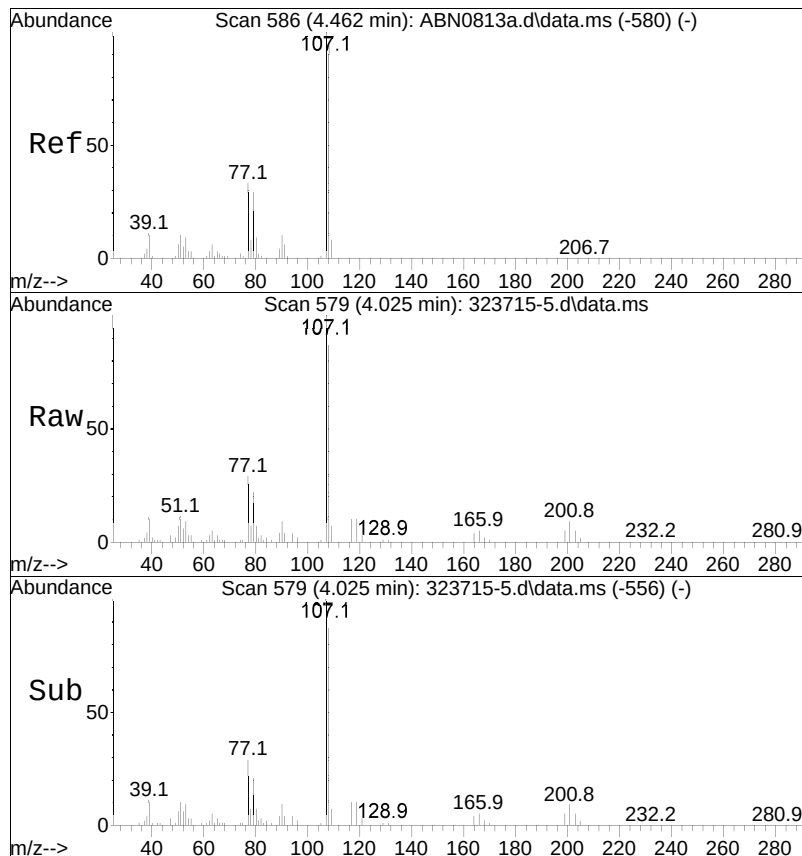




#17  
 n-Nitrosodi-n-propylamine  
 Concen: 35.19 ug/ml  
 RT: 3.993 min Scan# 573  
 Delta R.T. -0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

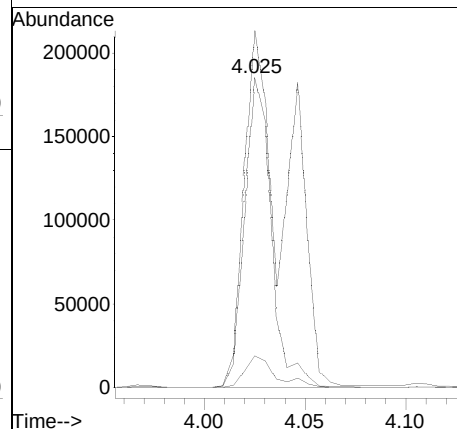
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 70    | Resp: | 99281 |
| Ion Ratio | Lower | Upper |       |
| 70        | 100   |       |       |
| 130       | 17.1  | 17.1  | 25.7# |
| 101       | 7.2   | 7.0   | 10.4  |



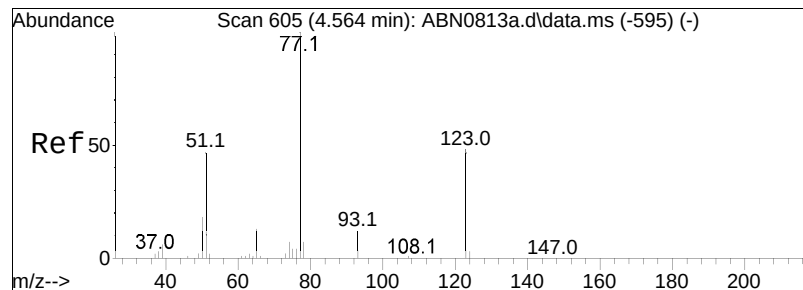


#18  
 3-Methylphenol/4-Methylphenol  
 Concen: 43.07 ug/ml  
 RT: 4.025 min Scan# 579  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 108     | 100   | 171235 |       |       |
| 107     | 109.9 | 88.2   | 132.2 |       |
| 90      | 11.4  | 8.5    | 12.7  |       |







#20

Nitrobenzene

Concen: 35.20 ug/ml

RT: 4.105 min Scan# 594

Delta R.T. 0.000 min

Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

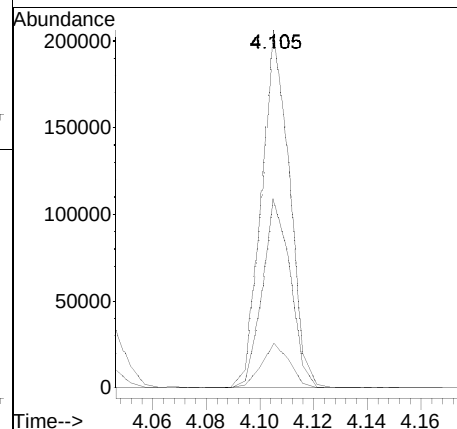
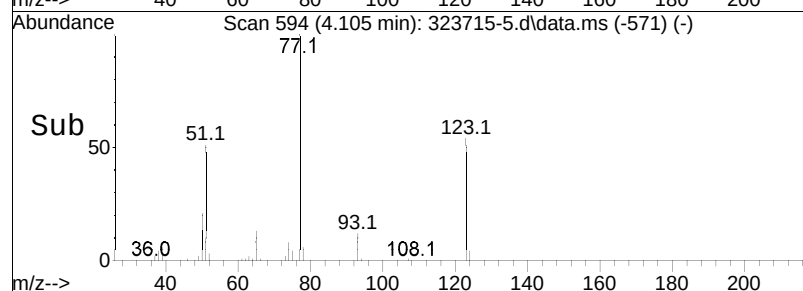
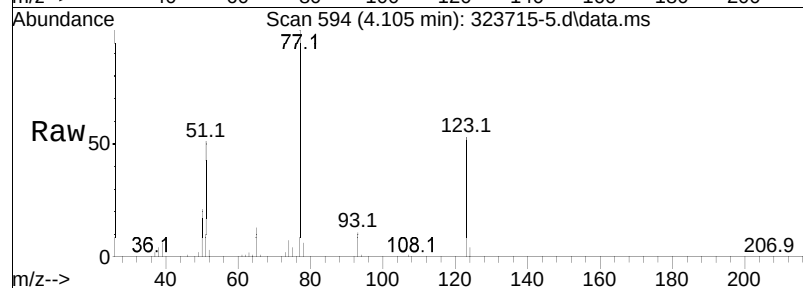
Tgt Ion: 77 Resp: 148214

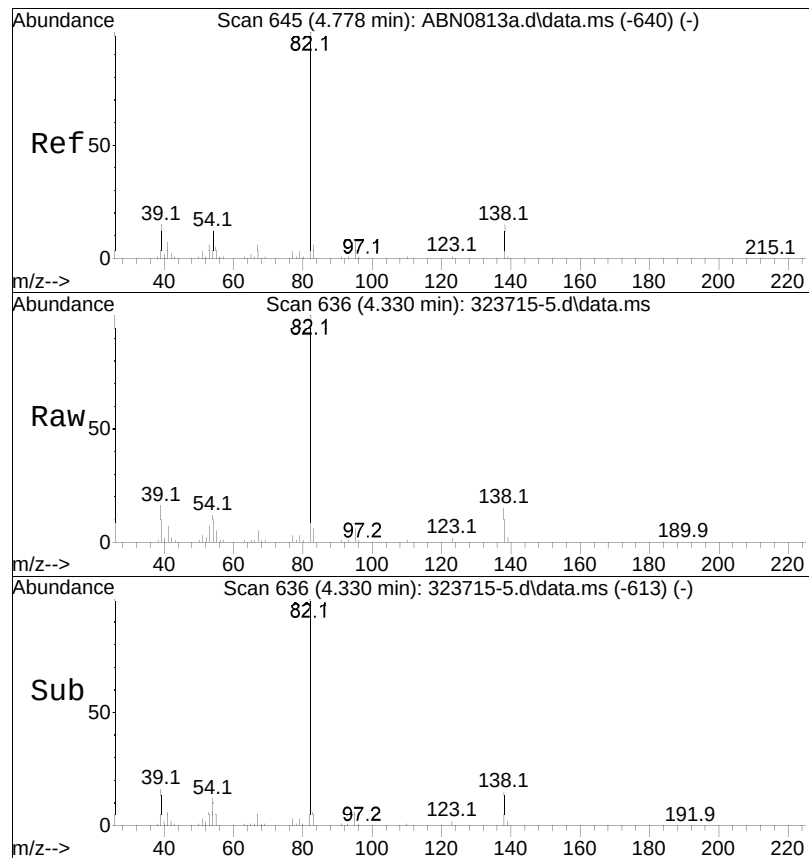
Ion Ratio Lower Upper

77 100

123 52.9 39.5 59.3

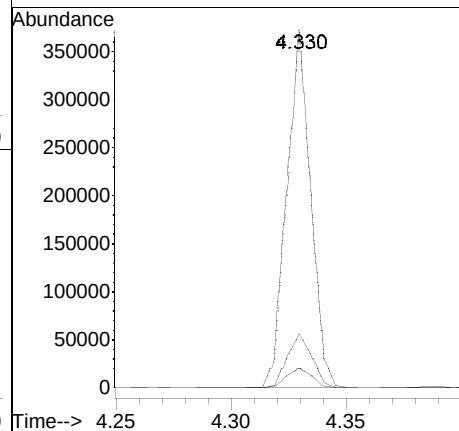
65 12.7 11.0 16.6

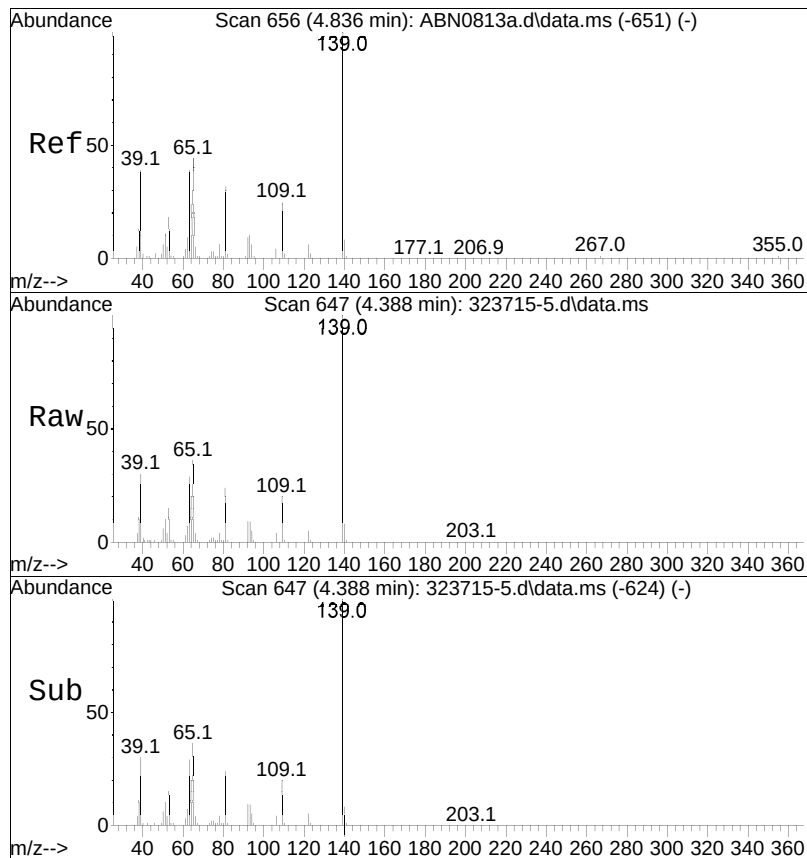




#21  
 Isophorone  
 Concen: 35.96 ug/ml  
 RT: 4.330 min Scan# 636  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

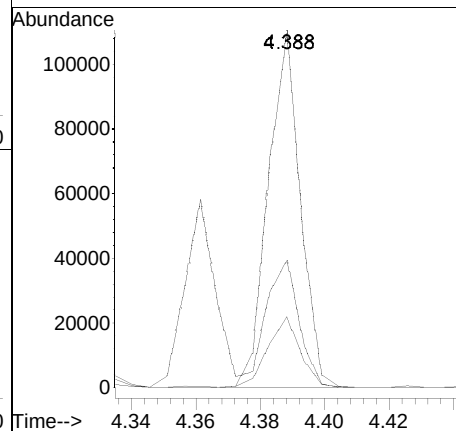
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 265878 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 138       | 15.8  | 13.9  | 20.9   |
| 95        | 6.2   | 5.1   | 7.7    |

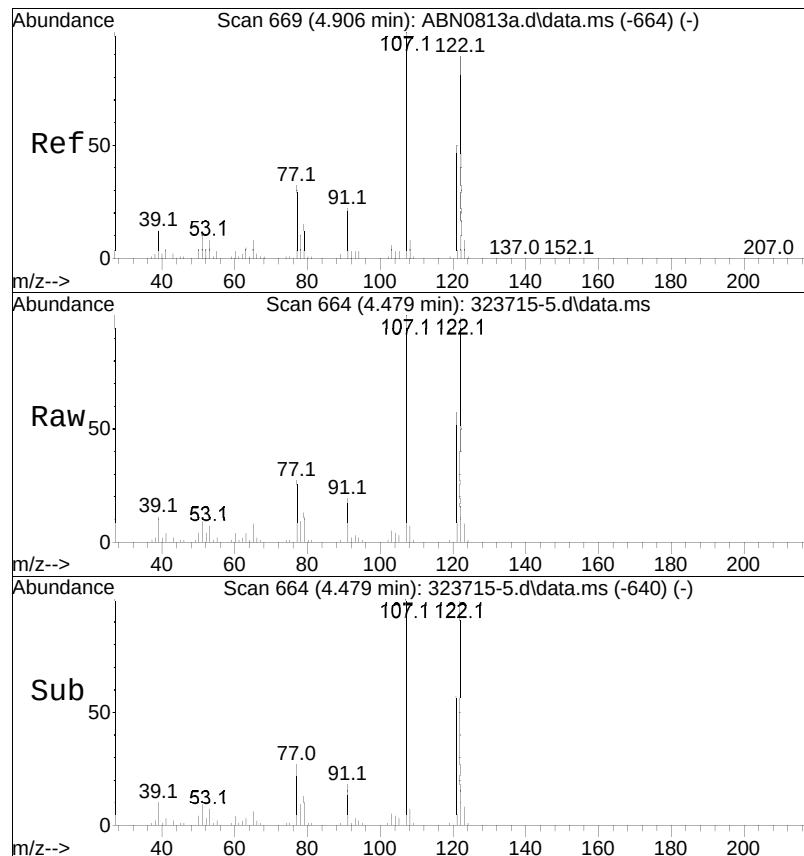




#22  
 2-Nitrophenol  
 Concen: 34.41 ug/ml  
 RT: 4.388 min Scan# 647  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

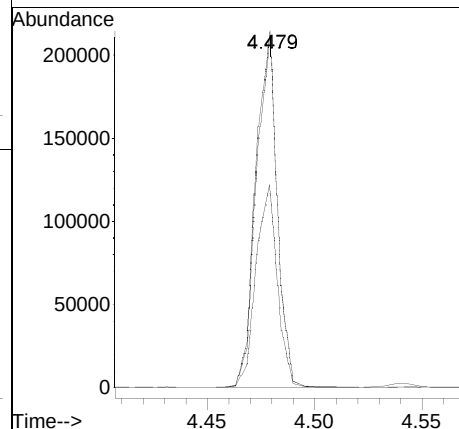
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 139     | 100   | 76025 |       |       |
| 109     | 20.1  |       | 17.2  | 25.8  |
| 65      | 37.3  |       | 33.8  | 50.6  |

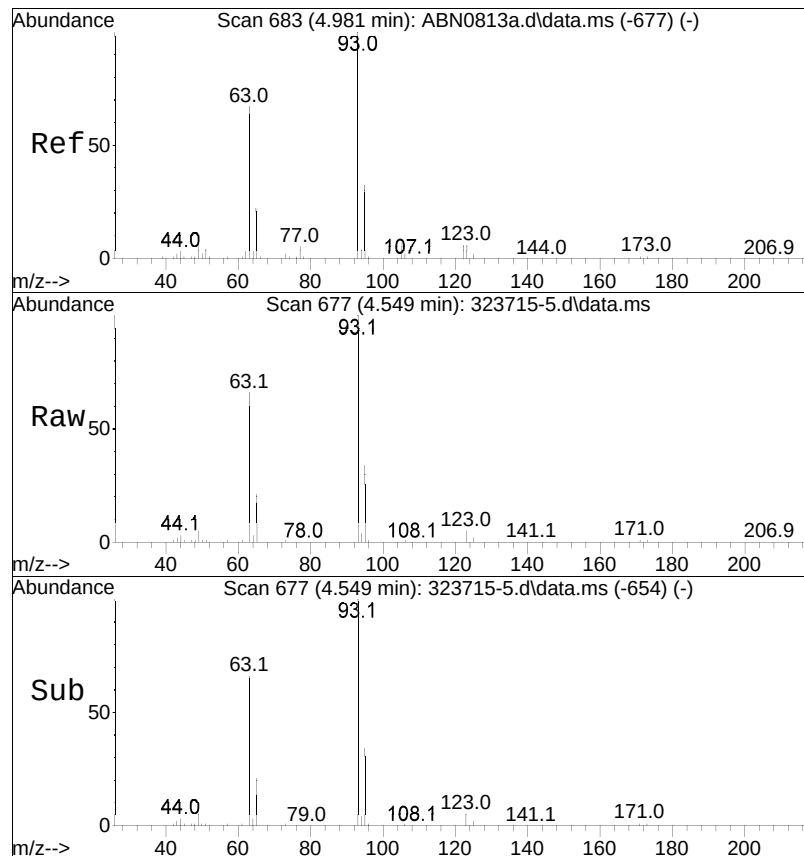




#23  
 2,4-Dimethylphenol  
 Concen: 36.08 ug/ml  
 RT: 4.479 min Scan# 664  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

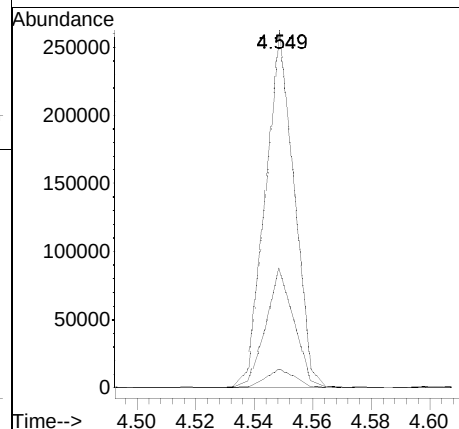
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 148109 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 56.7  | 41.2  | 61.8   |
| 122       | 96.4  | 72.5  | 108.7  |

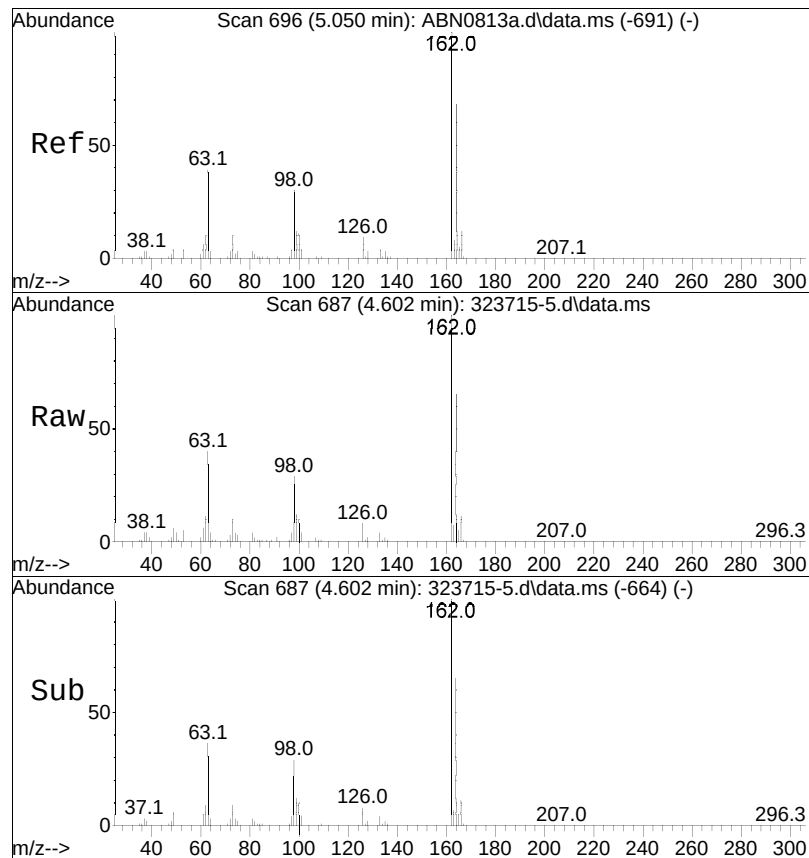




#24  
 Bis(2-chloroethoxy)methane  
 Concen: 35.04 ug/ml  
 RT: 4.549 min Scan# 677  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

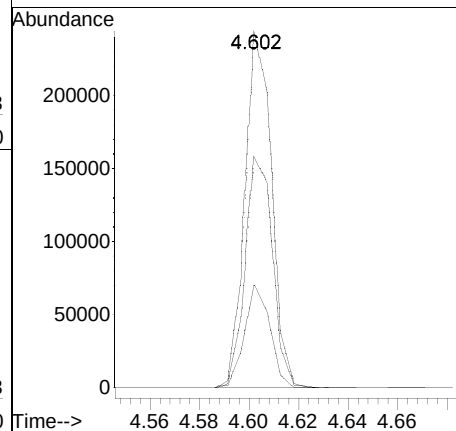
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 177394 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 33.4  | 26.8  | 40.2   |
| 123       | 5.3   | 8.7   | 13.1#  |

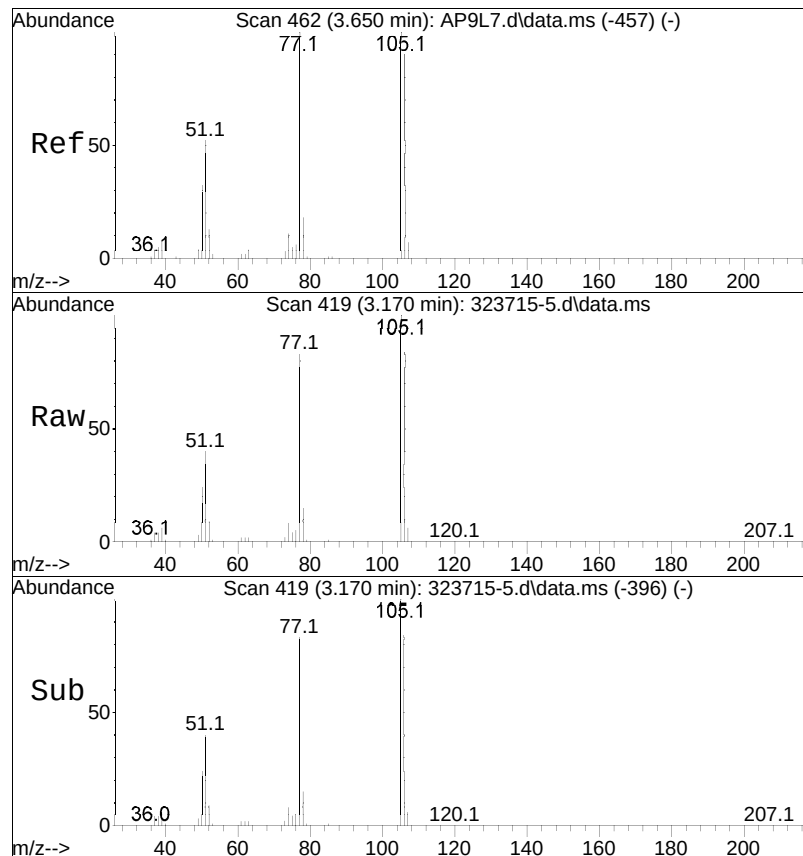




#25  
 2,4-Dichlorophenol  
 Concen: 44.57 ug/ml  
 RT: 4.602 min Scan# 687  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

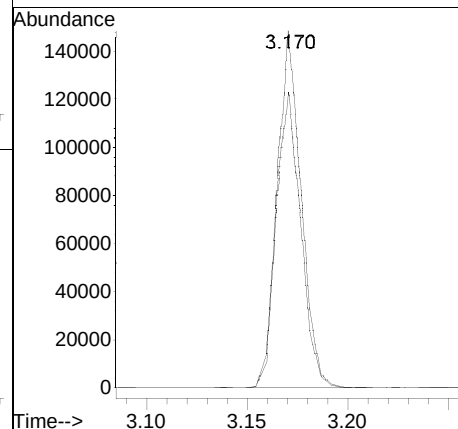
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 181829 |       |       |
| 164     | 66.8  |        | 51.8  | 77.8  |
| 98      | 27.8  |        | 25.0  | 37.4  |

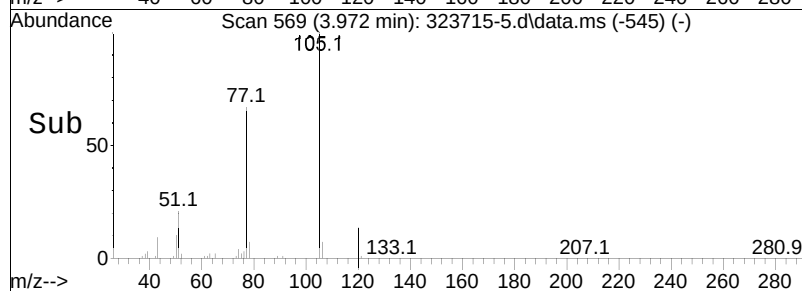
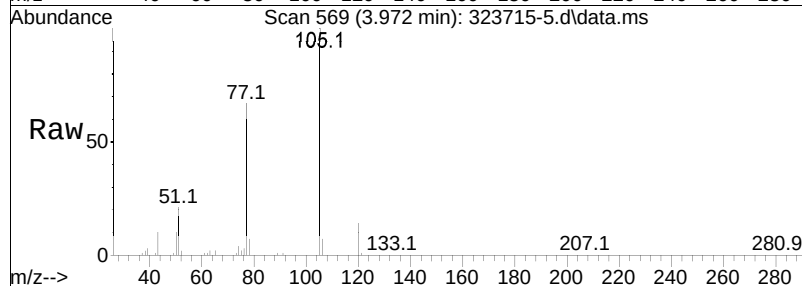
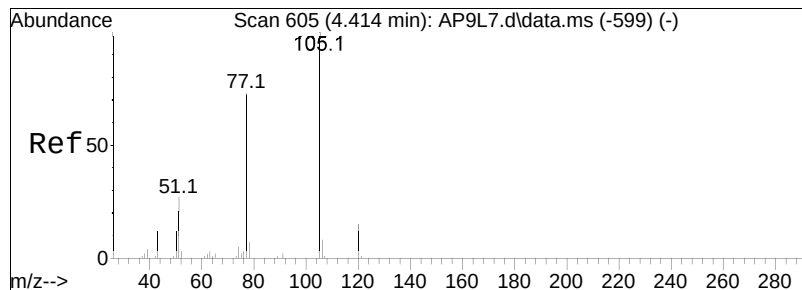




#28  
 Benzaldehyde  
 Concen: 42.02 ug/ml  
 RT: 3.170 min Scan# 419  
 Delta R.T. -0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 77  | 84.6 | 79.3  | 118.9 |       |





#29

Acetophenone

Concen: 39.81 ug/ml

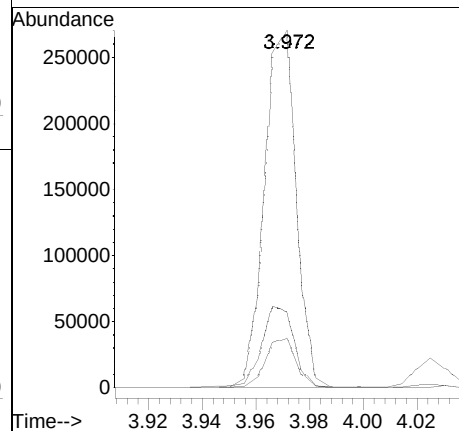
RT: 3.972 min Scan# 569

Delta R.T. 0.005 min

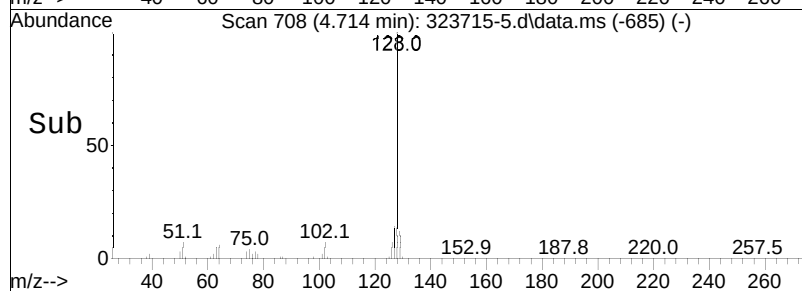
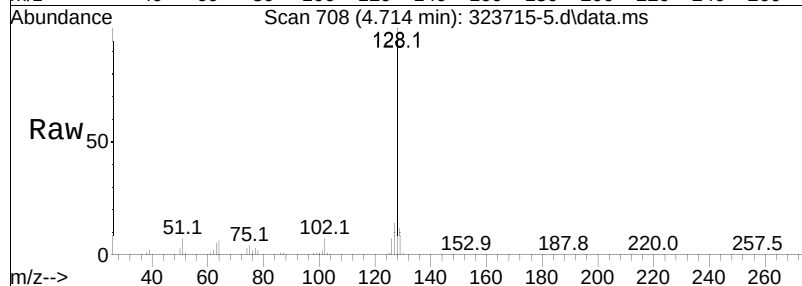
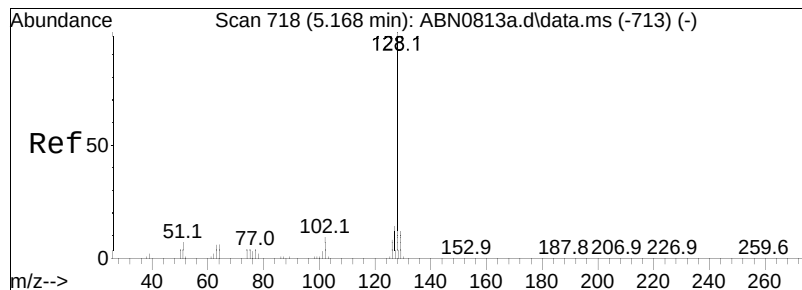
Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:105 | Resp: | 219483 |
| Ion | Ratio   | Lower | Upper  |
| 105 | 100     |       |        |
| 120 | 13.3    | 17.4  | 26.2#  |
| 51  | 23.5    | 23.8  | 35.6#  |

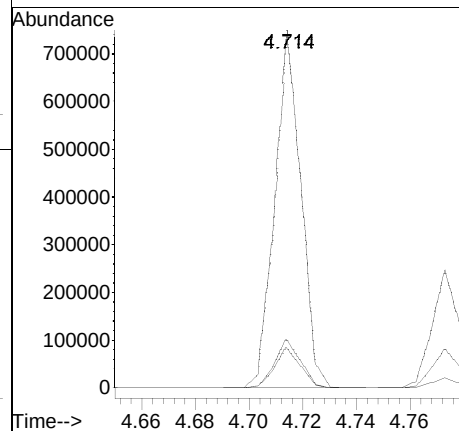


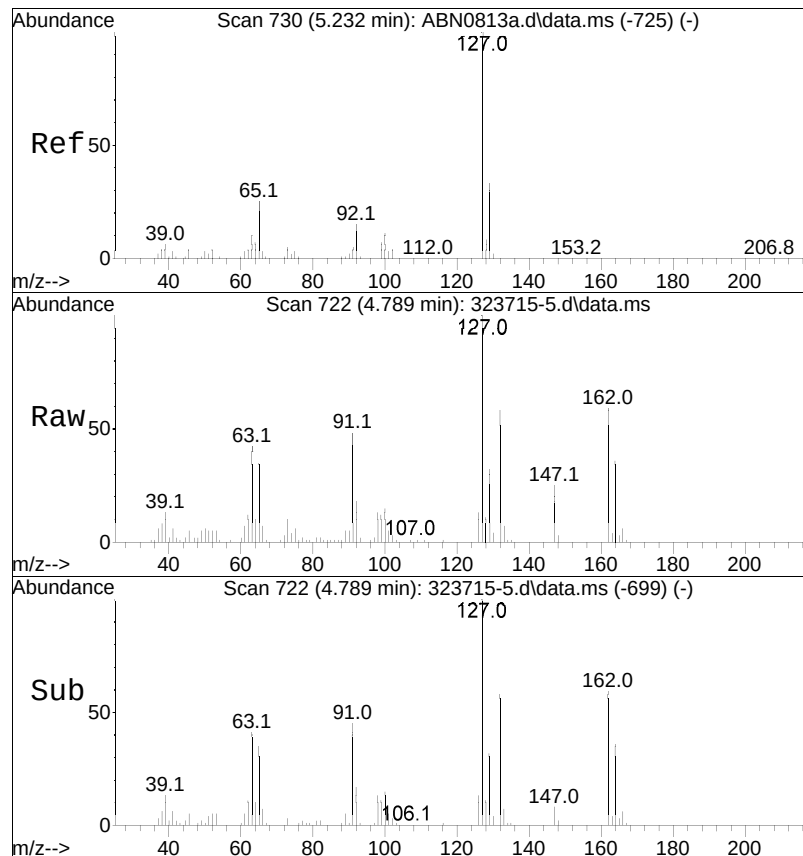




#36  
Naphthalene  
Concen: 38.92 ug/ml  
RT: 4.714 min Scan# 708  
Delta R.T. 0.000 min  
Lab File: 323715-5.d  
Acq: 24 Dec 2019 7:04 am

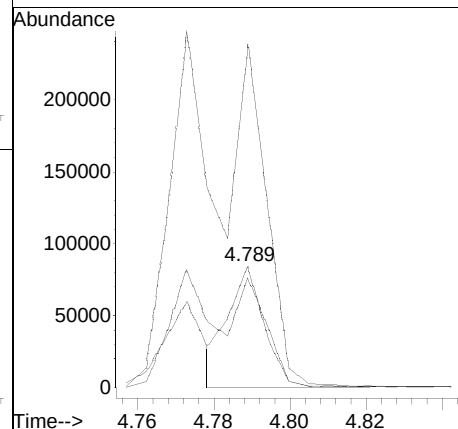
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 128 | 100  |       | 498694 |       |       |
| 129 | 11.3 |       |        | 9.0   | 13.6  |
| 127 | 13.6 |       |        | 11.3  | 16.9  |

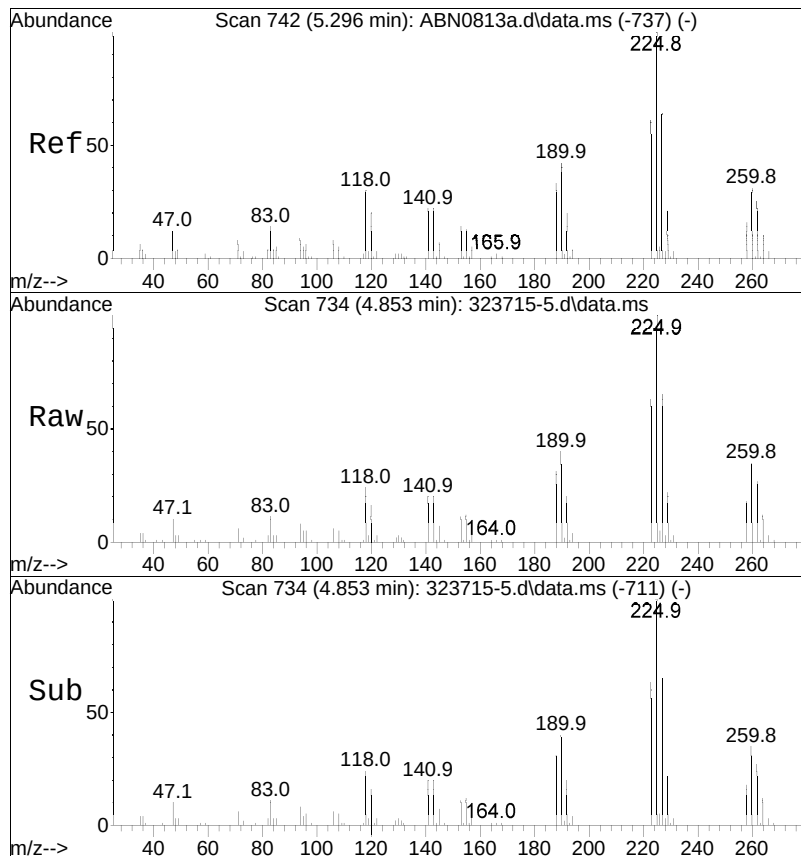




#38  
 4-Chloroaniline  
 Concen: 35.08 ug/ml M3  
 RT: 4.789 min Scan# 722  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

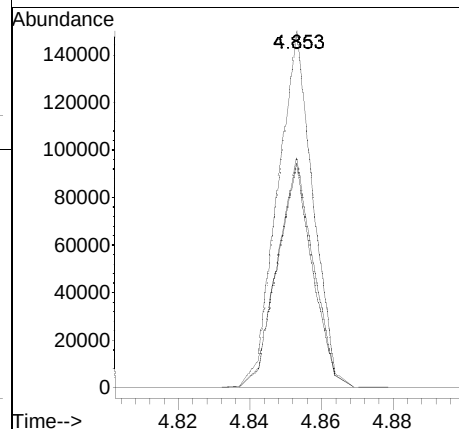
| Tgt | Ion   | Ratio | Lower  | Upper |
|-----|-------|-------|--------|-------|
| 65  | 100   |       |        |       |
| 127 | 221.6 | 302.2 | 453.2# |       |
| 129 | 72.2  | 97.8  | 146.8# |       |

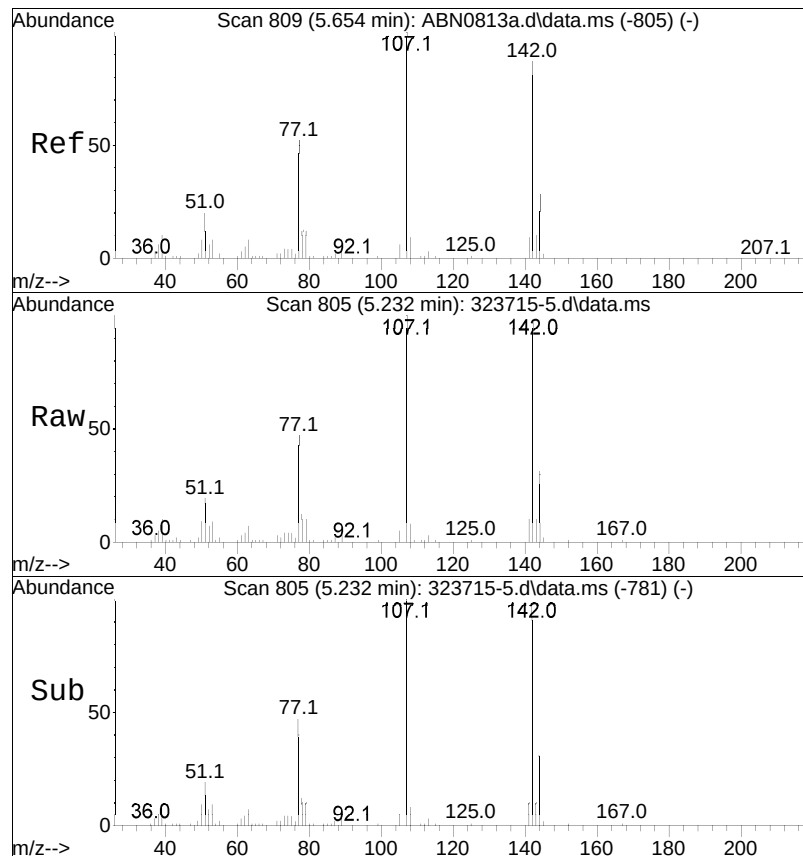




#39  
 Hexachlorobutadiene  
 Concen: 36.80 ug/ml  
 RT: 4.853 min Scan# 734  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

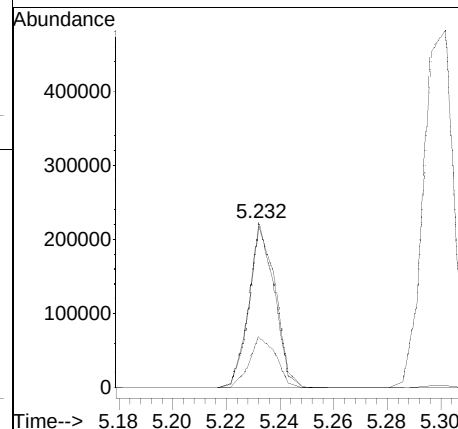
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 102277 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 62.8  | 50.0  | 75.0   |
| 227       | 65.4  | 51.8  | 77.6   |

