Second Quarter 2021 Groundwater Sampling and Analysis Report

Camp Bonneville
23201 NE Pluss Road
Vancouver, Washington 98682

Prepared for:
Clark County, Washington, and
Washington State Department of Ecology

November 2021
PBS Project 76151.009

4412 S CORBETT AVENUE
PORTLAND, OR 97239
503.248.1939 MAIN
866.727.0140 FAX
PBSUSA.COM

Table of Contents

Supporting Data

FIGURES

TABLES

APPENDICES

1 INTRODUCTION

This report documents the results of second quarter 2021 groundwater monitoring at the Camp Bonneville Military Reservation (Camp Bonneville) in Vancouver, Washington (Figure 1). The work was performed by PBS Engineering and Environmental Inc. (PBS) under contract to Clark County (County).

Groundwater monitoring was performed in accordance with the Health and Safety Plan for Groundwater and Surface Water Monitoring Activities (HASP),[1] the Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan (SAP/QAPP),[2] and Amendment #1 to the SAP/QAPP.[3] Laboratory analytical services were provided by Anatek Labs located in Moscow, Idaho, under contract with PBS.

Acronyms used in this report are defined on first use. Please refer to Appendix A for a list of acronyms and abbreviations.

2 Site Background

2.1 Site History[4]

Camp Bonneville comprises approximately 3,840 acres and is in southwestern Washington, approximately 10 miles northeast of Vancouver (Figure 1). The United States Army used Camp Bonneville for live fire of small arms, assault weapons, artillery, and field and air defense artillery between 1910 and 1995. Since 1947, Camp Bonneville has also provided training for a variety of military and nonmilitary units including the National Guard; Army Reserves; Air Force; and federal, state, and local law enforcement agencies.

In July 1995, Camp Bonneville was selected for closure under the 1995 Base Realignment and Closure (BRAC) process, and transferred to the County for public benefit, education, law enforcement training, and parks. Transfer of Camp Bonneville to the Trust for Public Land, and subsequently to the County, began in 2006. On October 3, 2006, the County entered a Prospective Purchaser Consent Decree with the Washington State Department of Ecology (Ecology) that required investigating and remediating the site.

Ordnance and explosive (OE) items were found within Camp Bonneville's boundaries, and removal efforts of OE were performed, with a few ongoing efforts. Some of the OE items were determined to be unexploded ordnance (UXO). Current activities include assessment and management of OE and UXO by qualified munitions contractors with knowledge and experience in military ordnance, ordnance components, explosives location, identification, render safe, recovery/removal, transportation, and disposal safety precautions. The historical use and storage of OE and UXO have impacted groundwater at Camp Bonneville, and monitoring these impacts is the purpose of this monitoring event.

2.2 Camp Bonneville Geology

Camp Bonneville is situated north of the Portland Basin in the foothills of the Cascade Range. The general area consists of Eocene and Miocene volcanic and sedimentary rocks, with Holocene sedimentary rocks in valleys

[1] PBS Engineering and Environmental Inc. (November 16, 2017). *Health and Safety Plan for Groundwater and Surface Water Monitoring Activities*.
[2] PBS Engineering and Environmental Inc. (February 22, 2018). *Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan, Remedial Action Units 2C and 3, Camp Bonneville, 23201 NE Pluss Road, Vancouver, Washington 98682*.
[3] PBS Engineering and Environmental Inc. (March 5, 2019). *Amendment #1 – Changes to Table 4-1A and 4-1B in the Supplemental Groundwater and Surface Water Remedial Investigation Sampling and Analysis Plan and Quality Assurance Project Plan, Remedial Action Units 2C and 3, Dated February 2018, Camp Bonneville, Vancouver, Washington*.
[4] Shannon & Wilson. (1999). *Multi-Sites Investigation Report, Camp Bonneville, Vancouver, Washington,* (Vol. 1). Contract No. DACA67-94-D-1014.

and areas where gravels of the Troutdale Formation can be found.[5] The geology at Camp Bonneville can be divided into three general areas that correspond approximately to topographic divisions.[6]

Lacamas Creek flows through Camp Bonneville from the northeast to southwest. The area west of Lacamas Creek comprises a series of predominantly gravelly and semi-consolidated conglomerate with scattered lenses and stringers of sand (Upper Troutdale formation). Underlying this formation and comprising the area to the north and east of Lacamas Creek are folded and faulted basalt flows, flow breccia, and pyroclastic and andesitic rocks.

The northwest portion of the site is located on a terrace where the land slopes down from the west, north, and east. Two tributaries exit ravines at the north end of the terrace and drain across the western edge to become North Fork Lacamas Creek. The terraced area likely resulted from an accumulation of material historically transported by the tributaries, contributing to the predominantly low- to medium-plasticity clay observed in the borings for the wells installed in this area. According to the boring logs in the landfill/demolition area (Landfill 4/Demolition Area 1), competent bedrock (andesite) was encountered between 440 and 460 feet above mean sea level (amsl), which is approximately 50 to 75 feet below ground surface (bgs). Sub-rounded and sub-angular gravel in the borings point to colluvial deposition of the soil.

The southwest corner of Camp Bonneville is where Lacamas Creek exits the site. The valley floor along Lacamas Creek contains unconsolidated silt, sand, and gravel valley fill, with some clay.

3 SITEWIDE GROUNDWATER MONITORING PROGRAM

3.1 Project Objectives

The overall objectives of site investigations at Camp Bonneville have been to identify contaminated areas and determine the next appropriate steps toward their restoration. Contaminated areas at Camp Bonneville have been divided into five remedial action units (RAU) that are differentiated by the nature of a contaminant. This quarterly report describes the results of ongoing monitoring of RAU 2C (sitewide groundwater) to assist with achieving the goal of site restoration.

Two areas associated with RAU 2C are currently being monitored, which include Landfill 4/Demolition Area 1 located in the northwest portion of the site and Base Boundary at Lacamas Creek (Base Boundary) located in the southwest portion of the site (Figure 2). Wells have been installed in these areas to monitor shallow and deeper groundwater zones to maximum depths of approximately 75 feet bgs.

3.2 Chemicals of Potential Concern

Historical uses of Camp Bonneville's upgradient areas include firing ranges, landfills, open burning locations, open detonation locations, and general maintenance facilities. Chemicals of potential concern (COPCs) include artillery propellants, high explosives residue, missile/rocket propellants, petroleum hydrocarbons, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), and metals. A summary of COPCs is provided in the SAP/QAPP, along with specific analytes and laboratory analysis methods, sample container types, preservation techniques, holding times, and data quality objectives (DQOs).

[5] Phillips, W.M. (1987). [Map]. Geologic Map of the Vancouver Quadrangle, Washington and Oregon: Washington Division of Geology and Earth Resources Open File Report 87-10, scale 1:100,000.
[6] Otak, Inc. (September 1998, 2nd Revision 15 November 2005). *Camp Bonneville Reuse Plan.* Prepared for The Camp Bonneville Local Redevelopment Authority (LRA).

Results from long-term monitoring indicate analysis for specific COPCs is warranted to assess contaminant levels throughout Camp Bonneville and to determine if impacts are leaving the site. For RAU 2C (analyzed at Landfill 4/Demolition Area 1 and Base Boundary), the COPC list for quarterly monitoring is as follows:

- Explosives by Environmental Protection Agency (EPA) Method 8330B
- Perchlorate by EPA Method 6850
- VOCs by EPA Method 8260C
- Field measurements of temperature, specific conductivity, dissolved oxygen (DO), pH, oxidation reduction potential (ORP), turbidity, and depth to water levels

In the first quarter of each year, analysis for the following COPCs occurs at three on-site water supply wells:

- Explosives by EPA Method 8330B
- Perchlorate by EPA Method 6850
- VOCs by EPA Method 8260C
- Field measurements of temperature, specific conductivity, DO, pH, and ORP

In the third quarter of each year, three surface water samples are collected to determine if groundwater is impacting surface water at the site. The COPC list for the surface water samples is as follows:

- 1,3,5-Trinitro-1,3,5-triazinane (RDX) by EPA Method 8330B
- Perchlorate by EPA Method 6850
- Field measurements of temperature, specific conductivity, DO, pH, ORP, and turbidity
- Observations of stream conditions are noted on the field form

In the fourth quarter of each year, analysis for the following additional COPCs occurs at the Base Boundary wells:

- Priority pollutant metals by EPA Methods 6020/7470A
- SVOCs by EPA Method 8270C

3.3 Monitoring Program Locations

The current RAU 2C Camp Bonneville monitoring program requires groundwater sampling and analysis for 28 monitoring wells, shown on Figure 3 (Base Boundary) and Figure 4 (Landfill 4/Demolition Area 1). In addition, three water supply wells and three surface water locations are sampled annually.

3.3.1 Monitoring Well Information[7]

Over the years, different numerical designations have been assigned to monitoring wells at the investigation areas. PBS uses the numbering system assigned by the US Army Center for Health Promotion and Preventive Medicine (CHPPM) in prior remedial investigation (RI) reports. Table 1 provides well information, including the monitoring well numbers used by PBS, Ecology well tag numbers, and well identification numbers for the Base Boundary and Landfill 4/Demolition Area 1 wells. The table also identifies the investigation area for each well along with total depth, screened interval, and top-of-casing elevation.

The monitoring wells located at Base Boundary and Landfill 4/Demolition Area 1 are listed below (S or A = shallow well; D or B = deeper well) according to the CHPPM numbers.