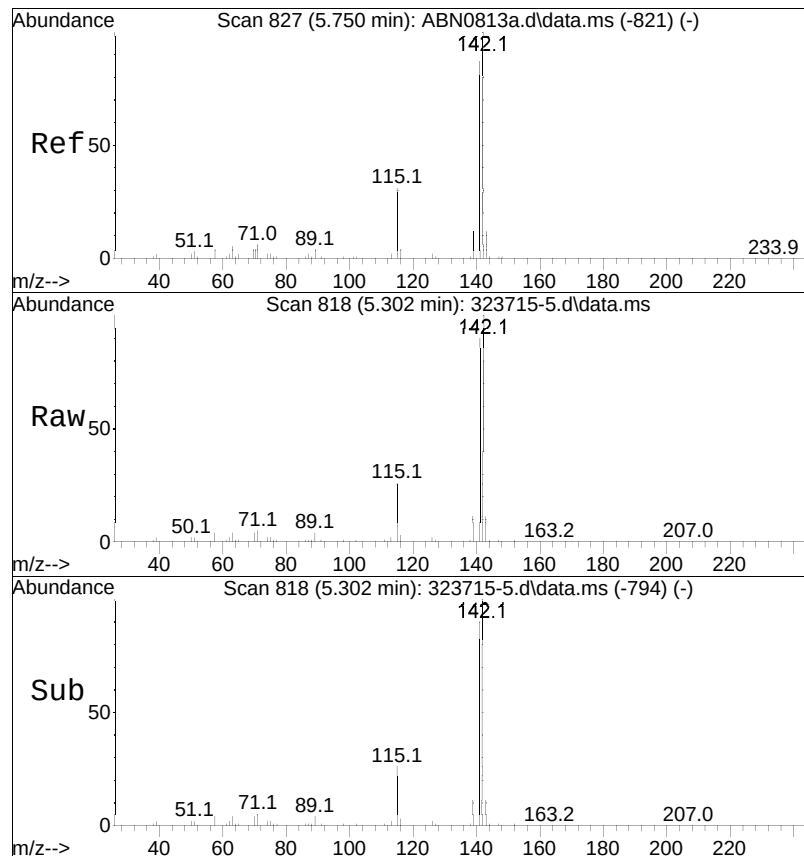




#40  
 p-Chloro-m-cresol  
 Concen: 41.55 ug/ml  
 RT: 5.232 min Scan# 805  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

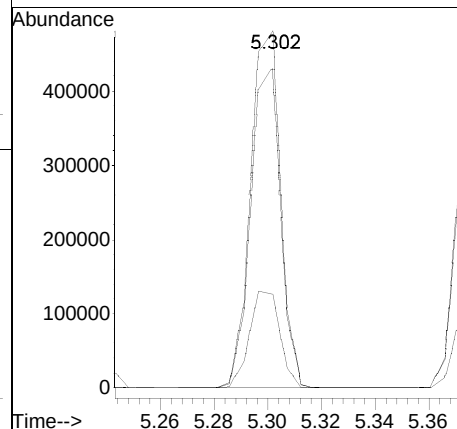
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 32.6  | 23.3  | 34.9  |
| 142     | 101.5 | 72.7  | 109.1 |

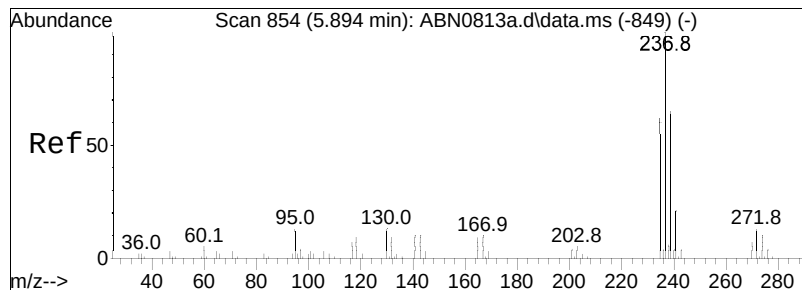




#41  
 2-Methylnaphthalene  
 Concen: 40.18 ug/ml  
 RT: 5.302 min Scan# 818  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 374913 |       |       |
| 141     | 89.3  |        | 69.5  | 104.3 |
| 115     | 27.7  |        | 25.4  | 38.2  |





#43

Hexachlorocyclopentadiene

Concen: 16.50 ug/ml

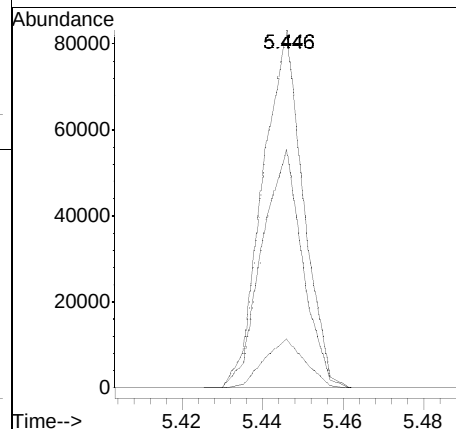
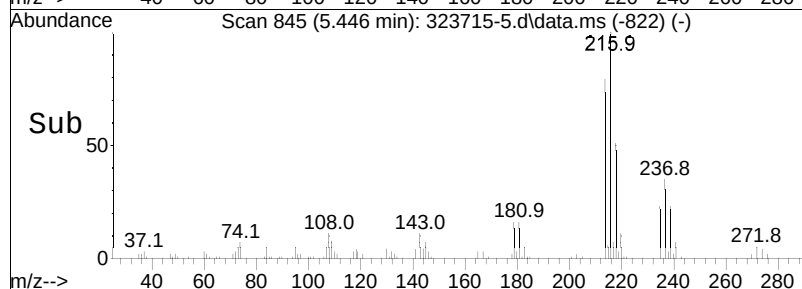
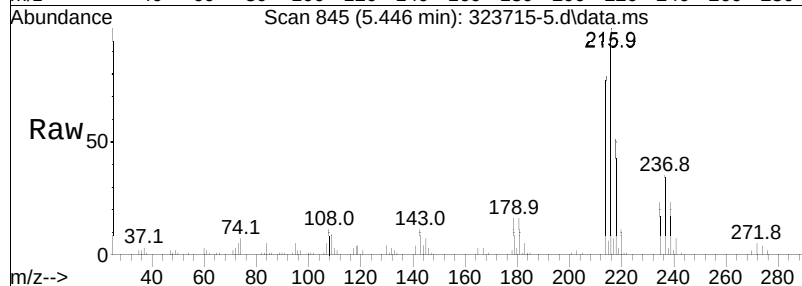
RT: 5.446 min Scan# 845

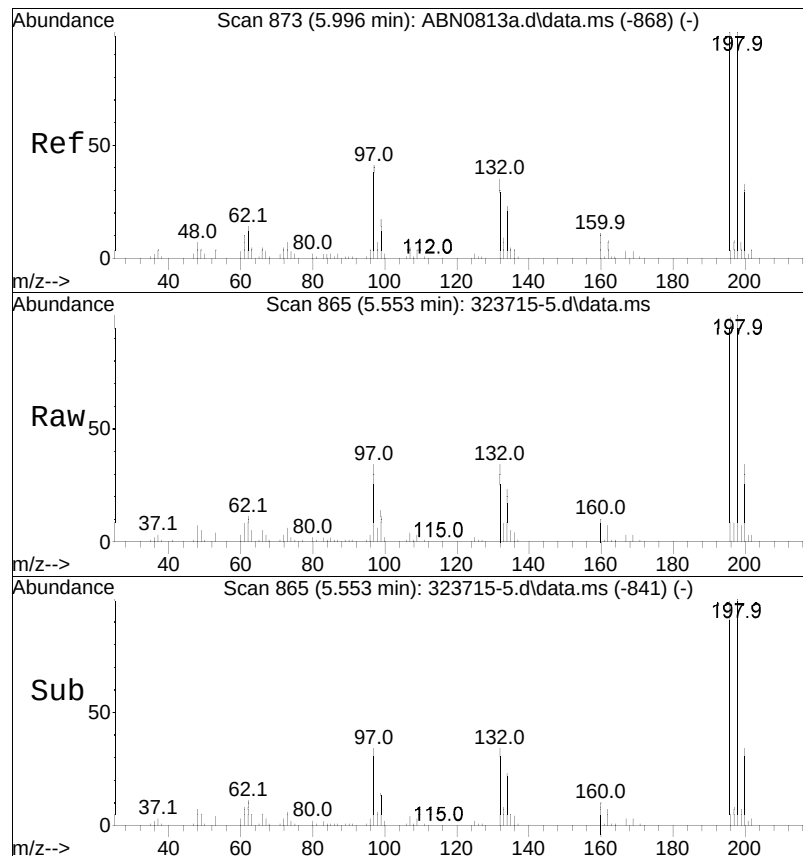
Delta R.T. 0.000 min

Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

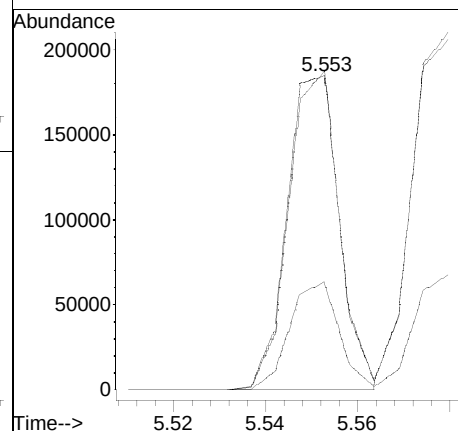
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 57617 |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 235       | 67.2  | 49.9  | 74.9  |
| 272       | 13.9  | 11.4  | 17.2  |

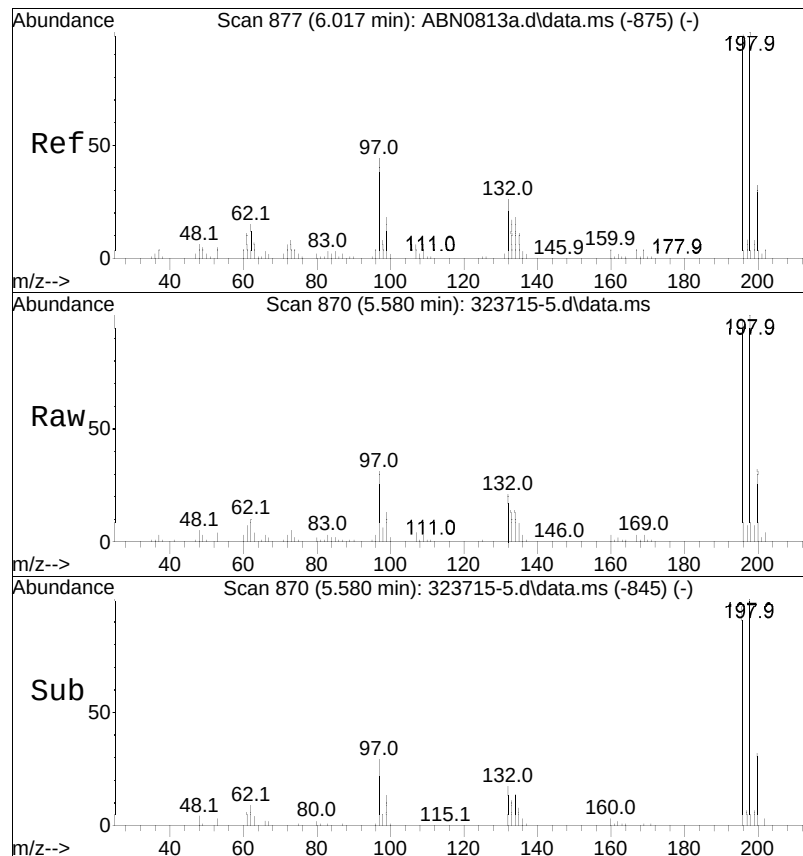




#44  
 2,4,6-Trichlorophenol  
 Concen: 46.19 ug/ml  
 RT: 5.553 min Scan# 865  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

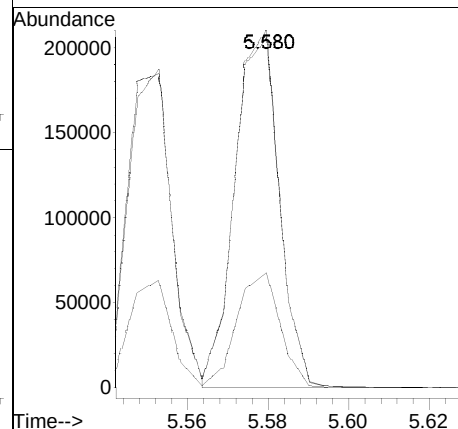
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 145274 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 97.3  | 77.0  | 115.6  |
| 200       | 32.5  | 25.0  | 37.6   |



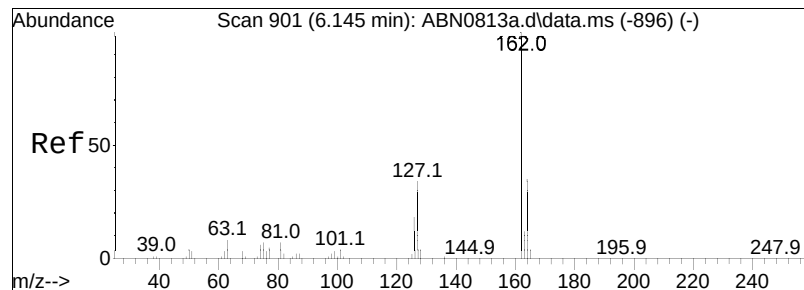


#45  
 2,4,5-Trichlorophenol  
 Concen: 47.51 ug/ml  
 RT: 5.580 min Scan# 870  
 Delta R.T. 0.011 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 158341 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 200       | 32.2  | 24.9  | 37.3   |
| 198       | 101.2 | 78.5  | 117.7  |







#47

2-Chloronaphthalene

Concen: 39.01 ug/ml

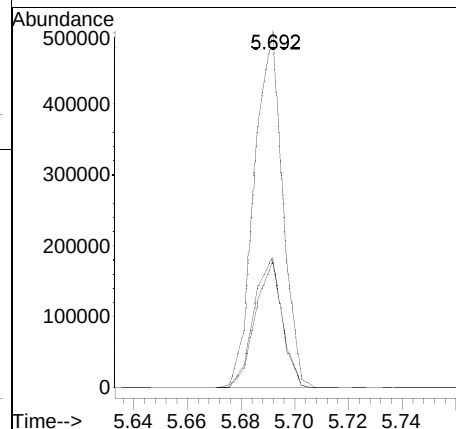
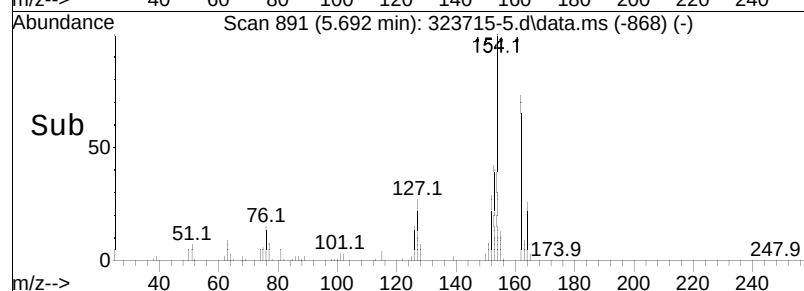
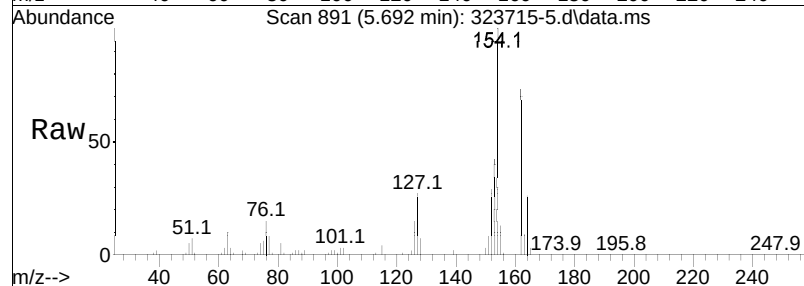
RT: 5.692 min Scan# 891

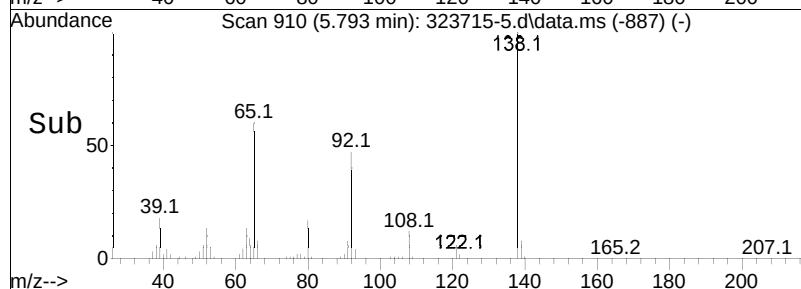
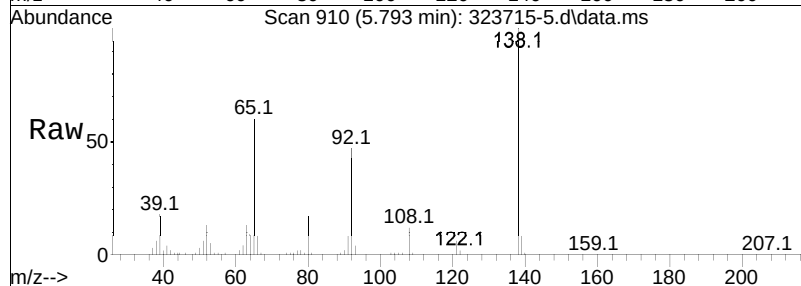
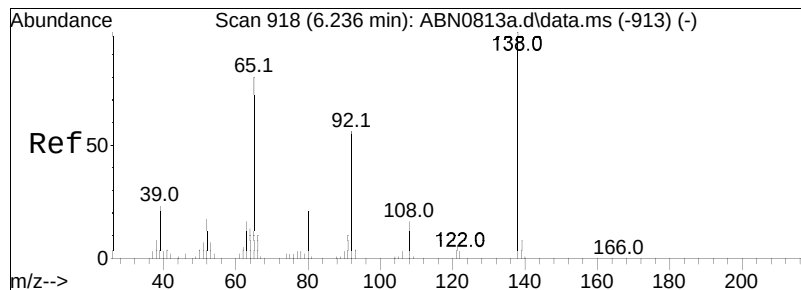
Delta R.T. 0.000 min

Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 367962 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 36.4  | 28.0  | 42.0   |
| 164       | 34.2  | 26.6  | 39.8   |





#48

2-Nitroaniline

Concen: 48.01 ug/ml

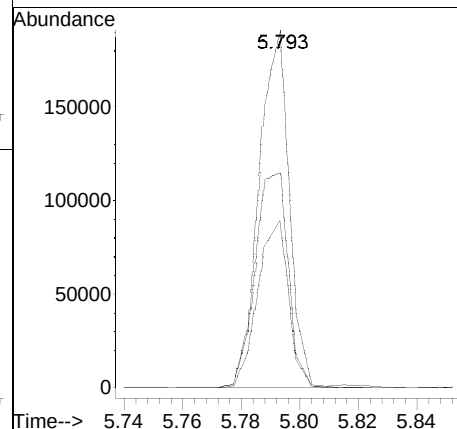
RT: 5.793 min Scan# 910

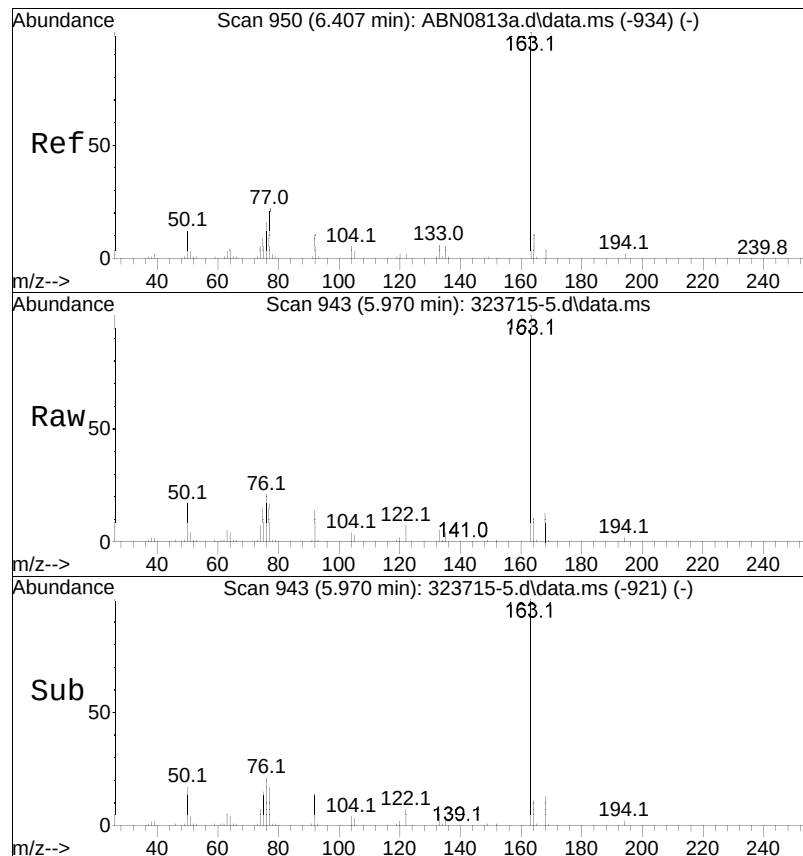
Delta R.T. 0.000 min

Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

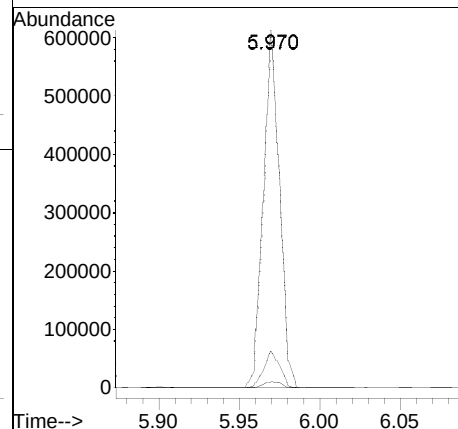
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:138 | Resp: | 135048 |
| Ion | Ratio   | Lower | Upper  |
| 138 | 100     |       |        |
| 92  | 48.1    | 41.7  | 62.5   |
| 65  | 66.2    | 61.5  | 92.3   |

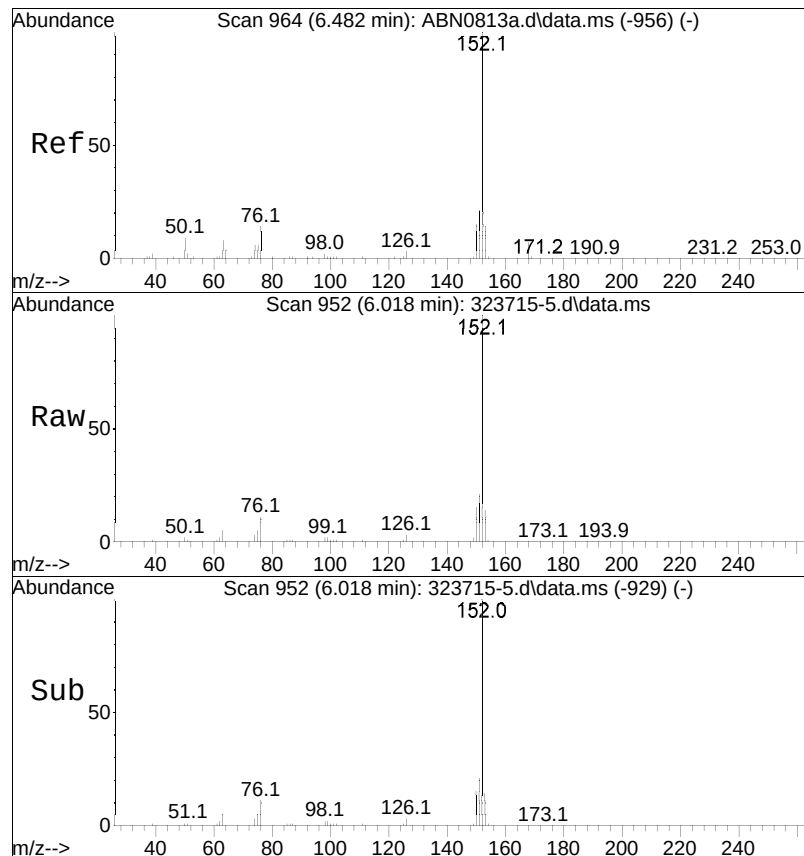




#51  
 Dimethyl phthalate  
 Concen: 39.46 ug/ml  
 RT: 5.970 min Scan# 943  
 Delta R.T. -0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

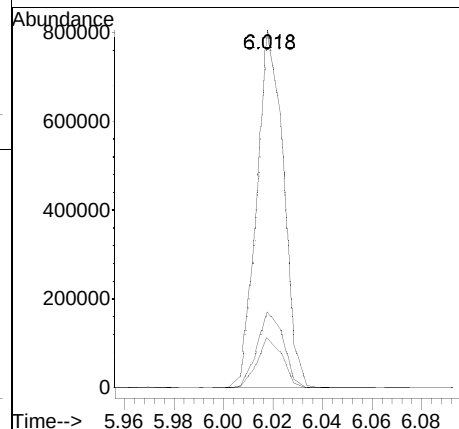
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 420333 |       |       |
| 194     | 2.0   |        | 3.4   | 5.2#  |
| 164     | 10.5  |        | 8.4   | 12.6  |

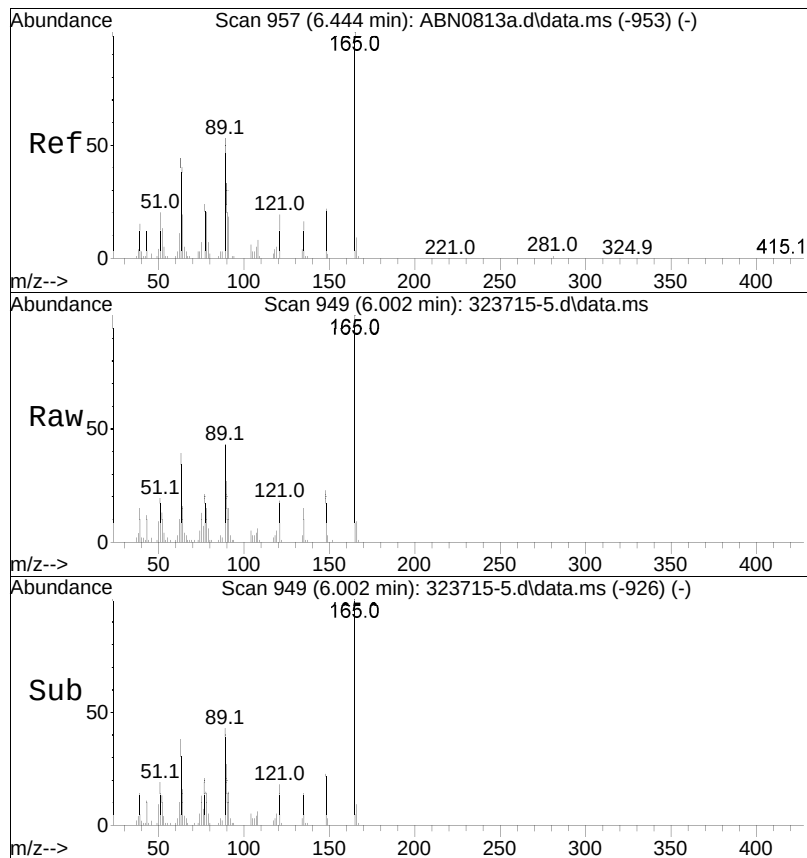




#52  
 Acenaphthylene  
 Concen: 41.08 ug/ml  
 RT: 6.018 min Scan# 952  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

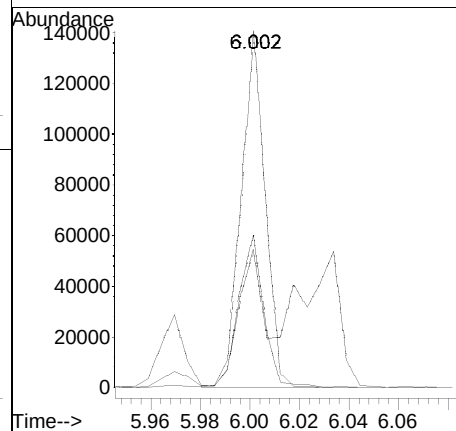
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 596925 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 21.3  | 16.7  | 25.1   |
| 153       | 13.7  | 11.1  | 16.7   |

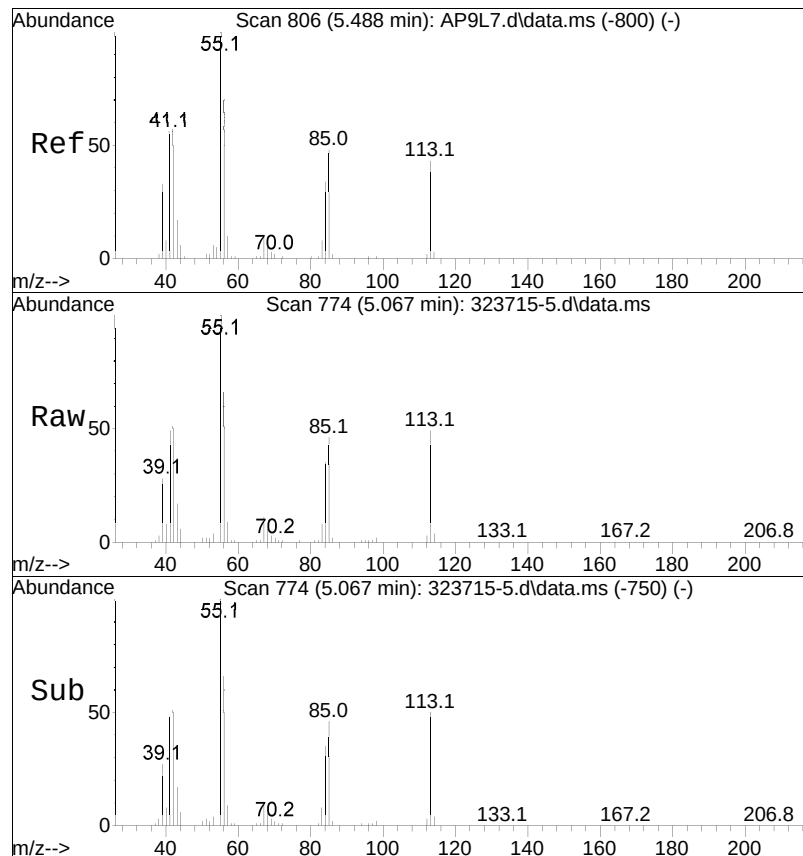




#53  
 2,6-Dinitrotoluene  
 Concen: 42.76 ug/ml  
 RT: 6.002 min Scan# 949  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

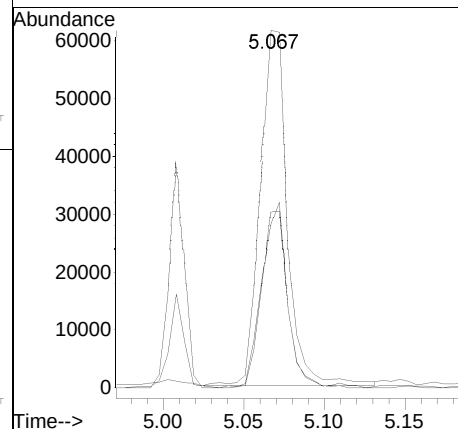
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 165     | 100   | 94126 |       |       |
| 89      | 45.0  |       | 43.1  | 64.7  |
| 63      | 46.4  |       | 42.7  | 64.1  |

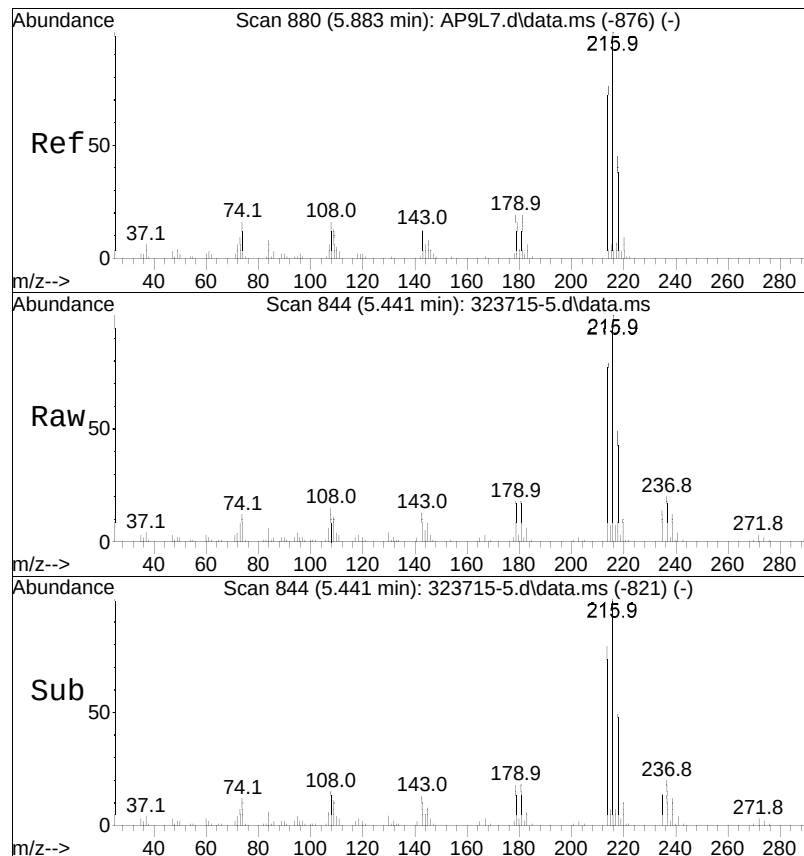




#60  
 Caprolactam  
 Concen: 40.37 ug/ml  
 RT: 5.067 min Scan# 774  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

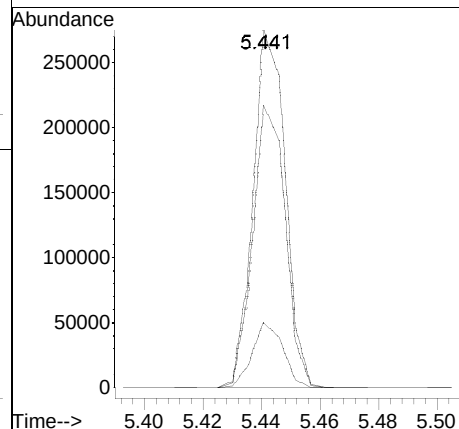
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 55    | Resp: | 72286 |
| Ion Ratio | Lower | Upper |       |
| 55        | 100   |       |       |
| 85        | 49.0  | 36.6  | 54.8  |
| 113       | 48.0  | 50.2  | 75.2# |

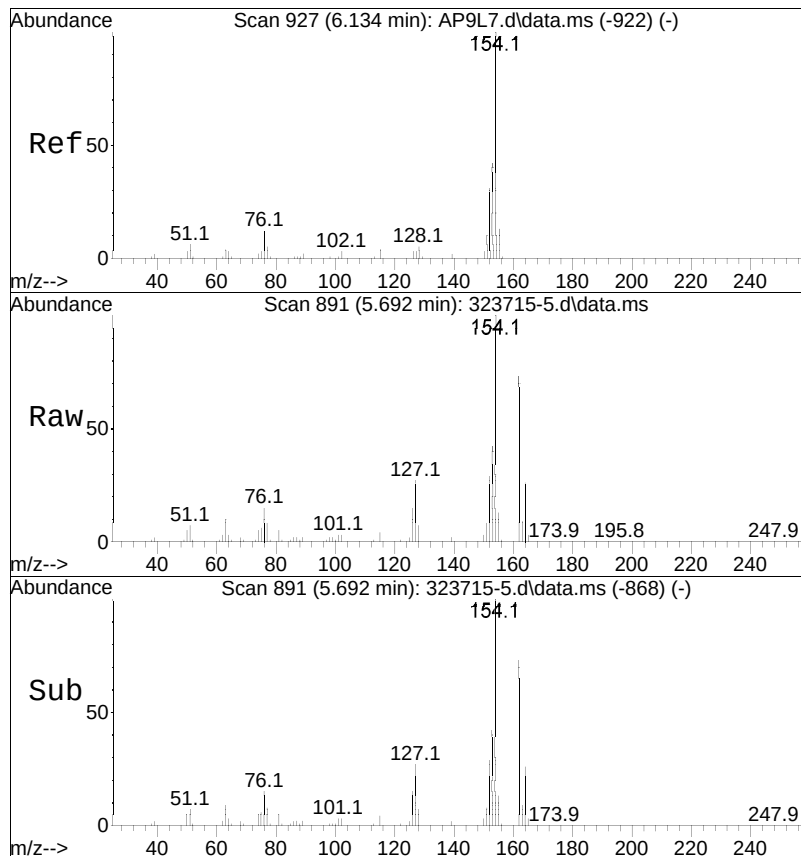




#61  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 42.20 ug/ml  
 RT: 5.441 min Scan# 844  
 Delta R.T. -0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

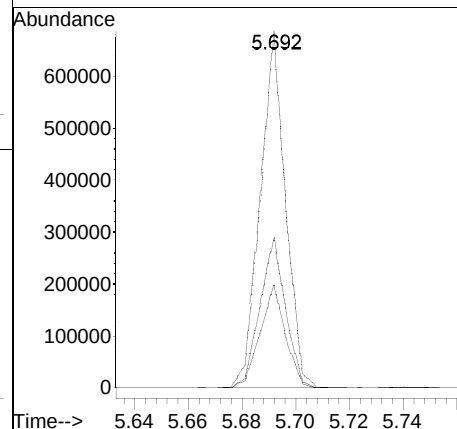
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:216 | Resp: | 208456 |
| Ion | Ratio   | Lower | Upper  |
| 216 | 100     |       |        |
| 214 | 79.4    | 63.0  | 94.4   |
| 179 | 17.6    | 15.3  | 22.9   |



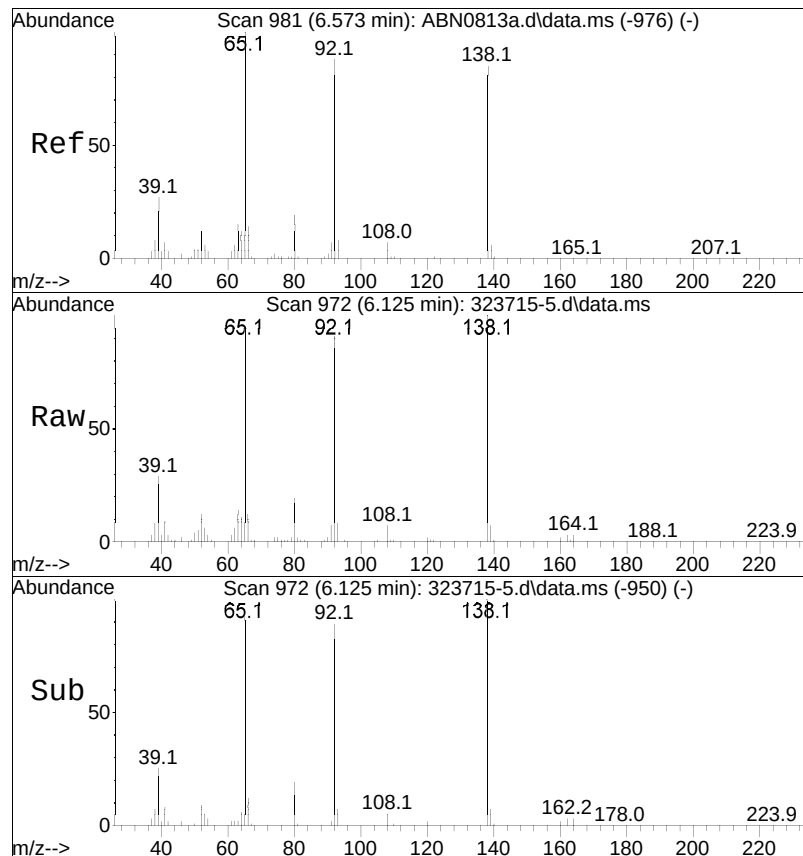


#62  
 Biphenyl  
 Concen: 41.70 ug/ml  
 RT: 5.692 min Scan# 891  
 Delta R.T. -0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 444883 |       |       |
| 153     | 42.8  |        | 33.8  | 50.8  |
| 152     | 29.2  |        | 23.0  | 34.6  |

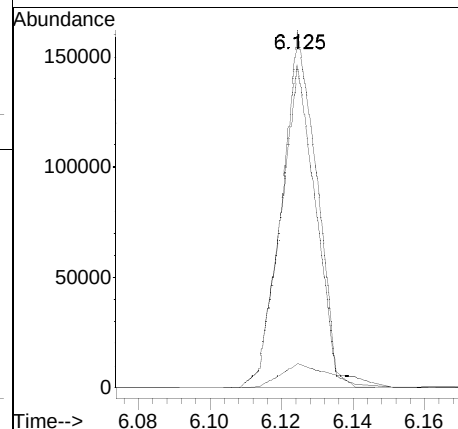


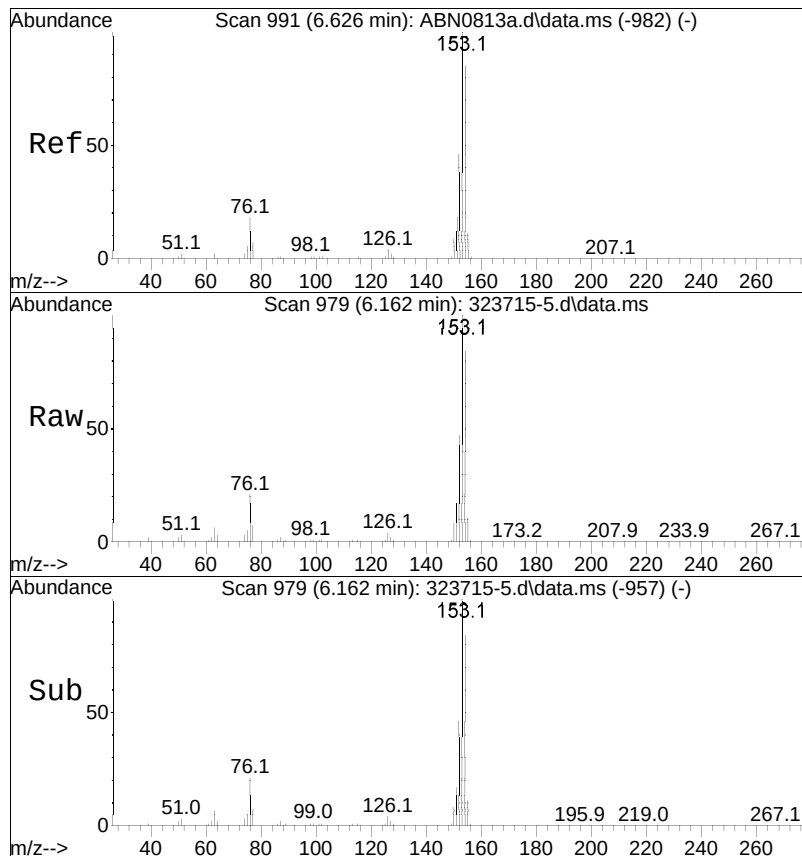




#64  
 3-Nitroaniline  
 Concen: 41.28 ug/ml  
 RT: 6.125 min Scan# 972  
 Delta R.T. -0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