[7] PBS Engineering and Environmental Inc. (August 16, 2004b). *Monitoring Well Installation Report, Landfill 4/Lacamas Creek: Camp Bonneville, Vancouver, Washington.*

- Base Boundary
  - Paired Monitoring Wells: LC-MW01S and LC-MW01D
  - Paired Monitoring Wells: LC-MW02S and LC-MW02D
  - Paired Monitoring Wells: LC-MW03S and LC-MW03D
  - Paired Monitoring Wells: LC-MW04S and LC-MW04D
  - Paired Monitoring Wells: LC-MW09S and LC-MW09D
- Landfill 4/Demolition Area 1
  - Monitoring Well L4-MW17
  - Monitoring Well L4-MW18
  - Paired Monitoring Wells: L4-MW01A and L4-MW01B
  - Paired Monitoring Wells: L4-MW02A and L4-MW02B
  - Paired Monitoring Wells: L4-MW03A and L4-MW03B
  - Monitoring Well L4-MW04A
  - Monitoring Well L4-MW05A
  - Monitoring Well L4-MW07B
  - Paired Monitoring Wells: L4-MW08A and L4-MW08B
  - Paired Monitoring Wells: L4-MW09A and L4-MW09B
  - Paired Monitoring Wells: L4-MW10A and L4-MW10B
  - Monitoring Well L4-MW11B

3.4 Second Quarter 2021 Scope of Work

Monitoring activities include the following:

- Depth to water measurements from the currently sampled monitoring well network
- Collection and analysis of groundwater samples from select wells in Landfill 4/Demolition Area 1 and Base Boundary

This monitoring is conducted in accordance with the project SAP/QAPP. The analytical results obtained from quarterly monitoring are compared with cleanup levels established by Ecology under the Model Toxics Control Act (MTCA)[8] to determine if the groundwater or surface water potentially poses an unacceptable environmental risk to human health or the environment. All data are stored in an Earthsoft Environmental Quality Information System (EQuIS) electronic database that includes data from 2007 to present.

4 RECENT MONITORING ACTIVITIES

Groundwater samples were collected from the 10 monitoring wells located at Base Boundary (Figure 3) on June 14 and 15, 2021. A field duplicate sample (labeled 02Q21LCMW140W) was collected from monitoring well LC-MW03D. An additional volume of groundwater was collected from monitoring well LC-MW03S for laboratory matrix spike/matrix spike duplicate (MS/MSD) analysis.

Groundwater samples were collected from six monitoring wells at Landfill 4/Demolition Area 1 (Figure 4) on June 15 and 16, 2021. One field duplicate sample (labeled 02Q21L4MW145W) was collected from monitoring well L4-MW8B.

Samples were collected in new laboratory-supplied sample containers directly from the end of the dedicated pump discharge hose. Groundwater samples requiring preservatives were collected in sample bottles filled with the appropriate amounts of preservative solution by the contract laboratory.

[8] http://apps.leg.wa.gov/WAC/default.aspx?cite=173-340

The monitoring well locations were sampled in accordance with the procedures established in the SAP/QAPP. Additional sampling details are provided below.

4.1 Groundwater Sample Collection

A low-flow, minimal-drawdown technique was employed for monitoring well groundwater purging and sampling using dedicated Solinst bladder pumps constructed of a polyvinyl chloride (PVC) or stainless-steel body and a Teflon bladder. The low-flow purging technique is described in the SAP/QAPP. Low-flow sampling minimizes disturbance to the aquifer and is designed to ensure that representative samples are collected from the wells.

4.2 Quality Assurance/Quality Control Samples

Duplicate samples were collected at a frequency of at least one per every 10 samples and at least one per area, with one collected from Base Boundary and one from Landfill 4/Demolition Area 1. Matrix spike/matrix spike duplicate (MS/MSD) samples were collected at a frequency of at least one per every 20 samples. Trip blanks were submitted with all shipments containing samples for VOC analysis. Dedicated pumps in the wells at Base Boundary and Landfill 4/Demolition Area 1 eliminate the need for equipment blanks.

4.3 Deviations from SAP/QAPP

This section is intended to discuss deviations from established protocols as well as to note unusual conditions or equipment issues encountered. At the request of Ecology and Clark County, only 6 of the 18 monitoring wells in Landfill 4/Demolition Area 1 were sampled during this monitoring event.

4.4 Investigation-Derived Waste (IDW)

Gloves and other disposable field supplies were disposed as solid waste. Purged groundwater was placed in 55-gallon drums that were sealed, labeled, and placed in the maintenance shed area. The drums will be picked up later for proper disposal.

5 GROUNDWATER MONITORING RESULTS

5.1 Base Boundary at Lacamas Creek

Groundwater elevations and field parameters are provided in Table 2 for the second quarter 2021. Figure 5A illustrates groundwater contours and flow direction for the Base Boundary shallow wells, and Figure 5B for the Base Boundary deep wells.

Table 3 summarizes analytical results for the contaminants of concern (COCs) at Base Boundary. Of the 10 wells in the base boundary area, there were no COCs detected above the laboratory method reporting limits (MRLs).

5.2 Landfill 4/Demolition Area 1

Groundwater elevations are provided in Table 2 for the second quarter 2021. Figure 6A illustrates groundwater contours and flow direction for the Landfill 4 shallow wells, and Figure 6B for the Landfill 4 deep wells.

Wells L4-MW17 and L4-MW18 are located topographically downgradient from the Landfill 4 area and are not included in groundwater flow discussion. Well L4-MW07B is screened in the same area of the aquifer as the other deep wells at the Landfill 4 area (above bedrock) and is included in the deep groundwater flow discussion.

Table 3 summarizes analytical results for the COCs at Landfill 4/Demolition Area 1.

Of the six wells in the Landfill 4/Demolition Area 1 area, five had one or more detections of perchlorate or RDX that exceeded MTCA Method B cleanup levels (see Table 3), and only two wells had VOC detections. The results are discussed further in section 8.

6 DATA QUALITY REVIEW AND VALIDATION

The overall DQO is to provide data of known and sufficient quality to evaluate the physical extent and concentration ranges of COPCs from analysis of groundwater samples, and to assure compliance with environmental and health-related agencies. DQOs for laboratory analysis are presented in the SAP/QAPP. Laboratory analytical data were evaluated with respect to quality assurance objectives for precision, accuracy, representativeness, comparability, and completeness parameters. The second quarter data met the following criteria:

- Analytical data were received from the laboratory in an electronic data deliverable (EDD) format that was imported into the EQuIS database.
- Qualifiers from the laboratory were included as well as any qualifiers resulting from data validation procedures conducted by PBS.
- The project specifications were met for all analytes, indicating that the sampling and analysis procedures were reproducible.
- The laboratory report narratives state that all quality control parameters that affect sample analysis were met, except as noted in section 6.7 below.

6.1 Data Validation

All analytical data were validated at a Level II review standard. Level II validation and reporting includes a brief narrative of the laboratory data along with presentation of the sample results and related quality assurance/quality control (QA/QC) analyses. Additionally, at least 20% of the analytical data (13 of 20 samples) were validated at a Level III review standard. Level III validation adds the following list to the reporting (not all method requirements are applicable to each analysis in this sampling event):

- Internal standards
- Blank association
- Serial dilution results
- Post-digestion spike results
- Gas chromatography/mass spectrometer (GC/MS) tune table
- Initial calibration table
- Continuing calibration verifications
- Calibration blanks
- Column confirmation
- Instrument run log
- Interference check solution A/interference check solution AB (ICSA/AB), contract required detection limit (CRDL), method detection limit/instrument detection limit (MDL/IDL) form

These data validation levels follow the criteria in the EPA's *Data Quality Objectives for Remedial Response Activities Development Process*,[9] National Technical Information Service.

[9] Environmental Protection Agency (EPA). (1987b). *Data Quality Objectives for Remedial Response Activities-Development Process.* EPA/540/G-87/003, OSWER Directive 9355.07B, EPA, Washington, DC (PB88-131370).

6.2 Presentation of Data

There were two sample submissions over three days. Samples were placed in two sample delivery groups (SDGs) by Anatek. SDG MBF0598 was processed as a Level II data package, and MBF0598 at a Level III data package. Laboratory reports are included on a compact disc (CD) with the printed third quarter report and are in the electronic version of the report. The Level II data package is found in Appendix C, and the Level III data package is found in Appendix D.

6.3 Field Quality Control Sample Assessment

6.3.1 Trip Blanks

Trip blanks and groundwater samples for VOC analysis were consolidated daily into one cooler for shipment to the laboratory. Trip blanks were included daily on June 15 and 16, 2021. All trip blanks were analyzed for VOCs and there were no detections.

6.3.2 Duplicates

Duplicate samples were collected from the two study areas (Base Boundary, Landfill 4/Demolition Area 1). These samples were analyzed for the same constituents as the source samples.

The relative percent difference (RPD) was calculated as the difference between the values divided by the average of the values. For samples with results greater than five times the practical quantitation limit (PQL), an RPD of less than 20% is considered good duplication. For samples with results less than five times the PQL, the difference between the sample and its duplicate must be less than the PQL to meet the quality assurance acceptance criteria. A significant difference between duplicate values for a few parameters would indicate potential problems with the precision of specific analyses. A significant difference for many parameters would indicate potential problems with the sample collection procedures. The following are the results of duplicate sampling for this event:

- **Base Boundary at Lacamas Creek Duplicate**
  The field duplicate analysis for well LC-MW03D met quality control requirements.
- **Landfill 4/Demolition Area 1 Duplicate**
  The field duplicate analyses for well L4-MW8B met quality control requirements for explosives, perchlorate, and all VOCs except for 1,1-dichloroethane, 1,1-dichloroethene, and 1,1,1-trichloroethane that were detected in the duplicate but not the parent sample. Results from these three VOCs should be considered estimated.