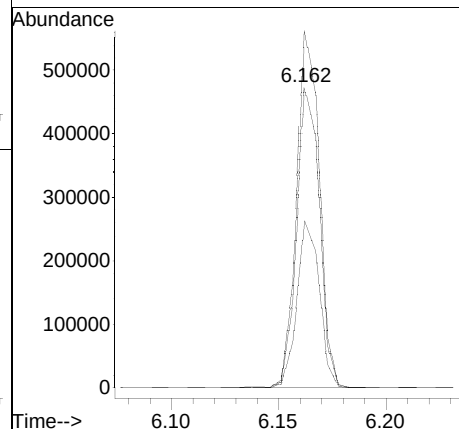
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 108903 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 90.9  | 77.5  | 116.3  |
| 108       | 11.3  | 7.0   | 10.4#  |

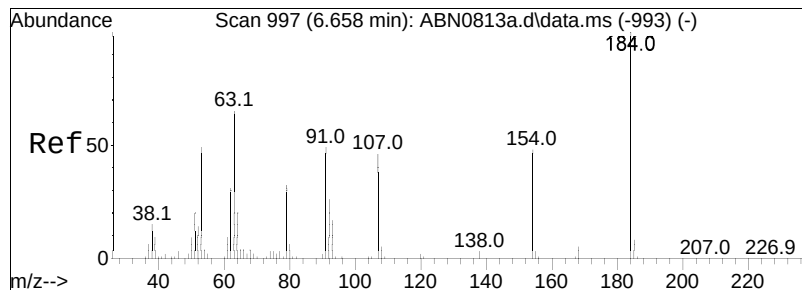




#65  
 Acenaphthene  
 Concen: 38.35 ug/ml  
 RT: 6.162 min Scan# 979  
 Delta R.T. -0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:154 | Resp: | 350095 |
| Ion | Ratio   | Lower | Upper  |
| 154 | 100     |       |        |
| 153 | 118.5   | 89.4  | 134.0  |
| 152 | 54.9    | 42.2  | 63.2   |





#66

2,4-Dinitrophenol

Concen: 3.68 ug/ml

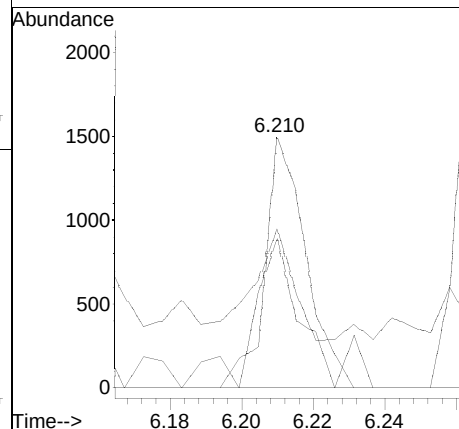
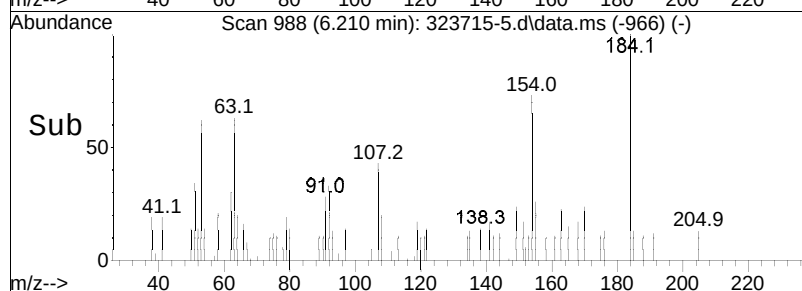
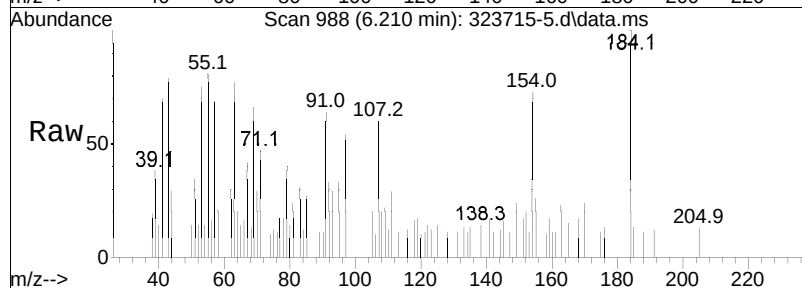
RT: 6.210 min Scan# 988

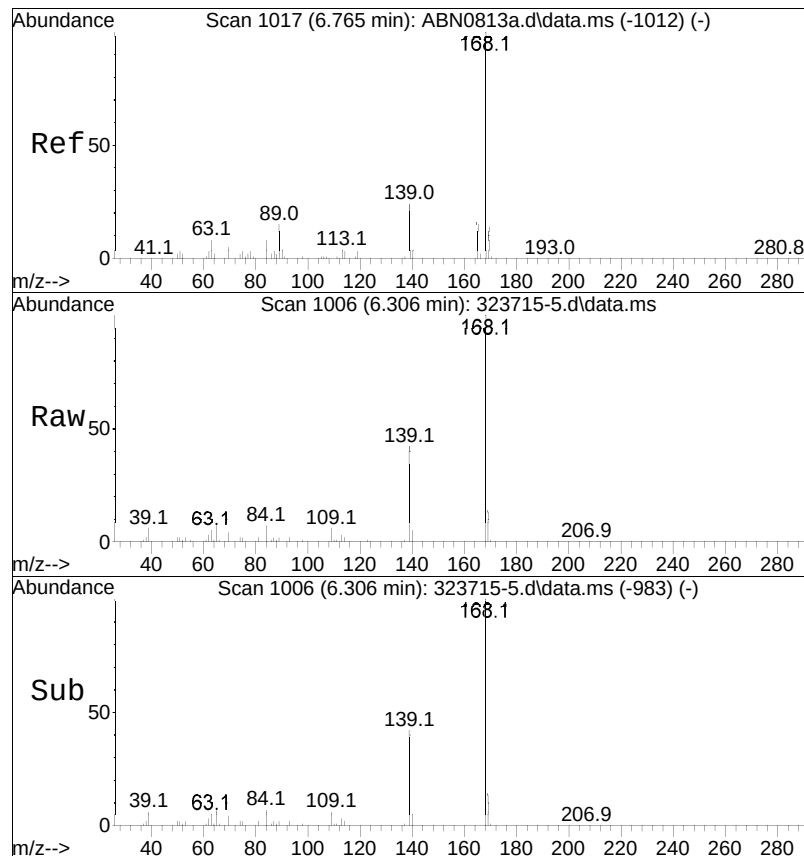
Delta R.T. -0.005 min

Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

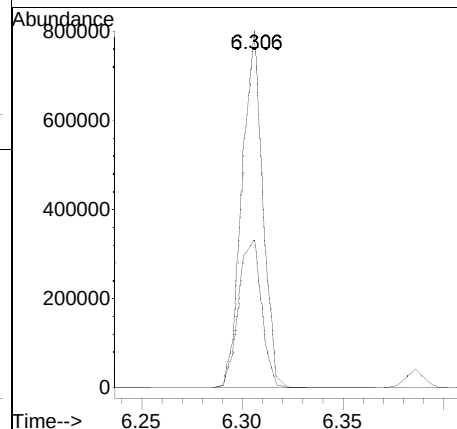
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 107     | 76.2  | 31.4  | 47.2# |
| 91      | 43.1  | 37.2  | 55.8  |

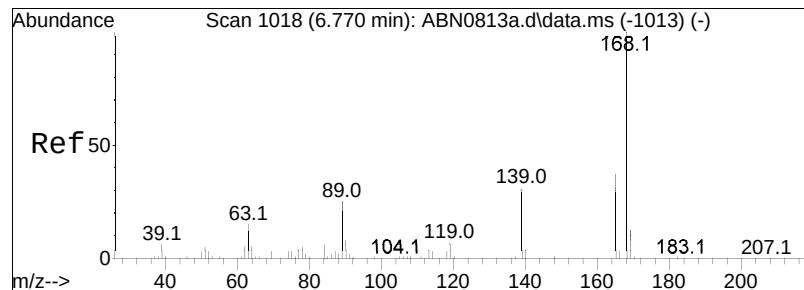




#67  
 Dibenzofuran  
 Concen: 41.06 ug/ml  
 RT: 6.306 min Scan# 1006  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

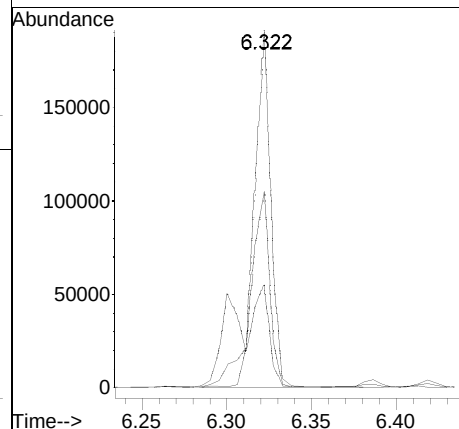
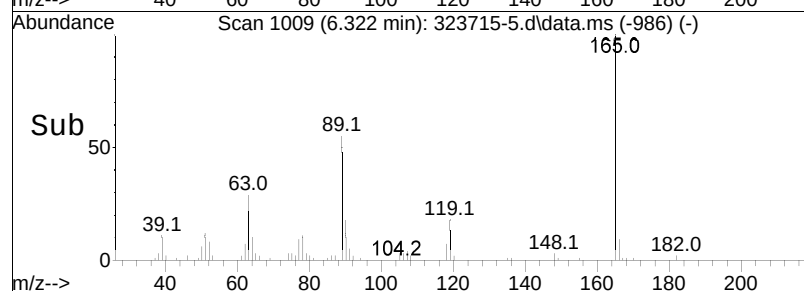
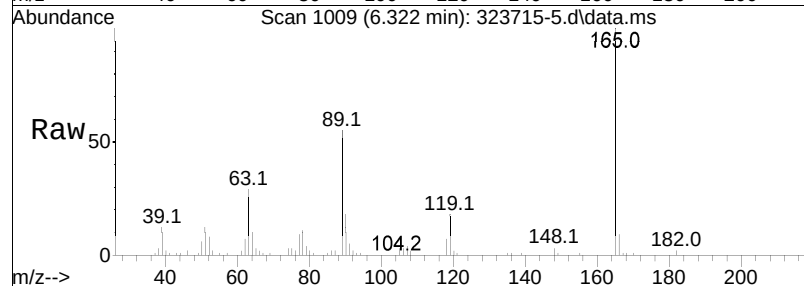
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 46.3  | 28.0  | 42.0# |

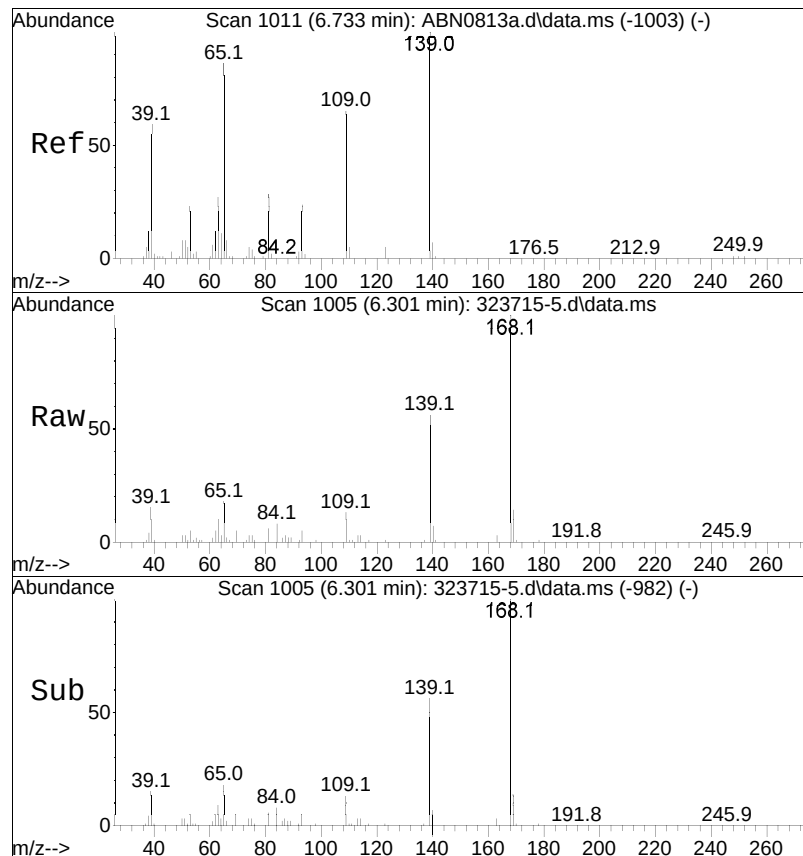




#68  
 2,4-Dinitrotoluene  
 Concen: 42.46 ug/ml  
 RT: 6.322 min Scan# 1009  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

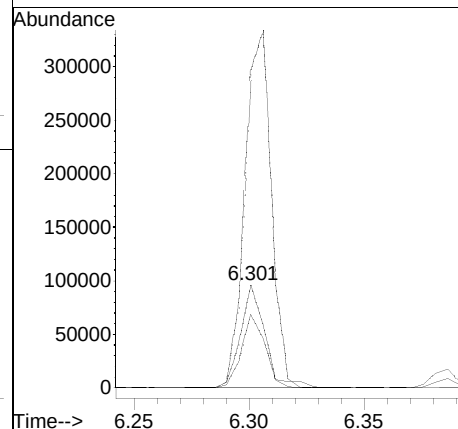
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:165 | Resp: | 126232 |
| Ion | Ratio   | Lower | Upper  |
| 165 | 100     |       |        |
| 89  | 66.8    | 63.0  | 94.6   |
| 63  | 28.6    | 50.3  | 75.5#  |

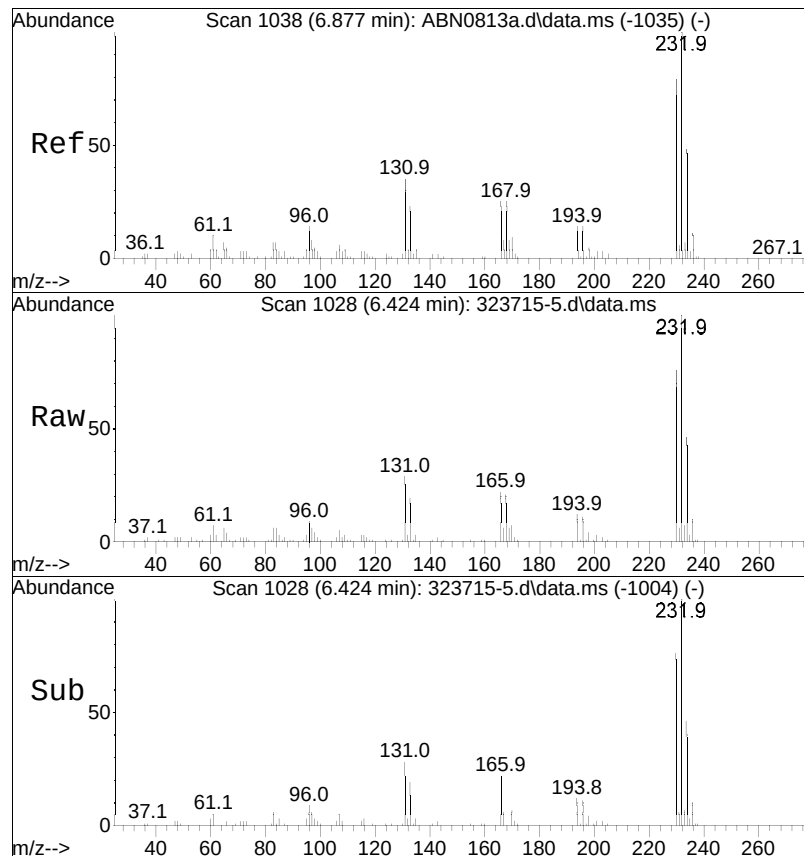




#69  
 4-Nitrophenol  
 Concen: 37.83 ug/ml  
 RT: 6.301 min Scan# 1005  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

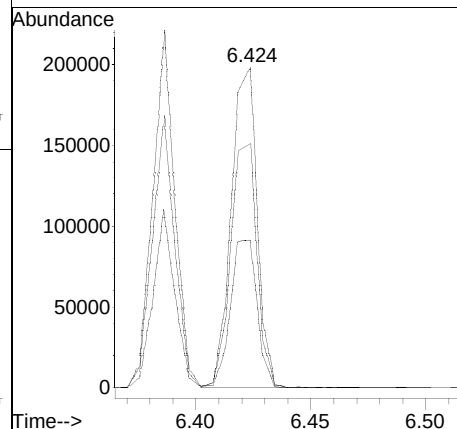
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 65    | Resp: | 71280  |
| Ion Ratio | Lower | Upper |        |
| 65        | 100   |       |        |
| 109       | 67.8  | 55.3  | 82.9   |
| 139       | 367.9 | 95.1  | 142.7# |

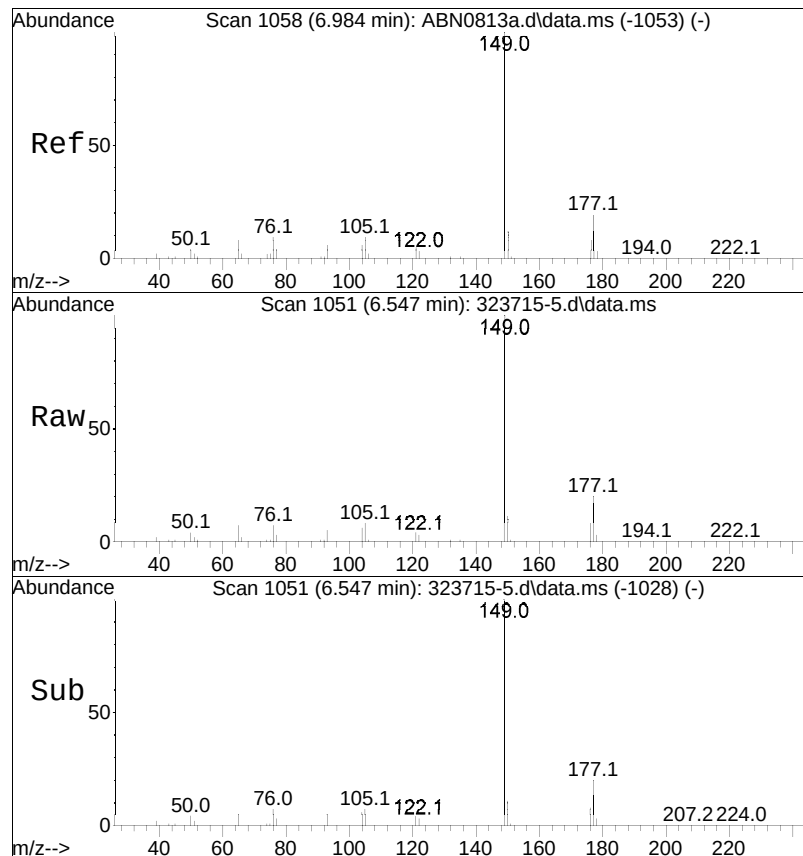




#71  
 2,3,4,6-Tetrachlorophenol  
 Concen: 46.23 ug/ml  
 RT: 6.424 min Scan# 1028  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

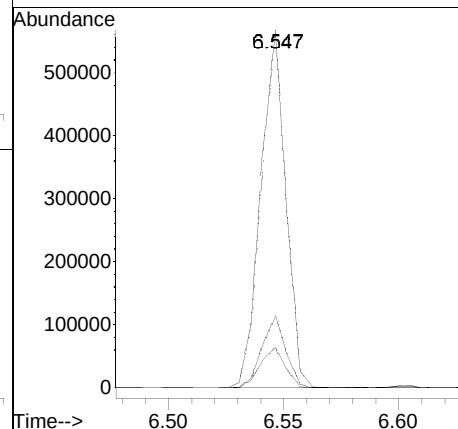
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 155919 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 230       | 77.6  | 64.2  | 96.4   |
| 234       | 47.4  | 38.4  | 57.6   |



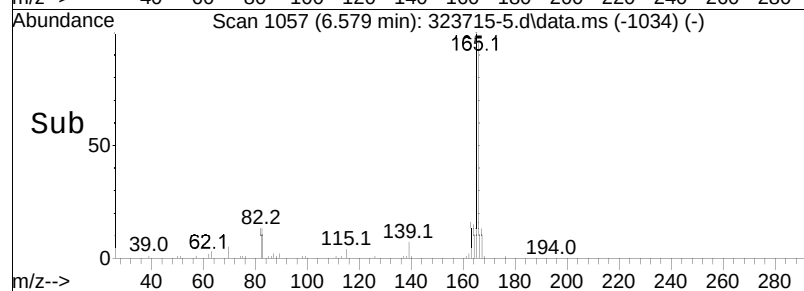
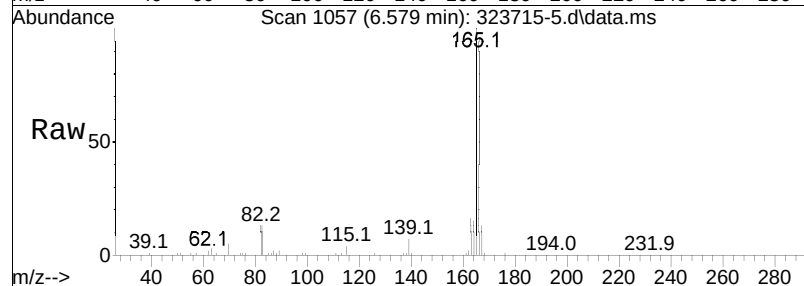
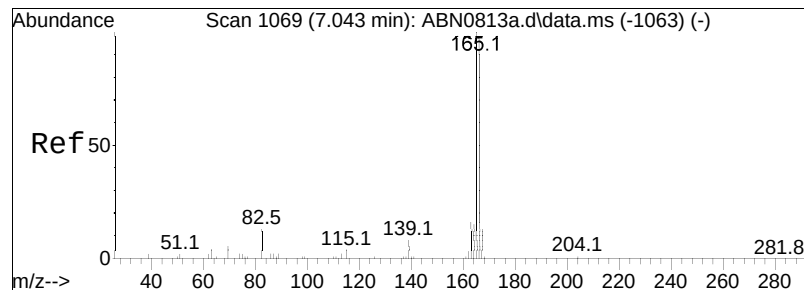


#72  
 Diethyl phthalate  
 Concen: 37.68 ug/ml  
 RT: 6.547 min Scan# 1051  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 423643 |       |       |
| 177     | 19.6  |        | 16.2  | 24.2  |
| 150     | 11.5  |        | 9.4   | 14.0  |

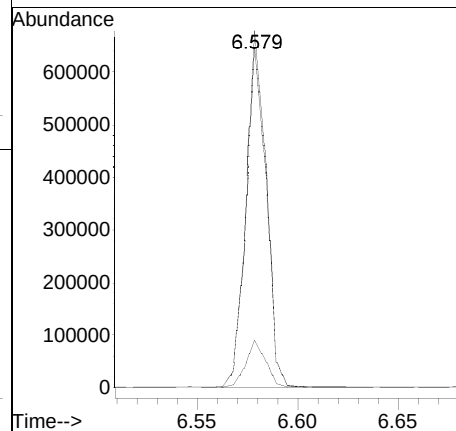


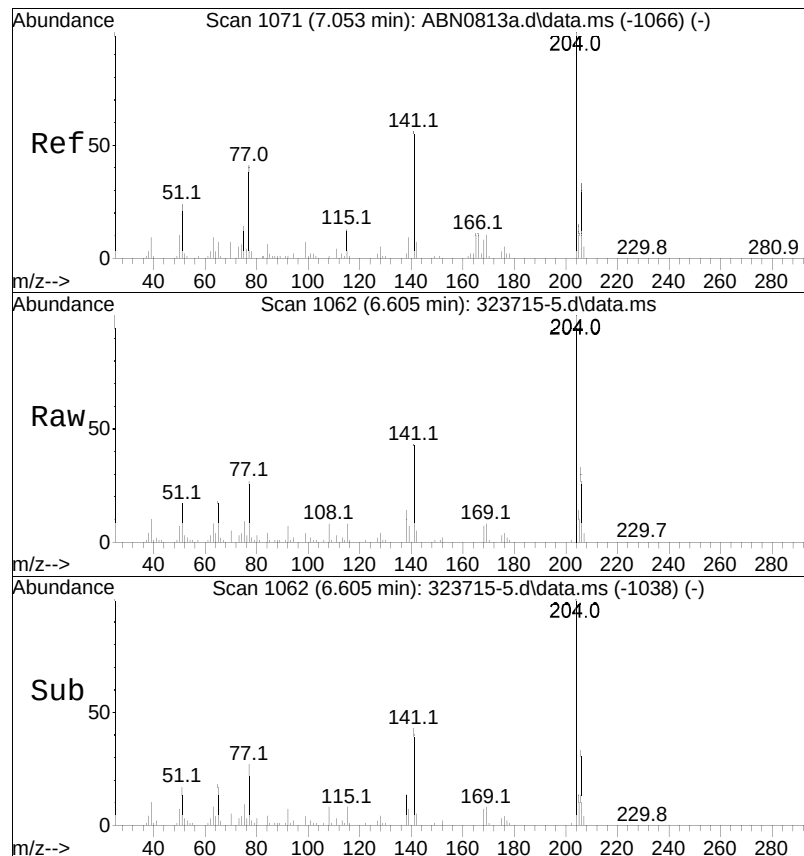




#73  
 Fluorene  
 Concen: 41.44 ug/ml  
 RT: 6.579 min Scan# 1057  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

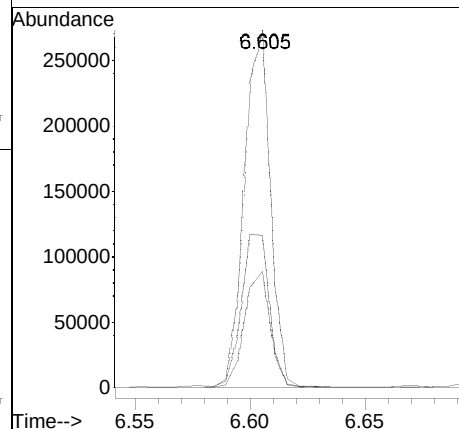
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 104.5 | 77.2  | 115.8 |
| 167     | 13.8  | 10.9  | 16.3  |

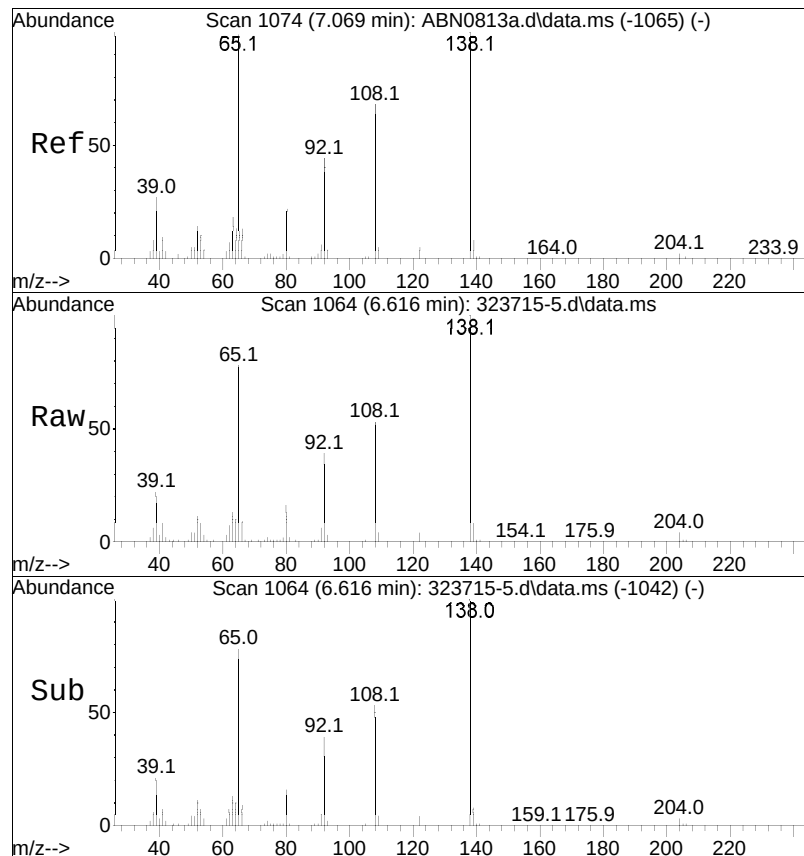




#74  
 4-Chlorophenyl phenyl ether  
 Concen: 38.29 ug/ml  
 RT: 6.605 min Scan# 1062  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

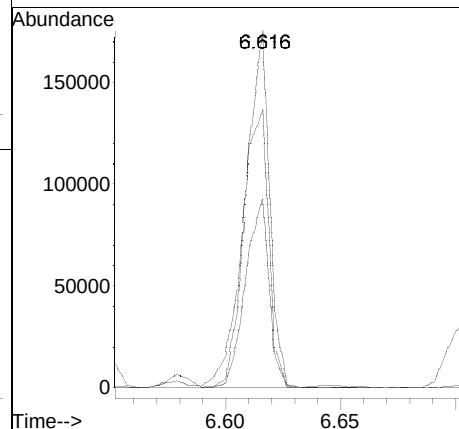
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 213601 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 32.4  | 27.0  | 40.6   |
| 141       | 46.5  | 42.2  | 63.2   |

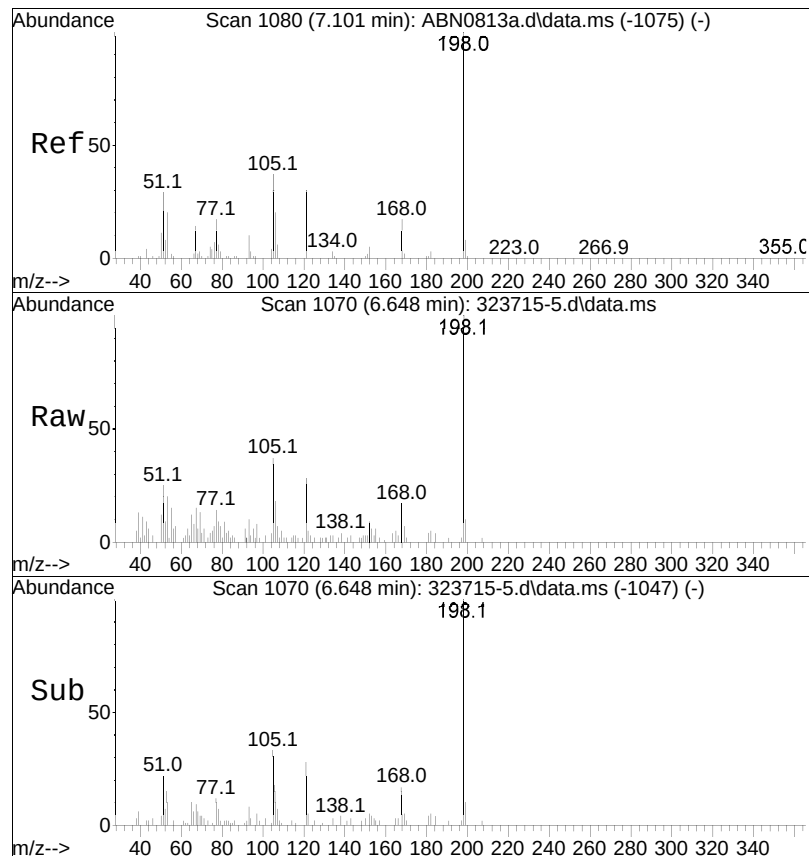




#75  
 4-Nitroaniline  
 Concen: 43.25 ug/ml  
 RT: 6.616 min Scan# 1064  
 Delta R.T. -0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

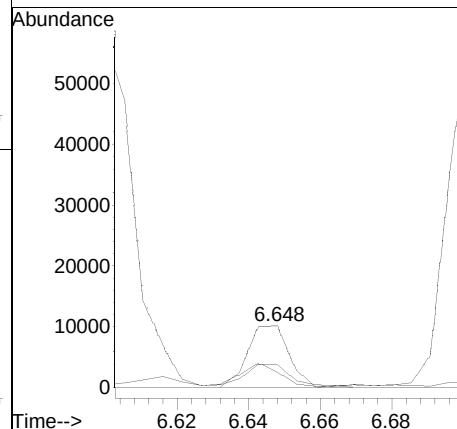
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 122849 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 53.8  | 46.7  | 70.1   |
| 65        | 89.5  | 81.2  | 121.8  |

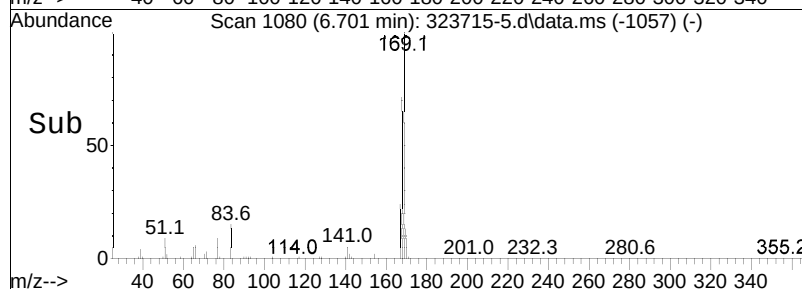
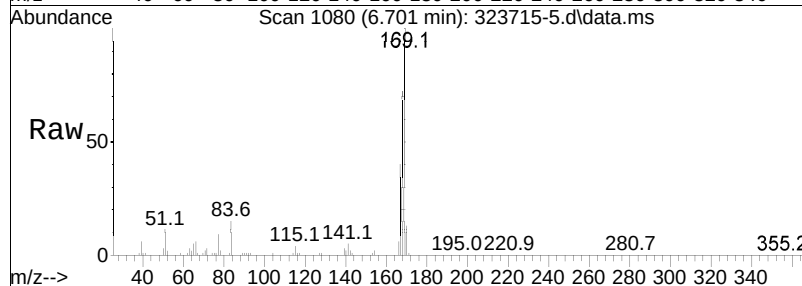
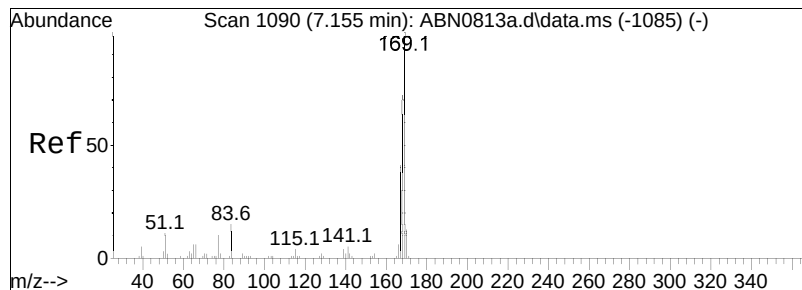




#76  
 4,6-Dinitro-o-cresol  
 Concen: 4.76 ug/ml  
 RT: 6.648 min Scan# 1070  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 8241  |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 34.8  | 35.0  | 52.6# |
| 105       | 35.3  | 32.3  | 48.5  |





#77

NDPA/DPA

Concen: 40.40 ug/ml

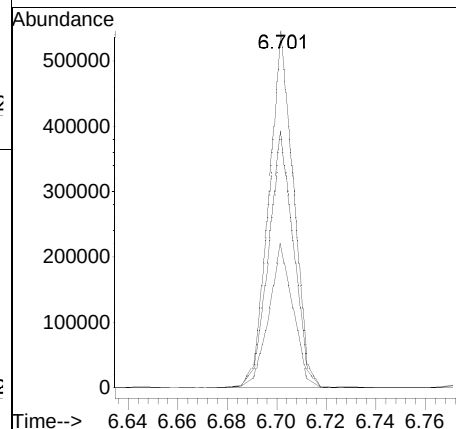
RT: 6.701 min Scan# 1080

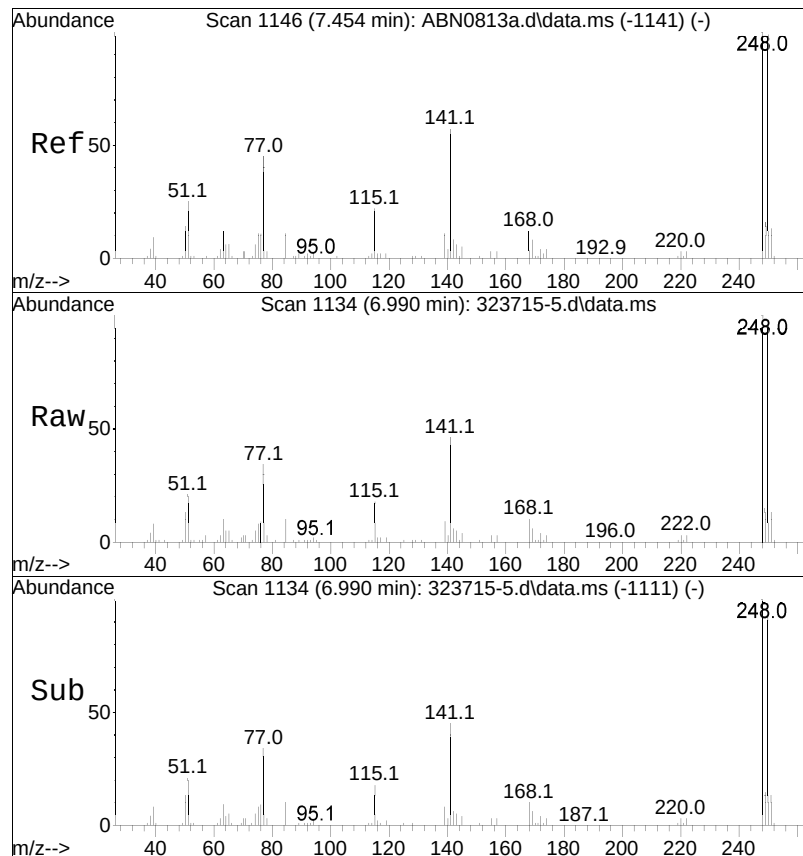
Delta R.T. 0.000 min

Lab File: 323715-5.d

Acq: 24 Dec 2019 7:04 am

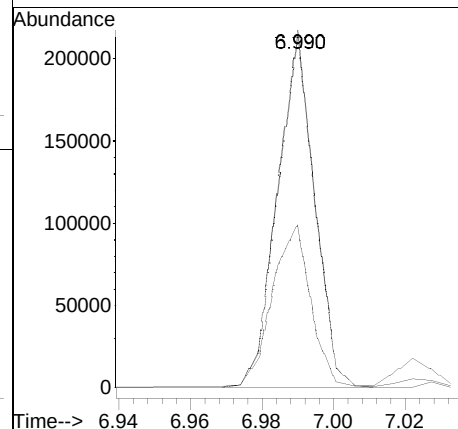
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 169   | Resp: | 377146 |
| Ion Ratio | Lower | Upper |        |
| 169       | 100   |       |        |
| 168       | 73.1  | 54.6  | 82.0   |
| 167       | 40.4  | 30.7  | 46.1   |

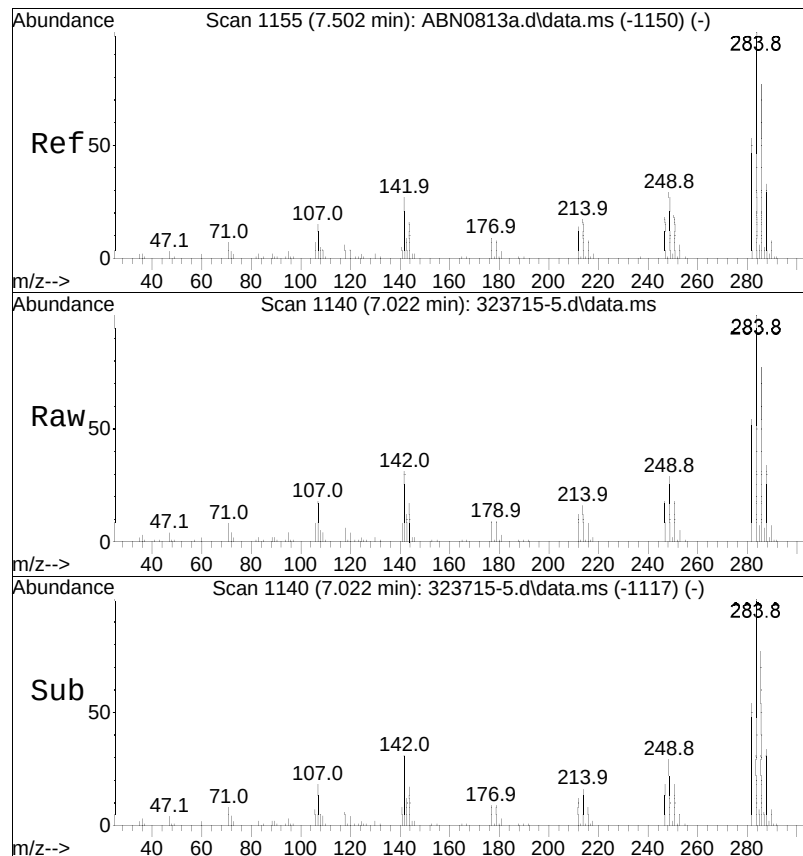




#80  
 4-Bromophenyl phenyl ether  
 Concen: 43.01 ug/ml  
 RT: 6.990 min Scan# 1134  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

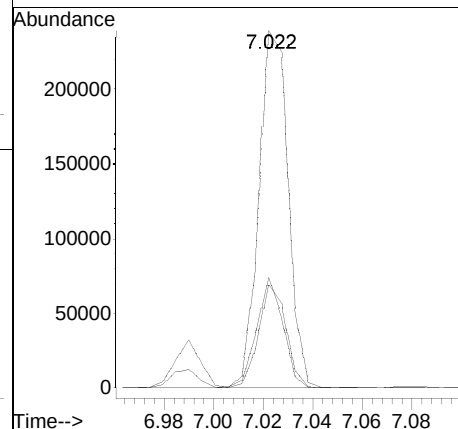
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 154882 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 141       | 48.1  | 46.6  | 70.0   |
| 250       | 98.4  | 79.4  | 119.2  |

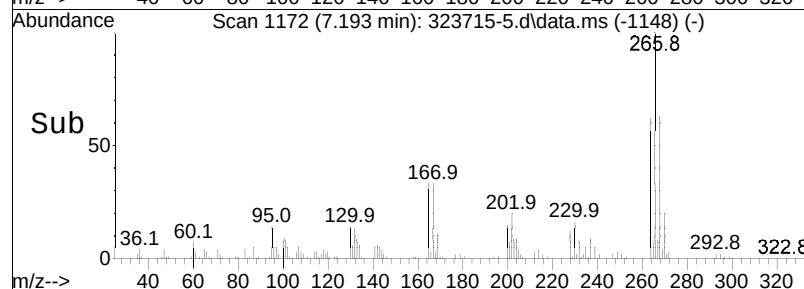
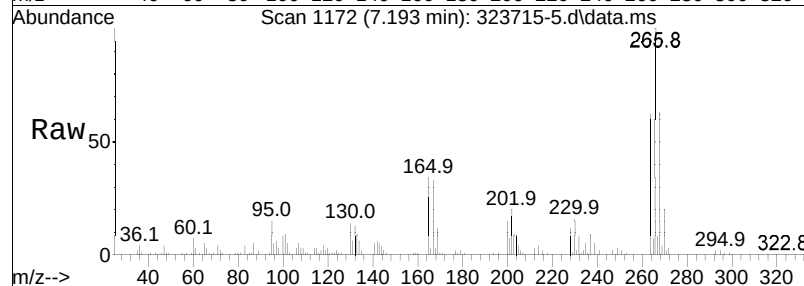
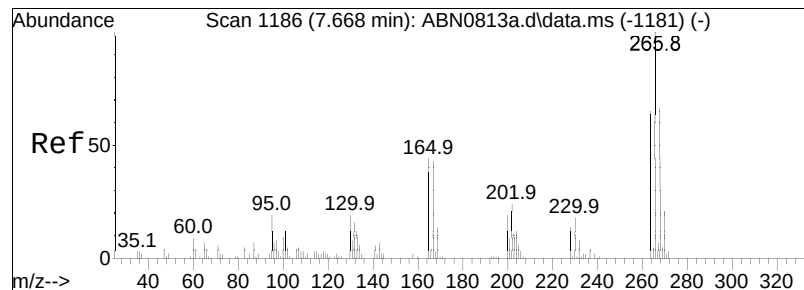




#81  
 Hexachlorobenzene  
 Concen: 45.76 ug/ml  
 RT: 7.022 min Scan# 1140  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

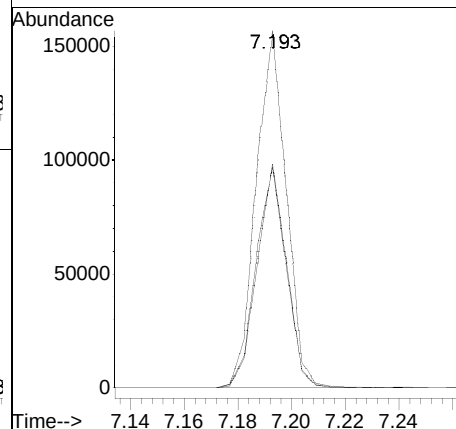
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 284   | Resp: | 195542 |
| Ion Ratio | Lower | Upper |        |
| 284       | 100   |       |        |
| 142       | 27.9  | 26.0  | 39.0   |
| 249       | 27.2  | 20.6  | 30.8   |



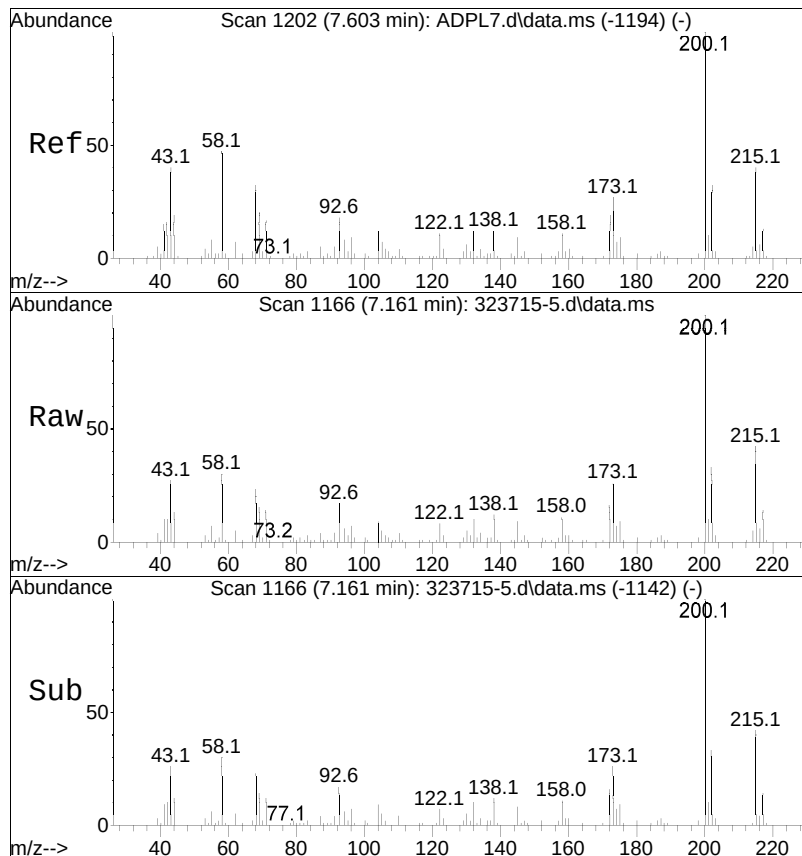


#82  
 Pentachlorophenol  
 Concen: 44.41 ug/ml  
 RT: 7.193 min Scan# 1172  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 121310 |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 264       | 62.3  | 51.2  | 76.8   |
| 268       | 61.2  | 51.5  | 77.3   |

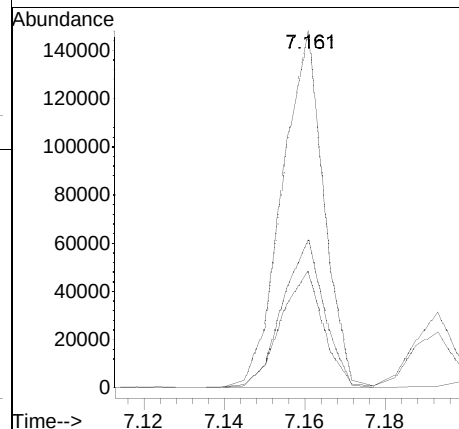


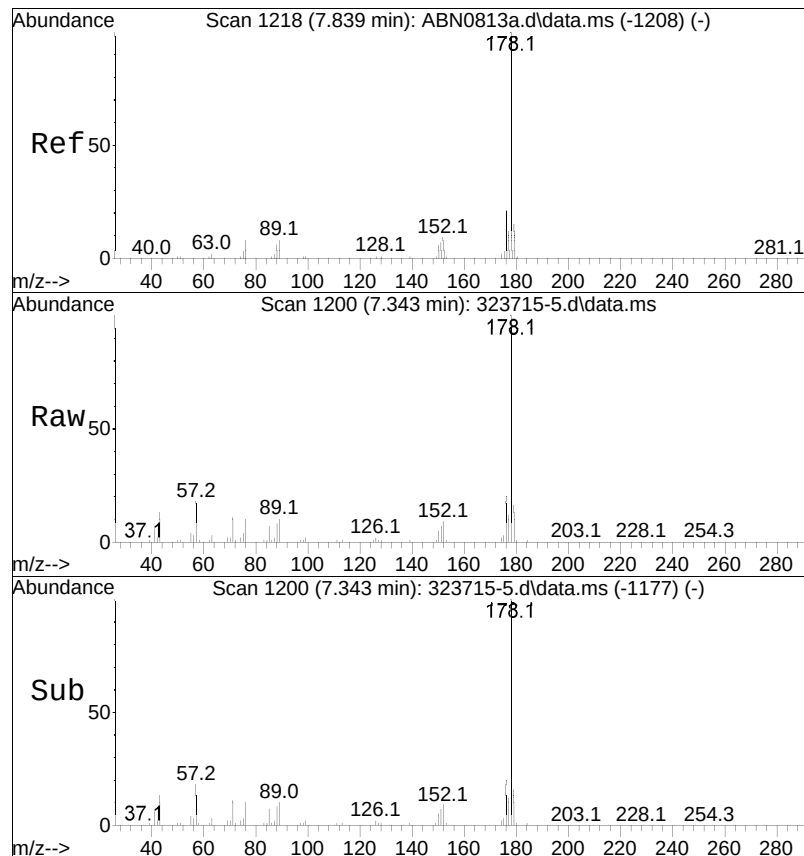




#87  
 Atrazine  
 Concen: 39.23 ug/ml  
 RT: 7.161 min Scan# 1166  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

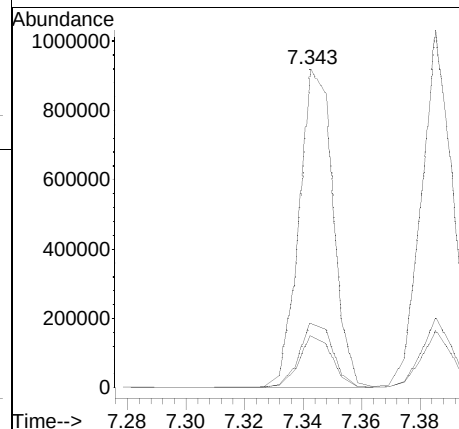
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:200 | Resp: | 106140 |
| Ion | Ratio   | Lower | Upper  |
| 200 | 100     |       |        |
| 202 | 33.7    | 25.8  | 38.8   |
| 215 | 41.3    | 40.3  | 60.5   |

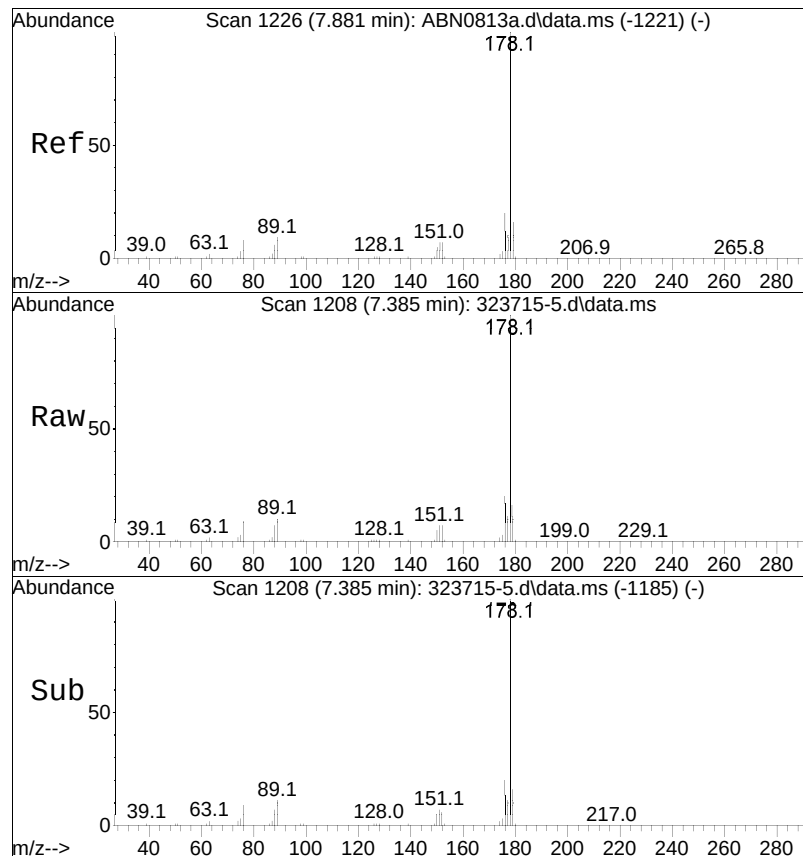




#89  
 Phenanthrene  
 Concen: 37.18 ug/ml  
 RT: 7.343 min Scan# 1200  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

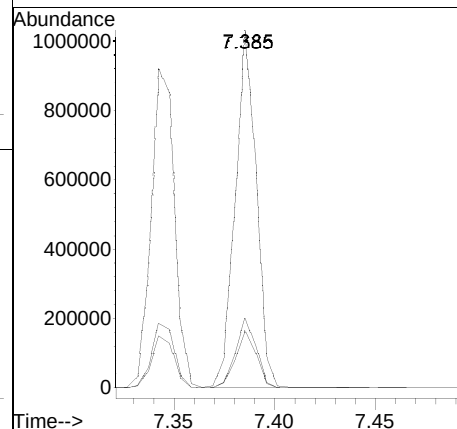
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 742047 |       |       |
| 179     | 15.9  |        | 12.7  | 19.1  |
| 176     | 20.0  |        | 15.8  | 23.6  |

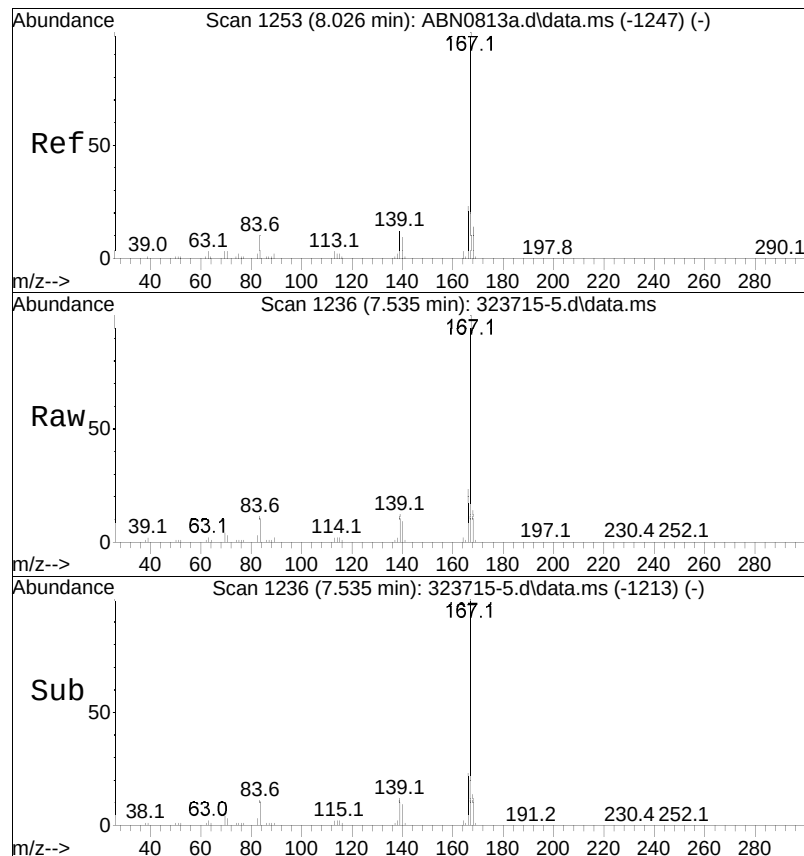




#90  
 Anthracene  
 Concen: 38.39 ug/ml  
 RT: 7.385 min Scan# 1208  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

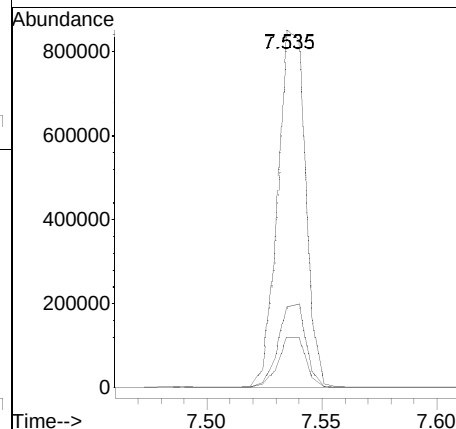
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:178 | Resp: | 752731 |
| Ion | Ratio   | Lower | Upper  |
| 178 | 100     |       |        |
| 179 | 15.9    | 12.5  | 18.7   |
| 176 | 19.2    | 15.4  | 23.0   |

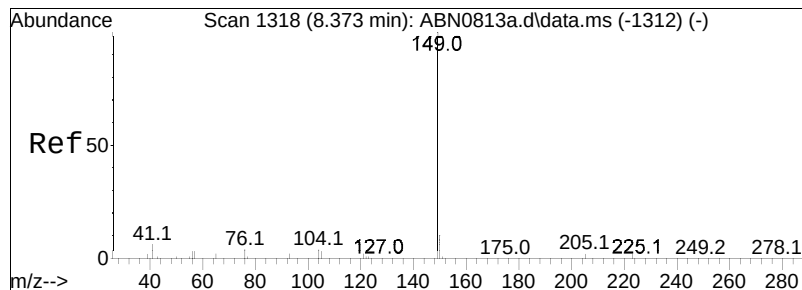




#91  
 Carbazole  
 Concen: 39.25 ug/ml  
 RT: 7.535 min Scan# 1236  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

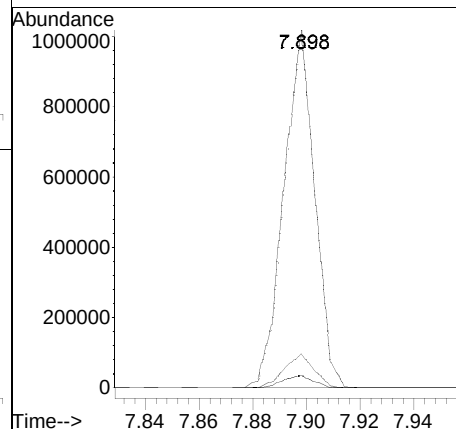
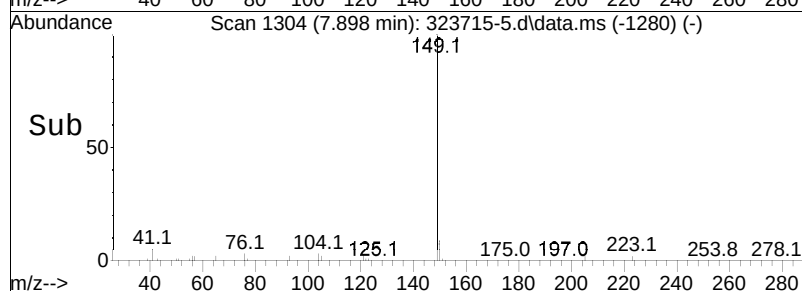
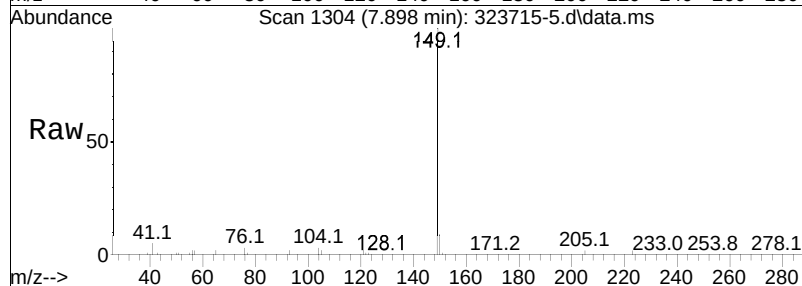
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 708187 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 168       | 14.2  | 11.3  | 16.9   |
| 166       | 23.3  | 17.8  | 26.8   |

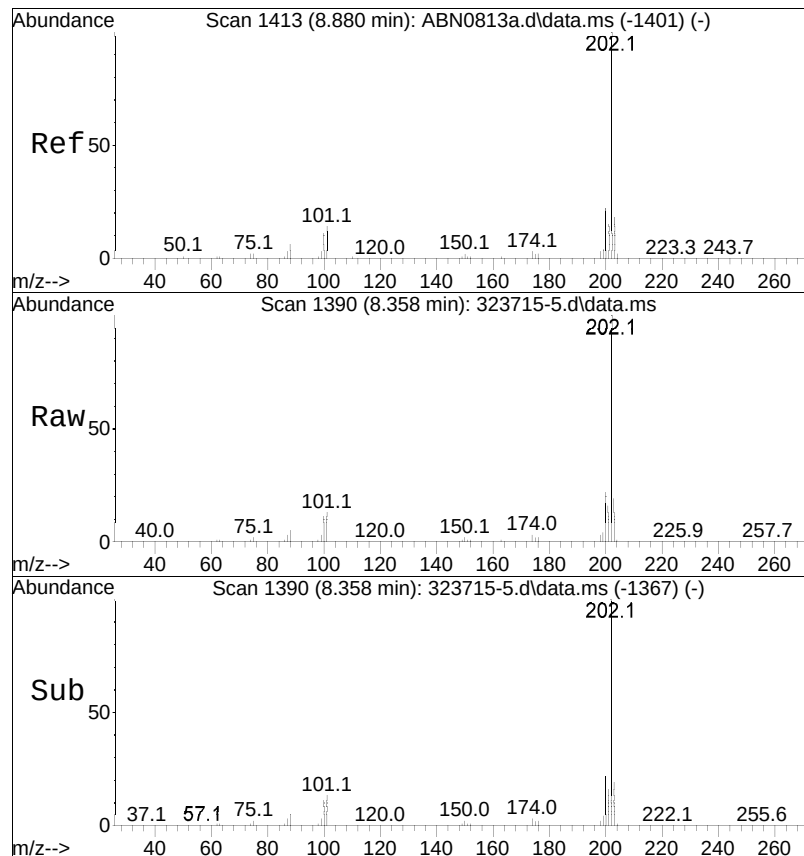




#92  
 Di-n-butylphthalate  
 Concen: 40.60 ug/ml  
 RT: 7.898 min Scan# 1304  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

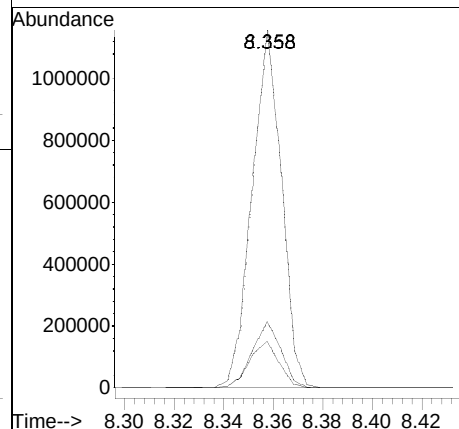
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 799546 |       |       |
| 150     | 9.2   |        | 7.4   | 11.2  |
| 104     | 3.6   |        | 3.8   | 5.8   |

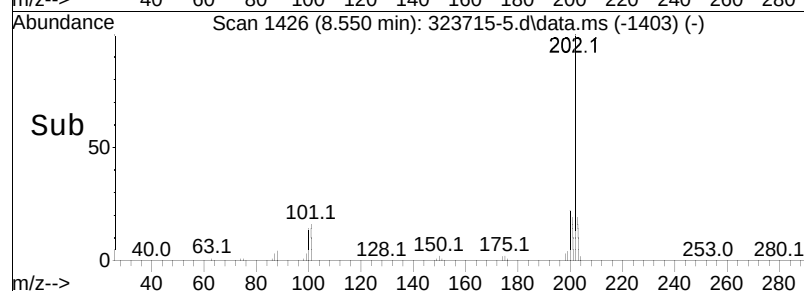
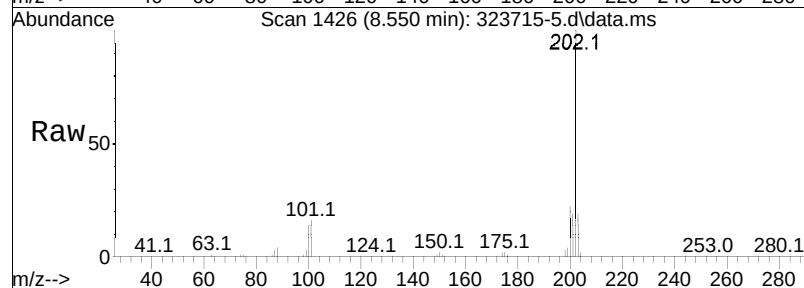
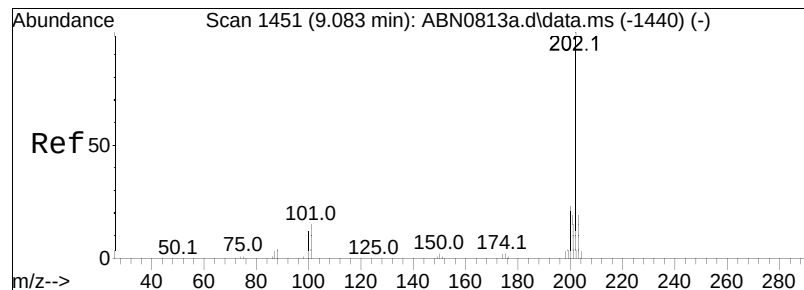




#93  
 Fluoranthene  
 Concen: 40.53 ug/ml  
 RT: 8.358 min Scan# 1390  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

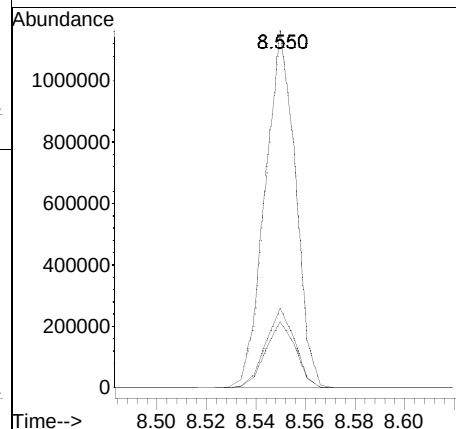
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:202 | Resp: | 942929 |
| Ion | Ratio   | Lower | Upper  |
| 202 | 100     |       |        |
| 101 | 13.2    | 12.6  | 19.0   |
| 203 | 18.2    | 14.4  | 21.6   |

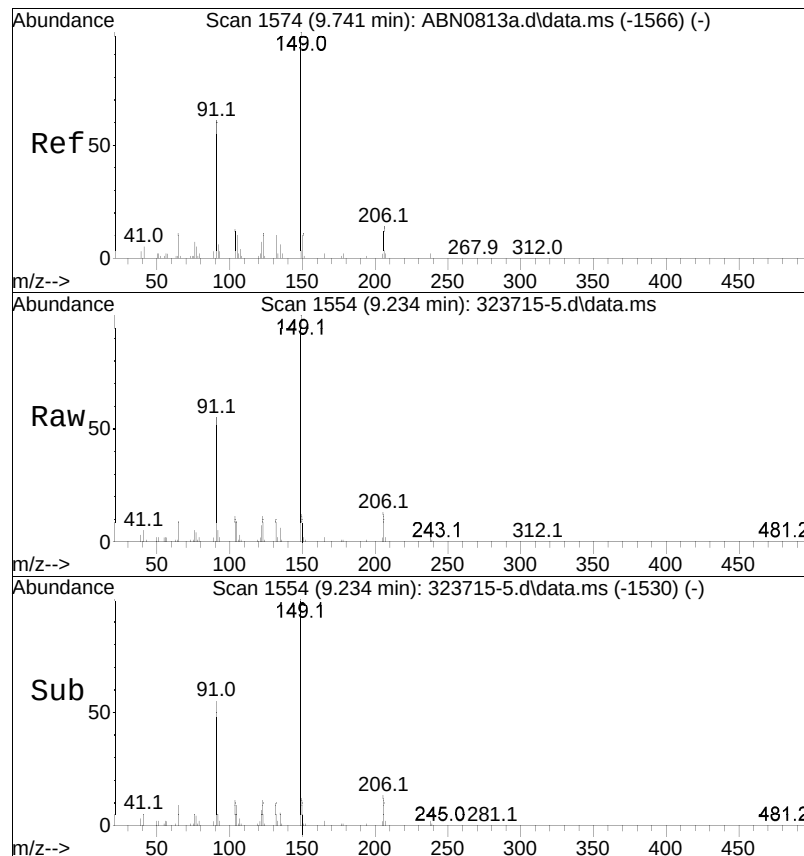




#95  
 Pyrene  
 Concen: 38.98 ug/ml  
 RT: 8.550 min Scan# 1426  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

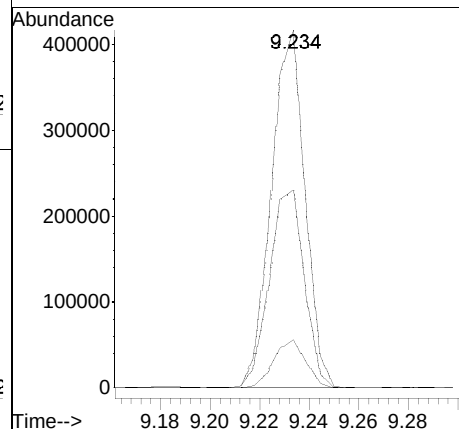
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.7  | 17.2  | 25.8  |
| 203     | 18.5  | 15.0  | 22.6  |



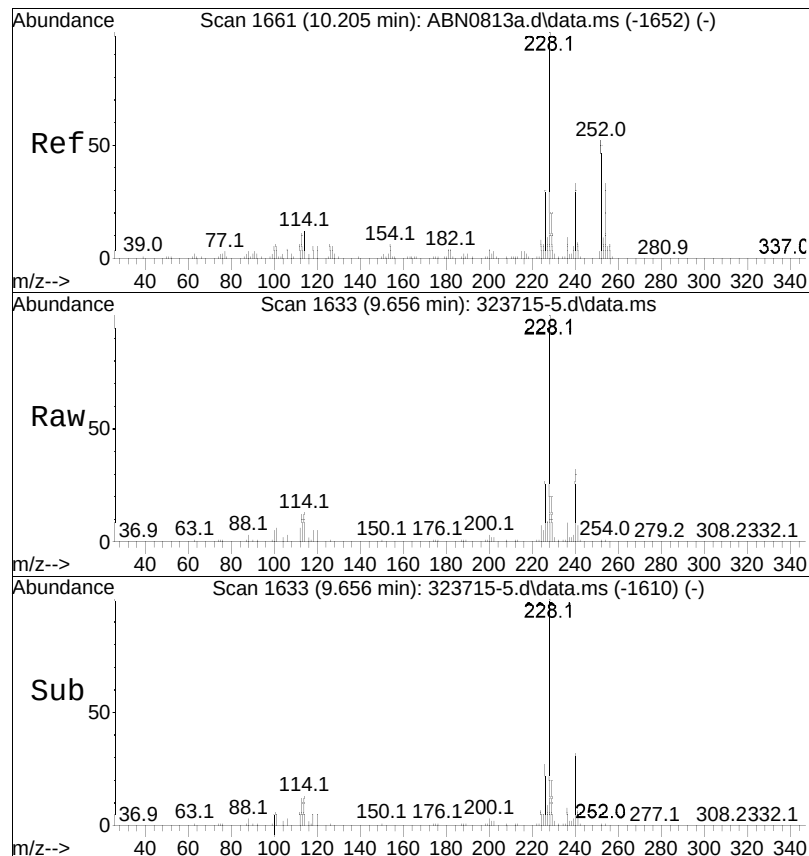


#97  
 Butyl benzyl phthalate  
 Concen: 41.73 ug/ml  
 RT: 9.234 min Scan# 1554  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 388434 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 91        | 57.7  | 53.4  | 80.2   |
| 206       | 13.1  | 13.3  | 19.9#  |

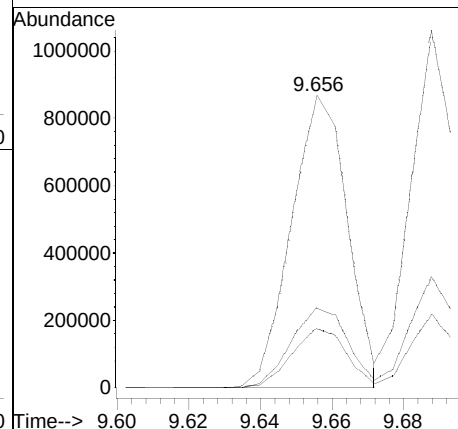


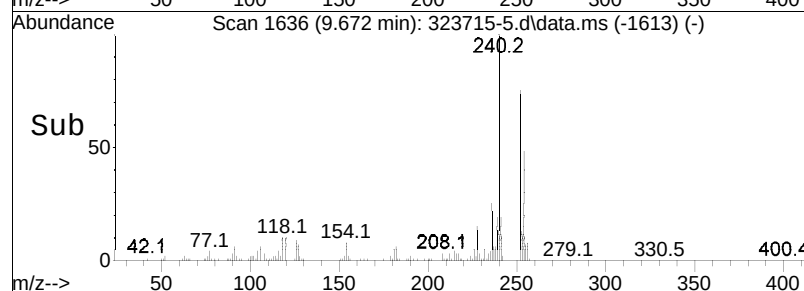
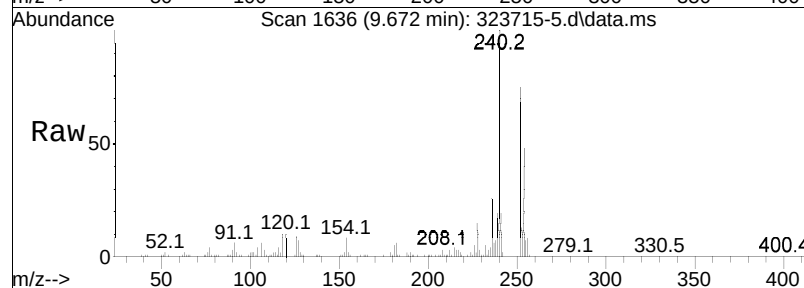
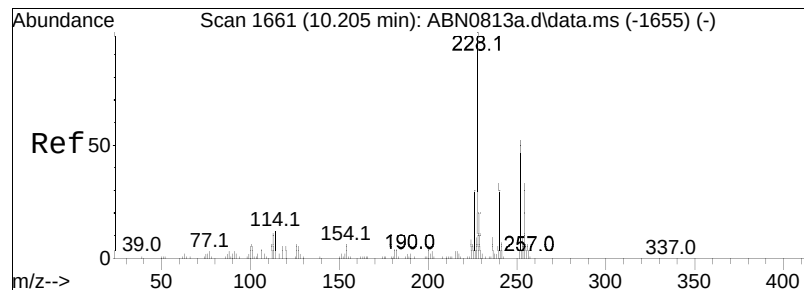




#105  
 Benzo(a)anthracene  
 Concen: 39.84 ug/ml  
 RT: 9.656 min Scan# 1633  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

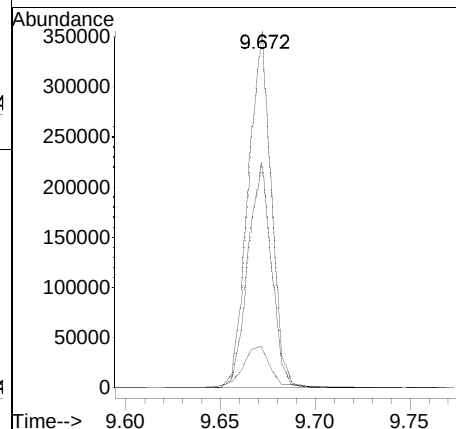
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:228 | Resp: | 944378 |
| Ion | Ratio   | Lower | Upper  |
| 228 | 100     |       |        |
| 226 | 28.2    | 22.9  | 34.3   |
| 229 | 20.1    | 16.1  | 24.1   |

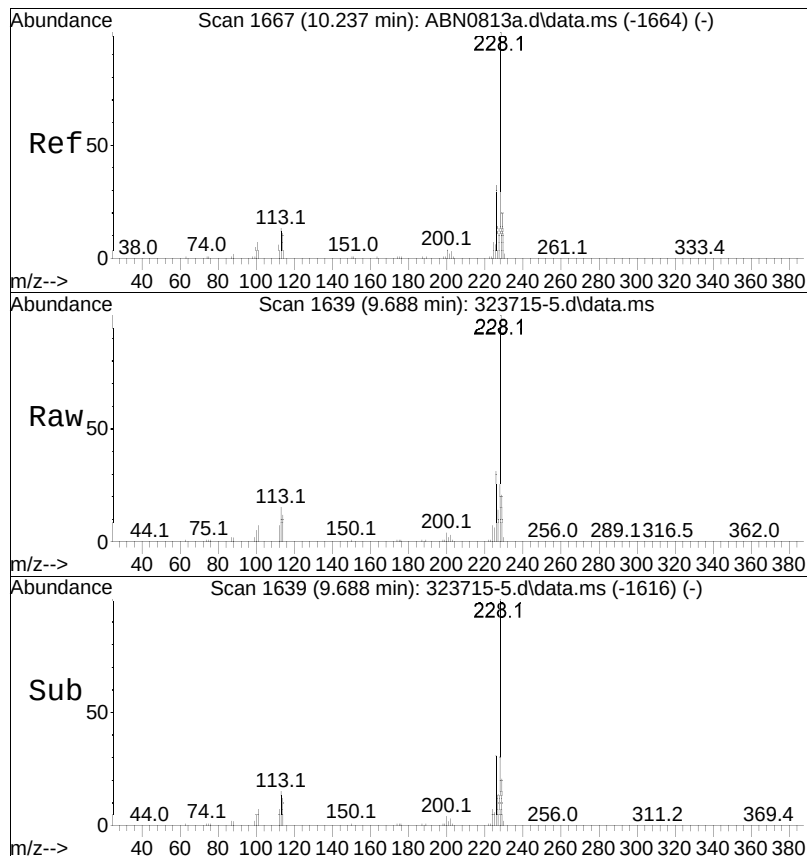




#106  
 3,3'-Dichlorobenzidine  
 Concen: 33.70 ug/ml  
 RT: 9.672 min Scan# 1636  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

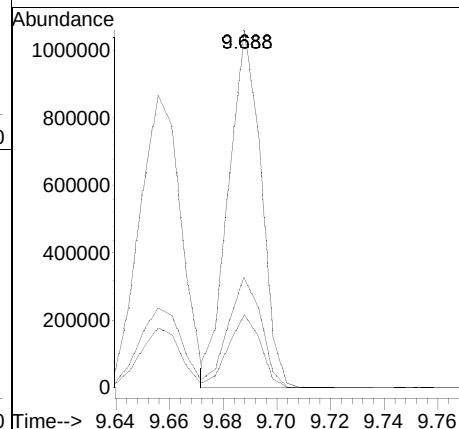
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 300776 |       |       |
| 126 | 14.1 | 13.4  |        | 20.0  |       |
| 254 | 64.4 | 52.8  |        | 79.2  |       |

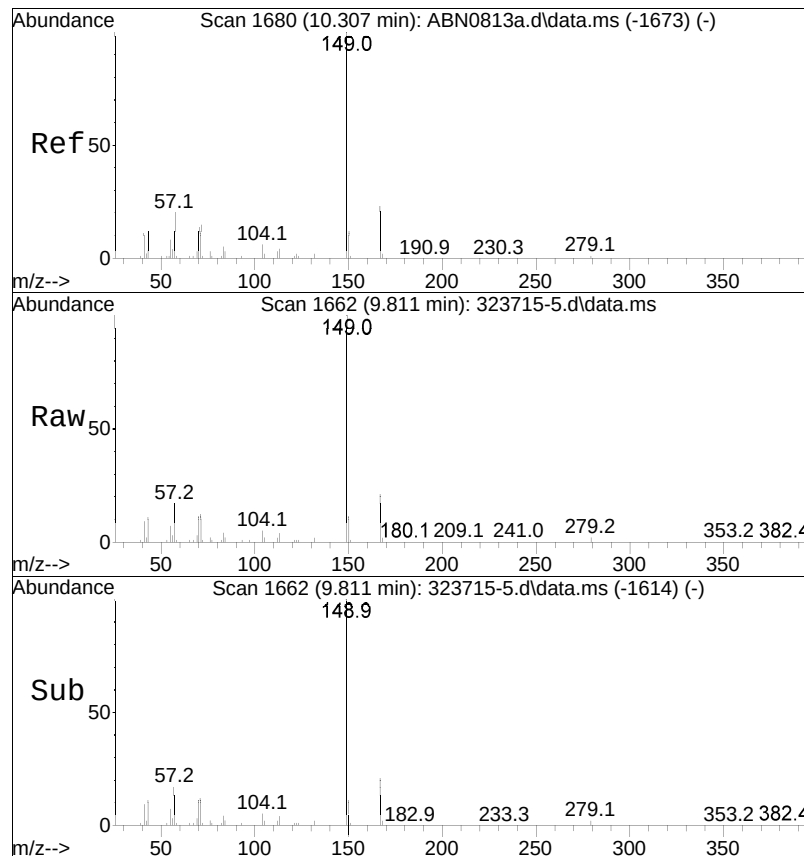




#107  
 Chrysene  
 Concen: 35.46 ug/ml  
 RT: 9.688 min Scan# 1639  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