6.4 Sample Handling and Control

The chain-of-custody forms indicate that samples were maintained under proper custody. Forms were signed upon release from the field and receipt at the laboratory. Samples were received by the laboratory at temperatures within acceptable limits and with proper preservation. All reported analytical results were performed within applicable method-specified holding times.

6.5 Method Reporting Limits

All samples either met laboratory specified MRLs as presented in the project SAP/QAPP or were detected with elevated MRLs due to high analyte concentrations.

6.6 Field Data Quality Assessment

There are no specific DQOs for the measurement of field parameters (temperature, pH, ORP, conductivity, DO, and turbidity). Temperature, pH, ORP, conductivity, and DO were measured during purging. Turbidity was measured during sample collection. The PBS standard operating procedure (SOP) for low-flow groundwater

sampling describes the acceptable criteria for the measurement of field parameters. A copy of the SOP is provided in the SAP/QAPP.

6.7 Laboratory Quality Control Assessment

The analytical data quality evaluations performed by Anatek are presented in the laboratory analysis reports in Appendix B and Appendix C (provided on the enclosed CD). Analytical results requiring qualification are flagged by the laboratory with codes describing data quality anomalies. Case narratives describing sample receipt, identification, and general comments by laboratory personnel are included in each report.

6.7.1 Laboratory Quality Control Samples/Indicators

6.7.1.1 Blanks

There were no detections of target compounds in the method blanks for analyses reported for this sampling event.

6.7.1.2 Laboratory Control Samples

Laboratory control sample (LCS) recoveries were within specified control limits, except the LCS and/or LCS duplicate (LCSD) recovered below the lower control limit (biased low) in batch BBF0680 for 4-amino-2,6-dinitrotoluene and 3-nitrotoluene. The LCS/LCSD RPD was within control limits and the samples were non-detect for these analytes; therefore, the data are considered accurate and valid.

6.7.1.3 Matrix Spike/Matrix Spike Duplicates

MS/MSD recoveries and RPDs for MS/MSD pairs were within specified control limits, except for the following:

- MS and/or MSD recoveries were below the lower control limit (biased low) in batch BBF0747 for m/p xylenes, styrene, o-xylene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. LCS data were within control limits, and the affected samples were non-detect for these compounds; therefore, the data are considered accurate and valid.
- The MS/MSD RPD was outside control limits in batch BBF0747 for m/p xylenes, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. The LCS/LCSD recoveries were within control limits indicating the instruments were working correctly; therefore, accuracy is not expected to be affected and the data are considered accurate and valid.

6.7.1.4 Surrogates

Surrogate recoveries from VOC and explosives analyses were within specified control limits; therefore, the data are considered accurate and valid.

6.7.1.5 Internal Standards

Internal standard issues were not noted in the SDGs.

6.7.2 Level III Data Review

The data package for the SDGs receiving Level III data reporting (MBF0547) was reviewed for adherence to method criteria that exceed Level II reporting. There were no deviations from method criteria.

7 HYDROGEOLOGY DISCUSSION

7.1 Base Boundary/Lacamas Creek

The second quarter 2021 shallow and deep monitoring well groundwater contours are shown on Figures 5A and 5B. Shallow (S) wells have screen intervals between 15 and 20 feet bgs with 5-foot length screens, and deep (D) wells have screen intervals between 30 and 40 feet bgs with 10-foot length screens. Well pairs have demonstrated a downward vertical gradient for measurements available in the EQuIS database (since 2008 or

well installation), except for well pair LC-MW09S/LC-MW09D, which did not have a vertical gradient in September 2018, and is exhibiting an upward gradient during this quarter. The calculated groundwater flow direction is to the west-northwest, which is consistent with historical trends.

7.2 Landfill 4/Demolition Area 1

The wells near and within the Landfill 4/Demolition Area 1 area are illustrated in Figure 4. The hydrogeology discussion for this area includes six pairs of nested wells in A/B pairs, shallow wells L4-MW04A and L4-MW05A, and deep wells L4-MW07B and L4-MW11B. Wells L4-MW17 and L4-MW18 are located topographically downgradient from the Landfill 4/Demolition Area 1 area and are considered sentinel wells; they are not included in the following discussion.

Groundwater elevations and contours are shown on Figures 6A and 6B in support of the following groundwater observations:

- For the eight wells in the A grouping, there is a consistent high groundwater elevation in upgradient eastern well L4-MW01A and a westerly groundwater flow direction. From there, groundwater demonstrates a divergent radial flow pattern, generally following the topographic contour, from the northwest (toward L4-MW04A) to southwest (toward well L4-MW05A) directions, which is consistent with historical trends.
- For the eight B wells, there is a consistent high groundwater elevation in upgradient eastern well L4-MW01B. Groundwater flow direction is primarily to the west with slight fluctuations from the west-northwest to west-southwest and is consistently toward North Fork Lacamas Creek. Groundwater flow is primarily to the southwest (toward L4-MW07B) south of the main Landfill 4/Demolition Area 1 area, which is consistent with historical trends.
- The well pairs demonstrated vertical gradients as follows:
    - L4-MW01A/L4-MW01B: Upward (since second quarter 2008)
    - L4-MW02A/L4-MW02B: Downward (since second quarter 2008)
    - L4-MW03A/L4-MW03B: Downward (since second quarter 2008)
    - L4-MW08A/L4-MW08B: Downward (since installation in third quarter 2017)
    - L4-MW09A/L4-MW09B: Downward (since installation in third quarter 2017)
    - L4-MW10A/L4-MW10B: Downward (since installation in third quarter 2017)

8 WATER QUALITY DATA ANALYSIS

The laboratory results for COCs were compared to previous quarterly monitoring events, along with groundwater elevation, to identify trends in the data. The monitoring events included in the trend analysis cover the period of March 2015 to present for Base Boundary and Landfill 4/Demolition Area 1. Data from March 2007 are currently available in the EQuIS database for specific COCs; however, this section focuses on recent trends only. These monitoring events encompass the range of seasonal climatic (rainfall and temperature) and groundwater level variations.

The Base Boundary monitoring wells samples have had no reproducible detections above laboratory MRLs in the monitoring period from 2015 to present; therefore, these locations are not included in this trend discussion.

Groundwater concentration trends for Landfill 4/Demolition Area 1 are discussed below. Analytical results are discussed for the six sampled Landfill 4/Demolition Area 1 wells.

8.1 Spatial Distribution of Perchlorate and RDX

Perchlorate and RDX are the only two compounds consistently detected above MTCA Method B cleanup levels in multiple wells in the Landfill 4/Demolition Area 1 area. Isocontours of perchlorate and RDX were not generated because only three shallow (A) and three deep (B) wells were sampled during this monitoring event, which would not generate meaningful data when compared to historical results.

8.2 Perchlorate and RDX Concentration Trend Analysis

Trend graphs for perchlorate and RDX concentrations from 2007 to present are included in Appendix D. The trend charts are provided as one chart each for perchlorate and RDX in shallow (A) and deep (B) wells (four charts total), and per-well charts with perchlorate, RDX, and groundwater elevation shown. Wells must have at least two detections above the MRL for that analyte to be graphed.

The MTCA Method B cleanup levels are 11.0 micrograms per liter (µg/L) for perchlorate and 1.10 µg/L for RDX. Please note that Ecology requests that graphs showing wells with detections need to also include data points for non-detections in those wells, recorded as one-half the MRL for that analyte.

Data from 2015 to present were examined for statistically significant trends by using a Mann-Kendall trend analysis in ProUCL version 5.1. Data were imported into ProUCL directly from EQuIS with non-detect data at the reporting limit. RDX was not detected over this time interval in well L4-MW07B so it is not included in this discussion.

The Mann-Kendall trend analysis was performed with the null hypothesis that an upward or downward trend is not present in the data, and with the alternate hypothesis that a trend exists. The data are analyzed by comparing every new value with every preceding value to see if there are consistent increasing or decreasing trends within a set level of confidence. If the analysis is above the set level of confidence, the null hypothesis is rejected; otherwise, a trend cannot be determined.

The following wells demonstrated a statistically significant increasing trend at a 95% confidence level:

Perchlorate

- L4-MW04A

RDX

- L4-MW04A
- L4-MW08B
- L4-MW10B

The following wells demonstrated a statistically significant decreasing trend at a 95% confidence level:

Perchlorate

- L4-MW05A
- L4-MW10A

RDX

- L4-MW10A

The following wells did not demonstrate a statistically significant trend over the analyzed time interval:

Perchlorate

- L4-MW07B
- L4-MW08B
- L4-MW10B

RDX

- L4-MW05A

There are no apparent correlations between the variation of perchlorate or RDX concentrations in groundwater and seasonal variation in groundwater elevations in the six wells sampled at Landfill 4/Demolition Area 1.

9 FUTURE ACTIVITIES

At the request of Ecology, the next scheduled event will occur first quarter 2022.

PBS Engineering and Environmental Inc. is pleased to present the results of the second quarter 2021 groundwater sampling event. Please contact the undersigned if there are any questions.

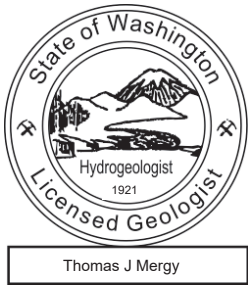
Sincerely,
PBS Engineering and Environmental Inc.

Digitally signed by
Scott Braunsten
Date: 2021.11.05
14:21:09 -07'00'

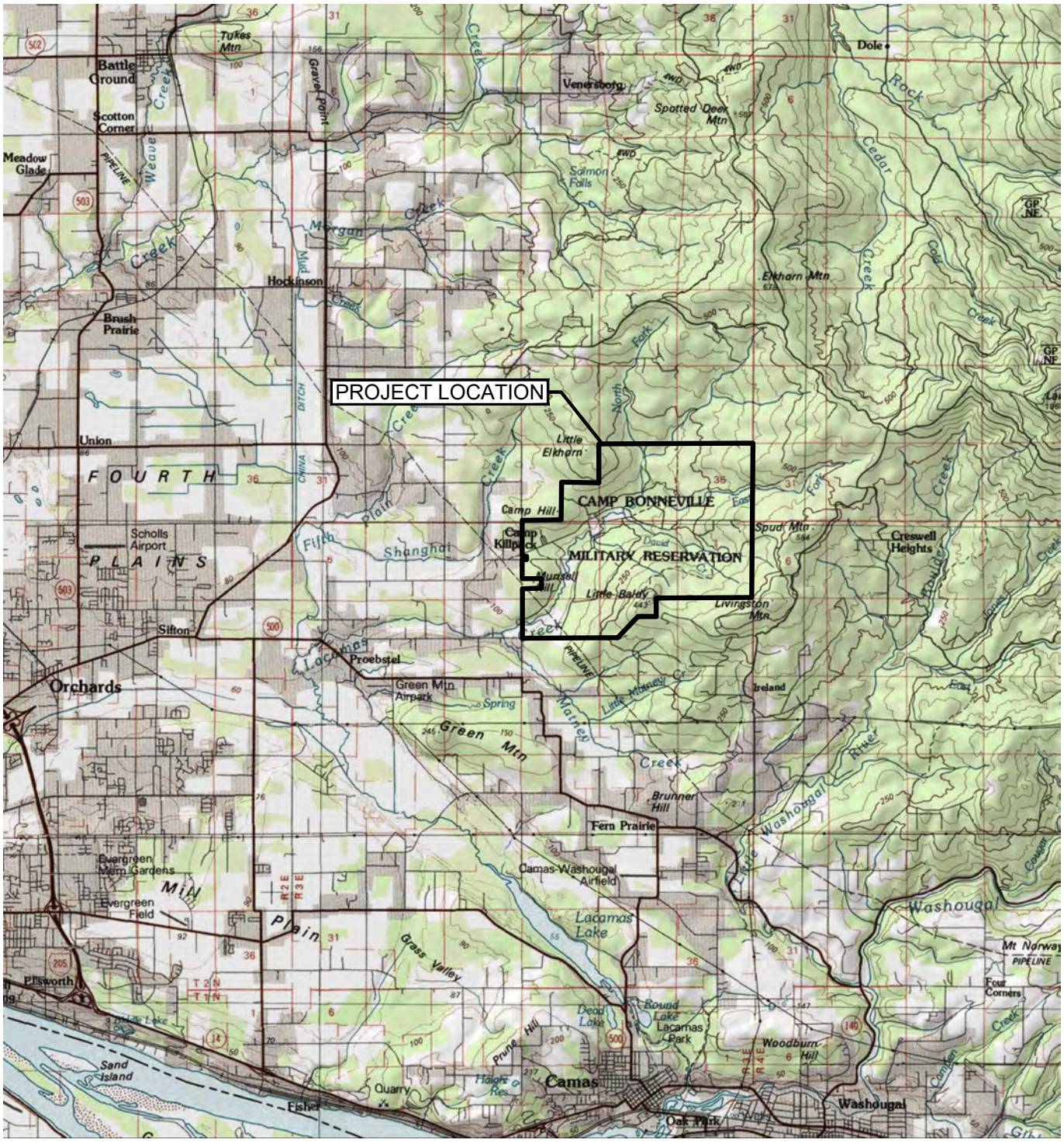
Scott Braunsten, LG — Date
Senior Geologist

Digitally signed by
Thomas Mergy
Date: 2021.11.05
14:13:24 -07'00'

Thomas Mergy, LHG — Date
Principal Hydrogeologist



Figures



SOURCE: USGS 100K MAP SERIES

SCALE: 1" = 10,000'

0' 5,000' 10,000' 20,000'

PREPARED FOR: CLARK COUNTY, WASHINGTON

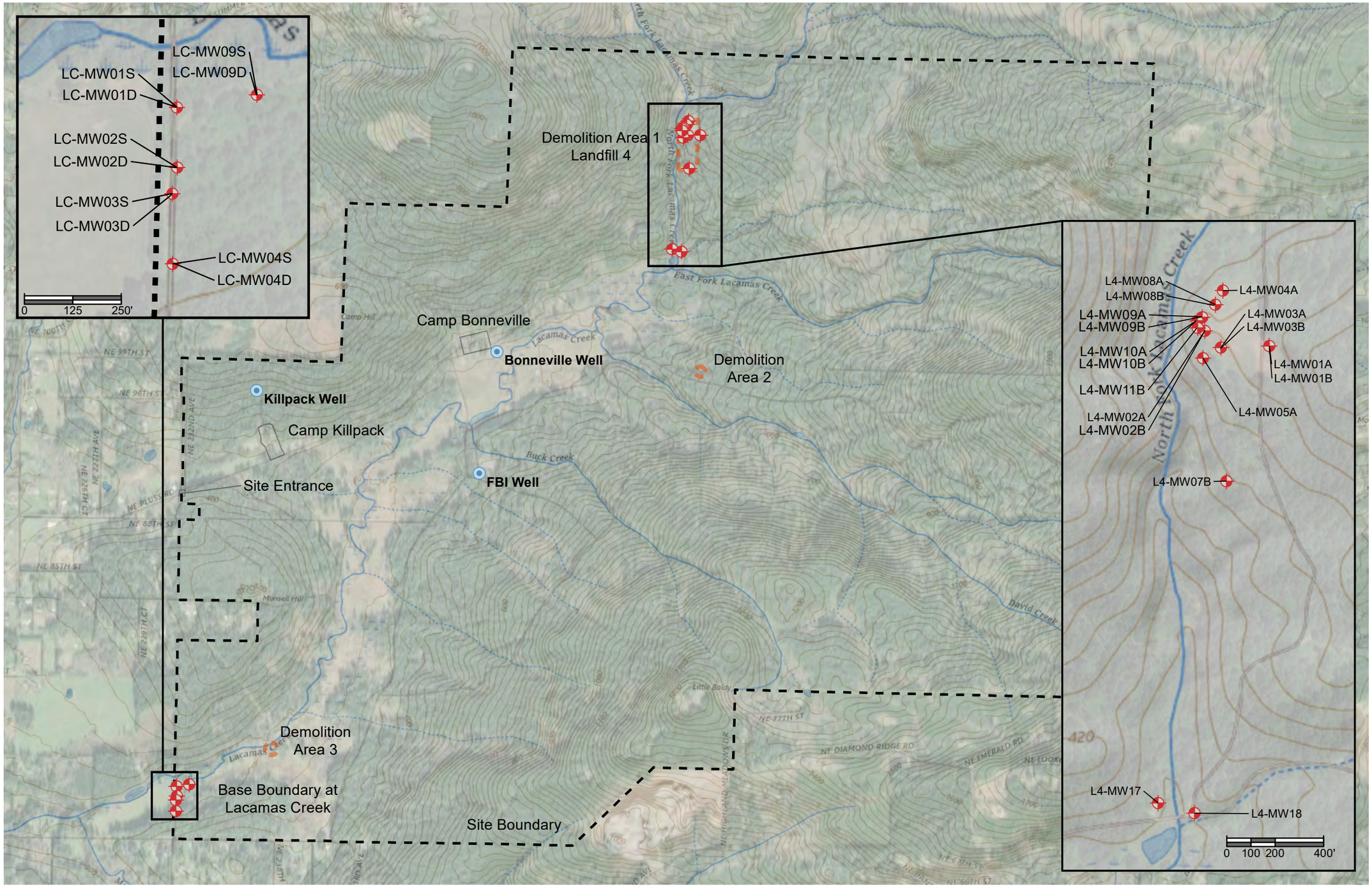
PBS

VICINITY MAP

CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

NOV 2021
76151.009

FIGURE
1



SOURCES: USGS, ESRI WORLD IMAGERY

LEGEND

- Approximate Location of Water Supply Well
- Monitoring Well Location
- Site Boundary
- Camp Boundary
- Demolition Area