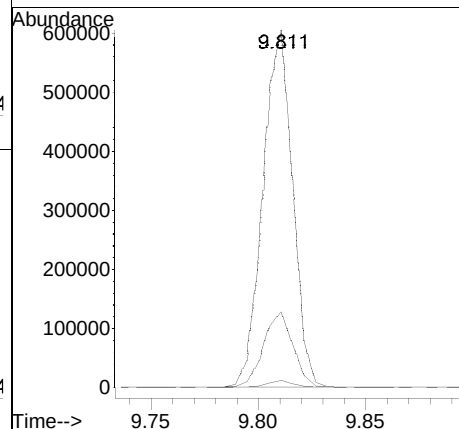
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.4  | 24.9  | 37.3  |
| 229     | 20.2  | 16.6  | 24.8  |

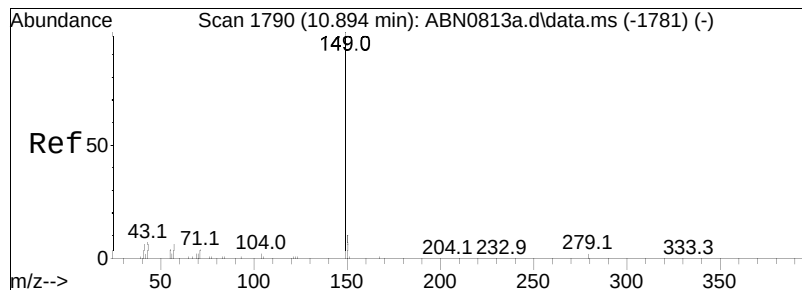




#108  
 Bis(2-ethylhexyl)phthalate  
 Concen: 37.61 ug/ml  
 RT: 9.811 min Scan# 1662  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

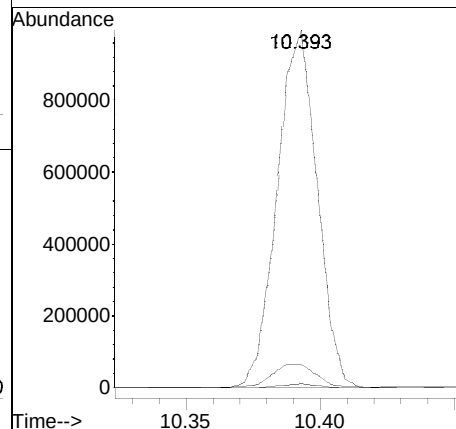
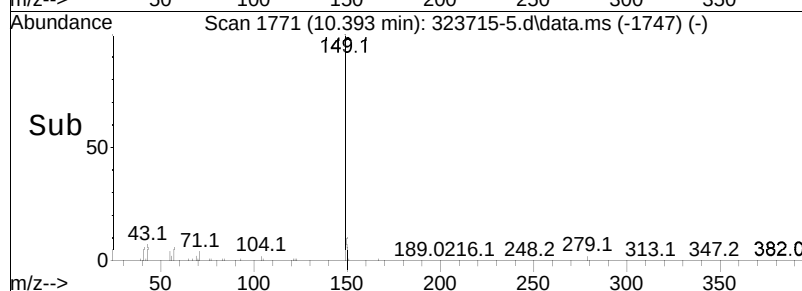
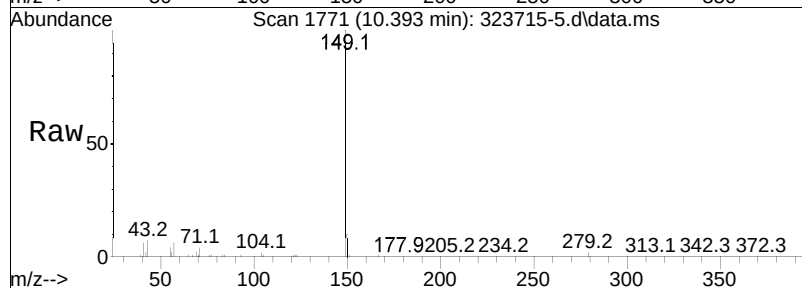
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 573342 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 21.3  | 21.2  | 31.8   |
| 279       | 1.6   | 3.8   | 5.6#   |

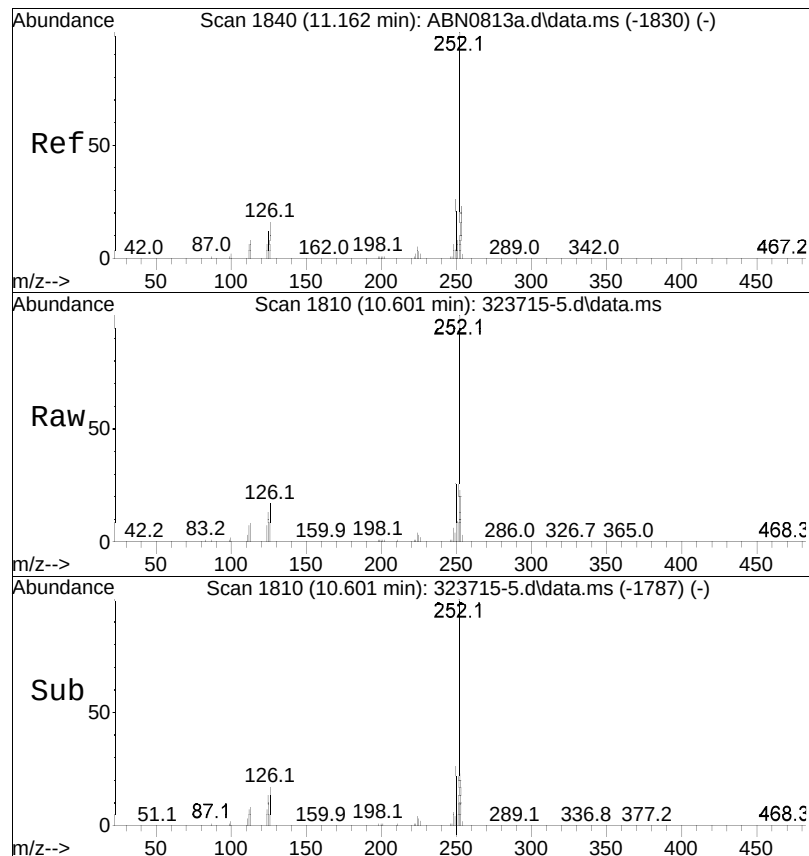




#109  
 Di-n-octylphthalate  
 Concen: 41.92 ug/ml  
 RT: 10.393 min Scan# 1771  
 Delta R.T. 0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

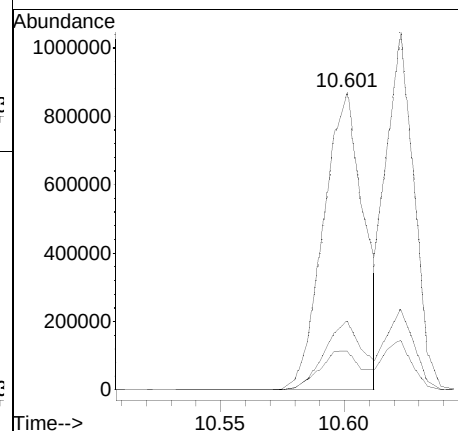
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 43      | 7.0   | 8.0   | 12.0# |
| 167     | 1.2   | 1.0   | 1.6   |

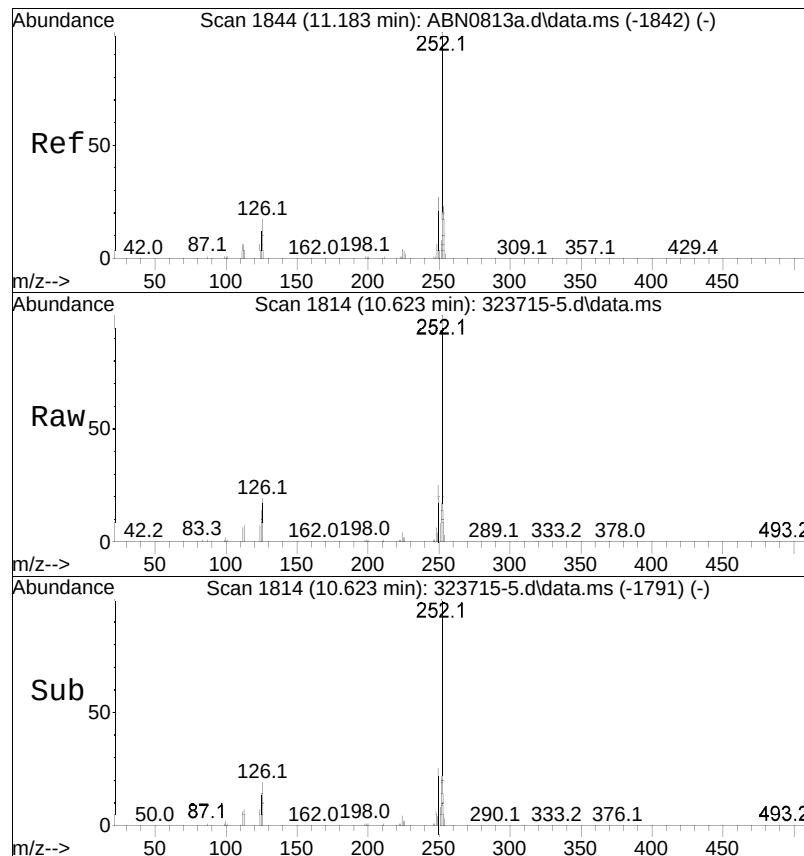




#110  
 Benzo(b)fluoranthene  
 Concen: 38.61 ug/ml  
 RT: 10.601 min Scan# 1810  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

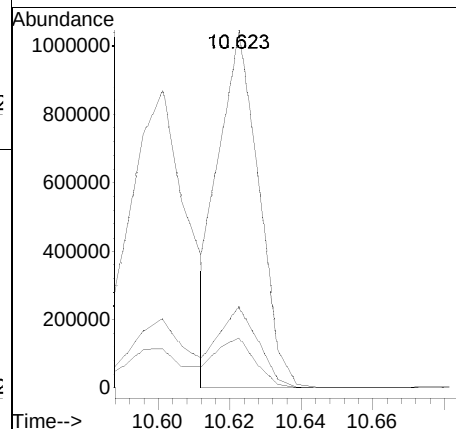
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 1004617 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 125       | 12.4  | 12.6  | 18.8#   |
| 253       | 22.4  | 18.2  | 27.2    |

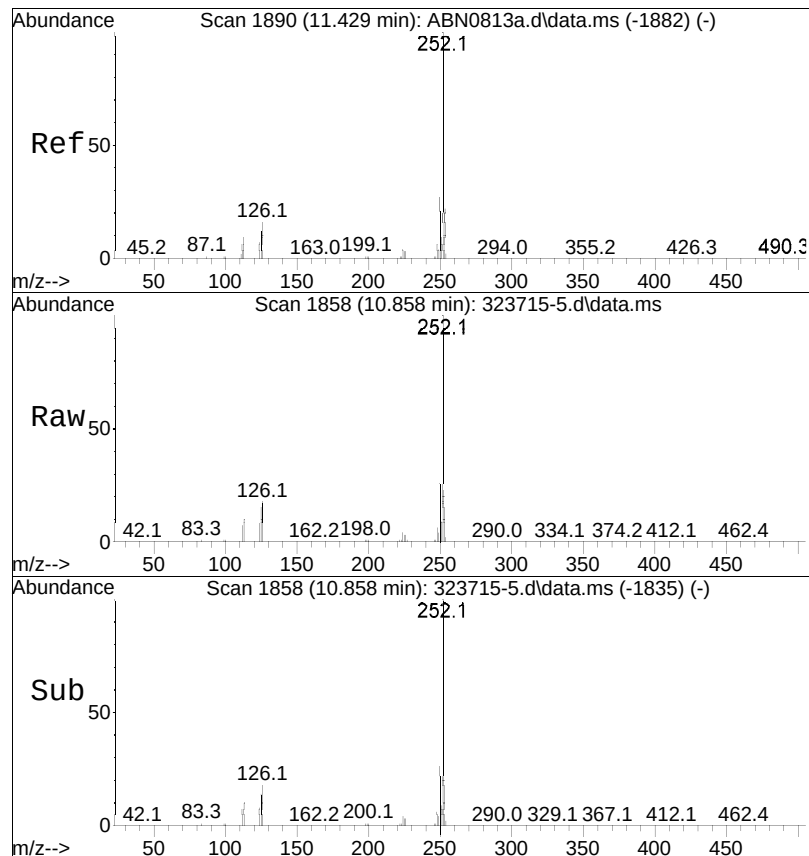




#111  
 Benzo(k)fluoranthene  
 Concen: 32.57 ug/ml  
 RT: 10.623 min Scan# 1814  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

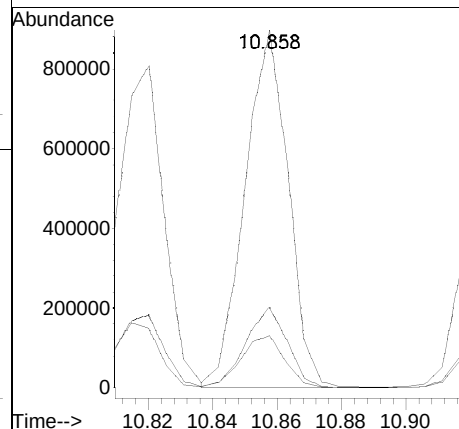
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 798616 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 125       | 15.9  | 12.1  | 18.1   |
| 253       | 22.4  | 18.1  | 27.1   |



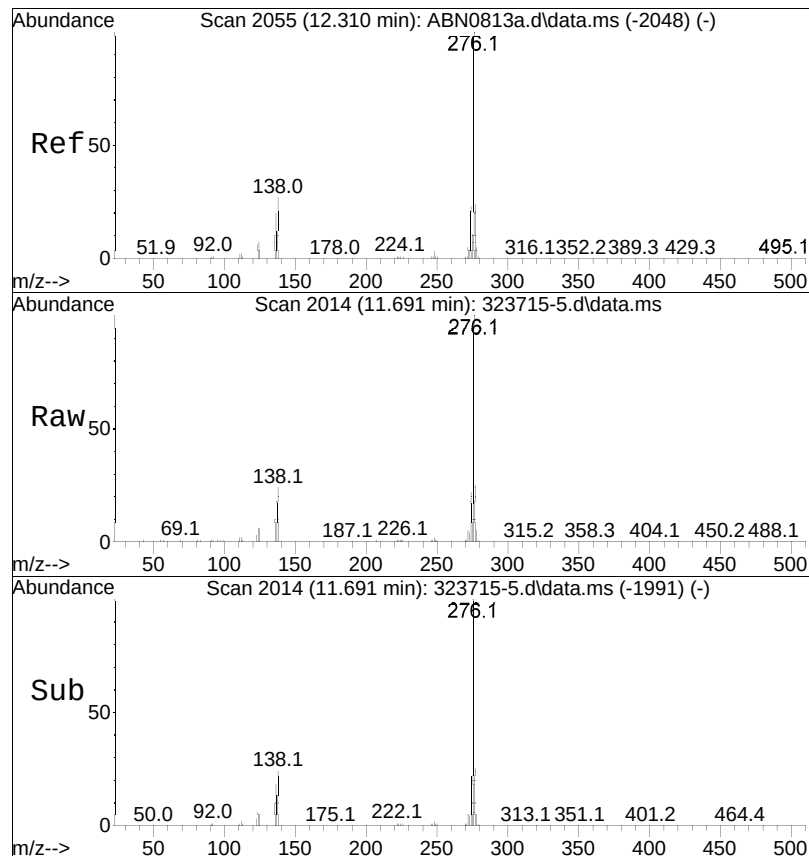


#112  
 Benzo(a)pyrene  
 Concen: 33.65 ug/ml  
 RT: 10.858 min Scan# 1858  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 252 | 100  |       | 834111 |       |       |
| 125 | 14.7 | 13.3  |        | 19.9  |       |
| 253 | 21.8 | 18.2  |        | 27.4  |       |

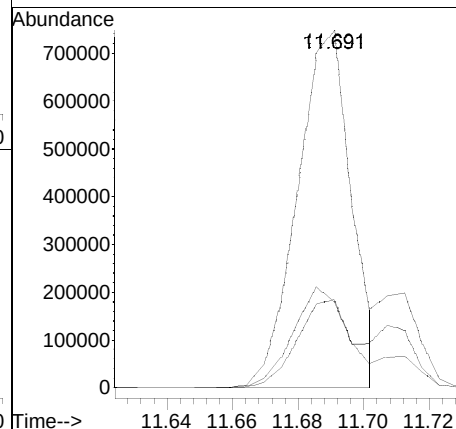


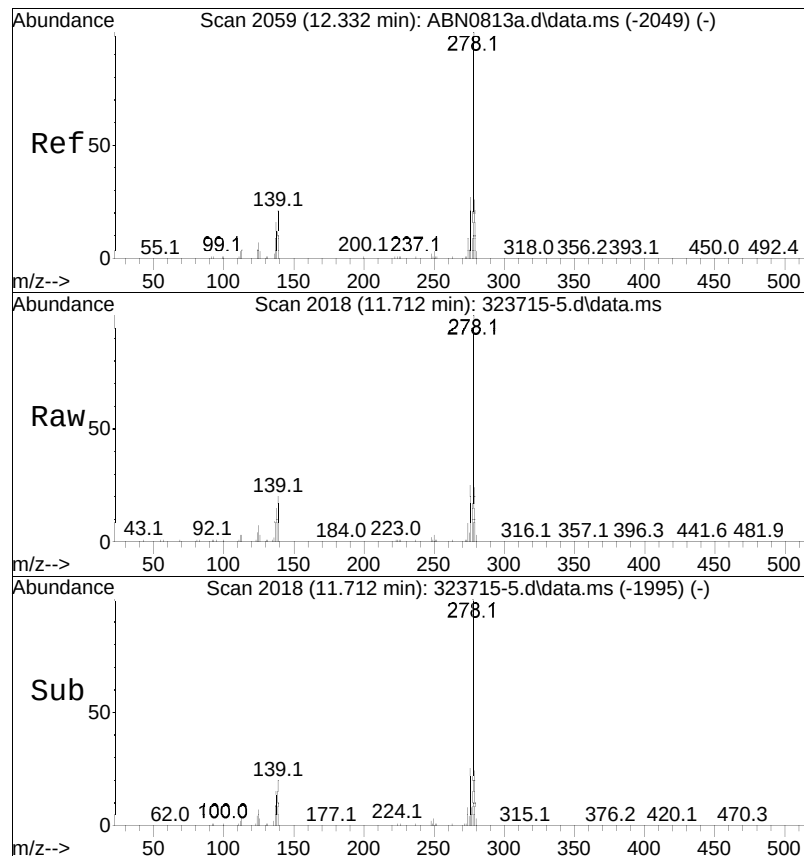




#114  
 Indeno(1,2,3-cd)pyrene  
 Concen: 40.48 ug/mL M3  
 RT: 11.691 min Scan# 2014  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

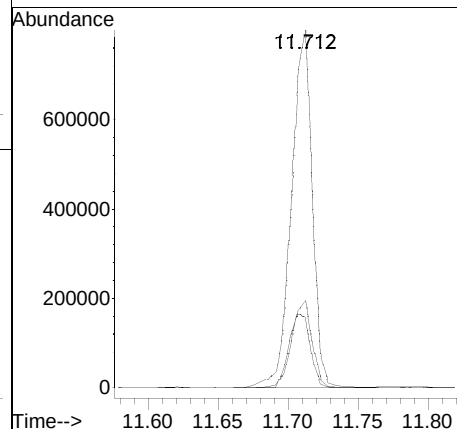
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 853183 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 30.4  | 26.7  | 40.1   |
| 277       | 31.7  | 20.4  | 30.6#  |

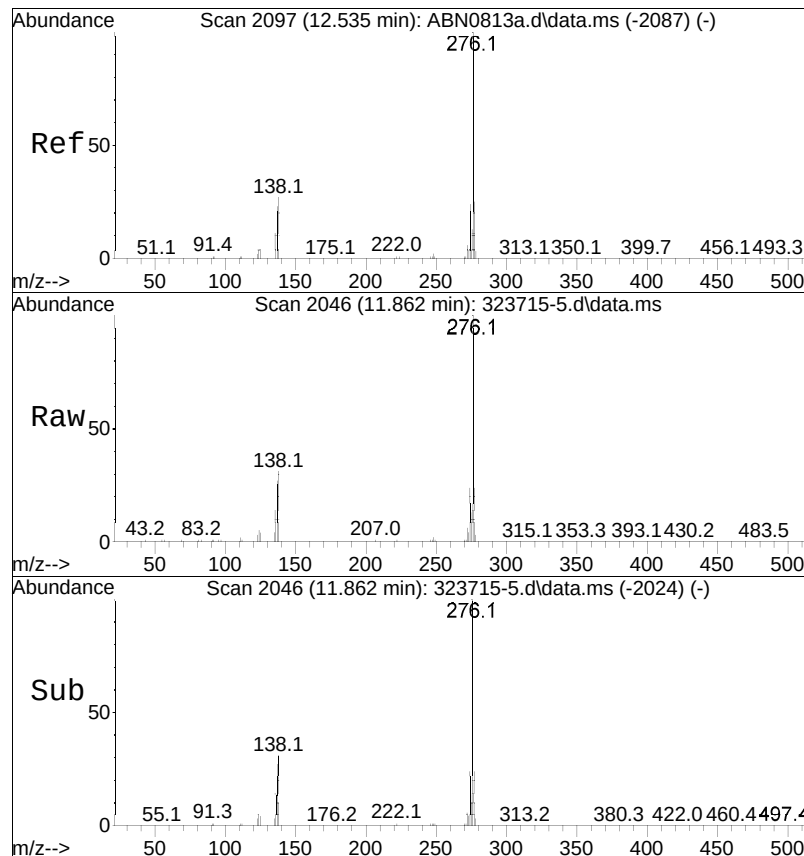




#115  
 Dibenzo(a,h)anthracene  
 Concen: 39.40 ug/ml  
 RT: 11.712 min Scan# 2018  
 Delta R.T. 0.000 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

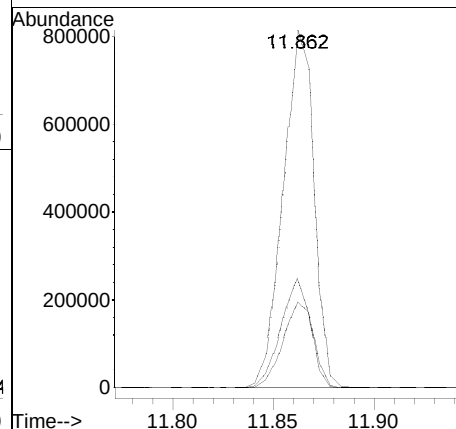
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:278 | Resp: | 816526 |
| Ion | Ratio   | Lower | Upper  |
| 278 | 100     |       |        |
| 139 | 21.4    | 18.2  | 27.4   |
| 279 | 24.2    | 19.3  | 28.9   |





#116  
 Benzo(ghi)perylene  
 Concen: 38.06 ug/ml  
 RT: 11.862 min Scan# 2046  
 Delta R.T. -0.005 min  
 Lab File: 323715-5.d  
 Acq: 24 Dec 2019 7:04 am

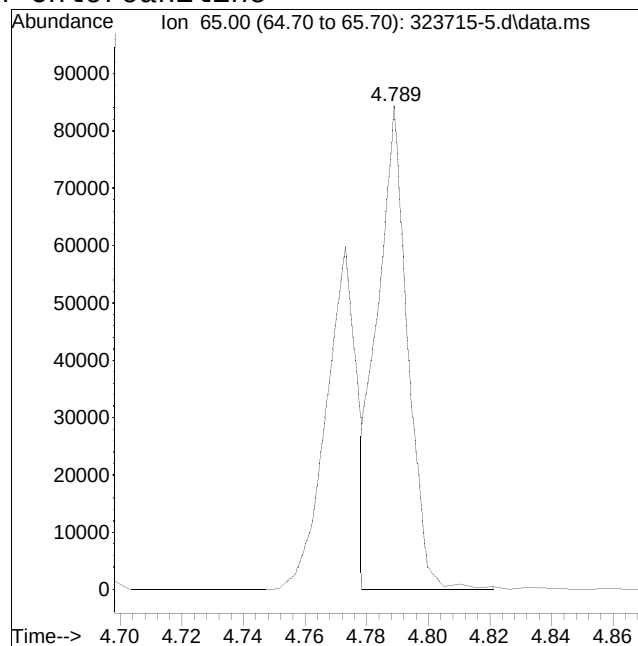
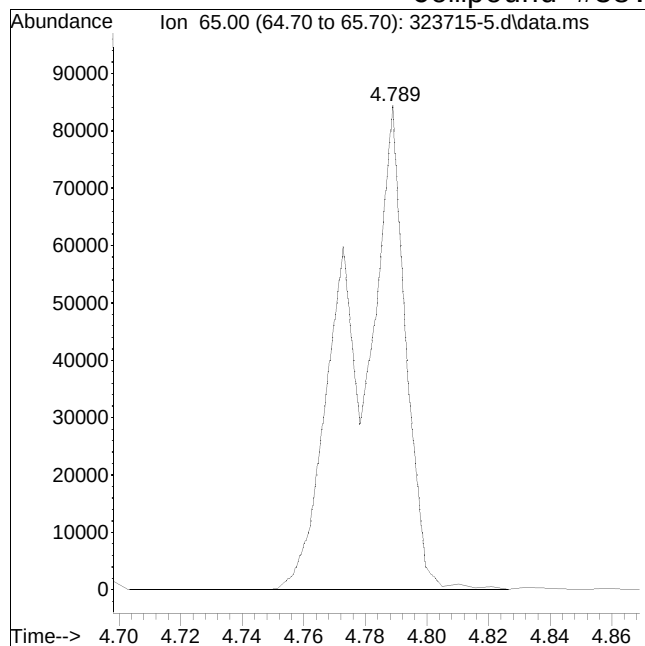
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 858041 |       |       |
| 138     | 29.3  |        | 26.1  | 39.1  |
| 277     | 24.3  |        | 19.4  | 29.0  |



# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 323715-5.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 7:04 am Instrument : GCMS5  
Sample : wg1323715-5,32,,ny,ask Quant Date : 12/26/2019 11:54 am

## Compound #38: 4-Chloroaniline



Original Peak Response = 99576

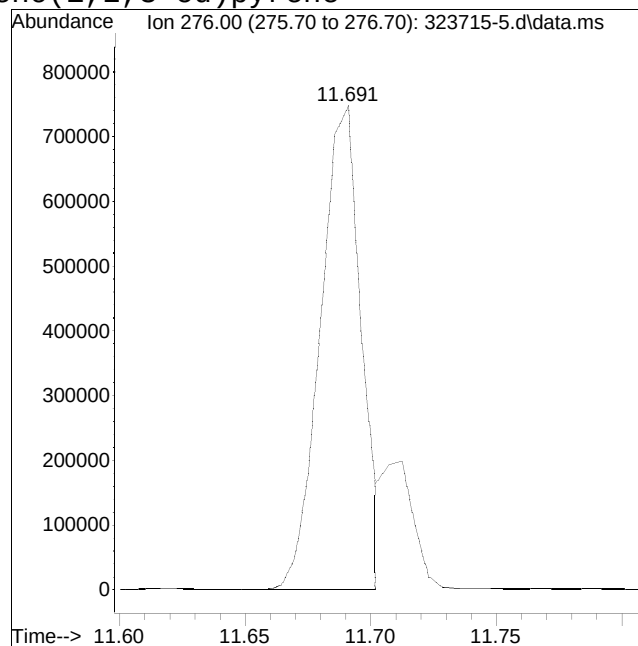
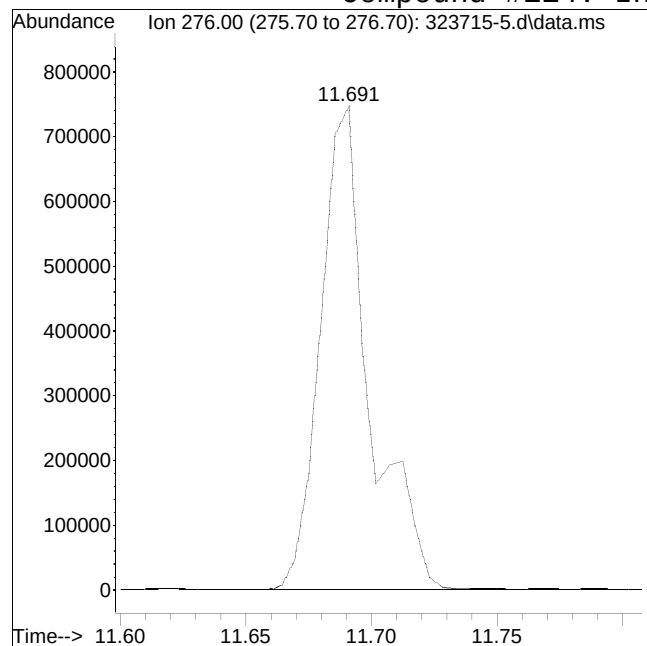
Manual Peak Response = 55305 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

# Manual Integration Report

Data Path : I:\8270\GCMS5\191223n\ QMethod : FS190609gcms5.m  
Data File : 323715-5.d Operator : gcms5:ek  
Date Inj'd : 12/24/2019 7:04 am Instrument : GCMS5  
Sample : wg1323715-5,32,,ny,ask Quant Date : 12/26/2019 11:54 am

## Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1016840

Manual Peak Response = 853183 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.



## Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula:  $Amt * DF * 1000 * (1/V_o) * V_f$

Where:

DF = Dilution Factor

$V_o$  = Volume of Sample (mL)

$V_f$  = Extraction Lab Final Volume (mL)

Soil Concentration Formula:  $Amt * DF * 1000 * (1/W_t) * V_f * (100/TS)$

Where:

DF = Dilution Factor

$W_t$  = Weight of Sample (g)

$V_f$  = Extraction Lab Final Volume (mL)

TS = Total Solids



## ALPHA ANALYTICAL LABORATORIES, INC.

## Alpha WORK GROUP REPORT (wk02)

Dec 30 2019, 08:28 am

Work Group: WG1323715 for Department: 2 Organic Preparation

Created: 22-DEC-19 Due: Operator: MKL

| Sample      | Client ID              | C Product    | Matrix | Stat | UA | HOLD | DUE  | PR | Location    |
|-------------|------------------------|--------------|--------|------|----|------|------|----|-------------|
| L1961284-01 | TANK-EAST-122019 (10') | S NYTCL-8270 | SOIL   | DONE | U  | 0103 | 1230 | S0 | Glass-A.120 |
| L1961284-02 | TANK-BOT-122019 (11')  | S NYTCL-8270 | SOIL   | DONE | U  | 0103 | 1230 | S0 | Glass-A.120 |
| L1961284-03 | TANK-WEST-122019 (8')  | S NYTCL-8270 | SOIL   | DONE | U  | 0103 | 1230 | S0 | Glass-A.120 |
| L1961284-04 | TANK-SOUTH-122019 (8') | S NYTCL-8270 | SOIL   | DONE | U  | 0103 | 1230 | S0 | Glass-A.120 |
| L1961284-05 | TANK-NORTH-122019 (8') | S NYTCL-8270 | SOIL   | DONE | U  | 0103 | 1230 | S0 | Glass-A.120 |
| L1961284-06 | DUP-01-122019          | S NYTCL-8270 | SOIL   | DONE | U  | 0103 | 1230 | S0 | Glass-A.120 |
| WG1323715-1 | Laboratory Method Bl   | S NYTCL-8270 | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-1 | Laboratory Method Bl   | S NYCP51-PAH | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-2 | Laboratory Control S   | S NYCP51-PAH | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-2 | Laboratory Control S   | S NYTCL-8270 | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-3 | LCS Duplicate          | S NYCP51-PAH | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-3 | LCS Duplicate          | S NYTCL-8270 | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-4 | Matrix Spike           | S NYTCL-8270 | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-4 | Matrix Spike           | S NYCP51-PAH | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-5 | Matrix Spike Duplica   | S NYTCL-8270 | SOIL   | DONE | U  |      |      |    |             |
| WG1323715-5 | Matrix Spike Duplica   | S NYCP51-PAH | SOIL   | DONE | U  |      |      |    |             |
| Comments:   |                        |              |        |      |    |      |      |    |             |
| WG1323715-3 | WG1323715-2            |              |        |      |    |      |      |    |             |
| WG1323715-4 | L1961284-05            |              |        |      |    |      |      |    |             |
| WG1323715-5 | L1961284-05            |              |        |      |    |      |      |    |             |

## Analysis log File

Total Files Reported in Log : 35  
 Log Generated From Directory: I:\8270\GCMS5\190609ical\

| No. | DATA FILE | INJ METH  | SAMPLE NAME             | MISC        | DATE      | INJ'D    |
|-----|-----------|-----------|-------------------------|-------------|-----------|----------|
| 1   | Tune1.d   | ABNFAST.M | Tune1                   | wg1246641,, | 6/9/2019  | 2:11 pm  |
| 2   | ABNL10.d  | ABNFAST.M | IL1,32,,ABNL200 Lot# 80 | wg1246641,, | 6/9/2019  | 2:39 pm  |
| 3   | ABNL9.d   | ABNFAST.M | IL2,32,,ABNL150 Lot# 80 | wg1246641,, | 6/9/2019  | 3:04 pm  |
| 4   | ABNL8.d   | ABNFAST.M | IL3,32,,ABNL100 Lot# 80 | wg1246641,, | 6/9/2019  | 3:30 pm  |
| 5   | ABNL7.d   | ABNFAST.M | IL4,32,,ABNL50 Lot# 806 | wg1246641,, | 6/9/2019  | 3:56 pm  |
| 6   | ABNL6.d   | ABNFAST.M | IL5,32,,ABNL20 Lot# 806 | wg1246641,, | 6/9/2019  | 4:22 pm  |
| 7   | ABNL5.d   | ABNFAST.M | IL6,32,,ABNL10 Lot# 806 | wg1246641,, | 6/9/2019  | 4:47 pm  |
| 8   | ABNL4.d   | ABNFAST.M | IL7,32,,ABNL5 Lot# 8060 | wg1246641,, | 6/9/2019  | 5:13 pm  |
| 9   | ABNL3.d   | ABNFAST.M | IL8,32,,ABNL3 Lot# 8059 | wg1246641,, | 6/9/2019  | 5:39 pm  |
| 10  | ABNL2.d   | ABNFAST.M | IL9,32,,ABNL2 Lot# 8058 | wg1246641,, | 6/9/2019  | 6:05 pm  |
| 11  | ABNL1.d   | ABNFAST.M | IL10,32,,ABNL1 Lot# 805 | wg1246641,, | 6/9/2019  | 6:30 pm  |
| 12  | AP9L10.d  | ABNFAST.M | IL11,32,,AP9L200 Lot# 8 | wg1246641,, | 6/9/2019  | 6:56 pm  |
| 13  | AP9L9.d   | ABNFAST.M | IL12,32,,AP9L150 Lot# 8 | wg1246641,, | 6/9/2019  | 7:22 pm  |
| 14  | AP9L8.d   | ABNFAST.M | IL13,32,,AP9L100 Lot# 8 | wg1246641,, | 6/9/2019  | 7:47 pm  |
| 15  | AP9L7.d   | ABNFAST.M | IL14,32,,AP9L50 Lot# 80 | wg1246641,, | 6/9/2019  | 8:13 pm  |
| 16  | AP9L6.d   | ABNFAST.M | IL15,32,,AP9L20 Lot# 80 | wg1246641,, | 6/9/2019  | 8:39 pm  |
| 17  | AP9L5.d   | ABNFAST.M | IL16,32,,AP9L10 Lot# 80 | wg1246641,, | 6/9/2019  | 9:05 pm  |
| 18  | AP9L4.d   | ABNFAST.M | IL17,32,,AP9L5 Lot# 807 | wg1246641,, | 6/9/2019  | 9:31 pm  |
| 19  | AP9L3.d   | ABNFAST.M | IL18,32,,AP9L3 Lot# 807 | wg1246641,, | 6/9/2019  | 9:56 pm  |
| 20  | AP9L2.d   | ABNFAST.M | IL19,32,,AP9L2 Lot# 806 | wg1246641,, | 6/9/2019  | 10:22 pm |
| 21  | AP9L1.d   | ABNFAST.M | IL20,32,,AP9L1 Lot# 806 | wg1246641,, | 6/9/2019  | 10:48 pm |
| 22  | ABNICV.d  | ABNFAST.M | CQICV1,32,,ABNICV Lot#  | wg1246641,, | 6/9/2019  | 11:14 pm |
| 23  | AP9ICV.d  | ABNFAST.M | CQICV2,32,,AP9ICV Lot#  | wg1246641,, | 6/9/2019  | 11:40 pm |
| 24  | ADPL9.d   | ABNFAST.M | IL22,32,,ADPL150 Lot# 8 | wg1246641,, | 6/10/2019 | 12:57 am |
| 25  | Tune 2.d  | ABNFAST.M | Tune2                   | wg1246641,, | 6/10/2019 | 12:05 am |
| 26  | ADPL10.d  | ABNFAST.M | IL21,32,,ADPL200 Lot# 8 | wg1246641,, | 6/10/2019 | 12:31 am |
| 27  | ADPL8.d   | ABNFAST.M | IL23,32,,ADPL100 Lot# 8 | wg1246641,, | 6/10/2019 | 1:22 am  |
| 28  | ADPL7.d   | ABNFAST.M | IL24,32,,ADPL50 Lot# 82 | wg1246641,, | 6/10/2019 | 1:48 am  |
| 29  | ADPL6.d   | ABNFAST.M | IL25,32,,ADPL20 Lot# 82 | wg1246641,, | 6/10/2019 | 2:14 am  |
| 30  | ADPL5.d   | ABNFAST.M | IL26,32,,ADPL10 Lot# 82 | wg1246641,, | 6/10/2019 | 2:39 am  |
| 31  | ADPL4.d   | ABNFAST.M | IL27,32,,ADPL5 Lot# 823 | wg1246641,, | 6/10/2019 | 3:05 am  |
| 32  | ADPL3.d   | ABNFAST.M | IL28,32,,ADPL3 Lot# 823 | wg1246641,, | 6/10/2019 | 3:31 am  |
| 33  | ADPL2.d   | ABNFAST.M | IL29,32,,ADPL2 Lot# 823 | wg1246641,, | 6/10/2019 | 3:57 am  |
| 34  | ADPL1.d   | ABNFAST.M | IL29,32,,ADPL0.5 Lot# 8 | wg1246641,, | 6/10/2019 | 4:22 am  |
| 35  | ADPICV.d  | ABNFAST.M | CQICV3,32,,ADPICV Lot#  | wg1246641,, | 6/10/2019 | 4:48 am  |