1 inch = 1,600 feet

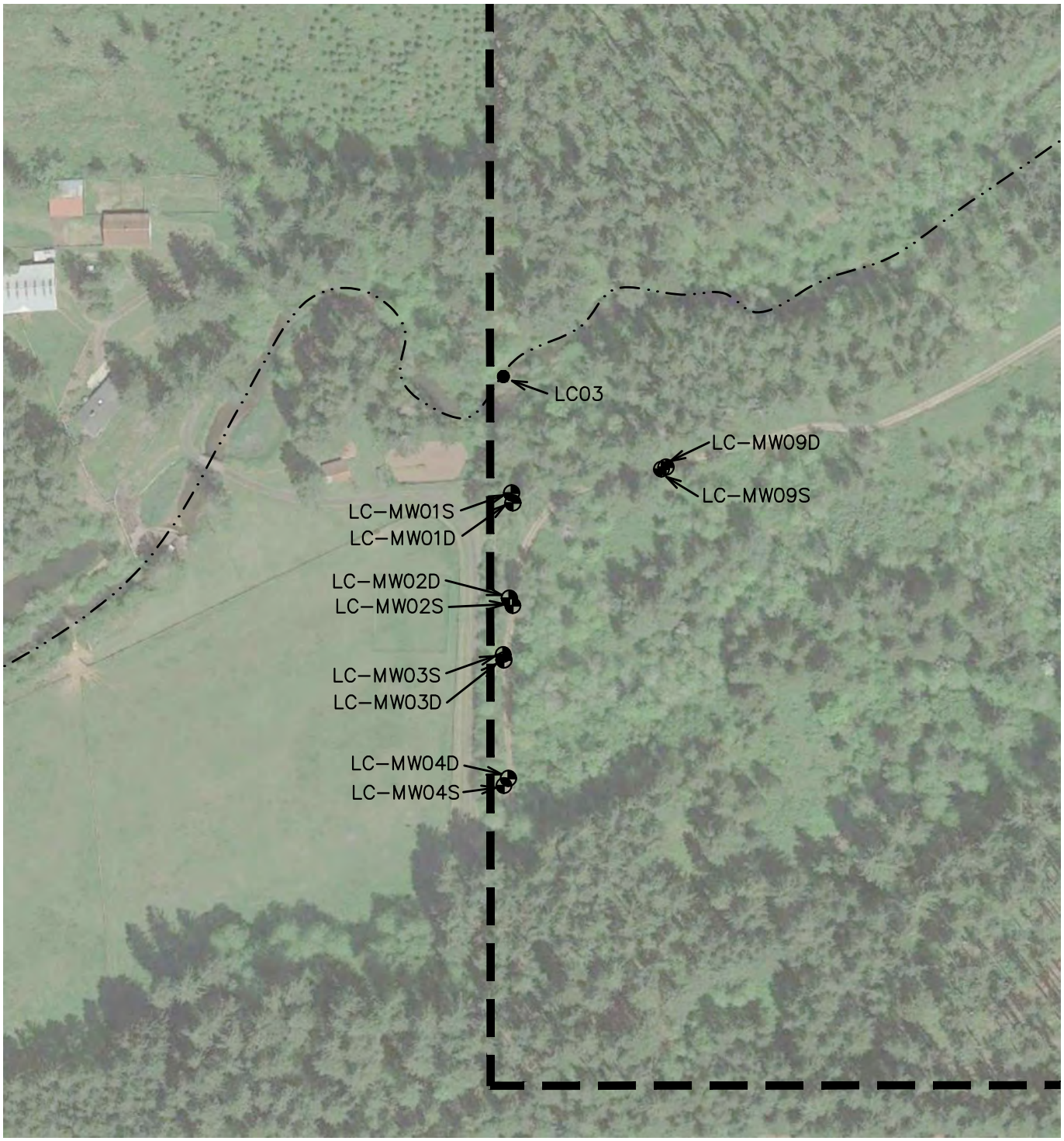
0 400 800 1,600'

PREPARED FOR: CLARK COUNTY

PBS Engineering and Environmental Inc.
4412 SW Corbett Ave.,
Portland, OR 927239
503.248.1939
pbsusa.com

INVESTIGATION AREAS WITHIN CAMP BONNEVILLE BOUNDARY
CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

PROJECT	
76151.009	
DATE	
NOV 2021	
FIGURE	
2	



SOURCE: © 2020 GOOGLE EARTH PRO

LEGEND

- LC-MW01D — DEEP MONITORING WELL AND WELL NUMBER
- LC-MW01S — SHALLOW MONITORING WELL AND WELL NUMBER
- LACAMAS CREEK
- BASE BOUNDARY
- LC03 — SURFACE WATER SAMPLE AND NUMBER

Scale 1" = 200'

0' 100' 200' 400'

PREPARED FOR: CLARK COUNTY, WASHINGTON

PBS

MONITORING WELL LOCATIONS AT BASE BOUNDARY

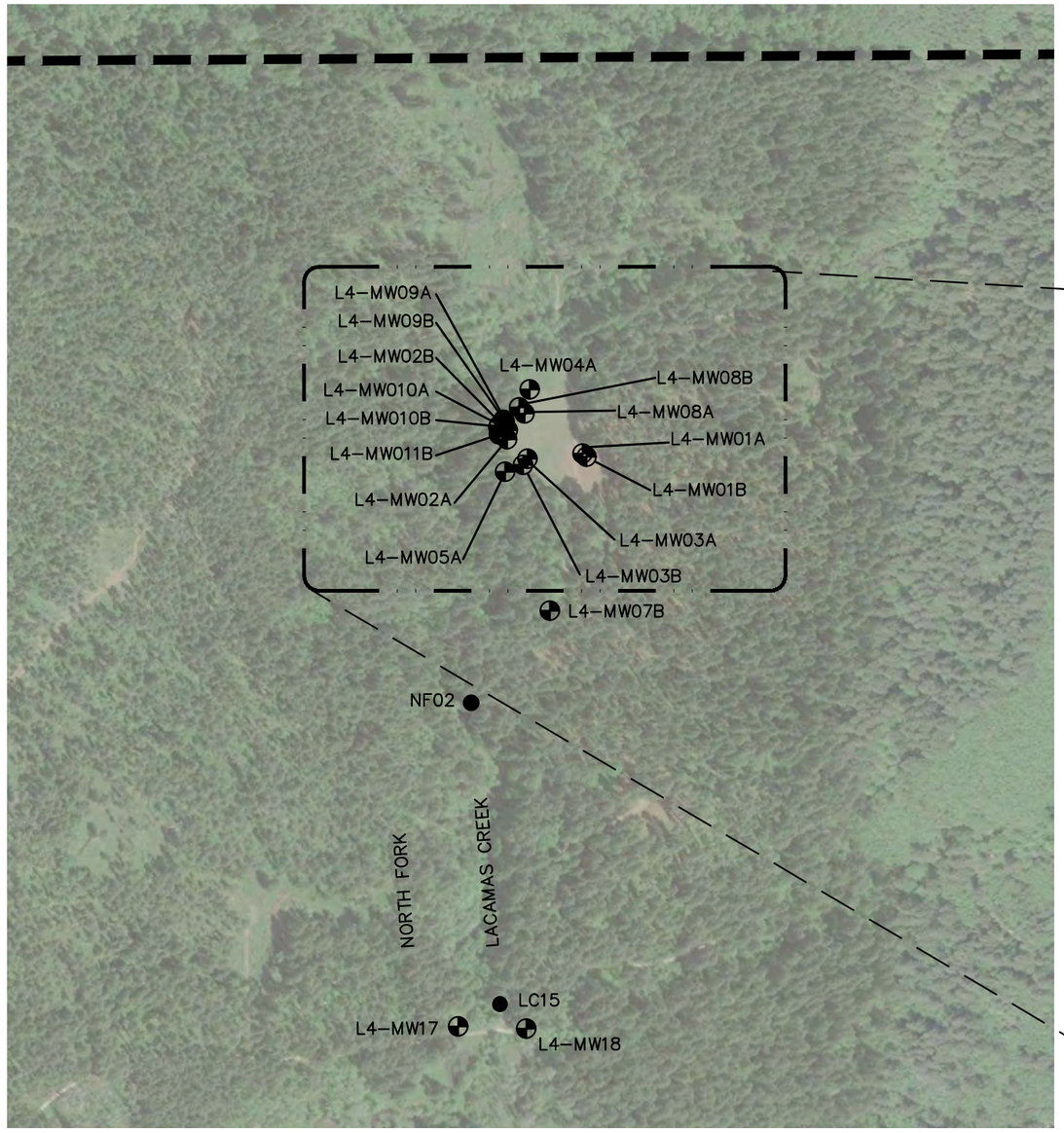
CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

NOV 2021
76151.009

FIGURE
3

LEGEND

- L4–MW01A — MONITORING WELL AND WELL NUMBER
- BASE BOUNDARY
- NF02 — SURFACE WATER SAMPLE AND NUMBER

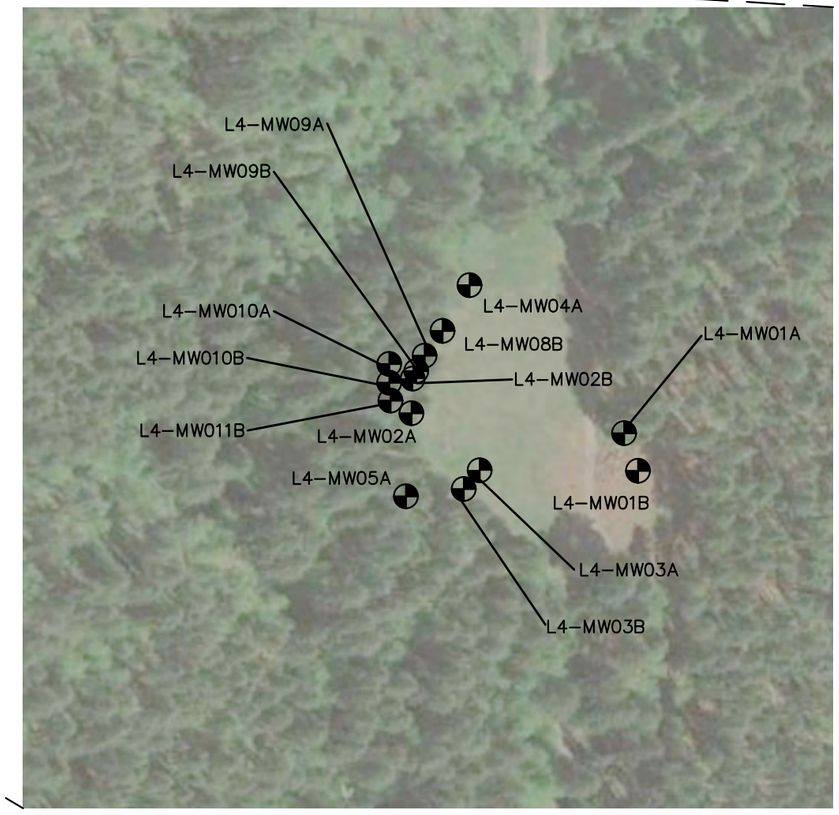


SOURCE: © 2020 GOOGLE EARTH PRO

LANDFILL 4

SCALE: 1" = 500'

0' 250' 500' 1000'



SOURCE: © 2020 GOOGLE EARTH PRO

LANDFILL 4 - ENLARGED PLAN

SCALE: 1" = 200'

0' 100' 200' 400'

PREPARED FOR: CLARK COUNTY, WASHINGTON

Full Size Sheet Format Is 11x17; If Printed Size Is Not 11x17, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.

PBS Engineering and Environmental Inc.
415 W 6th Street, Ste. 601
Vancouver, WA 98660
360.695.3488
pbsusa.com

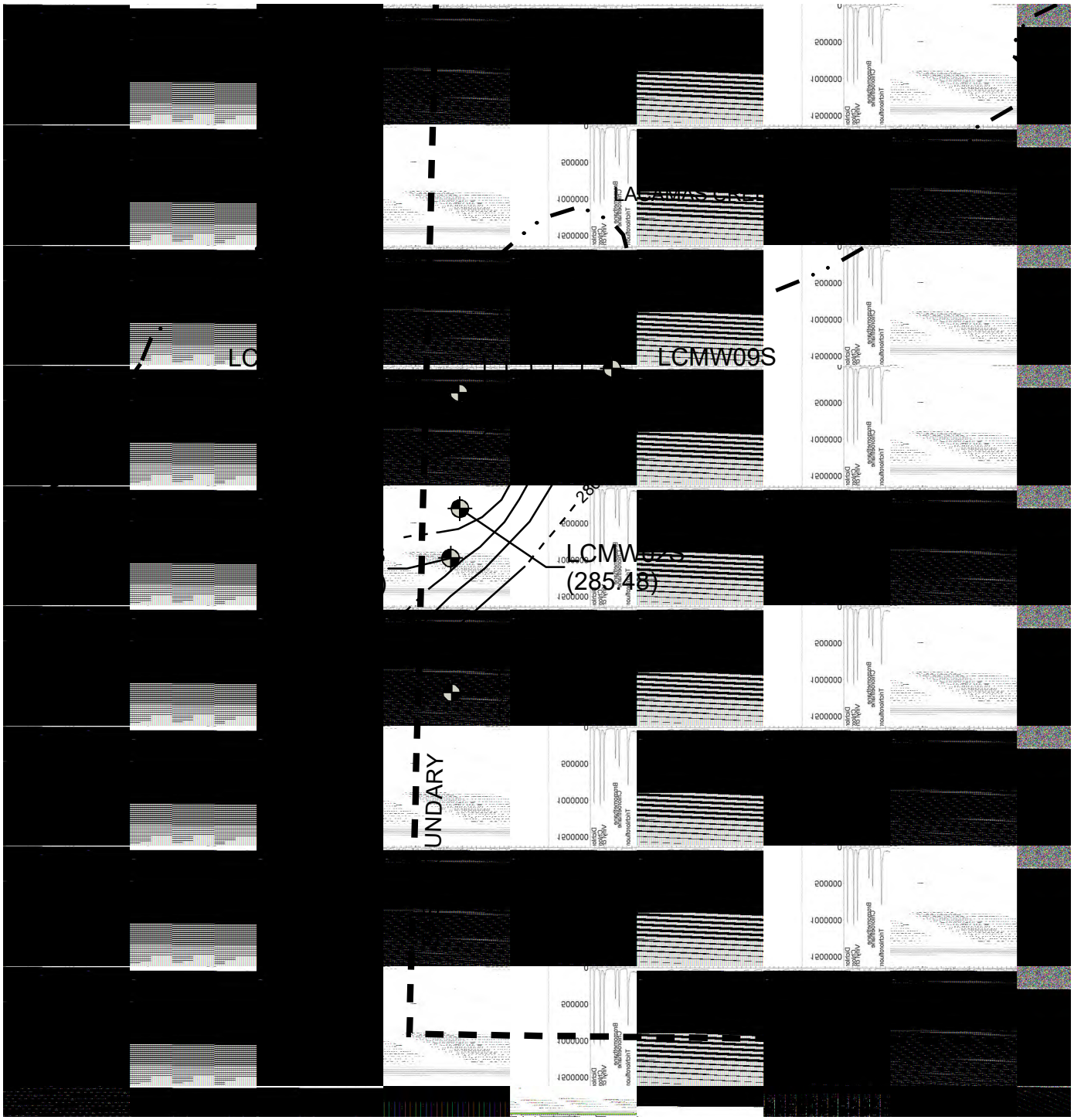
PBS

CAMP BONNEVILLE

MONITORING WELL SAMPLE LOCATIONS NEAR LANDFILL 4 / DEMO AREA 1

CLARK COUNTY,W ASHINGTON

PROJECT
76151.009
DATE
NOV 2021
FIGURE
4



LEGEND

LC-MW01S (283.55)	MONITORING WELL AND WELL NUMBER GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
———	GROUNDWATER ELEVATION CONTOUR
- - - -	INFERRED ELEVATION CONTOUR
←	GROUNDWATER FLOW DIRECTION

N

SCALE: 1 " = 200 '

0 100 200 400'

PREPARED FOR: CLARK COUNTY, WASHINGTON

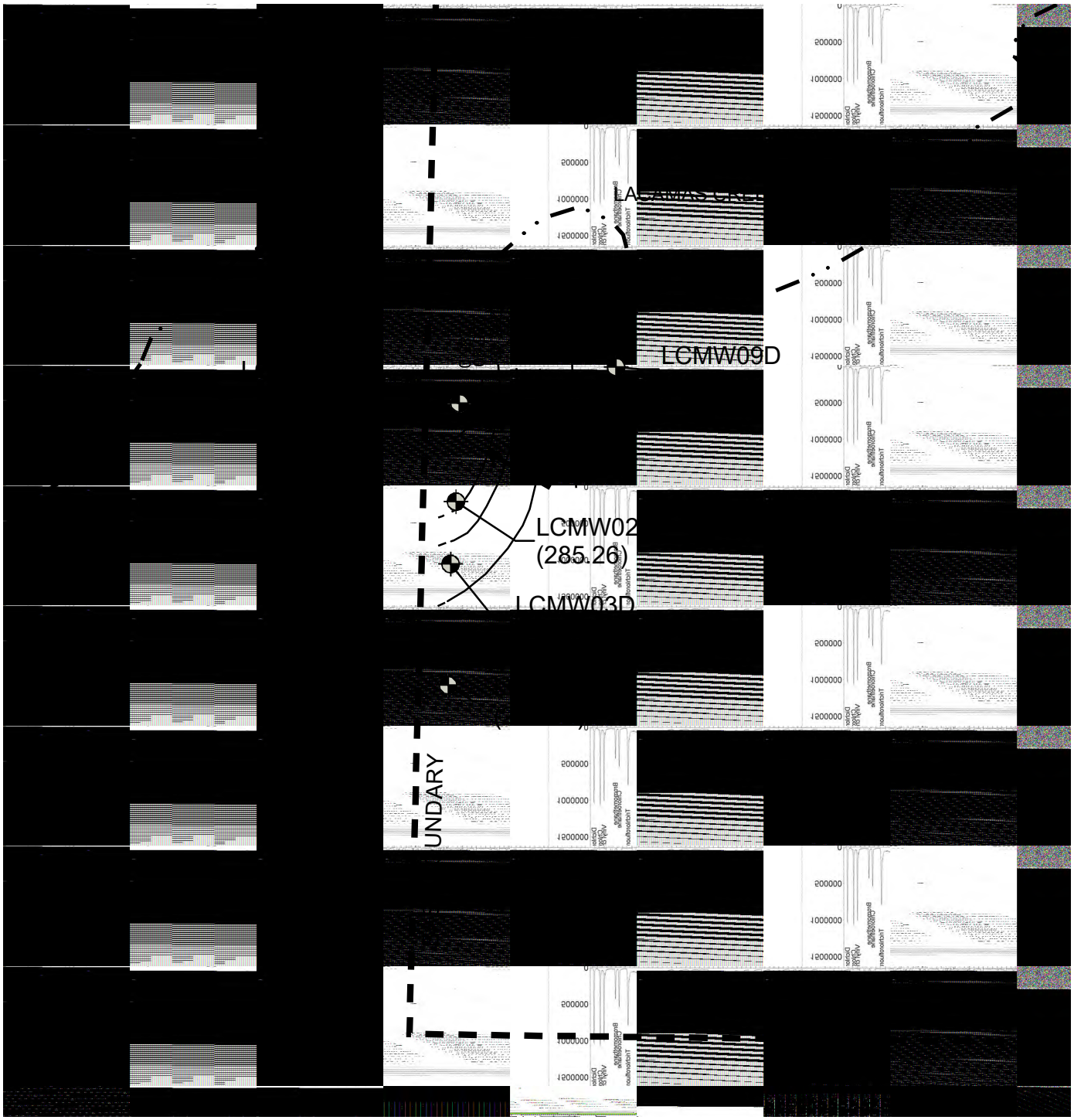
L:\Projects\76000\76100-76199\76151 Camp Bonneville, Vancouver\DWG\GIS\mxds\Fig5A BaseBoundary Shallow GWE 2021Q2.mxd