## Analysis log File

Total Files Reported in Log : 35  
 Log Generated From Directory: I:\8270\Buffy\191006ical\

| No. | DATA FILE | INJ METH  | SAMPLE NAME             | MISC        | DATE      | INJ'D    |
|-----|-----------|-----------|-------------------------|-------------|-----------|----------|
| 1   | Tune 1.D  | ABNFAST.M | Tune 1                  | wg1293206,, | 10/6/2019 | 5:36 pm  |
| 2   | ABNL10.D  | ABNFAST.M | IL1,32,,ABNL200 Lot#836 | wg1293206,, | 10/6/2019 | 6:00 pm  |
| 3   | ABNL9.D   | ABNFAST.M | IL2,32,,ABNL150 Lot#837 | wg1293206,, | 10/6/2019 | 6:23 pm  |
| 4   | ABNL8.D   | ABNFAST.M | IL3,32,,ABNL100 Lot#837 | wg1293206,, | 10/6/2019 | 6:46 pm  |
| 5   | ABNL7.D   | ABNFAST.M | IL4,32,,ABNL50 Lot#8373 | wg1293206,, | 10/6/2019 | 7:09 pm  |
| 6   | ABNL6.D   | ABNFAST.M | IL5,32,,ABNL20 Lot#8372 | wg1293206,, | 10/6/2019 | 7:32 pm  |
| 7   | ABNL5.D   | ABNFAST.M | IL6,32,,ABNL10 Lot#8371 | wg1293206,, | 10/6/2019 | 7:55 pm  |
| 8   | ABNL4.D   | ABNFAST.M | IL7,32,,ABNL5 Lot#8370  | wg1293206,, | 10/6/2019 | 8:18 pm  |
| 9   | ABNL3.D   | ABNFAST.M | IL8,32,,ABNL3 Lot#8369  | wg1293206,, | 10/6/2019 | 8:42 pm  |
| 10  | ABNL2.D   | ABNFAST.M | IL9,32,,ABNL2 Lot#8368  | wg1293206,, | 10/6/2019 | 9:05 pm  |
| 11  | ABNL1.D   | ABNFAST.M | IL10,32,,ABNL1 Lot#8367 | wg1293206,, | 10/6/2019 | 9:28 pm  |
| 12  | AP9L10.D  | ABNFAST.M | IL11,32,,AP9L200 Lot#83 | wg1293206,, | 10/6/2019 | 9:51 pm  |
| 13  | AP9L9.D   | ABNFAST.M | IL12,32,,AP9L150 Lot#83 | wg1293206,, | 10/6/2019 | 10:14 pm |
| 14  | AP9L8.D   | ABNFAST.M | IL13,32,,AP9L100 Lot#83 | wg1293206,, | 10/6/2019 | 10:37 pm |
| 15  | AP9L7.D   | ABNFAST.M | IL14,32,,AP9L50 Lot#836 | wg1293206,, | 10/6/2019 | 11:00 pm |
| 16  | AP9L6.D   | ABNFAST.M | IL15,32,,AP9L20 Lot#836 | wg1293206,, | 10/6/2019 | 11:23 pm |
| 17  | AP9L5.D   | ABNFAST.M | IL16,32,,AP9L10 Lot#836 | wg1293206,, | 10/6/2019 | 11:46 pm |
| 18  | AP9L2.D   | ABNFAST.M | IL19,32,,AP9L2 Lot#8357 | wg1293206,, | 10/7/2019 | 12:55 am |
| 19  | AP9L4.D   | ABNFAST.M | IL17,32,,AP9L5 Lot#8359 | wg1293206,, | 10/7/2019 | 12:09 am |
| 20  | AP9L3.D   | ABNFAST.M | IL18,32,,AP9L3 Lot#8358 | wg1293206,, | 10/7/2019 | 12:32 am |
| 21  | AP9L1.D   | ABNFAST.M | IL20,32,,AP9L1 Lot#8356 | wg1293206,, | 10/7/2019 | 1:18 am  |
| 22  | ABNICV.D  | ABNFAST.M | CQICV1,32,,ABN ICV Lot# | wg1293206,, | 10/7/2019 | 1:41 am  |
| 23  | AP9ICV.D  | ABNFAST.M | CQICV2,32,,AP9 ICV Lot# | wg1293206,, | 10/7/2019 | 2:05 am  |
| 24  | Tune 2.D  | ABNFAST.M | Tune 2                  | wg1293206,, | 10/7/2019 | 7:39 am  |
| 25  | ADPL10.D  | ABNFAST.M | IL21,32,,ADPL200 Lot#83 | wg1293206,, | 10/7/2019 | 8:02 am  |
| 26  | ADPL9.D   | ABNFAST.M | IL22,32,,ADPL150 Lot#83 | wg1293206,, | 10/7/2019 | 8:25 am  |
| 27  | ADPL8.D   | ABNFAST.M | IL23,32,,ADPL100 Lot#83 | wg1293206,, | 10/7/2019 | 8:48 am  |
| 28  | ADPL7.D   | ABNFAST.M | IL24,32,,ADPL50 Lot#835 | wg1293206,, | 10/7/2019 | 9:11 am  |
| 29  | ADPL6.D   | ABNFAST.M | IL25,32,,ADPL20 Lot#835 | wg1293206,, | 10/7/2019 | 9:35 am  |
| 30  | ADPL5.D   | ABNFAST.M | IL26,32,,ADPL10 Lot#834 | wg1293206,, | 10/7/2019 | 9:58 am  |
| 31  | ADPL4.D   | ABNFAST.M | IL27,32,,ADPL5 Lot#8348 | wg1293206,, | 10/7/2019 | 10:21 am |
| 32  | ADPL3.D   | ABNFAST.M | IL28,32,,ADPL3 Lot#8347 | wg1293206,, | 10/7/2019 | 10:44 am |
| 33  | ADPL2.D   | ABNFAST.M | IL29,32,,ADPL2 Lot#8346 | wg1293206,, | 10/7/2019 | 11:07 am |
| 34  | ADPL1.D   | ABNFAST.M | IL30,32,,ADPL0.5 Lot#83 | wg1293206,, | 10/7/2019 | 11:31 am |
| 35  | ADPICV.D  | ABNFAST.M | CQICV3,32,,ADPICV Lot#  | wg1293206,, | 10/7/2019 | 11:54 am |

## Analysis log File

Total Files Reported in Log : 38  
 Log Generated From Directory: I:\8270\SV103\191201ical\

| No. | DATA FILE   | INJ METH    | SAMPLE NAME             | MISC         | DATE      | INJ'D    |
|-----|-------------|-------------|-------------------------|--------------|-----------|----------|
| 1   | testtune1.d | ABN-SV103.M | testtune1               | SV103 191028 | 12/1/2019 | 9:50 am  |
| 2   | high.d      | ABN-SV103.M | abnhigh                 |              | 12/1/2019 | 10:14 am |
| 3   | low.d       | ABN-SV103.M | abnlow                  |              | 12/1/2019 | 10:38 am |
| 4   | Tune 1.d    | ABN-SV103.M | Tune1                   | WG1316163,,  | 12/1/2019 | 11:07 am |
| 5   | ABNL10.d    | ABN-SV103.M | IL1,32,,ABNL200 Lot#851 | WG1316163,,  | 12/1/2019 | 11:31 am |
| 6   | ABNL9.d     | ABN-SV103.M | IL2,32,,ABNL150 Lot#852 | WG1316163,,  | 12/1/2019 | 11:55 am |
| 7   | ABNL8.d     | ABN-SV103.M | IL3,32,,ABNL100 Lot#852 | WG1316163,,  | 12/1/2019 | 12:19 pm |
| 8   | ABNL7.d     | ABN-SV103.M | IL4,32,,ABNL50 Lot#8524 | WG1316163,,  | 12/1/2019 | 12:43 pm |
| 9   | ABNL6.d     | ABN-SV103.M | IL5,32,,ABNL20 Lot#8523 | WG1316163,,  | 12/1/2019 | 1:07 pm  |
| 10  | ABNL5.d     | ABN-SV103.M | IL6,32,,ABNL10 Lot#8522 | WG1316163,,  | 12/1/2019 | 1:31 pm  |
| 11  | ABNL4.d     | ABN-SV103.M | IL7,32,,ABNL5 Lot#8521  | WG1316163,,  | 12/1/2019 | 1:56 pm  |
| 12  | ABNL3.d     | ABN-SV103.M | IL8,32,,ABNL3 Lot#8520  | WG1316163,,  | 12/1/2019 | 2:20 pm  |
| 13  | ABNL2.d     | ABN-SV103.M | IL9,32,,ABNL2 Lot#8519  | WG1316163,,  | 12/1/2019 | 2:44 pm  |
| 14  | ABNL1.d     | ABN-SV103.M | IL10,32,,ABNL1 Lot#8518 | WG1316163,,  | 12/1/2019 | 3:08 pm  |
| 15  | AP9L10.d    | ABN-SV103.M | IL11,32,,AP9L200 Lot#85 | WG1316163,,  | 12/1/2019 | 3:32 pm  |
| 16  | AP9L9.d     | ABN-SV103.M | IL12,32,,AP9L150 Lot#85 | WG1316163,,  | 12/1/2019 | 3:57 pm  |
| 17  | AP9L8.d     | ABN-SV103.M | IL13,32,,AP9L100 Lot#85 | WG1316163,,  | 12/1/2019 | 4:21 pm  |
| 18  | AP9L7.d     | ABN-SV103.M | IL14,32,,AP9L50 Lot#851 | WG1316163,,  | 12/1/2019 | 4:45 pm  |
| 19  | AP9L6.d     | ABN-SV103.M | IL15,32,,AP9L20 Lot#851 | WG1316163,,  | 12/1/2019 | 5:09 pm  |
| 20  | AP9L5.d     | ABN-SV103.M | IL16,32,,AP9L10 Lot#851 | WG1316163,,  | 12/1/2019 | 5:33 pm  |
| 21  | AP9L4.d     | ABN-SV103.M | IL17,32,,AP9L5 Lot#8510 | WG1316163,,  | 12/1/2019 | 5:57 pm  |
| 22  | AP9L3.d     | ABN-SV103.M | IL18,32,,AP9L3 Lot#8509 | WG1316163,,  | 12/1/2019 | 6:22 pm  |
| 23  | AP9L2.d     | ABN-SV103.M | IL19,32,,AP9L2 Lot#8508 | WG1316163,,  | 12/1/2019 | 6:46 pm  |
| 24  | AP9L1.d     | ABN-SV103.M | IL20,32,,AP9L1 Lot#8507 | WG1316163,,  | 12/1/2019 | 7:10 pm  |
| 25  | ABNICV.d    | ABN-SV103.M | CQICV1,32,,ABN ICV Lot# | WG1316163,,  | 12/1/2019 | 7:34 pm  |
| 26  | AP9ICV.d    | ABN-SV103.M | CQICV2,32,,AP9 ICV Lot# | WG1316163,,  | 12/1/2019 | 7:58 pm  |
| 27  | Tune 2.d    | ABN-SV103.M | Tune2                   | WG1316163,,  | 12/1/2019 | 8:22 pm  |
| 28  | ADPL10.d    | ABN-SV103.M | IL21,32,,ADPL200 Lot#84 | WG1316163,,  | 12/1/2019 | 8:47 pm  |
| 29  | ADPL9.d     | ABN-SV103.M | IL22,32,,ADPL150 Lot#85 | WG1316163,,  | 12/1/2019 | 9:11 pm  |
| 30  | ADPL8.d     | ABN-SV103.M | IL23,32,,ADPL100 Lot#85 | WG1316163,,  | 12/1/2019 | 9:35 pm  |
| 31  | ADPL7.d     | ABN-SV103.M | IL24,32,,ADPL50 Lot#850 | WG1316163,,  | 12/1/2019 | 9:59 pm  |
| 32  | ADPL6.d     | ABN-SV103.M | IL25,32,,ADPL20 Lot#850 | WG1316163,,  | 12/1/2019 | 10:23 pm |
| 33  | ADPL5.d     | ABN-SV103.M | IL26,32,,ADPL10 Lot#850 | WG1316163,,  | 12/1/2019 | 10:48 pm |
| 34  | ADPL4.d     | ABN-SV103.M | IL27,32,,ADPL5 Lot#8499 | WG1316163,,  | 12/1/2019 | 11:12 pm |
| 35  | ADPL3.d     | ABN-SV103.M | IL28,32,,ADPL3 Lot#8498 | WG1316163,,  | 12/1/2019 | 11:36 pm |
| 36  | ADPICV.d    | ABN-SV103.M | CQICV3,32,,ADP ICV Lot# | WG1316163,,  | 12/2/2019 | 12:49 am |
| 37  | ADPL2.d     | ABN-SV103.M | IL29,32,,ADPL2 Lot#8497 | WG1316163,,  | 12/2/2019 | 12:00 am |
| 38  | ADPL1.d     | ABN-SV103.M | IL30,32,,ADPL1 Lot#8496 | WG1316163,,  | 12/2/2019 | 12:25 am |

Sequence Name: C:\msdchem\1\sequence\191223n.s

Comment: Buffy

Operator: Buffy:

Data Path: C:\MSDCHEM\1\DATA\191223n\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run On A Barcode Mismatch

(X) Full Method (X) Inject Anyway

( ) Reprocessing Only ( ) Don't Inject

-----  
Line Sample Name/Misc Info

|     |        |     |          |         |                             |
|-----|--------|-----|----------|---------|-----------------------------|
| 1)  | Sample | 100 | Deg1223n | ABNFAST | wg-1,32,,Buffy Degdft       |
| 2)  | Sample | 96  | ABN1223n | ABNFAST | wg-3,32,,ABN CCV Lot # 8524 |
| 3)  | Sample | 97  | AP91223n | ABNFAST | wg-4,32,,AP9 CCV Lot # 8513 |
| 4)  | Sample | 98  | ADP1223n | ABNFAST | wg-5,32,,ADP CCV Lot # 8502 |
| 5)  | Sample | 99  | BLK1223n | ABNFAST | wg-6,32,,Instrument Blank   |
| 6)  | Sample | 1   | 323715-1 | ABNFAST | wg1323715-1,32,,ny,ask      |
| 7)  | Sample | 2   | 323715-2 | ABNFAST | wg1323715-2,32,,ny,ask      |
| 8)  | Sample | 3   | 323715-3 | ABNFAST | wg1323715-3,32,,ny,ask      |
| 9)  | Sample | 4   | 324138-1 | ABNFAST | wg1324138-1,32,,tclp,ask    |
| 10) | Sample | 5   | 324138-2 | ABNFAST | wg1324138-2,32,,tclp,ask    |
| 11) | Sample | 6   | 324138-3 | ABNFAST | wg1324138-3,32,,tclp,ask    |
| 12) | Sample | 7   | 324206-1 | ABNFAST | wg1324206-1,32,,pa,ask      |
| 13) | Sample | 8   | 324206-2 | ABNFAST | wg1324206-2,32,,pa,ask      |
| 14) | Sample | 9   | 324206-3 | ABNFAST | wg1324206-3,32,,pa,ask      |
| 15) | Sample | 10  | 60931-01 | ABNFAST | l1960931-01,32,,tclp,ask    |
| 16) | Sample | 11  | 61291-01 | ABNFAST | l1961291-01,32,,tclp,ask    |
| 17) | Sample | 12  | 61371-01 | ABNFAST | l1961371-01,32,,pa,ask      |
| 18) | Sample | 13  | 61371-03 | ABNFAST | l1961371-03,32,,pa,ask      |
| 19) | Sample | 14  | 61371-02 | ABNFAST | l1961371-02,32,,pa,ask      |
| 20) | Sample | 15  | 61244-10 | ABNFAST | l1961244-10,32,,tcl,ask     |
| 21) | Sample | 16  | 61244-08 | ABNFAST | l1961244-08,32,,tcl,ask     |
| 22) | Sample | 17  | 61244-13 | ABNFAST | l1961244-13,32,,tcl,ask     |
| 23) | Sample | 18  | 61225-08 | ABNFAST | l1961225-08,32,,ny,ask      |
| 24) | Sample | 19  | 61371-04 | ABNFAST | l1961371-04,32,,pa,ask      |
| 25) | Sample | 20  | 61244-04 | ABNFAST | l1961244-04,32,,tcl,ask     |
| 26) | Sample | 21  | 61225-06 | ABNFAST | l1961225-06,32,,ny,ask      |
| 27) | Sample | 22  | 61241-01 | ABNFAST | l1961241-01,32,,ny,ask      |
| 28) | Sample | 23  | 61244-01 | ABNFAST | l1961244-01,32,,tcl,ask     |
| 29) | Sample | 24  | 61301-01 | ABNFAST | l1961301-01,32,,ny,ask      |

Sequence Name: C:\msdchem\1\sequence\191223n.s

Comment: 8270 megamix

Operator: gcms5:

Data Path: C:\MSDCHEM\1\DATA\191223n\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

(X) Full Method

( ) Reprocessing Only

Sequence Barcode Options

(X) On Mismatch, Inject Anyway

( ) On Mismatch, Don't Inject

( ) Barcode Disabled

-----  
Line Sample Name/Misc Info

|     |        |     |          |         |                              |
|-----|--------|-----|----------|---------|------------------------------|
| 1)  | Sample | 100 | Deg1223n | ABNFAST | wg-1,32,,GCMS5 Degdftpp      |
| 2)  | Sample | 96  | ABN1223n | ABNFAST | wg-3,32,,ABN CCV Lot # 8524  |
| 3)  | Sample | 97  | AP91223n | ABNFAST | wg-4,32,,AP9 CCV Lot # 8513  |
| 4)  | Sample | 98  | ADP1223n | ABNFAST | wg-5,32,,ADP CCV Lot # 8502  |
| 5)  | Sample | 99  | BLK1223n | ABNFAST | wg-6,32,,Instrument Blank    |
| 6)  | Sample | 1   | 61284-01 | ABNFAST | 11961284-01,32,,ny,ask       |
| 7)  | Sample | 2   | 61284-04 | ABNFAST | 11961284-04,32,,ny,ask       |
| 8)  | Sample | 3   | 61284-02 | ABNFAST | 11961284-02,32,,ny,ask       |
| 9)  | Sample | 4   | 61284-06 | ABNFAST | 11961284-06,32,,ny,ask       |
| 10) | Sample | 5   | 60508-04 | ABNFAST | 11960508-04,32,,nj-bnext,ask |
| 11) | Sample | 6   | 60508-09 | ABNFAST | 11960508-09,32,,nj-bnext,ask |
| 12) | Sample | 7   | 61127-24 | ABNFAST | 11961127-24,32,,ny,ask       |
| 13) | Sample | 8   | 60508-01 | ABNFAST | 11960508-01,32,,nj-bnext,ask |
| 14) | Sample | 9   | 61225-05 | ABNFAST | 11961225-05,32,,ny,ask       |
| 15) | Sample | 10  | 61284-03 | ABNFAST | 11961284-03,32,,ny,ask       |
| 16) | Sample | 11  | 61225-02 | ABNFAST | 11961225-02,32,,ny,ask       |
| 17) | Sample | 12  | 61127-20 | ABNFAST | 11961127-20,32,,ny,ask       |
| 18) | Sample | 13  | 323715-4 | ABNFAST | wg1323715-4,32,,ny,ask       |
| 19) | Sample | 14  | 323715-5 | ABNFAST | wg1323715-5,32,,ny,ask       |
| 20) | Sample | 15  | 61284-05 | ABNFAST | 11961284-05,32,,ny,ask       |
| 21) | Sample | 16  | 61127-18 | ABNFAST | 11961127-18,32,,ny,ask       |
| 22) | Sample | 17  | 61225-04 | ABNFAST | 11961225-04,32,,ny,ask       |
| 23) | Sample | 18  | 60508-06 | ABNFAST | 11960508-06,32,,nj-bnext,ask |
| 24) | Sample | 19  | 61127-08 | ABNFAST | 11961127-08,32,,ny,ask       |
| 25) | Sample | 20  | 61127-14 | ABNFAST | 11961127-14,32,,ny,ask       |
| 26) | Sample | 21  | 61127-06 | ABNFAST | 11961127-06,32,,ny,ask       |
| 27) | Sample | 22  | 61127-22 | ABNFAST | 11961127-22,32,,ny,ask       |
| 28) | Sample | 23  | 61127-10 | ABNFAST | 11961127-10,32,,ny,ask       |
| 29) | Sample | 24  | 61225-03 | ABNFAST | 11961225-03,32,,ny,ask       |
| 30) | Sample | 25  | 61225-01 | ABNFAST | 11961225-01,32,,ny,ask       |
| 31) | Sample | 26  | 61127-02 | ABNFAST | 11961127-02,32,,ny,ask       |

## Analysis log File

Total Files Reported in Log : 31  
 Log Generated From Directory: I:\8270\SV103\191226\

| No. | DATA FILE  | INJ METH    | SAMPLE NAME              | MISC                    | DATE       | INJ'D    |
|-----|------------|-------------|--------------------------|-------------------------|------------|----------|
| 1   | Deg1226.d  | ABN-SV103.M | wg1324867-2,32,, SV103   | wg1324867,wg,ical1633.. | 12/26/2019 | 9:23 am  |
| 2   | ABN1226.d  | ABN-SV103.M | wg1324867-3,32,, ABN CC  | wg1324867,, ical16333   | 12/26/2019 | 9:52 am  |
| 3   | AP91226.d  | ABN-SV103.M | wg1324867-4,32,, AP9 CC  | wg1324867,, ical16333   | 12/26/2019 | 10:17 am |
| 4   | ADP1226.d  | ABN-SV103.M | wg1324867-5,32,, ADP CC  | wg1324867,, ical16333   | 12/26/2019 | 10:41 am |
| 5   | BLK1226.d  | ABN-SV103.M | sv103-blank,32,, Intrume | wg,wg, ical16333        | 12/26/2019 | 11:06 am |
| 6   | 324668-1.d | ABN-SV103.M | wg1324668-1,32,, nytcl,a | wg1324867,wg1324668,..  | 12/26/2019 | 11:30 am |
| 7   | 324668-2.d | ABN-SV103.M | wg1324668-2,32,, nytcl,a | wg1324867,wg1324668,..  | 12/26/2019 | 11:54 am |
| 8   | 324668-3.d | ABN-SV103.M | wg1324668-3,32,, nytcl,a | wg1324867,wg1324668,..  | 12/26/2019 | 12:19 pm |
| 9   | 61443-02.d | ABN-SV103.M | 11961443-02,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 12:43 pm |
| 10  | 61512-02.d | ABN-SV103.M | 11961512-02d,32,5,ny,rv  | wg1324867,wg1324298,..  | 12/26/2019 | 1:07 pm  |
| 11  | 61512-03.d | ABN-SV103.M | 11961512-03d,32,5,ny,rv  | wg1324867,wg1324298,..  | 12/26/2019 | 1:32 pm  |
| 12  | 61443-03.d | ABN-SV103.M | 11961443-03,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 1:56 pm  |
| 13  | 61443-04.d | ABN-SV103.M | 11961443-04,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 2:20 pm  |
| 14  | 61443-05.d | ABN-SV103.M | 11961443-05,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 2:44 pm  |
| 15  | 61536-05.d | ABN-SV103.M | 11961536-05,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 3:09 pm  |
| 16  | 61536-07.d | ABN-SV103.M | 11961536-07,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 3:33 pm  |
| 17  | 61536-06.d | ABN-SV103.M | 11961536-06,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 3:57 pm  |
| 18  | 61536-03.d | ABN-SV103.M | 11961536-03,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 4:22 pm  |
| 19  | 61536-01.d | ABN-SV103.M | 11961536-01,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 4:46 pm  |
| 20  | 61536-02.d | ABN-SV103.M | 11961536-02,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 5:10 pm  |
| 21  | 61394-02.d | ABN-SV103.M | 11961394-02,32,, ny, dw  | wg1324867,wg1324668,..  | 12/26/2019 | 5:34 pm  |
| 22  | 61284-03.d | ABN-SV103.M | 11961284-03d,32,10,nytc  | wg1324867,wg1323715,..  | 12/26/2019 | 5:59 pm  |
| 23  | 61284-04.d | ABN-SV103.M | 11961284-04d,32,5,nytcl  | wg1324867,wg1323715,..  | 12/26/2019 | 6:23 pm  |
| 24  | 61284-06.d | ABN-SV103.M | 11961284-06d,32,5,nytcl  | wg1324867,wg1323715,..  | 12/26/2019 | 6:48 pm  |
| 25  | 61443-01.d | ABN-SV103.M | 11961443-01,32,, nytcl,j | wg1324867,wg1324668,..  | 12/26/2019 | 7:12 pm  |
| 26  | 61515-03.d | ABN-SV103.M | 11961515-03,32,, nycp51, | wg1324867,wg1324628,..  | 12/26/2019 | 7:36 pm  |
| 27  | 61422-01.d | ABN-SV103.M | 11961422-01,, nytcl,jt   | wg1324867,wg1324628,..  | 12/26/2019 | 8:01 pm  |
| 28  | 61422-02.d | ABN-SV103.M | 11961422-02,, nytcl,jt   | wg1324867,wg1324628,..  | 12/26/2019 | 8:25 pm  |
| 29  | 61422-04.d | ABN-SV103.M | 11961422-04,, nytcl,jt   | wg1324867,wg1324628,..  | 12/26/2019 | 8:49 pm  |
| 30  | 61225-01.d | ABN-SV103.M | 11961225-01d,32,5,nytcl  | wg1324867,wg1323649,..  | 12/26/2019 | 9:14 pm  |
| 31  | 61127-10.d | ABN-SV103.M | 11961127-10,32,, nytcl,j | wg1324867,wg1323649,..  | 12/26/2019 | 9:38 pm  |



## ORGANIC ELN REPORT

Workgroup: WG1323715

|                                                                                                                                                                                                                                                 |                                                                                                                |                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prep Method:</b> EPA 3546<br><b>Solvent Type:</b> DCM<br><b>Surrogate Type:</b> ABN<br><b>Spike Type:</b> ABN<br><b>Spike Verify by:</b> MKL<br><b>Lims Spikelot:</b> 8270-USAC2<br><b>Additional Reagents/Std</b><br>Ottawa Sand 19E1156913 | <b>Conc.Method:</b> Buchi<br><b>Solvent Type:</b> DCM<br><b>Lot #:</b> DX701<br><b>Additional Reagents/Std</b> | <b>Cleanup 1</b><br><b>Cleanup Method 1:</b><br><b>Cleanup Method 2:</b><br><b>Solvent Type:</b><br><b>Lot #:</b><br><b>Additional Reagents/Std</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

| Sample/<br>Type          | Extraction        |                 |                       |                |                   |                    |                    |                       | Concentration     |                   |                    |              |
|--------------------------|-------------------|-----------------|-----------------------|----------------|-------------------|--------------------|--------------------|-----------------------|-------------------|-------------------|--------------------|--------------|
|                          | Extract<br>Date   | Analyst         | Sample<br>Weight<br>g | Balanc<br>e Id | Surr<br>Amt<br>ml | Spike<br>Amt<br>ml | Extract<br>Unit Id | Stop<br>Date/Ti<br>me | Conc<br>Date      | Analyst           | Final<br>Vol<br>ml | Conc<br>Unit |
| L1961284-01<br>SOIL      | 12/22/19<br>09:01 | Michael<br>Lamb | 30.39                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:17 | Mark<br>Gillespie | 1                  | 2            |
| L1961284-02<br>SOIL      | 12/22/19<br>09:01 | Michael<br>Lamb | 30.59                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:18 | Mark<br>Gillespie | 1                  | 2            |
| L1961284-03<br>SOIL      | 12/22/19<br>09:01 | Michael<br>Lamb | 30.21                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:10 | Mark<br>Gillespie | 1                  | 2            |
| L1961284-04<br>SOIL      | 12/22/19<br>09:01 | Michael<br>Lamb | 30.26                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:18 | Mark<br>Gillespie | 1                  | 2            |
| L1961284-05<br>SOIL      | 12/22/19<br>09:01 | Michael<br>Lamb | 30.91                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:09 | Mark<br>Gillespie | 1                  | 2            |
| L1961284-06<br>SOIL      | 12/22/19<br>09:01 | Michael<br>Lamb | 30.68                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:09 | Mark<br>Gillespie | 1                  | 2            |
| WG1323715-<br>1<br>BLANK | 12/22/19<br>09:01 | Michael<br>Lamb | 30.20                 | #36            | 1                 |                    | MW#6               | NA                    | 12/22/19<br>12:09 | Mark<br>Gillespie | 1                  | 2            |



# ORGANIC ELN REPORT

Workgroup: WG1323715

| Sample/<br>Type         | Extraction        |                 |                       |                |                   |                    |                    |                       | Concentration     |                   |                    |              |
|-------------------------|-------------------|-----------------|-----------------------|----------------|-------------------|--------------------|--------------------|-----------------------|-------------------|-------------------|--------------------|--------------|
|                         | Extract<br>Date   | Analyst         | Sample<br>Weight<br>g | Balanc<br>e Id | Surr<br>Amt<br>ml | Spike<br>Amt<br>ml | Extract<br>Unit Id | Stop<br>Date/Ti<br>me | Conc<br>Date      | Analyst           | Final<br>Vol<br>ml | Conc<br>Unit |
| WG1323715-<br>2<br>LCS  | 12/22/19<br>09:01 | Michael<br>Lamb | 30.51                 | #36            | 1                 | 1                  | MW#6               | NA                    | 12/22/19<br>12:09 | Mark<br>Gillespie | 1                  | 2            |
| WG1323715-<br>3<br>LCSD | 12/22/19<br>09:01 | Michael<br>Lamb | 30.71                 | #36            | 1                 | 1                  | MW#6               | NA                    | 12/22/19<br>12:17 | Mark<br>Gillespie | 1                  | 2            |
| WG1323715-<br>4<br>MS   | 12/22/19<br>09:01 | Michael<br>Lamb | 30.79                 | #36            | 1                 | 1                  | MW#6               | NA                    | 12/22/19<br>12:09 | Mark<br>Gillespie | 1                  | 2            |
| WG1323715-<br>5<br>MSD  | 12/22/19<br>09:01 | Michael<br>Lamb | 30.51                 | #36            | 1                 | 1                  | MW#6               | NA                    | 12/22/19<br>12:17 | Mark<br>Gillespie | 1                  | 2            |

# Wet Chemistry



# **Total Solids / Percent Moisture Analysis**

# Results

# Form 1

## WETCHEM

|                   |                                 |                 |                  |
|-------------------|---------------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number  | : 2182207        |
| Lab ID            | : L1961284-01                   | Date Collected  | : 12/20/19 10:10 |
| Client ID         | : TANK-EAST-122019 (10')        | Date Received   | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                          | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                     | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf                 | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                               | %Solids         | : 89             |
| Digestion Method  | :                               | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 88.9    | 0.100 | NA  |           |



# Form 1

## WETCHEM

|                   |                                 |                 |                  |
|-------------------|---------------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number  | : 2182207        |
| Lab ID            | : L1961284-02                   | Date Collected  | : 12/20/19 10:30 |
| Client ID         | : TANK-BOT-122019 (11')         | Date Received   | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                          | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                     | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf                 | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                               | %Solids         | : 81             |
| Digestion Method  | :                               | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 81.4    | 0.100 | NA  |           |



# Form 1

## WETCHEM

|                   |                                 |                 |                  |
|-------------------|---------------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number  | : 2182207        |
| Lab ID            | : L1961284-03                   | Date Collected  | : 12/20/19 10:40 |
| Client ID         | : TANK-WEST-122019 (8')         | Date Received   | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                          | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                     | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf                 | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                               | %Solids         | : 83             |
| Digestion Method  | :                               | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 82.9    | 0.100 | NA  |           |



# Form 1

## WETCHEM

|                   |                                 |                 |                  |
|-------------------|---------------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number  | : 2182207        |
| Lab ID            | : L1961284-04                   | Date Collected  | : 12/20/19 11:15 |
| Client ID         | : TANK-SOUTH-122019 (8')        | Date Received   | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                          | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                     | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf                 | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                               | %Solids         | : 87             |
| Digestion Method  | :                               | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 87.0    | 0.100 | NA  |           |



# Form 1

## WETCHEM

|                   |                                 |                 |                  |
|-------------------|---------------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number  | : 2182207        |
| Lab ID            | : L1961284-05                   | Date Collected  | : 12/20/19 11:30 |
| Client ID         | : TANK-NORTH-122019 (8')        | Date Received   | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                          | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                     | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf                 | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                               | %Solids         | : 83             |
| Digestion Method  | :                               | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 83.3    | 0.100 | NA  |           |



# Form 1

## WETCHEM

|                   |                                 |                 |                  |
|-------------------|---------------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.      | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL     | Project Number  | : 2182207        |
| Lab ID            | : L1961284-06                   | Date Collected  | : 12/20/19 00:00 |
| Client ID         | : DUP-01-122019                 | Date Received   | : 12/20/19       |
| Sample Location   | : 872 HUDSON AVE, ROCHESTER, NY | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                          | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                     | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf                 | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                               | %Solids         | : 88             |
| Digestion Method  | :                               | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 88.1    | 0.100 | NA  |           |





# Form 1

## WETCHEM

|                   |                             |                 |                  |
|-------------------|-----------------------------|-----------------|------------------|
| Client            | : LaBella Associates, P.C.  | Lab Number      | : L1961284       |
| Project Name      | : FORMER WOLLENSACK OPTICAL | Project Number  | : 2182207        |
| Lab ID            | : WG1323593-1               | Date Collected  | : 12/20/19 11:30 |
| Client ID         | : TANK-NORTH-122019 (8')DUP | Date Received   | : 12/20/19       |
| Sample Location   | :                           | Date Analyzed   | : 12/21/19 13:32 |
| Sample Matrix     | : SOIL                      | Dilution Factor | : 1              |
| Analytical Method | : 121,2540G                 | Analyst         | : RI             |
| Lab File ID       | : WG1323593.pdf             | Instrument ID   | : BALANCE#47     |
| Sample Amount     | :                           | %Solids         | : 83             |
| Digestion Method  | :                           | Date Digested   | :                |

| CAS NO. | Parameter     | %       |       |     | Qualifier |
|---------|---------------|---------|-------|-----|-----------|
|         |               | Results | RL    | MDL |           |
| NONE    | Solids, Total | 82.3    | 0.100 | NA  |           |



## **Sample Raw Data**

| WorkGroup   | WG1323593       | Temp In (C)    | 105              | Temp In (C)       |                     | Temp In (C)         |                     | Temp In (C)         |          |         |
|-------------|-----------------|----------------|------------------|-------------------|---------------------|---------------------|---------------------|---------------------|----------|---------|
| Title       | Solids, Total   | Temp Out (C)   | 105              | Temp Out (C)      |                     | Temp Out (C)        |                     | Temp Out (C)        |          |         |
| Method      | SM2540G         | Time In        | 21-DEC-19 13:41  | Time In           |                     | Time In             |                     | Time In             |          |         |
| Instrument  | BALANCE#47      | Time Out       | 23-DEC-19 05:35  | Time Out          |                     | Time Out            |                     | Time Out            |          |         |
| Sample #    | Analysis Date   | Analyst        | Tare Weight (gm) | Gross Weight (gm) | Net Weight (1) (gm) | Net Weight (2) (gm) | Net Weight (3) (gm) | Net Weight (4) (gm) | Result % | Comment |
| L1961236-01 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.17             | 9.05              | 8.36                |                     |                     |                     | 91.24    |         |
| L1961284-01 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.16             | 8.12              | 7.35                |                     |                     |                     | 88.94    |         |
| L1961284-02 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.15             | 9.21              | 7.71                |                     |                     |                     | 81.39    |         |
| L1961284-03 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.19             | 9.77              | 8.3                 |                     |                     |                     | 82.87    |         |
| L1961284-04 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.19             | 9.95              | 8.81                |                     |                     |                     | 86.99    |         |
| L1961284-05 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.15             | 8.14              | 6.97                |                     |                     |                     | 83.26    |         |
| L1961284-06 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.18             | 9.25              | 8.29                |                     |                     |                     | 88.10    |         |
| L1961300-01 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.18             | 8.5               | 8.22                |                     |                     |                     | 96.17    |         |
| L1961300-02 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.18             | 8.85              | 8.31                |                     |                     |                     | 92.96    |         |
| L1961300-03 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.16             | 7.91              | 7.57                |                     |                     |                     | 94.96    |         |
| L1961300-04 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.18             | 8.68              | 8.11                |                     |                     |                     | 92.40    |         |
| L1961300-05 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.16             | 8.89              | 8.54                |                     |                     |                     | 95.47    |         |
| L1961300-06 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.15             | 8.78              | 8.38                |                     |                     |                     | 94.76    |         |
| L1961300-07 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.14             | 8.72              | 8.44                |                     |                     |                     | 96.31    |         |
| L1961300-08 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.12             | 8.47              | 8.24                |                     |                     |                     | 96.87    |         |
| L1961300-09 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.15             | 9.01              | 8.38                |                     |                     |                     | 91.98    |         |
| L1961300-10 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.14             | 9.47              | 7.77                |                     |                     |                     | 79.59    |         |
| L1961300-11 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.16             | 8.16              | 7.88                |                     |                     |                     | 96.00    |         |
| L1961300-12 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.14             | 8.7               | 8.44                |                     |                     |                     | 96.56    |         |
| WG1323593-1 | 21-DEC-19 13:32 | ROMANY IBRAHIM | 1.15             | 8.15              | 6.91                |                     |                     |                     | 82.29    |         |

# **Quality Control**

## Form 6 Lab Duplicates

|                  |                             |                   |                  |
|------------------|-----------------------------|-------------------|------------------|
| Client           | : LaBella Associates, P.C.  | Lab Number        | : L1961284       |
| Project Name     | : FORMER WOLLENSACK OPTICAL | Project Number    | : 2182207        |
| Client Sample ID | : TANK-NORTH-122019 (8")    | Matrix            | : SOIL           |
| Lab Sample ID    | : L1961284-05               | Analysis Date     | : 12/21/19 13:32 |
| Dup Sample ID    | : WG1323593-1               | DUP Analysis Date | : 12/21/19 13:32 |

| Parameter     | Sample<br>Concentration<br>(%) | Duplicate<br>Concentration<br>(%) | RPD | RPD<br>Limit |
|---------------|--------------------------------|-----------------------------------|-----|--------------|
| Solids, Total | 83.3                           | 82.3                              | 1   | 20           |





# APPENDIX J

## **Imported Materials Use Requests and Approvals**

## **#1 and #2 Blend Stone**

## Brett, Alexander

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Monday, January 13, 2020 10:21 AM  
**To:** Gillen, Jennifer; Jeff Vander Veer; jgrobe@hamiltonstern.com; Folger, Jeffrey; Noll, Dan  
**Cc:** Caffoe, Todd (DEC)  
**Subject:** RE: C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

The Department has reviewed the request dated 12/26/2019 to import 600 tons of Crusher Run #2 and 500 tons of #1 & #2 Blend of fill material from The Dolomite Group Penfield Plant, 1150 Penfield Road, Rochester, N.Y. 14625. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed above the demarcation layer and will be a component of the site's final cover system.

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Tuesday, December 31, 2019 11:11 AM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Subject:** RE: C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

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

Contractor is estimating 600 tons of CR2 and up to 500 tons of 1&2 stone.

### Jennifer Gillen, PG

LaBella Associates | Brownfield & Phase II Program Manager

585-295-6648    direct  
585-454-6110    office

---

**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Thursday, December 26, 2019 2:07 PM  
**To:** Gillen, Jennifer  
**Subject:** RE: C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

Jen: Any idea how much is being imported?

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Thursday, December 26, 2019 12:55 PM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Cc:** Jeff Vander Veer <jvanderveer@hamiltonstern.com>; Joshua Grobe <jgrobe@hamiltonstern.com>; Folger, Jeffrey <JFolger@LaBellaPC.com>  
**Subject:** C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

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

Charlotte,



Please find a request to import application for CR2 to be used as parking lot subbase and 1&2 stone to be used as utility backfill. The material is to be obtained from Dolomite's Penfield facility. Gradation data is included in the application.

Thanks,  
Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager



585-295-6648    **direct**  
585-454-6110    **office**  
300 State Street, Suite 201  
Rochester, NY 14614  
[labellapc.com](http://labellapc.com)



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

NA - material exempt per DER 10 Section 5.4. See attached gradation analysis.

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Dolomite Group - Owner of quarry

Location where fill was obtained:

Dolomite's Penfield Quarry - 746 Whalen Road, Penfield, NY

Identification of any state or local approvals as a fill source:

NYSDOT Source #: 4-4R/4-4RS; DEC Mine File #80021

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Gradation analysis from Dolomite.

The information provided on this form is accurate and complete.