SHALLOW BASE BOUNDARY MONITORING WELLS 2ND QUARTER 2021 - GROUNDWATER CONTOURS

CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

NOV 2021
76151.009

FIGURE
5A



LEGEND

LC-MW01D	MONITORING WELL AND WELL NUMBER
(283.44)	GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
———	DEEP GROUNDWATER ELEVATION CONTOUR
- - - -	INFERRED ELEVATION CONTOUR
←	GROUNDWATER FLOW DIRECTION

N

SCALE: 1 " = 200 '

0 100 200 400'

PREPARED FOR: CLARK COUNTY, WASHINGTON

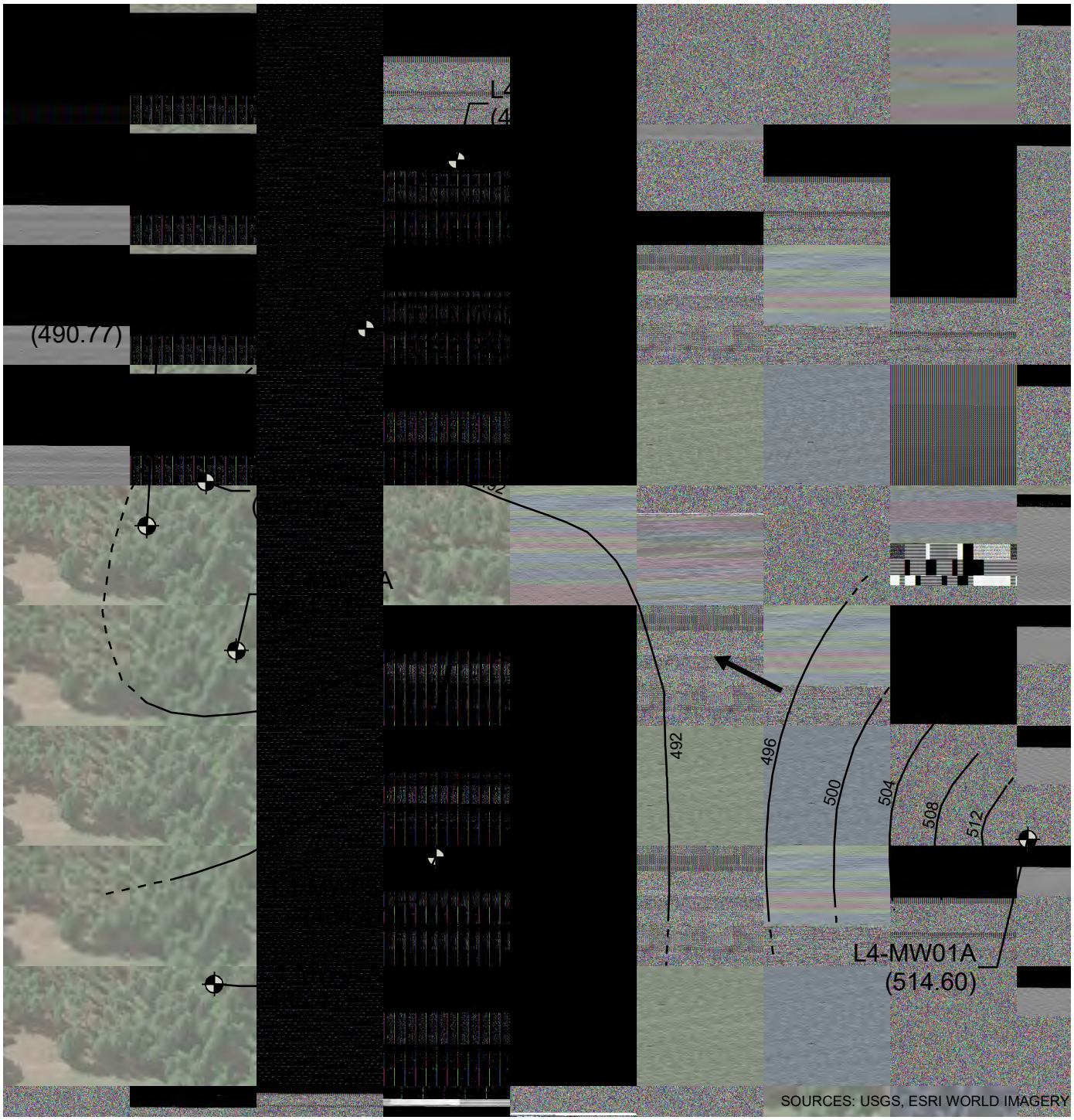
DEEP BASE BOUNDARY MONITORING WELLS
2ND QUARTER 2021 - GROUNDWATER CONTOURS

CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

NOV 2021
76151.009

FIGURE
5B

L:\Projects\76000\76100-76199\76151_Camp Bonneville_Vancouver\DWG\GIS\mxds\Fig5B_BaseBoundary_Deep_GWE_2021Q2.mxd



LEGEND

L4-MW01A (514.60)	MONITORING WELL AND WELL NUMBER GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
———	GROUNDWATER ELEVATION CONTOUR
- - - -	INFERRED ELEVATION CONTOUR
←	GROUNDWATER FLOW DIRECTION

N

SCALE: 1 " = 50 '

0 25 50 100'

PREPARED FOR: CLARK COUNTY, WASHINGTON

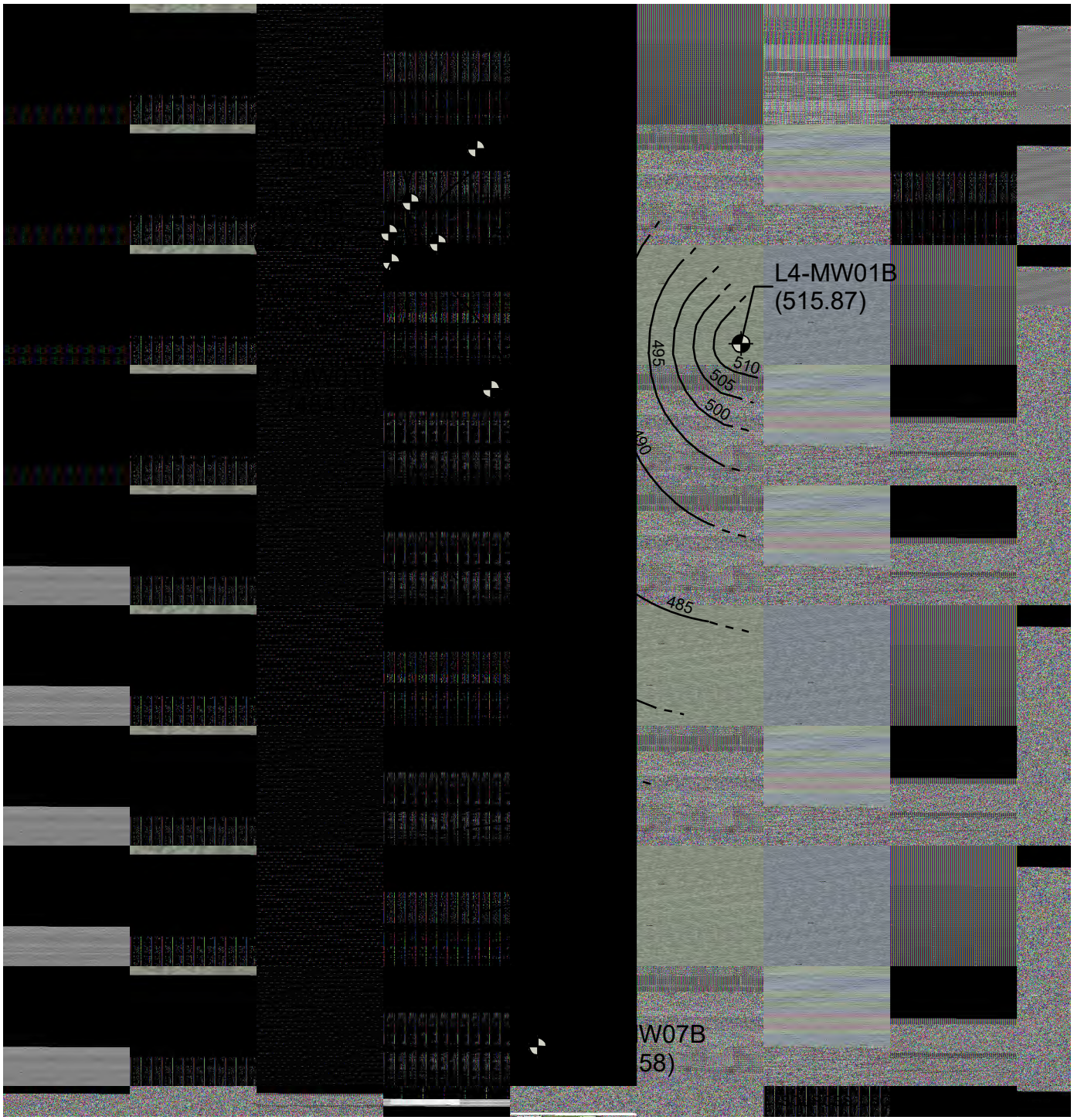
L:\Projects\76000\76100-76199\76151 Camp Bonneville, Vancouver\DWG\GIS\mxds\Fig6A Landfill4 Shallow GWE 2021Q2.mxd