Signature

12/26/2019

Date

Jennifer Gillen

Print Name

LaBella Associates

Firm

**HSC PROJECT #      18-116**

# SUBMITTAL COVER SHEET

## HUDSON AVENUE - WOLLENSAK BUILDING

**SUBMITTAL LOG NO:** 32-1123 1.04-B - C

| SUBMITTAL DESCRIPTION: | AGGREGATE BASE COURSE |
|------------------------|-----------------------|
| 1.000                  | 1.000                 |
| 2.000                  | 2.000                 |
| 3.000                  | 3.000                 |
| 4.000                  | 4.000                 |
| 5.000                  | 5.000                 |
| 6.000                  | 6.000                 |
| 7.000                  | 7.000                 |
| 8.000                  | 8.000                 |
| 9.000                  | 9.000                 |
| 10.000                 | 10.000                |
| 11.000                 | 11.000                |
| 12.000                 | 12.000                |
| 13.000                 | 13.000                |
| 14.000                 | 14.000                |
| 15.000                 | 15.000                |
| 16.000                 | 16.000                |
| 17.000                 | 17.000                |
| 18.000                 | 18.000                |
| 19.000                 | 19.000                |
| 20.000                 | 20.000                |
| 21.000                 | 21.000                |
| 22.000                 | 22.000                |
| 23.000                 | 23.000                |
| 24.000                 | 24.000                |
| 25.000                 | 25.000                |
| 26.000                 | 26.000                |
| 27.000                 | 27.000                |
| 28.000                 | 28.000                |
| 29.000                 | 29.000                |
| 30.000                 | 30.000                |
| 31.000                 | 31.000                |
| 32.000                 | 32.000                |
| 33.000                 | 33.000                |
| 34.000                 | 34.000                |
| 35.000                 | 35.000                |
| 36.000                 | 36.000                |
| 37.000                 | 37.000                |
| 38.000                 | 38.000                |
| 39.000                 | 39.000                |
| 40.000                 | 40.000                |
| 41.000                 | 41.000                |
| 42.000                 | 42.000                |
| 43.000                 | 43.000                |
| 44.000                 | 44.000                |
| 45.000                 | 45.000                |
| 46.000                 | 46.000                |
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| 66.000                 | 66.000                |
| 67.000                 | 67.000                |
| 68.000                 | 68.000                |
| 69.000                 | 69.000                |
| 70.000                 | 70.000                |
| 71.000                 | 71.000                |
| 72.000                 | 72.000                |
| 73.000                 | 73.000                |
| 74.000                 | 74.000                |
| 75.000                 | 75.000                |
| 76.000                 | 76.000                |
| 77.000                 | 77.000                |
| 78.000                 | 78.000                |
| 79.000                 | 79.000                |
| 80.000                 | 80.000                |
| 81.000                 | 81.000                |
| 82.000                 | 82.000                |
| 83.000                 | 83.000                |
| 84.000                 | 84.000                |
| 85.000                 | 85.000                |
| 86.000                 | 86.000                |
| 87.000                 | 87.000                |
| 88.000                 | 88.000                |
| 89.000                 | 89.000                |
| 90.000                 | 90.000                |
| 91.000                 | 91.000                |
| 92.000                 | 92.000                |
| 93.000                 | 93.000                |
| 94.000                 | 94.000                |
| 95.000                 | 95.000                |
| 96.000                 | 96.000                |
| 97.000                 | 97.000                |
| 98.000                 | 98.000                |
| 99.000                 | 99.000                |
| 100.000                | 100.000               |

**DATE OF SUBMISSION:** 12/20/2019

**SUBCONTRACTOR:** Victor Excavating, Inc.

|                 |              |                  |          |
|-----------------|--------------|------------------|----------|
| <b>CONTACT:</b> | Brian Dooley | <b>PHONE NO:</b> | 924-1934 |
|-----------------|--------------|------------------|----------|

**SUPPLIER / MANUFACTURER:** Dolomite Group

**SUBMITTAL NOTES:** Crusher run for parking lot subbase, Crushed 1 & 2 Stone for utility bedding

|                                                                                                       |                                                                                                      |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <p><b>SUBCONTRACTOR STAMP HERE:</b></p><br><br><br><br><br><br><br><br><br><br><p>YOUR STAMP HERE</p> | <p><b>GENERAL CONTRACTOR:</b></p>                                                                    |
|                                                                                                       | <p><b>HAMILTON STERN CONSTRUCTION</b></p>                                                            |
|                                                                                                       | <p>REVIEWED FOR COMPLIANCE WITH THE SPECIFICATIONS AND OR PLANS</p> <p>DATE:</p> <p>REVIEWED BY:</p> |
| <p><b>ARCHITECT STAMP HERE:</b></p>                                                                   | <p><b>CONSULTANT STAMP HERE:</b></p>                                                                 |

**THE DOLOMITE GROUP**

DOLOMITE PRODUCTS COMPANY, INC  
 MANITOU CONSTRUCTION COMPANY, INC  
 ROCHESTER ASPHALT MATERIALS  
 IROQUOIS ROCK PRODUCTS  
 NORTHRUP MATERIALS

**MATERIAL SUBMITTAL**

1150 Penfield Road  
 Rochester, N.Y. 14625  
 Phone: (585) 381-7010  
 Fax : (585) 381-0208

**DATE:** 12/20/19**PAGE:** 1 of 1**TO:** Brian Dooley**OF:** Victor Exc.**PROJECT:** 872 Hudson Ave.**CRUSHED STONE:**

Penfield Plant

**NYSDOT Source #:** 4-4R / 4-4RS**Current NYSDOT Test #:** 19 AR 073 / 17 AR 88S

This is to certify that the Crushed Stone to be used on the above referenced project will be produced in accordance with the most current New York State Department of Transportation's, "Standard Specifications" and Addenda. All stone properties conform to sections 703.0201, 203, 304, 605 and 620 of the Specification. Specific values are listed below.

| PROPERTY                        | VALUE | SPEC.   |
|---------------------------------|-------|---------|
| Mag. Sulfate Loss               | 4     | 18 max. |
| LA Abrasion Loss                | 24    | 35 max. |
| Flat and Elongated Pieces - 3:1 | 4     | 30 max. |
| 5:1                             | 0     | 10 max. |
| Crushed Particles               | 100   | n.a.    |
| Deleterious Materials           | 0     | 2 max.  |

| TYPICAL GRADATIONS (All Values are % Passing) |                      |                |          |          |                 |            |
|-----------------------------------------------|----------------------|----------------|----------|----------|-----------------|------------|
| SIEVE SIZE                                    | CRUSHER RUN #2       | CRUSHER RUN #1 | #1 STONE | #2 STONE | #1 & #2 BLEND   | #1AW STONE |
| 4" (100 mm)                                   |                      |                |          |          |                 |            |
| 2" (50)                                       | 100                  |                |          |          |                 |            |
| 1 1/2" (37.5)                                 |                      |                |          | 100      | 100             |            |
| 1" (25)                                       | 78                   | 100            | 100      | 94       | 97              |            |
| 1/2" (12.5)                                   | 57                   |                | 91       | 14       | 53              | 100        |
| 1/4" (6.3)                                    | 38                   | 54             | 14       | 2        | 8               | 92         |
| #40 (0.425)                                   | 9                    | 12             |          |          |                 |            |
| #80 (.0177)                                   | 3                    | 3              | 1        | 1        | 1               |            |
| #200 (0.075)                                  | 5                    | 7              | 0.6      | 0.1      | 0.3             | 0.5        |
| Typical Item Numbers                          | 203.____<br>304.____ |                | 605.0901 |          | CA 2<br>ASTM 57 | 605.1001   |

**LIGHT STONE FILL**

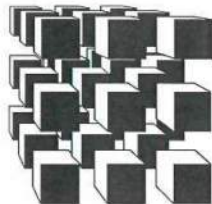
| SIZE                  | VALUE | SPEC     |
|-----------------------|-------|----------|
| Lighter Than 100 Lbs. | 100   | 90 - 100 |
| Larger Than 6"        | 55    | 50 - 100 |
| Smaller Than 1/2"     | 8     | 0 - 10   |

**Notes:**

- 1) Proctor Density typically runs at approx 142 +/-2 pcf at 6-8% Moisture.(For Crusher Run products only)
- 2) Medium and Heavy Stone Fill Items are selected at time of purchase to satisfy project requirements.

**Signed By:** *Christopher McClurg*

Christopher McClurg - Sales Representative



**LABORATORY TEST SUMMARY**

CME Report Number: 38669S-27

1/22/2019

Page 1 of 2

A CME Representative obtained a sample for use at the above referenced project. The sample was delivered to CME's Rochester facility, an AASHTO AMRL<sup>1</sup> accredited laboratory, for a Particle Size Analysis and a Moisture Density Relationship determination. The results are as follow:

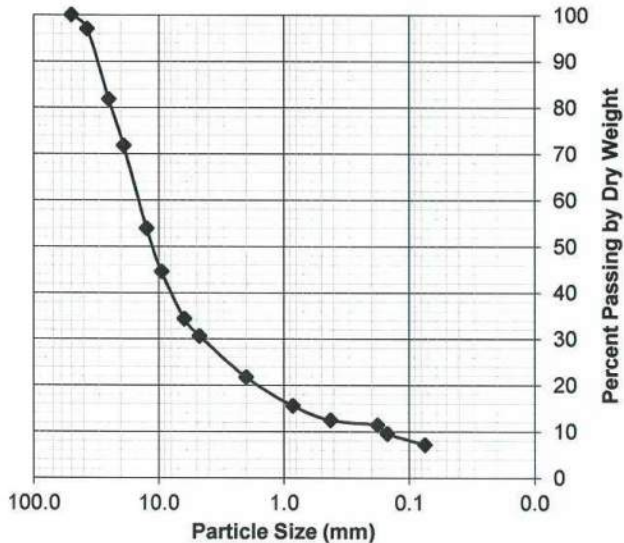
**1) Material Identification**

| <u>Sample #</u> | <u>Date Sampled</u> | <u>Description</u>    | <u>Source</u>     |
|-----------------|---------------------|-----------------------|-------------------|
| RL-12709        | 01/18/19            | #2 Crush of Run Stone | Dolomite Penfield |

**2) Particle Size Analysis ASTM D422**

| <u>Sieve Size</u> | <u>Sieve Size (mm)</u> | <u>% Passing by Dry Weight Sample # RL-12709</u> |
|-------------------|------------------------|--------------------------------------------------|
| 2"                | 50.0                   | 100                                              |
| 1 1/2"            | 37.5                   | 97                                               |
| 1"                | 25.0                   | 82                                               |
| 3/4"              | 19.0                   | 72                                               |
| 1/2"              | 12.5                   | 54                                               |
| 3/8"              | 9.50                   | 45                                               |
| 1/4"              | 6.25                   | 34                                               |
| #4                | 4.75                   | 31                                               |
| #10               | 2.00                   | 22                                               |
| #20               | 0.850                  | 16                                               |
| #40               | 0.425                  | 12                                               |
| #50               | 0.180                  | 11                                               |
| #100              | 0.150                  | 10                                               |
| #200              | 0.075                  | 7.1                                              |

**Grain Size Distribution**



**3) Moisture-Density Relationship (ASTM D-1557: Modified Proctor)**

|                                            | <u>Sample #</u> |
|--------------------------------------------|-----------------|
| Corrected Maximum Dry Density (pcf)        | <u>RL-12709</u> |
| Corrected Optimum Moisture Content (%)     | = 151.1         |
| Oversized Particles, Percent by Weight (%) | = 4.3           |
|                                            | = 28 *          |

\* Particles retained on 3/4-inch sieve

<sup>1</sup> AASHTO- American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory. AASHTO is a Federal Agency having jurisdiction to assess laboratory competence according to the standards of the United States. CME Rochester accreditation includes tests of Portland Cement Concrete, Aggregate and Soil Materials. www.aashtoresource.org



# LABORATORY TEST SUMMARY

Happiness House

Golisano Autism Center

CME Report Number: 38669S-27

Page 2 of 2

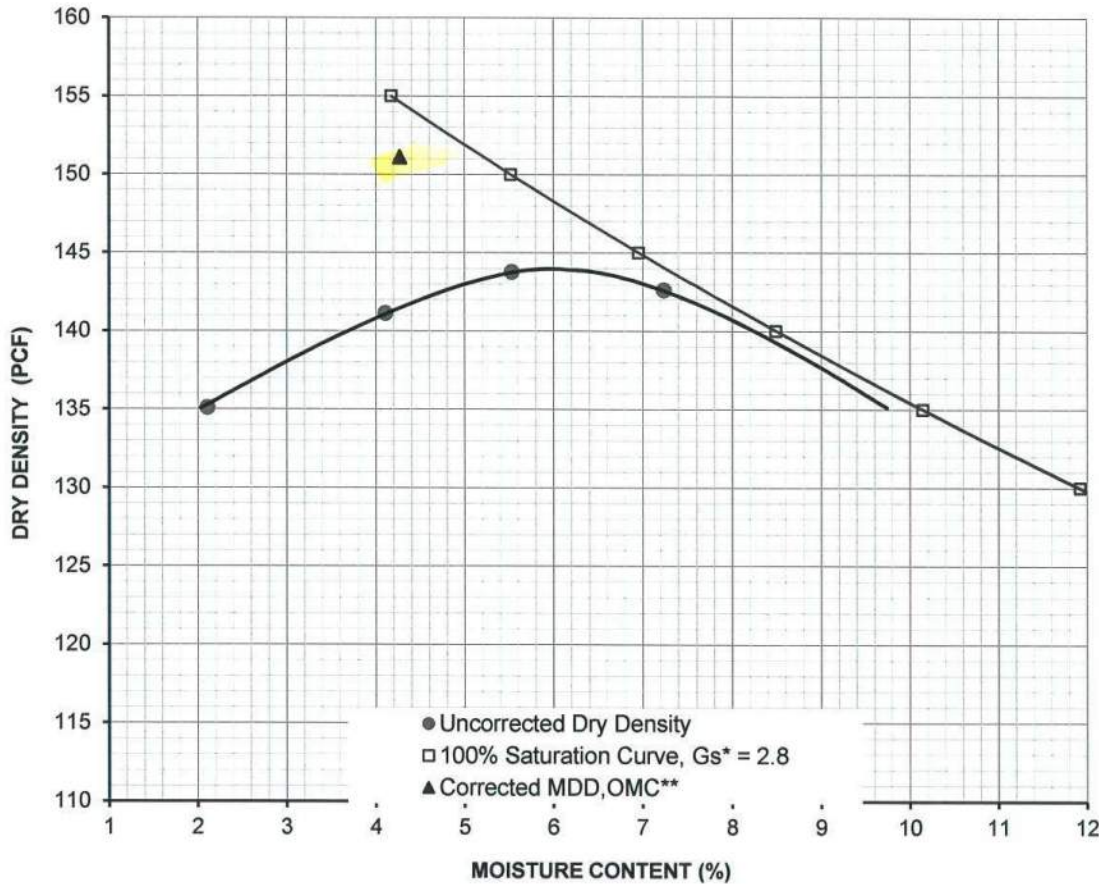


**CME**  
Associates, Inc.

|                      |                       |               |          |
|----------------------|-----------------------|---------------|----------|
| SAMPLE LOCATION:     | Dolomite Penfield     | DATE SAMPLED: | 1/18/19  |
| SOIL CLASSIFICATION: | #2 Crush of Run Stone | SAMPLE NO.:   | RL-12709 |

## Moisture - Density Relationship Curve

## Particle Size Analysis ASTM D422



| Sieve Size | % Passing |
|------------|-----------|
| 2"         | 100       |
| 1-1/2"     | 97        |
| 1"         | 82        |
| 3/4"       | 72        |
| 1/2"       | 54        |
| 3/8"       | 45        |
| 1/4"       | 34        |
| No.4       | 31        |
| No.10      | 22        |
| No.20      | 16        |
| No.40      | 12        |
| No.50      | 11        |
| No.100     | 10        |
| No.200     | 7.1       |

## Test Procedure Information

Test Method

Procedure Used

Preparation Method

Description of Rammer

- ☒ ASTM D-1557 (Modified)
 ☐ ASTM D-698 (Standard)
- ☐ A
 ☐ B
 ☒ C
- ☐ Dry
 ☒ Moist
- ☐ Manual
 ☒ Mechanical

## Test Results

Corrected MDD (PCF) = 151.1

Corrected OMC (%) = 4.3

Oversize Fraction by Dry Weight

28 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

\* Specific Gravity, estimated

\*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content

Please feel free to contact our office if you have any questions.

Colby J. Pantori  
Laboratory Technician





MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78586

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 63,820 | 31.91 |
| Tare:  | 25,940 | 12.97 |
| Net:   | 37,880 | 18.94 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 18.94 Loads: 1       |
| Todate:    | 77.30                |

Weighmaster: Michelle 540106

2/03/2020 10:51 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 01 MISC. TAXABLE  
Deliver To: Huson

P.O.:  
**Product: 00083 #1-2 BLEND**  
Pile #:  
Vehicle: RO96 35191MH - Romack 96 Ford  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78586

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 63,820 | 31.91 |
| Tare:  | 25,940 | 12.97 |
| Net:   | 37,880 | 18.94 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78586

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 63,820 | 31.91 |
| Tare:  | 25,940 | 12.97 |
| Net:   | 37,880 | 18.94 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 18.94 Loads: 1       |
| Todate:    | 77.30                |

Weighmaster: Michelle 540106

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Deliver To: Huson

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**Product: 00083 #1-2 BLEND**  
Pile #:  
Vehicle: RO96 35191MH - Romack 96 Ford  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

# **CR #2 Crusher Run Stone**

## Brett, Alexander

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Monday, January 13, 2020 10:21 AM  
**To:** Gillen, Jennifer; Jeff Vander Veer; jgrobe@hamiltonstern.com; Folger, Jeffrey; Noll, Dan  
**Cc:** Caffoe, Todd (DEC)  
**Subject:** RE: C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

The Department has reviewed the request dated 12/26/2019 to import 600 tons of Crusher Run #2 and 500 tons of #1 & #2 Blend of fill material from The Dolomite Group Penfield Plant, 1150 Penfield Road, Rochester, N.Y. 14625. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed above the demarcation layer and will be a component of the site's final cover system.

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Tuesday, December 31, 2019 11:11 AM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Subject:** RE: C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

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

Contractor is estimating 600 tons of CR2 and up to 500 tons of 1&2 stone.

### Jennifer Gillen, PG

LaBella Associates | Brownfield & Phase II Program Manager

585-295-6648    direct  
585-454-6110    office

---

**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Thursday, December 26, 2019 2:07 PM  
**To:** Gillen, Jennifer  
**Subject:** RE: C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

Jen: Any idea how much is being imported?

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Thursday, December 26, 2019 12:55 PM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Cc:** Jeff Vander Veer <jvanderveer@hamiltonstern.com>; Joshua Grobe <jgrobe@hamiltonstern.com>; Folger, Jeffrey <JFolger@LaBellaPC.com>  
**Subject:** C828209 - Wollensack - Request for Import - CR2 and 1&2 Stone

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

Charlotte,

Please find a request to import application for CR2 to be used as parking lot subbase and 1&2 stone to be used as utility backfill. The material is to be obtained from Dolomite's Penfield facility. Gradation data is included in the application.

Thanks,  
Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager



585-295-6648    **direct**  
585-454-6110    **office**  
300 State Street, Suite 201  
Rochester, NY 14614  
[labellapc.com](http://labellapc.com)



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

NA - material exempt per DER 10 Section 5.4. See attached gradation analysis.

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Dolomite Group - Owner of quarry

Location where fill was obtained:

Dolomite's Penfield Quarry - 746 Whalen Road, Penfield, NY

Identification of any state or local approvals as a fill source:

NYSDOT Source #: 4-4R/4-4RS; DEC Mine File #80021

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Gradation analysis from Dolomite.

The information provided on this form is accurate and complete.



Signature

12/26/2019

Date

Jennifer Gillen

Print Name

LaBella Associates

Firm





**THE DOLOMITE GROUP**

DOLOMITE PRODUCTS COMPANY, INC  
 MANITOU CONSTRUCTION COMPANY, INC  
 ROCHESTER ASPHALT MATERIALS  
 IROQUOIS ROCK PRODUCTS  
 NORTHRUP MATERIALS

**MATERIAL SUBMITTAL**

1150 Penfield Road  
 Rochester, N.Y. 14625  
 Phone: (585) 381-7010  
 Fax : (585) 381-0208

**DATE:** 12/20/19**PAGE:** 1 of 1**TO:** Brian Dooley**OF:** Victor Exc.**PROJECT:** 872 Hudson Ave.**CRUSHED STONE:**

Penfield Plant

**NYSDOT Source #:** 4-4R / 4-4RS**Current NYSDOT Test #:** 19 AR 073 / 17 AR 88S

This is to certify that the Crushed Stone to be used on the above referenced project will be produced in accordance with the most current New York State Department of Transportation's, "Standard Specifications" and Addenda. All stone properties conform to sections 703.0201, 203, 304, 605 and 620 of the Specification. Specific values are listed below.

| PROPERTY                        | VALUE | SPEC.   |
|---------------------------------|-------|---------|
| Mag. Sulfate Loss               | 4     | 18 max. |
| LA Abrasion Loss                | 24    | 35 max. |
| Flat and Elongated Pieces - 3:1 | 4     | 30 max. |
| 5:1                             | 0     | 10 max. |
| Crushed Particles               | 100   | n.a.    |
| Deleterious Materials           | 0     | 2 max.  |

| TYPICAL GRADATIONS (All Values are % Passing) |                      |                |          |          |                 |            |
|-----------------------------------------------|----------------------|----------------|----------|----------|-----------------|------------|
| SIEVE SIZE                                    | CRUSHER RUN #2       | CRUSHER RUN #1 | #1 STONE | #2 STONE | #1 & #2 BLEND   | #1AW STONE |
| 4" (100 mm)                                   |                      |                |          |          |                 |            |
| 2" (50)                                       | 100                  |                |          |          |                 |            |
| 1 1/2" (37.5)                                 |                      |                |          | 100      | 100             |            |
| 1" (25)                                       | 78                   | 100            | 100      | 94       | 97              |            |
| 1/2" (12.5)                                   | 57                   |                | 91       | 14       | 53              | 100        |
| 1/4" (6.3)                                    | 38                   | 54             | 14       | 2        | 8               | 92         |
| #40 (0.425)                                   | 9                    | 12             |          |          |                 |            |
| #80 (.0177)                                   | 3                    | 3              | 1        | 1        | 1               |            |
| #200 (0.075)                                  | 5                    | 7              | 0.6      | 0.1      | 0.3             | 0.5        |
| Typical Item Numbers                          | 203.____<br>304.____ |                | 605.0901 |          | CA 2<br>ASTM 57 | 605.1001   |

**LIGHT STONE FILL**

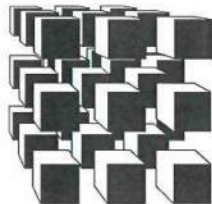
| SIZE                  | VALUE | SPEC     |
|-----------------------|-------|----------|
| Lighter Than 100 Lbs. | 100   | 90 - 100 |
| Larger Than 6"        | 55    | 50 - 100 |
| Smaller Than 1/2"     | 8     | 0 - 10   |

**Notes:**

- 1) Proctor Density typically runs at approx 142 +/-2 pcf at 6-8% Moisture.(For Crusher Run products only)
- 2) Medium and Heavy Stone Fill Items are selected at time of purchase to satisfy project requirements.

**Signed By:** *Christopher McClurg*

Christopher McClurg - Sales Representative



**LABORATORY TEST SUMMARY**

CME Report Number: 38669S-27

1/22/2019

Page 1 of 2

A CME Representative obtained a sample for use at the above referenced project. The sample was delivered to CME's Rochester facility, an AASHTO AMRL<sup>1</sup> accredited laboratory, for a Particle Size Analysis and a Moisture Density Relationship determination. The results are as follow:

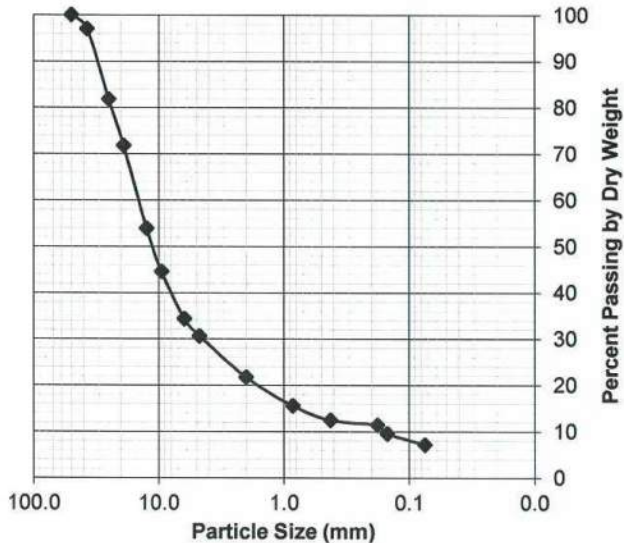
**1) Material Identification**

| <u>Sample #</u> | <u>Date Sampled</u> | <u>Description</u>    | <u>Source</u>     |
|-----------------|---------------------|-----------------------|-------------------|
| RL-12709        | 01/18/19            | #2 Crush of Run Stone | Dolomite Penfield |

**2) Particle Size Analysis ASTM D422**

| <u>Sieve Size</u> | <u>Sieve Size (mm)</u> | <u>% Passing by Dry Weight Sample # RL-12709</u> |
|-------------------|------------------------|--------------------------------------------------|
| 2"                | 50.0                   | 100                                              |
| 1 1/2"            | 37.5                   | 97                                               |
| 1"                | 25.0                   | 82                                               |
| 3/4"              | 19.0                   | 72                                               |
| 1/2"              | 12.5                   | 54                                               |
| 3/8"              | 9.50                   | 45                                               |
| 1/4"              | 6.25                   | 34                                               |
| #4                | 4.75                   | 31                                               |
| #10               | 2.00                   | 22                                               |
| #20               | 0.850                  | 16                                               |
| #40               | 0.425                  | 12                                               |
| #50               | 0.180                  | 11                                               |
| #100              | 0.150                  | 10                                               |
| #200              | 0.075                  | 7.1                                              |

**Grain Size Distribution**



**3) Moisture-Density Relationship (ASTM D-1557: Modified Proctor)**

|                                            | <u>Sample #</u> |
|--------------------------------------------|-----------------|
| Corrected Maximum Dry Density (pcf)        | <u>RL-12709</u> |
| Corrected Optimum Moisture Content (%)     | = 151.1         |
| Oversized Particles, Percent by Weight (%) | = 4.3           |
|                                            | = 28 *          |

\* Particles retained on 3/4-inch sieve

<sup>1</sup> AASHTO- American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory. AASHTO is a Federal Agency having jurisdiction to assess laboratory competence according to the standards of the United States. CME Rochester accreditation includes tests of Portland Cement Concrete, Aggregate and Soil Materials. www.aashtoresource.org

# LABORATORY TEST SUMMARY

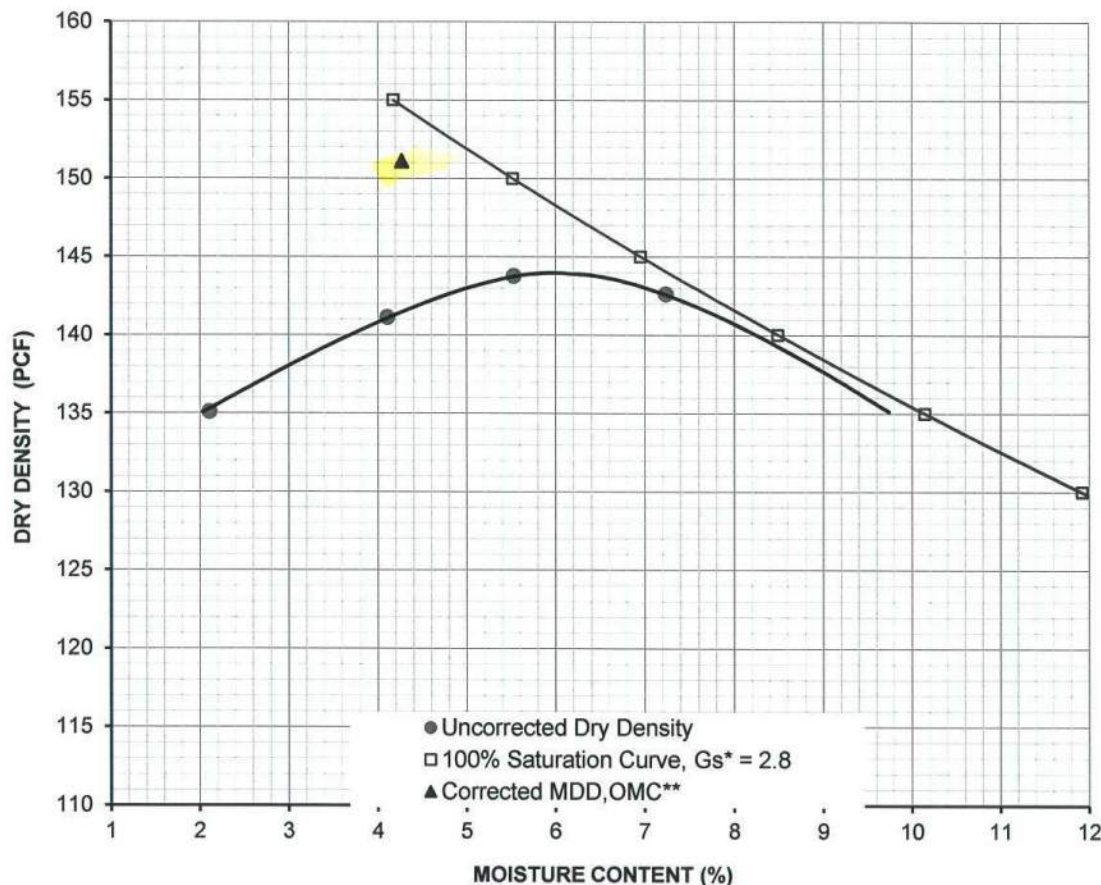
Happiness House  
Golisano Autism Center  
CME Report Number: 38669S-27  
Page 2 of 2



|                      |                       |               |          |
|----------------------|-----------------------|---------------|----------|
| SAMPLE LOCATION:     | Dolomite Penfield     | DATE SAMPLED: | 1/18/19  |
| SOIL CLASSIFICATION: | #2 Crush of Run Stone | SAMPLE NO.:   | RL-12709 |

## Moisture - Density Relationship Curve

## Particle Size Analysis ASTM D422



| Sieve Size | % Passing |
|------------|-----------|
| 2"         | 100       |
| 1-1/2"     | 97        |
| 1"         | 82        |
| 3/4"       | 72        |
| 1/2"       | 54        |
| 3/8"       | 45        |
| 1/4"       | 34        |
| No.4       | 31        |
| No.10      | 22        |
| No.20      | 16        |
| No.40      | 12        |
| No.50      | 11        |
| No.100     | 10        |
| No.200     | 7.1       |

## Test Procedure Information

|                       |                                                            |                                                |                                       |
|-----------------------|------------------------------------------------------------|------------------------------------------------|---------------------------------------|
| Test Method           | <input checked="" type="checkbox"/> ASTM D-1557 (Modified) | <input type="checkbox"/> ASTM D-698 (Standard) |                                       |
| Procedure Used        | <input type="checkbox"/> A                                 | <input type="checkbox"/> B                     | <input checked="" type="checkbox"/> C |
| Preparation Method    | <input type="checkbox"/> Dry                               | <input checked="" type="checkbox"/> Moist      |                                       |
| Description of Rammer | <input type="checkbox"/> Manual                            | <input checked="" type="checkbox"/> Mechanical |                                       |

## Test Results

Corrected MDD (PCF) = **151.1**  
Corrected OMC (%) = **4.3**

## Oversize Fraction by Dry Weight

28 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

\* Specific Gravity, estimated

\*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content

Please feel free to contact our office if you have any questions.

Colby J. Pantori  
Laboratory Technician



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77762

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,020 | 35.01 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 41,900 | 20.95 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 20.95 Loads: 1       |
| Todate:    | 10,429.42            |

Weighmaster: Michelle 540106

1/08/2020 7:14 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77762

COPY 2

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|--------|--------|-------|
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Ticket No.: 77762

COPY 3

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P.O.:

**Product: 00003 CR-2"**

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

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Ticket No.: 77767

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,620 | 32.31 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 37,900 | 18.95 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 39.90 Loads: 2  
Todate: 10,448.37

Weighmaster: Michelle 540106

Ticket No.: 77767

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,620 | 32.31 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 37,900 | 18.95 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 39.90 Loads: 2  
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Weighmaster: Michelle 540106

Ticket No.: 77767

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77772

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,280 | 35.14 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,160 | 21.08 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 60.98 Loads: 3       |
| Todate:    | 10,469.45            |

Weighmaster: Michelle 540106

1/08/2020 10:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77772

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
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| Tare:  | 28,120 | 14.06 |
| Net:   | 42,160 | 21.08 |

|            |                      |
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Ticket No.: 77772

COPY 3

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|        | Pounds | Tons  |
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77774

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,560 | 35.28 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,440 | 21.22 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 82.20 Loads: 4       |
| Todate:    | 10,490.67            |

Weighmaster: Michelle 540106

1/08/2020 11:15 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: 11SE 90550KA - schimpf rich kw  
Zone: None Haul Code: — Haul Units: 0.00  
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77774

COPY 2

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Ticket No.: 77774

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Vehicle: 11SE 90550KA - schimpf rich kw  
Zone: None Haul Code: — Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77781

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,340 | 35.17 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,220 | 21.11 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 103.31 Loads: 5      |
| Todate:    | 10,511.78            |

Weighmaster: Michelle 540106

1/08/2020 12:30 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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ROCHESTER, NY 14625 585-381-7010

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| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77781

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,340 | 35.17 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,220 | 21.11 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
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Deliver To: 872 Hudson Ave

P.O.:

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Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

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ROCHESTER, NY 14625 585-381-7010

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|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77781

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,340 | 35.17 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,220 | 21.11 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 103.31 Loads: 5      |
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Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77786

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 68,800 | 34.40 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 40,680 | 20.34 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 123.65 Loads: 6      |
| Todate:    | 10,532.12            |

Weighmaster: Michelle 540106

1/08/2020 1:42 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77786

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 68,800 | 34.40 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 40,680 | 20.34 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
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Deliver To: 872 Hudson Ave

P.O.:

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Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77786

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 68,800 | 34.40 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 40,680 | 20.34 |

|            |                      |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77789

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 71,200 | 35.60* |
| Tare:  | 28,120 | 14.06  |
| Net:   | 43,080 | 21.54  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 21.54 Loads: 1  
Totdate: 10,553.66

Weighmaster: Michelle 540106

1/09/2020 7:14 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: - Haul Units: 0.00

Received:

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| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77789

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 71,200 | 35.60* |
| Tare:  | 28,120 | 14.06  |
| Net:   | 43,080 | 21.54  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 21.54 Loads: 1  
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77789

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77790

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,000 | 36.00* |
| Tare:  | 26,980 | 13.49  |
| Net:   | 45,020 | 22.51  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 44.05 Loads: 2  
Todate: 10,576.17

Weighmaster: Michelle 540106

1/09/2020 7:16 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: SE12 94020mk/07 peter/schimpf  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77790

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,000 | 36.00* |
| Tare:  | 26,980 | 13.49  |
| Net:   | 45,020 | 22.51  |

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Remaining:

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P.O.:  
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77790

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\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,000 | 36.00* |
| Tare:  | 26,980 | 13.49  |
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P.O.:  
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Pile #:  
Vehicle: SE12 94020mk/07 peter/schimpf  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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ROCHESTER, NY 14625 585-381-7010

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| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77795

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 71,120 | 35.56* |
| Tare:  | 28,120 | 14.06  |
| Net:   | 43,000 | 21.50  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 65.55 Loads: 3  
Todate: 10,597.67

Weighmaster: Michelle 540106

1/09/2020 8:11 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77795

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 71,120 | 35.56* |
| Tare:  | 28,120 | 14.06  |
| Net:   | 43,000 | 21.50  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 65.55 Loads: 3  
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Weighmaster: Michelle 540106

1/09/2020 8:11 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77795

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 71,120 | 35.56* |
| Tare:  | 28,120 | 14.06  |
| Net:   | 43,000 | 21.50  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 65.55 Loads: 3  
Todate: 10,597.67

Weighmaster: Michelle 540106

1/09/2020 8:11 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77796

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,200 | 36.10* |
| Tare:  | 26,980 | 13.49  |
| Net:   | 45,220 | 22.61  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 88.16 Loads: 4  
Todate: 10,620.28

Weighmaster: Michelle 540106

1/09/2020 8:12 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77796

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,200 | 36.10* |
| Tare:  | 26,980 | 13.49  |
| Net:   | 45,220 | 22.61  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
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1/09/2020 8:12 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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ROCHESTER, NY 14625 585-381-7010

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77796

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,200 | 36.10* |
| Tare:  | 26,980 | 13.49  |
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Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77798

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,380 | 32.19 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 37,660 | 18.83 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 106.99 Loads: 5  
Totals: 10,639.11

Weighmaster: Michelle 540106

1/09/2020 8:28 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77798

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,380 | 32.19 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 37,660 | 18.83 |

Ordered:  
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77803

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 71,020 | 35.51 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,900 | 21.45 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 128.44 Loads: 6      |
| Todate:    | 10,660.56            |

Weighmaster: Michelle 540106

1/09/2020 9:00 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77803

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 71,020 | 35.51 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,900 | 21.45 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77803

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 71,020 | 35.51 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,900 | 21.45 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77804

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 71,140 | 35.57 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 44,160 | 22.08 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 150.52 Loads: 7      |
| Todate:    | 10,682.64            |

Weighmaster: Michelle 540106

1/09/2020 9:01 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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ROCHESTER, NY 14625 585-381-7010

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| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77804

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 71,140 | 35.57 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 44,160 | 22.08 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 150.52 Loads: 7      |
| Todate:    | 10,682.64            |

Weighmaster: Michelle 540106

1/09/2020 9:01 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

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|------------|--------------|----------|--------------|-----------|--------------|
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| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77804

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 71,140 | 35.57 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 44,160 | 22.08 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 150.52 Loads: 7      |
| Todate:    | 10,682.64            |

Weighmaster: Michelle 540106

1/09/2020 9:01 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.





MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

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|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77806

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,080 | 32.04 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 37,360 | 18.68 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 169.20 Loads: 8      |
| Todate:    | 10,701.32            |

Weighmaster: Michelle 540106

1/09/2020 9:28 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77806

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,080 | 32.04 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 37,360 | 18.68 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77808

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,820 | 35.41 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 42,700 | 21.35 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 190.55 Loads: 9  
Totdate: 10,722.67

Weighmaster: Michelle 540106

1/09/2020 9:50 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 11SE 90550KA - schimpf rich kw

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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Ticket No.: 77808

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77809

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,480 | 34.74 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 42,500 | 21.25 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 211.80 Loads: 10     |
| Todate:    | 10,743.92            |

Weighmaster: Michelle 540106

1/09/2020 9:51 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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Ticket No.: 77809

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77814

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 64,380 | 32.19* |
| Tare:  | 26,720 | 13.36  |
| Net:   | 37,660 | 18.83  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 230.63 Loads: 11  
Totdate: 10,762.75

Weighmaster: Michelle 540106

1/09/2020 11:00 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: - Haul Units: 0.00

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77814

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\*\*\* Outgoing \*\*\*

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Ticket No.: 77814

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77816

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,760 | 34.88 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 41,640 | 20.82 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 251.45 Loads: 12     |
| Todate:    | 10,783.57            |

Weighmaster: Michelle 540106

1/09/2020 11:07 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: 11SE 90550KA - schimpf rich kw  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77816

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| Received:  |                      |
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Deliver To: 872 Hudson Ave

P.O.:  
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Pile #:  
Vehicle: 11SE 90550KA - schimpf rich kw  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77816

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,760 | 34.88 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 41,640 | 20.82 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 251.45 Loads: 12     |
| Todate:    | 10,783.57            |

Weighmaster: Michelle 540106

1/09/2020 11:07 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: 11SE 90550KA - schimpf rich kw  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77817

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,740 | 34.87 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 42,760 | 21.38 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 272.83 Loads: 13  
Totals: 10,804.95

Weighmaster: Michelle 540106

1/09/2020 11:09 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: SE12 94020mk/07 peter/schimpf  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77817

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,740 | 34.87 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 42,760 | 21.38 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 272.83 Loads: 13  
Totals: 10,804.95

Weighmaster: Michelle 540106

1/09/2020 11:09 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: SE12 94020mk/07 peter/schimpf  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77817

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,740 | 34.87 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 42,760 | 21.38 |

Ordered:  
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Remaining:

Tax ID: 2605 / Monroe County  
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1/09/2020 11:09 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: SE12 94020mk/07 peter/schimpf  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77819

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 67,540 | 33.77 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 40,820 | 20.41 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 293.24 Loads: 14     |
| Todate:    | 10,825.36            |

Weighmaster: Michelle 540106

1/09/2020 11:43 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77819

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 67,540 | 33.77 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 40,820 | 20.41 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 293.24 Loads: 14     |
| Todate:    | 10,825.36            |

Weighmaster: Michelle 540106

1/09/2020 11:43 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77819

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 67,540 | 33.77 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 40,820 | 20.41 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 293.24 Loads: 14     |
| Todate:    | 10,825.36            |

Weighmaster: Michelle 540106

1/09/2020 11:43 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77823

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,480 | 36.24 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 45,500 | 22.75 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 315.99 Loads: 15     |
| Todate:    | 10,848.11            |

Weighmaster: Michelle 540106

1/09/2020 12:25 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77823

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,480 | 36.24 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 45,500 | 22.75 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 315.99 Loads: 15     |
| Todate:    | 10,848.11            |

Weighmaster: Michelle 540106

1/09/2020 12:25 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77823

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,480 | 36.24 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 45,500 | 22.75 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 315.99 Loads: 15     |
| Todate:    | 10,848.11            |

Weighmaster: Michelle 540106

1/09/2020 12:25 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.





MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/09/2020 12:41 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/09/2020 12:41 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/09/2020 12:41 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00  
**Received:**

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Ticket No.: 77824

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,800 | 32.40 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,080 | 19.04 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 335.03 Loads: 16  
Totdate: 10,867.15

Weighmaster: Michelle 540106

Ticket No.: 77824

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,800 | 32.40 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,080 | 19.04 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 335.03 Loads: 16  
Totdate: 10,867.15

Weighmaster: Michelle 540106

Ticket No.: 77824

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,800 | 32.40 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,080 | 19.04 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 335.03 Loads: 16  
Totdate: 10,867.15

Weighmaster: Michelle 540106



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77825

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,700 | 35.35 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 43,720 | 21.86 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 356.89 Loads: 17     |
| Todate:    | 10,889.01            |

Weighmaster: Michelle 540106

1/09/2020 1:14 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77825

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,700 | 35.35 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 43,720 | 21.86 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 356.89 Loads: 17     |
| Todate:    | 10,889.01            |

Weighmaster: Michelle 540106

1/09/2020 1:14 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77825

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 70,700 | 35.35 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 43,720 | 21.86 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 356.89 Loads: 17     |
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Pile #:

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Zone: None Haul Code: -- Haul Units: 0.00

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ROCHESTER, NY 14625 585-381-7010

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77827

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 63,600 | 31.80 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 36,880 | 18.44 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 375.33 Loads: 18     |
| Todate:    | 10,907.45            |

Weighmaster: Michelle 540106

1/09/2020 1:32 pm 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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ROCHESTER, NY 14625 585-381-7010

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77827

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
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| Tare:  | 26,720 | 13.36 |
| Net:   | 36,880 | 18.44 |

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Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)

Zone: None Haul Code: -- Haul Units: 0.00

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Ticket No.: 77827

COPY 3

\*\*\* Outgoing \*\*\*

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|--------|--------|-------|
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Pile #:

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77829

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,420 | 34.71 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 42,440 | 21.22 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 396.55 Loads: 19  
Todate: 10,928.67

Weighmaster: Michelle 540106

1/09/2020 2:03 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77829

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,420 | 34.71 |
| Tare:  | 26,980 | 13.49 |
| Net:   | 42,440 | 21.22 |

Ordered:  
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Deliver To: 872 Hudson Ave

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Pile #:

Vehicle: SE12 94020mk/07 peter/schimpf

Zone: None Haul Code: -- Haul Units: 0.00

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77833

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 73,380 | 36.69 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 45,260 | 22.63 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 22.63 Loads: 1       |
| Todate:    | 10,951.30            |

Weighmaster: Michelle 540106

1/10/2020 7:33 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77833

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 73,380 | 36.69 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 45,260 | 22.63 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 22.63 Loads: 1       |
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1/10/2020 7:33 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
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Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77833

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 73,380 | 36.69 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 45,260 | 22.63 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 22.63 Loads: 1       |
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1/10/2020 7:33 am 00902 - Penfield Stone  
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P.O.:

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Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

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ROCHESTER, NY 14625 585-381-7010

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77834  
COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,720 | 32.36 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,000 | 19.00 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 41.63 Loads: 2       |
| Todate:    | 10,970.30            |

Weighmaster: Michelle 540106

1/10/2020 7:39 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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ROCHESTER, NY 14625 585-381-7010

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77834  
COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,720 | 32.36 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,000 | 19.00 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 41.63 Loads: 2       |
| Todate:    | 10,970.30            |

Weighmaster: Michelle 540106

1/10/2020 7:39 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

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|------------|--------------|----------|--------------|-----------|--------------|
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| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77834  
COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 64,720 | 32.36 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,000 | 19.00 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 41.63 Loads: 2       |
| Todate:    | 10,970.30            |

Weighmaster: Michelle 540106

1/10/2020 7:39 am 00902 - Penfield Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77837

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,480 | 37.24 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 46,360 | 23.18 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 64.81 Loads: 3       |
| Todate:    | 10,993.48            |

Weighmaster: Michelle 540106

1/10/2020 8:33 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77837

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,480 | 37.24 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 46,360 | 23.18 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 64.81 Loads: 3       |
| Todate:    | 10,993.48            |

Weighmaster: Michelle 540106

1/10/2020 8:33 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77837

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,480 | 37.24 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 46,360 | 23.18 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 64.81 Loads: 3       |
| Todate:    | 10,993.48            |

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1/10/2020 8:33 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77838

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 65,500 | 32.75 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,780 | 19.39 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 84.20 Loads: 4       |
| Todate:    | 11,012.87            |

Weighmaster: Michelle 540106

1/10/2020 8:34 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77838

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 65,500 | 32.75 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,780 | 19.39 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 84.20 Loads: 4       |
| Todate:    | 11,012.87            |

Weighmaster: Michelle 540106

1/10/2020 8:34 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



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ROCHESTER, NY 14625 585-381-7010

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|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77838

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 65,500 | 32.75 |
| Tare:  | 26,720 | 13.36 |
| Net:   | 38,780 | 19.39 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 84.20 Loads: 4       |
| Todate:    | 11,012.87            |

Weighmaster: Michelle 540106

1/10/2020 8:34 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"  
Pile #:  
Vehicle: VSG2 25665MM 09 Peter (Victor Excavating)  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

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ROCHESTER, NY 14625 585-381-7010

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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77839  
COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,940 | 36.47 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 44,820 | 22.41 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 106.61 Loads: 5      |
| Todate:    | 11,035.28            |

Weighmaster: Michelle 540106

1/10/2020 9:32 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: MC02 16053MB - crupi 94 kw tri ax  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77839  
COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,940 | 36.47 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 44,820 | 22.41 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 106.61 Loads: 5      |
| Todate:    | 11,035.28            |

Weighmaster: Michelle 540106

1/10/2020 9:32 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: MC02 16053MB - crupi 94 kw tri ax  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77839  
COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,940 | 36.47 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 44,820 | 22.41 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 106.61 Loads: 5      |
| Todate:    | 11,035.28            |

Weighmaster: Michelle 540106

1/10/2020 9:32 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: MC02 16053MB - crupi 94 kw tri ax  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77841

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 73,280 | 36.64  |
| Tare:  | 27,960 | 13.98* |
| Net:   | 45,320 | 22.66  |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 129.27 Loads: 6      |
| Todate:    | 11,057.94            |

Weighmaster: Michelle 540106

1/10/2020 9:44 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: CT08 26516MM Red 06 Inter ( cutatia )

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77841

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 73,280 | 36.64  |
| Tare:  | 27,960 | 13.98* |
| Net:   | 45,320 | 22.66  |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 129.27 Loads: 6      |
| Todate:    | 11,057.94            |

Weighmaster: Michelle 540106

1/10/2020 9:44 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: CT08 26516MM Red 06 Inter ( cutatia )

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77841

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 73,280 | 36.64  |
| Tare:  | 27,960 | 13.98* |
| Net:   | 45,320 | 22.66  |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 129.27 Loads: 6      |
| Todate:    | 11,057.94            |

Weighmaster: Michelle 540106

1/10/2020 9:44 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: CT08 26516MM Red 06 Inter ( cutatia )

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/10/2020 10:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

**Product: 00003 CR-2"**

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.: 77842

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,460 | 37.23 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 46,340 | 23.17 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 152.44 Loads: 7  
Totdate: 11,081.11

Weighmaster: Michelle 540106



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/10/2020 10:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

**Product: 00003 CR-2"**

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.: 77842

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,460 | 37.23 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 46,340 | 23.17 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 152.44 Loads: 7  
Totdate: 11,081.11

Weighmaster: Michelle 540106



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/10/2020 10:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

**Product: 00003 CR-2"**

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

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Ticket No.: 77842

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,460 | 37.23 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 46,340 | 23.17 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 152.44 Loads: 7  
Totdate: 11,081.11

Weighmaster: Michelle 540106



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77849

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 73,120 | 36.56 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 45,000 | 22.50 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 174.94 Loads: 8      |
| Todate:    | 11,103.61            |

Weighmaster: Michelle 540106

1/10/2020 11:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77849

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 73,120 | 36.56 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 45,000 | 22.50 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 174.94 Loads: 8      |
| Todate:    | 11,103.61            |

Weighmaster: Michelle 540106

1/10/2020 11:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77849

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 73,120 | 36.56 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 45,000 | 22.50 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 174.94 Loads: 8      |
| Todate:    | 11,103.61            |

Weighmaster: Michelle 540106

1/10/2020 11:31 am **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: MC02 16053MB - crupi 94 kw tri ax

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77852

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,720 | 36.36 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 44,600 | 22.30 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 197.24 Loads: 9      |
| Todate:    | 11,125.91            |

Weighmaster: Michelle 540106

1/10/2020 12:28 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: MC02 16053MB - crupi 94 kw tri ax  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77852

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,720 | 36.36 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 44,600 | 22.30 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 197.24 Loads: 9      |
| Todate:    | 11,125.91            |

Weighmaster: Michelle 540106

1/10/2020 12:28 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: MC02 16053MB - crupi 94 kw tri ax  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
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| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 77852

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 72,720 | 36.36 |
| Tare:  | 28,120 | 14.06 |
| Net:   | 44,600 | 22.30 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 197.24 Loads: 9      |
| Todate:    | 11,125.91            |

Weighmaster: Michelle 540106

1/10/2020 12:28 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 872 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: MC02 16053MB - crupi 94 kw tri ax  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84790

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,080 | 34.54 |
| Tare:  | 27,080 | 13.54 |
| Net:   | 42,000 | 21.00 |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 234.28 Loads: 11    |
| Todate:    | 10,658.68           |

Weighmaster: Sam 600364

1/29/2020 1:33 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VE18 53915MD - Victor Ex 05 West

Zone: None Haul Code: — Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84790

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,080 | 34.54 |
| Tare:  | 27,080 | 13.54 |
| Net:   | 42,000 | 21.00 |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 234.28 Loads: 11    |
| Todate:    | 10,658.68           |

Weighmaster: Sam 600364

1/29/2020 1:33 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VE18 53915MD - Victor Ex 05 West

Zone: None Haul Code: — Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84790

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,080 | 34.54 |
| Tare:  | 27,080 | 13.54 |
| Net:   | 42,000 | 21.00 |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 234.28 Loads: 11    |
| Todate:    | 10,658.68           |

Weighmaster: Sam 600364

1/29/2020 1:33 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: VE18 53915MD - Victor Ex 05 West

Zone: None Haul Code: — Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/29/2020 2:14 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: 11SE 90550KA - SCHIMPF 02 KEN  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.: 84798

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,460 | 34.73 |
| Tare:  | 28,700 | 14.35 |
| Net:   | 40,760 | 20.38 |

Ordered:  
Received:  
Remaining:

Tax ID: 5402 / Wayne County  
Today: 254.66 Loads: 12  
Totals: 10,679.06

Weighmaster: Sam 600364



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/29/2020 2:14 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: 11SE 90550KA - SCHIMPF 02 KEN  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.: 84798

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,460 | 34.73 |
| Tare:  | 28,700 | 14.35 |
| Net:   | 40,760 | 20.38 |

Ordered:  
Received:  
Remaining:

Tax ID: 5402 / Wayne County  
Today: 254.66 Loads: 12  
Totals: 10,679.06

Weighmaster: Sam 600364



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

1/29/2020 2:14 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: 11SE 90550KA - SCHIMPF 02 KEN  
Zone: None Haul Code: - Haul Units: 0.00  
**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.: 84798

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 69,460 | 34.73 |
| Tare:  | 28,700 | 14.35 |
| Net:   | 40,760 | 20.38 |

Ordered:  
Received:  
Remaining:

Tax ID: 5402 / Wayne County  
Today: 254.66 Loads: 12  
Totals: 10,679.06

Weighmaster: Sam 600364



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84799

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 67,560 | 33.78  |
| Tare:  | 25,460 | 12.73* |
| Net:   | 42,100 | 21.05  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 275.71 Loads: 13    |
| Todate:    | 10,700.11           |

Weighmaster: Sam 600364

1/29/2020 2:15 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: C224 49766MK - Costanzo Vinny 99 Pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84799

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 67,560 | 33.78  |
| Tare:  | 25,460 | 12.73* |
| Net:   | 42,100 | 21.05  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 275.71 Loads: 13    |
| Todate:    | 10,700.11           |

Weighmaster: Sam 600364

1/29/2020 2:15 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: C224 49766MK - Costanzo Vinny 99 Pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84799

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 67,560 | 33.78  |
| Tare:  | 25,460 | 12.73* |
| Net:   | 42,100 | 21.05  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 275.71 Loads: 13    |
| Todate:    | 10,700.11           |

Weighmaster: Sam 600364

1/29/2020 2:15 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2019 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: C224 49766MK - Costanzo Vinny 99 Pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.





MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78522

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 66,400 | 33.20  |
| Tare:  | 26,580 | 13.29* |
| Net:   | 39,820 | 19.91  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 19.91 Loads: 1  
Totdate: 2,096.39

Weighmaster: Michelle 540106

1/30/2020 2:37 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 01 MISC. TAXABLE  
Deliver To: Huson

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: V-11 40893MG/04/VICTOR EXC.

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78522

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 66,400 | 33.20  |
| Tare:  | 26,580 | 13.29* |
| Net:   | 39,820 | 19.91  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 19.91 Loads: 1  
Totdate: 2,096.39

Weighmaster: Michelle 540106

1/30/2020 2:37 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 01 MISC. TAXABLE  
Deliver To: Huson

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: V-11 40893MG/04/VICTOR EXC.

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78522

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 66,400 | 33.20  |
| Tare:  | 26,580 | 13.29* |
| Net:   | 39,820 | 19.91  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 19.91 Loads: 1  
Totdate: 2,096.39

Weighmaster: Michelle 540106

1/30/2020 2:37 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 01 MISC. TAXABLE  
Deliver To: Huson

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: V-11 40893MG/04/VICTOR EXC.

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 62909

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,540 | 34.27* |
| Tare:  | 28,540 | 14.27  |
| Net:   | 40,000 | 20.00  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 20.00 Loads: 1  
Todate: 3,559.16

Weighmaster: PAT 260159

1/31/2020 7:59 am 00921 - Iroquois Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 872 hudson ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 33RB 37660mm - banks/02 pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 62909

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,540 | 34.27* |
| Tare:  | 28,540 | 14.27  |
| Net:   | 40,000 | 20.00  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 20.00 Loads: 1  
Todate: 3,559.16

Weighmaster: PAT 260159

1/31/2020 7:59 am 00921 - Iroquois Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 872 hudson ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 33RB 37660mm - banks/02 pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 62909

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,540 | 34.27* |
| Tare:  | 28,540 | 14.27  |
| Net:   | 40,000 | 20.00  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 20.00 Loads: 1  
Todate: 3,559.16

Weighmaster: PAT 260159

1/31/2020 7:59 am 00921 - Iroquois Stone  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 872 hudson ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 33RB 37660mm - banks/02 pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84986

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,460 | 34.23  |
| Tare:  | 28,000 | 14.00* |
| Net:   | 40,460 | 20.23  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 20.23 Loads: 1      |
| Todate:    | 10,720.34           |

Weighmaster: Sam 600364

1/31/2020 1:47 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: 33RB 47187JY - BANKS TRUCKING 2002PETER  
Zone: None Haul Code: - Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84986

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,460 | 34.23  |
| Tare:  | 28,000 | 14.00* |
| Net:   | 40,460 | 20.23  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 20.23 Loads: 1      |
| Todate:    | 10,720.34           |

Weighmaster: Sam 600364

1/31/2020 1:47 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: 33RB 47187JY - BANKS TRUCKING 2002PETER  
Zone: None Haul Code: - Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84986

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,460 | 34.23  |
| Tare:  | 28,000 | 14.00* |
| Net:   | 40,460 | 20.23  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 20.23 Loads: 1      |
| Todate:    | 10,720.34           |

Weighmaster: Sam 600364

1/31/2020 1:47 pm **00903 - WALWORTH STONE**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: 33RB 47187JY - BANKS TRUCKING 2002PETER  
Zone: None Haul Code: - Haul Units: 0.00  
Received:

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84989

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 73,000 | 36.50* |
| Tare:  | 28,180 | 14.09  |
| Net:   | 44,820 | 22.41  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 42.64 Loads: 2      |
| Todate:    | 10,742.75           |

Weighmaster: Sam 600364

1/31/2020 2:27 pm 00903 - WALWORTH STONE  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: CC30 93301MK - CC Trucking 17 Pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 84989

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 73,000 | 36.50* |
| Tare:  | 28,180 | 14.09  |
| Net:   | 44,820 | 22.41  |

|            |                     |
|------------|---------------------|
| Ordered:   |                     |
| Received:  |                     |
| Remaining: |                     |
| Tax ID:    | 5402 / Wayne County |
| Today:     | 42.64 Loads: 2      |
| Todate:    | 10,742.75           |

Weighmaster: Sam 600364

1/31/2020 2:27 pm 00903 - WALWORTH STONE  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 870 Hudson Ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: CC30 93301MK - CC Trucking 17 Pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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Ticket No.: 84989

COPY 3

\*\*\* Outgoing \*\*\*

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|--------|--------|--------|
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|            |                     |
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 62980

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,540 | 34.27* |
| Tare:  | 28,540 | 14.27  |
| Net:   | 40,000 | 20.00  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 20.00 Loads: 1  
Totdate: 3,600.16

Weighmaster: PAT 260159

2/03/2020 8:01 am **00921 - Iroquois Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 03 2020 SEASONAL AGGREGATES  
Deliver To: 872 hudson ave

P.O.:

Product: 00003 CR-2"

Pile #:

Vehicle: 33RB 37660mm - banks/02 pete

Zone: None Haul Code: -- Haul Units: 0.00

Received:

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 62980

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 68,540 | 34.27* |
| Tare:  | 28,540 | 14.27  |
| Net:   | 40,000 | 20.00  |

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78603

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 62,100 | 31.05 |
| Tare:  | 25,940 | 12.97 |
| Net:   | 36,160 | 18.08 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 18.08 Loads: 1       |
| Todate:    | 2,114.47             |

Weighmaster: Michelle 540106

2/03/2020 1:12 pm **00902 - Penfield Stone**  
Customer: 930946 VICTOR EXCAVATING, INC.  
Job: 01 MISC. TAXABLE  
Deliver To: Huson

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: RO96 35191MH - Romack 96 Ford  
Zone: None Haul Code: -- Haul Units: 0.00

Received:

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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78603

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 62,100 | 31.05 |
| Tare:  | 25,940 | 12.97 |
| Net:   | 36,160 | 18.08 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
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|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.: 78612

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 61,620 | 30.81 |
| Tare:  | 25,940 | 12.97 |
| Net:   | 35,680 | 17.84 |

|            |                      |
|------------|----------------------|
| Ordered:   |                      |
| Received:  |                      |
| Remaining: |                      |
| Tax ID:    | 2605 / Monroe County |
| Today:     | 35.92 Loads: 2       |
| Todate:    | 2,132.31             |

Weighmaster: Michelle 540106

2/03/2020 2:07 pm  
Customer: 930946  
Job: 01  
Deliver To: Huson

**00902 - Penfield Stone**  
VICTOR EXCAVATING, INC.  
MISC. TAXABLE

P.O.:  
Product: 00003 CR-2"  
Pile #:  
Vehicle: RO96 35191MH - Romack 96 Ford  
Zone: None Haul Code: -- Haul Units: 0.00  
Received:

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|            |                      |
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Deliver To: Huson

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MISC. TAXABLE

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# Flowable Fill



# Manitou Concrete

A CRH Company

Dispatch: (585) 424-6040 Ext. 2

Sales: (585) 424-6410 Ext 6



Delivery Ticket No.

316399

159456

1260 Jefferson Rd Rochester, NY 14623

|                  |                         |             |                |                                         |                    |                        |
|------------------|-------------------------|-------------|----------------|-----------------------------------------|--------------------|------------------------|
| DATE:<br>6/12/19 | CUSTOMER NO.:<br>999917 | ORDERED BY: | JOB No.:<br>51 | MAN-MSC-TAX<br>Manitou Taxable Projects | Order Qty:<br>8.00 | Delivered Qty:<br>8.00 |
|------------------|-------------------------|-------------|----------------|-----------------------------------------|--------------------|------------------------|

COD ROCK ENVIRONMENTAL  
Hudson & Ave D Rochester/GO/PAID  
590N, 104E, L Hudson, L Ave D east of interection on Hudson

Batch Time: 9:45 AM

Arrive Time: 10:30

Finish Pour:

Leave Site:

|                  |                                      |                    |                          |                                        |
|------------------|--------------------------------------|--------------------|--------------------------|----------------------------------------|
| Mix Code:<br>FKD | Mix Description:<br>K-CRETE_DUMPABLE | Batch Plant:<br>17 | Delivering Truck:<br>299 | Delivering Driver:<br>Finewood, Bernie |
|------------------|--------------------------------------|--------------------|--------------------------|----------------------------------------|

|                    |                |                                       |                                       |
|--------------------|----------------|---------------------------------------|---------------------------------------|
| Load Size:<br>8.00 | Slump:<br>9.00 | 8.00 yd K-CRETE_DUMP \$105.00 \$840.0 | 1.00 ea FUEL SURCHARGE \$25.00 \$25.0 |
|--------------------|----------------|---------------------------------------|---------------------------------------|

|                       |                  |
|-----------------------|------------------|
| Test Cylinder:<br>Y N | Air Test:<br>Y N |
|-----------------------|------------------|

Water added at Customer Request:

ANY TIME OVER 1/2 HOUR OR 8 MINUTES PER YARD, WHICHEVER IS  
GREATER, WILL BE CHARGED

|                    |                     |            |             |                |            |                       |                    |
|--------------------|---------------------|------------|-------------|----------------|------------|-----------------------|--------------------|
| PRICE:<br>\$105.00 | AMOUNT:<br>\$865.00 | ADDITIVES: | SMALL LOAD: | OTHER CHARGES: | WAIT TIME: | SALES TAX:<br>\$69.20 | TOTAL:<br>\$934.20 |
|--------------------|---------------------|------------|-------------|----------------|------------|-----------------------|--------------------|

ALL CHARGES ARE DUE NET 30 DAYS FROM THE DATE OF INVOICE. ALL BALANCES PAST DUE ARE SUBJECT TO A SERVICE CHARGE OF 2% PER MONTH (24% ANNUALLY). ANY FEES REQUIRED IN COLLECTION OF THIS ACCOUNT AND INTEREST DUE ARE TO BE PAID BY THE PURCHASER.

| Material Batch: | Description      | Design Qty | Required          | Batched             | % Var                         | %Moisture | Actual Wat | Sub.           |
|-----------------|------------------|------------|-------------------|---------------------|-------------------------------|-----------|------------|----------------|
| AG1301CS        | ASTM C33 SAND    | 3000 lb    | 25001 lb          | 25060 lb            | 0.24%                         | 4.17% A   | 1003 lb    |                |
| PO030112        | ASTM C150 PORTL  | 100 lb     | 800 lb            | 815 lb              | 1.88%                         |           |            |                |
| FA2401F         | ASTM C618 FLY AS | 200 lb     | 2400 lb           | 2405 lb             | 0.21%                         |           |            |                |
| WATER           | WATERW01         | 400.0 lb   | 2199.3 lb         | 2205.0 lb           | 0.26%                         |           | 2205.0 lb  |                |
| Actual Load     |                  | 29870 lb   | Design W/C: 1.333 | Water/Cement: 1.334 | Auto Actual 9:43:02 3208.1 lb |           |            | Manual 9:43:02 |

Load Completed Load Time: 2 : 26 ---Tares-----  
AGG SCALE B 1 ST 0 lb ET 40 lb + CEM SCALE B 1 ST 0 lb ET 0 lb WAT SCALE B 1 ST 90 lb + ET -5 lb

## Warning!! Injurious to Eyes; Causes Skin Irritation; Read This Warning Before Use; Contains Portland Cement.

Contact with wet, unhardened concrete, mortar, cement, or cement mixtures can cause skin irritation, severe chemical burns or serious eye damage. Avoid contact with eyes and skin. Wear waterproof gloves, a fully-buttoned long sleeved shirt, full length trousers and tight fitting eye protection when working with these materials. If you have to stand in wet concrete, use waterproof boots that are tight at the top and high enough to keep concrete from flowing into them. If you are finishing concrete, wear knee pads to protect knees. Wash wet concrete, mortar, cement or cement mixtures from your skin with fresh, clean water immediately after contact. Indirect contact through clothing can be as serious as direct contact, promptly rinse wet concrete, mortar, cement or cement mixtures from clothing. Seek immediate attention if you have persistent or severe discomfort. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately.

**KEEP OUT OF REACH OF CHILDREN. USER AGREES TO CONVEY THIS WARNING TO ALL PERSONS WHO MAY USE OR COME IN CONTACT WITH WET (UNHARDENED) CONCRETE, MORTAR, CEMENT, OR CEMENT MIXTURES.**

PRODUCT IDENTIFIER: Ready Mix Concrete; Manitou Concrete 1260 Jefferson Rd. Rochester, NY 14623 (585) 424-6040 Ext. 2

PRECAUTIONARY STATEMENTS (GHS-US) Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. RESPONSE If swallowed, rinse mouth. DO NOT induce vomiting. Immediately call a poison center/doctor. If inhaled, remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If exposed or concerned seek medical advice/attention. STORAGE Store locked up. Store in a well-ventilated place. Keep containers tightly closed in accordance with all local, regional, national, and international regulations. HAZARD PICTOGRAMS (GHS-US) SIGNAL WORD (GHS-US) Danger HAZARD STATEMENTS (GHS-US) ADDITIONAL INFORMATION Read the Safety Data Sheet (SDS) before handling this product to safeguard your health. SDS Can be obtained at [www.Dolomitegroup.com](http://www.Dolomitegroup.com)

THE UNDERSIGNED ASSUMES ALL RESPONSIBILITIES WHEN DELIVERY IS REQUESTED OFF THE PUBLIC HIGHWAY AND RELEASES MANITOU CONCRETE FROM LIABILITY THEREFROM AND WILL HOLD MANITOU CONCRETE HARMLESS FROM ANY LOSS IT SUFFERS ARISING THEREFROM.

ALL WARRANTIES AND GUARANTEES EITHER EXPRESSED OR IMPLIED ARE VOID IF WATER IS ADDED TO INCREASE SLUMP OR IF THE CONCRETE HAS BEEN ON THE TRUCK FOR MORE THAN (90) NINETY MINUTES FROM THE BATCH TIME STAMPED IN THE BOX.

INSPECTED, APPROVED &  
RECEIVED BY:



# Manitou Concrete

A CRH Company

Dispatch: (585) 424-6040 Ext. 2

Sales: (585) 424-6410 Ext 6



1260 Jefferson Rd Rochester, NY 14623

Delivery Ticket N

316347

Ctrl No: 39087

|                  |                         |             |                |                                         |                    |                        |
|------------------|-------------------------|-------------|----------------|-----------------------------------------|--------------------|------------------------|
| DATE:<br>6/11/19 | CUSTOMER NO.:<br>999917 | ORDERED BY: | JOB No.:<br>52 | MAN-MSC-TAX<br>Manitou Taxable Projects | Order Qty:<br>8.00 | Delivered Qty:<br>8.00 |
|------------------|-------------------------|-------------|----------------|-----------------------------------------|--------------------|------------------------|

COD Rock Environmental  
Hudson & Ave D Rochester/PAID  
590N, 104E, L Hudson, L Ave D east of interection on Hudson

Batch Time: 1:19 PM

Arrive Time:

Finish Pour:

Leave Site:

|                  |                                      |                    |                          |                                    |
|------------------|--------------------------------------|--------------------|--------------------------|------------------------------------|
| Mix Code:<br>FKD | Mix Description:<br>K-CRETE_DUMPABLE | Batch Plant:<br>01 | Delivering Truck:<br>286 | Delivering Driver:<br>Stadt, Tyler |
|------------------|--------------------------------------|--------------------|--------------------------|------------------------------------|

Load Size: 8.00 Slump: 7.00  
8.00 1.00 yd ea K-CRETE\_DUMP  
FUEL SURCHARGE

|                        |                   |
|------------------------|-------------------|
| Test Cylinder:<br>Y  N | Air Test:<br>Y  N |
|------------------------|-------------------|

Water added at Customer Request:

ANY TIME OVER 1/2 HOUR OR 8 MINUTES PER YARD, WHICHEVER IS  
GREATER, WILL BE CHARGED

|                    |                     |            |             |                |            |                       |                    |
|--------------------|---------------------|------------|-------------|----------------|------------|-----------------------|--------------------|
| PRICE:<br>\$105.00 | AMOUNT:<br>\$865.00 | ADDITIVES: | SMALL LOAD: | OTHER CHARGES: | WAIT TIME: | SALES TAX:<br>\$69.20 | TOTAL:<br>\$934.20 |
|--------------------|---------------------|------------|-------------|----------------|------------|-----------------------|--------------------|

ALL CHARGES ARE DUE NET 30 DAYS FROM THE DATE OF INVOICE. ALL BALANCES PAST DUE ARE SUBJECT TO A SERVICE CHARGE OF 2% PER MONTH (24% ANNUALLY). ANY FEES REQUIRED IN COLLECTION OF THIS ACCOUNT AND INTEREST DUE ARE TO BE PAID BY THE PURCHASER.

| Material Batch: | Description      | Design Qty        | Required            | Batched   | % Var  | %Moisture | Actual Wat      |
|-----------------|------------------|-------------------|---------------------|-----------|--------|-----------|-----------------|
| AG1301CS        | ASTM C33 SAND    | 3000 lb           | 25657 lb            | 25660 lb  | 0.01%  | 6.90% A   | 1656 lb         |
| PO030112        | ASTM C-150 PORTI | 100.0 lb          | 800.0 lb            | 800.0 lb  |        |           |                 |
| FA2401F         | ASTM C618 FLY AS | 200.0 lb          | 2400.0 lb           | 2400.0 lb |        |           |                 |
| WATER           | WATER 1          | 300 lb            | 741 lb              | 754 lb    | 1.73%  |           | 756 lb          |
| Actual          |                  | Num Batches: 1    |                     |           |        |           |                 |
| Load            | 28816 lb         | Design W/C: 1.000 | Water/Cement: 1.005 | A         | Actual | 2413.0 lb | Manual 13:16:59 |

Note: Manual feed occurred

Load Completed Load Time: 2 22

---Tares---

MIXER B: 1 Mixed 206 of 20 Sec. AGG SCALE B 1 ST 20 lb ET 40 lb CEM SCALE B 1 ST 5 lb ET 0 lb

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INSPECTED, APPROVED &  
RECEIVED BY: \_\_\_\_\_

# Recycled Concrete

## Brett, Alexander

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Friday, May 24, 2019 10:37 AM  
**To:** Gillen, Jennifer  
**Cc:** Brett, Alexander; Caffoe, Todd (DEC)  
**Subject:** RE: C828209 - Former Wollensack Optical - Request for Import

Thank you for the update and will put that in the file.

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Friday, May 24, 2019 10:21 AM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Cc:** Brett, Alexander <ABrett@LaBellaPC.com>; Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>  
**Subject:** RE: C828209 - Former Wollensack Optical - Request for Import

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

Hi Charlotte,

I just spoke with the contractor importing the recycled concrete from Dolomite. The Penfield Dolomite facility does not have any recycled concrete today but the Gates Dolomite facility does, so the contractor will be getting the recycled concrete from that facility. The Gates Dolomite facility registration number is 28W01.

Sorry for any confusion,  
Jen

### Jennifer Gillen, PG

LaBella Associates | Brownfield & Phase II Program Manager

585-295-6648    direct  
585-454-6110    office

---

**From:** Theobald, Charlotte B (DEC) [<mailto:charlotte.theobald@dec.ny.gov>]  
**Sent:** Thursday, May 23, 2019 5:42 PM  
**To:** Gillen, Jennifer  
**Cc:** Brett, Alexander; Caffoe, Todd (DEC)  
**Subject:** RE: C828209 - Former Wollensack Optical - Request for Import

Jen:

The recycled concrete as detailed in your 5/22/2019 request for import submittal is approved for import to the site Former Wollensack Optical site.

I am drafting a response to your email received at 4:18 PM today regarding some outstanding issues.

Charlotte

---

**From:** Gillen, Jennifer <[jgillen@LaBellaPC.com](mailto:jgillen@LaBellaPC.com)>  
**Sent:** Wednesday, May 22, 2019 7:45 PM

**To:** Theobald, Charlotte B (DEC) <[charlotte.theobald@dec.ny.gov](mailto:charlotte.theobald@dec.ny.gov)>  
**Cc:** Brett, Alexander <[ABrett@LaBellaPC.com](mailto:ABrett@LaBellaPC.com)>  
**Subject:** C828209 - Former Wollensack Optical - Request for Import

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

Hi Charlotte,

One of the contractors at the Wollensack BCP Site would like to bring in some recycled concrete to use for erosion control. The material will be brought in from a NYSDEC registered C&D processing facility (see attached form). Please let me know if you need any additional information to approve this request.

Also, I left you a voicemail this afternoon to catch up on project status, ask some questions about backfilling the former AST vault, etc. Is there a time that works for you tomorrow to discuss? I will be at a conference for a few hours in the morning but should be available from 11am-6pm tomorrow to chat on the phone.

Thanks,  
Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager



585-295-6648    **direct**  
585-454-6110    **office**  
300 State Street, Suite 201  
Rochester, NY 14614  
[labellapc.com](http://labellapc.com)



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

Ticket No.:

11069

COPY 3

\*\*\* Outgoing \*\*\*

5/24/2019 11:00 am **00901 - GATES STONE (01)**

Customer: 980876 FERRARI HOLDINGS, INC.

Job: 01 MISC. TAXABLE

Deliver To: 872 HUDSON AVE

P.O.:

**Product: 00112 RCS RECY CONC STONE**

Pile #:

Vehicle: FH43 4RE43 - ferrari hold 10 ken

Zone: None Haul Code: -- Haul Units: 0.00

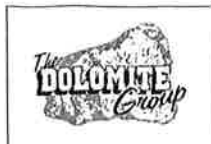
**Received:**

Ordered:  
Received:  
Remaining:

|                              |       |          |
|------------------------------|-------|----------|
| Tax ID: 2605 / Monroe County |       |          |
| Today:                       | 19.40 | Loads: 1 |
| Todate:                      | 19.40 |          |

Weighmaster: Bob Scholtz

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

5/24/2019 12:07 pm **00901 - GATES STONE (01)**

Customer: 980876 FERRARI HOLDINGS, INC.

Job: 01 MISC. TAXABLE

Deliver To: 872 HUDSON AVE

P.O.:

**Product: 00112 RCS RECY CONC STONE**

Pile #:

Vehicle: FH43 4RE43 - ferrari hold 10 ken

Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.:

11076

COPY 3

\*\*\* Outgoing \*\*\*

|        | <u>Pounds</u> | <u>Tons</u> |
|--------|---------------|-------------|
| Gross: | 45,160        | 22.58       |
| Tare:  | 23,660        | 11.83       |
| Net:   | 21,500        | 10.75       |

Ordered:

Received:

Remaining:

Tax ID: 2605 / Monroe County

Today: 30.15 Loads: 2

Todate: 30.15

Weighmaster: Bob Scholtz

# **Crusher Run #2 Stone for UST Backfill**



## Brett, Alexander

---

**From:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>  
**Sent:** Wednesday, December 18, 2019 10:30 AM  
**To:** Gillen, Jennifer; Dake, David B (DEC)  
**Cc:** Engert, Dave; Noll, Dan; Logan, Sarah; Detweiler, Eric; Caffoe, Todd (DEC); Zamiarski, Mike (DEC); Griffiths, Matthew J (DEC)  
**Subject:** RE: Spill #1907970 BCP #C828209 Jefferson Wollensack Hudson Ave

Jen:

The Department has reviewed the request dated 12/11/2019 and submitted 12/18/2019 to import 400-500 cubic yards of fill material from Dolomite's Penfield Quarry - 746 Whalen Road, Penfield, New York . Based on the information provided, the request is hereby approved. The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10. Therefore, this material may be placed as backfill material at the Site as part of the tank excavation activities. Please note that Crusher Run #2, Crusher Run #1, #1 Stone, #2 Stone, and #1 & #2 Blend meet the requirements as specified in DER-10 Section 5.4(e)5.

Best Regards,  
Charlotte

---

**From:** Gillen, Jennifer <jgillen@LaBellaPC.com>  
**Sent:** Wednesday, December 18, 2019 10:16 AM  
**To:** Theobald, Charlotte B (DEC) <charlotte.theobald@dec.ny.gov>; Dake, David B (DEC) <david.dake@dec.ny.gov>  
**Cc:** Engert, Dave <dengert@LaBellaPC.com>; dnoll@LABELLAPC.com; Logan, Sarah <slogan@LaBellaPC.com>; Detweiler, Eric <edetweiler@LaBellaPC.com>; Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>; Zamiarski, Mike (DEC) <mike.zamiarski@dec.ny.gov>; Griffiths, Matthew J (DEC) <matthew.griffiths@dec.ny.gov>  
**Subject:** RE: Spill #1907970 BCP #C828209 Jefferson Wollensack Hudson Ave

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

Hi Charlotte,

Please find attached the request to import application for the CR2 to be utilized as backfill for the tank pit at 872 Hudson Avenue. We are still planning to do the tank pull tomorrow. I apologize for the late notice in getting this request to you- we were waiting on the quarry for the gradation data. Fortunately, the material meets the DER-10 5.4 exemption.

Thanks,  
Jen

**Jennifer Gillen, PG**

LaBella Associates | Brownfield & Phase II Program Manager

585-295-6648    **direct**  
585-454-6110    **office**



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

NA- material is exempt from chemical testing per DER-10. Material is crusher run #2.

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

The Dolomite Group - owner of quarry where material is mined

Location where fill was obtained:

Dolomite's Penfield Quarry - 746 Whalen Road, Penfield, NY

Identification of any state or local approvals as a fill source:

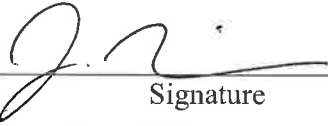
NYSDOT Source #: 4-4R/4-4RS; DEC Mine File #80021

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The attached document from Dolomite Group provides gradation values for the crusher run #2 material to be imported to the Site. This documentation indicates less than 10% of the material passes a size 80 sieve.

The information provided on this form is accurate and complete.



Signature

12/11/2019

Date

Jennifer Gillen

Print Name

LaBella Associates DPC

Firm

**THE DOLOMITE GROUP**

DOLOMITE PRODUCTS COMPANY, INC  
 MANITOU CONSTRUCTION COMPANY, INC  
 ROCHESTER ASPHALT MATERIALS  
 IROQUOIS ROCK PRODUCTS  
 NORTHRUP MATERIALS

**MATERIAL SUBMITTAL**

1150 Penfield Road  
 Rochester, N.Y. 14625  
 Phone: (585) 381-7010  
 Fax : (585) 381-0208

**DATE:** 12/18/19**PAGE:** 1 of 1**TO:** Jennifer Gillen**OF:** LaBella Associates**PROJECT:** 872 Hudson Ave.**CRUSHED STONE:**

Penfield Plant

**NYSDOT Source #:** 4-4R / 4-4RS**Current NYSDOT Test #:** 19 AR 073 / 17 AR 88S

This is to certify that the Crushed Stone to be used on the above referenced project will be produced in accordance with the most current New York State Department of Transportation's, "Standard Specifications" and Addenda. All stone properties conform to sections 703.0201, 203, 304, 605 and 620 of the Specification. Specific values are listed below.

| PROPERTY                               | VALUE | SPEC.   |
|----------------------------------------|-------|---------|
| Mag. Sulfate Loss                      | 4     | 18 max. |
| LA Abrasion Loss                       | 24    | 35 max. |
| Flat and Elongated Pieces - 3:1<br>5:1 | 4     | 30 max. |
|                                        | 0     | 10 max. |
| Crushed Particles                      | 100   | n.a.    |
| Deleterious Materials                  | 0     | 2 max.  |

| TYPICAL GRADATIONS (All Values are % Passing) |                      |                |          |          |                 |            |
|-----------------------------------------------|----------------------|----------------|----------|----------|-----------------|------------|
| SIEVE SIZE                                    | CRUSHER RUN #2       | CRUSHER RUN #1 | #1 STONE | #2 STONE | #1 & #2 BLEND   | #1AW STONE |
| 4" (100 mm)                                   |                      |                |          |          |                 |            |
| 2" (50)                                       | 100                  |                |          |          |                 |            |
| 1 1/2" (37.5)                                 |                      |                |          | 100      | 100             |            |
| 1" (25)                                       | 78                   | 100            | 100      | 94       | 97              |            |
| 1/2" (12.5)                                   | 57                   |                | 91       | 14       | 53              | 100        |
| 1/4" (6.3)                                    | 38                   | 54             | 14       | 2        | 8               | 92         |
| #40 (0.425)                                   | 9                    | 12             |          |          |                 |            |
| #80 (.0177)                                   | 3                    | 3              | 1        | 1        | 1               |            |
| #200 (0.075)                                  | 5                    | 7              | 0.6      | 0.1      | 0.3             | 0.5        |
| Typical Item Numbers                          | 203.____<br>304.____ |                | 605.0901 |          | CA 2<br>ASTM 57 | 605.1001   |

**LIGHT STONE FILL**

| SIZE                  | VALUE | SPEC     |
|-----------------------|-------|----------|
| Lighter Than 100 Lbs. | 100   | 90 - 100 |
| Larger Than 6"        | 55    | 50 - 100 |
| Smaller Than 1/2"     | 8     | 0 - 10   |

**Notes:**

- 1) Proctor Density typically runs at approx 142 +/-2 pcf at 6-8% Moisture.(For Crusher Run products only)
- 2) Medium and Heavy Stone Fill Items are selected at time of purchase to satisfy project requirements.

**Signed By:** Christopher McClurg

Christopher McClurg - Sales Representative



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

12/20/2019 9:47 am **00902 - Penfield Stone**  
Customer: 920016 LABELLA ASSOCIATES, DPC  
Job: 01 MISC. TAXABLE  
Deliver To: Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: D105 72741MA - silvarole 2005 pete  
Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

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ROCHESTER, NY 14625 585-381-7010

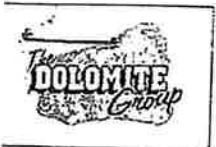
|            |              |          |              |           |              |
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| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

12/30/2019 10:19 am **00902 - Penfield Stone**  
Customer: 920016 LABELLA ASSOCIATES, DPC  
Job: 01 MISC. TAXABLE  
Deliver To: Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: D105 72741MA - silvarole 2005 pete  
Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.



MAIN OFFICE 1150 PENFIELD RD.  
ROCHESTER, NY 14625 585-381-7010

|            |              |          |              |           |              |
|------------|--------------|----------|--------------|-----------|--------------|
| GATES      | 585-235-9292 | WALWORTH | 315-524-2771 | BROCKPORT | 585-637-6834 |
| MANCHESTER | 315-462-2752 | PALMYRA  | 315-331-2360 | HOWARD    | 607-566-3422 |
| PENFIELD   | 585-586-2567 | LEROY    | 585-768-7295 | BATH      | 607-776-3357 |
|            |              | OGDEN    | 585-352-0460 |           |              |

12/20/2019 8:25 am **00902 - Penfield Stone**  
Customer: 920016 LABELLA ASSOCIATES, DPC  
Job: 01 MISC. TAXABLE  
Deliver To: Hudson Ave

P.O.:  
**Product: 00003 CR-2"**  
Pile #:  
Vehicle: D105 72741MA - silvarole 2005 pete  
Zone: None Haul Code: -- Haul Units: 0.00

**Received:**

It is the responsibility of each customer, and each driver, hauling product from our facility to comply with highway load limit laws. Tax exemptions, tax jurisdictions, and special tax handling not incorporated into a specific quote or reported at time of ticketing will be the customer's responsibility to resolve with the taxing jurisdictions. Pricing issues must be reported within 15 days of invoice date. Corrected invoices remain due on original due date. Incorporation of this material into a project shall be considered acceptance by the customer.

Ticket No.: 77219

COPY 3

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 73,280 | 36.64* |
| Tare:  | 27,720 | 13.86  |
| Net:   | 45,560 | 22.78  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 45.10 Loads: 2  
Todate: 45.10

Weighmaster: Michelle 540106

Ticket No.: 77457

COPY 2

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons  |
|--------|--------|-------|
| Gross: | 74,480 | 37.24 |
| Tare:  | 27,720 | 13.86 |
| Net:   | 46,760 | 23.38 |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 23.38 Loads: 1  
Todate: 68.48

Weighmaster: Michelle 540106

Ticket No.: 77208

COPY 1

\*\*\* Outgoing \*\*\*

|        | Pounds | Tons   |
|--------|--------|--------|
| Gross: | 72,360 | 36.18* |
| Tare:  | 27,720 | 13.86  |
| Net:   | 44,640 | 22.32  |

Ordered:  
Received:  
Remaining:

Tax ID: 2605 / Monroe County  
Today: 22.32 Loads: 1  
Todate: 22.32

Weighmaster: Michelle 540106