SHALLOW LANDFILL 4 MONITORING WELLS
2ND QUARTER 2021 - GROUNDWATER CONTOURS

CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

NOV 2021
76151.009

FIGURE
6A



LEGEND

L4-MW01B (515.48)	MONITORING WELL AND WELL NUMBER GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
———	GROUNDWATER ELEVATION CONTOUR
- - - -	INFERRED ELEVATION CONTOUR
←	GROUNDWATER FLOW DIRECTION

N

SCALE: 1 " = 120 '

0 60 120 240'

PREPARED FOR: CLARK COUNTY, WASHINGTON

L:\Projects\76000\76100-76199\76151 Camp Bonneville, Vancouver\DWG\GIS\mxds\Fig6B Landfill4 Deep GWE 2021Q2.mxd

DEEP LANDFILL 4 MONITORING WELLS
2ND QUARTER 2021 - GROUNDWATER CONTOURS
CAMP BONNEVILLE
CLARK COUNTY, WASHINGTON

NOV 2021
76151.009

FIGURE
6B

Tables

Table 1. Well Number and Construction Details

Camp Bonneville, Vancouver, Washington

	Well No. in PBS Work Contract	Ecology Well Tag No.	Well Location	Measured Total Depth (feet)*	Well Log Total Depth (feet)**	Screened Interval (feet)***	Top of PVC Casing Elevation (feet amsl)	Well No. on Steel Casings/Caps (CHPPM No.)
Base Boundary	LC-MW01S	AHA-359	Lacamas Creek	22.71	23.00	10–20	290.15	LC-MW01S
	LC-MW01D	AHA-358	Lacamas Creek	42.21	42.50	29.5–39.5	290.26	LC-MW01D
	LC-MW02S	AHA-364	Lacamas Creek	17.46	17.70	10–15	291.15	LC-MW02S
	LC-MW02D	AHA-357	Lacamas Creek	37.83	38.10	25–35	291.57	LC-MW02D
	LC-MW03S	AHA-363	Lacamas Creek	20.09	20.35	13–18	290.87	LC-MW03S
	LC-MW03D	AHA-362	Lacamas Creek	39.36	39.48	27–37	290.93	LC-MW03D
	LC-MW04S	AHA-375	Lacamas Creek	16.49	16.80	9–14	291.63	LC-MW04S
	LC-MW04D	AHA-361	Lacamas Creek	37.03	37.13	24.5–34.5	291.79	LC-MW04D
	LC-MW09S	BJH-382	Lacamas Creek	22.05	22.38	15-20	293.52	LC-MW09S
	LC-MW09D	BJH-380	Lacamas Creek	41.60	42.27	30-40	294.10	LC-MW09D
Landfill 4 / Demolition Area 1	L4-MW01A	N/A	Landfill 4	30.17	30.40	17–27	531.43	L4-MW01A
	L4-MW01B	AGL-482	Landfill 4	55.54	56.00	43–53	529.57	L4-MW01B
	L4-MW02A	N/A	Landfill 4	40.21	40.20	27–37	519.97	L4-MW02A
	L4-MW02B	AGL-483	Landfill 4	74.97	75.00	62–72	521.70	L4-MW02B
	L4-MW03A	AGL-466	Landfill 4	48.71	49.00	41–46	514.90	L4-MW03A
	L4-MW03B	AGL-484	Landfill 4	61.85	63.00	50–60	511.49	L4-MW03B
	L4-MW04A	AGL-465	Landfill 4	46.44	46.00	33–43	511.84	L4-MW04A
	L4-MW05A	AGL-467	Landfill 4	36.63	36.00	28–33	509.74	L4-MW05A
	L4-MW07B	N/A	Landfill 4	58.86	58.90	46–56	480.49	L4-MW07B
	L4-MW08A	BJH-379	Landfill 4	40.72	40.31	28-38	515.52	L4-MW08A
	L4-MW08B	BJH-378	Landfill 4	67.41	67.31	55-65	515.72	L4-MW08B
	L4-MW09A	BJH-377	Landfill 4	42.45	42.43	30-40	523.00	L4-MW09A
	L4-MW09B	BJH-376	Landfill 4	77.65	77.36	65-75	523.27	L4-MW09B
	L4-MW10A	BJH-375	Landfill 4	42.71	42.43	30-40	523.05	L4-MW10A
	L4-MW10B	BJH-374	Landfill 4	77.30	77.17	65-75	522.48	L4-MW10B
	L4-MW11B	BJH-373	Landfill 4	77.57	77.27	65-75	522.29	L4-MW11B
	L4-MW17	ALB-252	Landfill 4	17.17	17.67	5–15	361.48	L4-MW17
	L4-MW18	ALB-251	Landfill 4	22.60	22.01	10–20	362.84	L4-MW18

Notes:

* = depth in feet measured from top of well PVC casing in December 2007 and August 2017; sediment present at bottom of some casings

** = casing depth in feet recorded on well log; measured from top of PVC casing

*** = screened interval reported on well completion logs; feet below ground surface

amsl = above mean sea level

N/A = not available

Table 2. Field Parameters for Groundwater Samples at Base Boundary and Landfill 4/Demolition Area 1, 2nd Quarter 2021

Camp Bonneville, Vancouver, Washington

	Sample ID	Date Sampled	Depth to Water	Water Elevation	Dissolved Oxygen	Oxidation Reduction Potential	pH	Specific Conductivity	Temperature	Turbidity
			feet below TOC	feet amsl*	mg/L	millivolts	pH units	µS/cm	degrees Celsius	NTU
Base Boundary	02Q21LCMW01DW	6/14/2021	5.41	284.85	9.13	184.9	6.42	86	11.4	3.49
	02Q21LCMW01SW	6/14/2021	5.06	285.09	8.68	192.4	6.32	83	10.5	--
	02Q21LCMW02DW	6/14/2021	6.31	285.26	9.03	196.7	6.32	89	11.4	--
	02Q21LCMW02SW	6/15/2021	5.67	285.48	9.09	174.8	6.19	91	10.8	1.31
	02Q21LCMW03DW	6/15/2021	5.31	285.62	8.73	188.9	6.20	98	10.9	--
	02Q21LCMW03SW	6/15/2021	5.10	285.77	9.50	182.6	6.14	95	10.4	--
	02Q21LCMW04DW	6/15/2021	5.89	285.90	9.35	188.8	6.45	97	11.2	0.13
	02Q21LCMW04SW	6/15/2021	5.05	286.58	7.48	201.6	5.62	91	10.5	0.00
	02Q21LCMW09DW	6/14/2021	7.92	286.18	8.01	175.5	5.90	93	11.2	1.78
	02Q21LCMW09SW	6/14/2021	7.38	286.14	8.05	199.7	5.64	82	10.6	1.23
Landfill 4 / Demolition Area 1	02Q21L4MW01AW	6/14/2021	16.83	514.60	--	--	--	--	--	--
	02Q21L4MW01BW	6/14/2021	13.70	515.87	--	--	--	--	--	--
	02Q21L4MW02AW	6/14/2021	28.26	491.71	--	--	--	--	--	--
	02Q21L4MW02BW	6/14/2021	32.80	488.90	--	--	--	--	--	--
	02Q21L4MW03AW	6/14/2021	30.43	484.47	--	--	--	--	--	--
	02Q21L4MW03BW	6/14/2021	27.47	484.02	--	--	--	--	--	--
	02Q21L4MW04AW	6/16/2021	28.22	483.62	6.90	244.7	4.79	16	11.3	1.78
	02Q21L4MW05AW	6/16/2021	24.33	485.41	7.58	266.7	4.75	28	10.9	--
	02Q21L4MW07BW	6/15/2021	39.91	440.58	7.47	233.1	5.02	32	9.9	--
	02Q21L4MW08AW	6/14/2021	23.01	492.51	--	--	--	--	--	--
	02Q21L4MW08BW	6/16/2021	31.24	484.48	5.38	115.6	6.31	71	11.7	0.10
	02Q21L4MW09AW	6/14/2021	32.08	490.92	--	--	--	--	--	--
	02Q21L4MW09BW	6/14/2021	42.69	480.58	--	--	--	--	--	--
	02Q21L4MW10AW	6/16/2021	32.28	490.77	8.47	296.0	4.77	21	12.0	2.32
	02Q21L4MW10BW	6/16/2021	45.32	477.16	3.87	239.6	5.83	50	11.3	2.60
	02Q21L4MW11BW	6/14/2021	45.42	476.87	--	--	--	--	--	--
	02Q21L4MW17W	6/14/2021	10.85	350.67	--	--	--	--	--	--
	02Q21L4MW18W	6/14/2021	11.81	351.04	--	--	--	--	--	--

Field parameters were measured using a YSI Pro and a flow-through cell, with the exception of turbidity, which was measured using an HF Scientific TPW Meter

* water level in feet above mean sea level, relative to top of PVC casing elevation survey

TOC = top of casing

amsl = above mean sea level

mg/L = milligrams per liter

µS/cm = micro-siemens per centimeter

NTU = Nephelometric Turbidity Units

Water level measurements are not collected from the Water Wells

Table 3. Constituents Detected in Groundwater, 2nd Quarter 2021

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	LCMW01D 06/14/2021	LCMW01S 06/14/2021	LCMW02D 06/14/2021	LCMW02S 06/15/2021	LCMW03D 06/15/2021	LCMW03D Duplicate 06/15/2021	RPD (<20%)	LCMW03S 06/15/2021	LCMW04D 06/15/2021	LCMW04S 06/15/2021	LCMW09D 06/14/2021	LCMW09S 06/14/2021
Explosives (µg/L)													
RDX	1.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	Acceptable	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Remaining Explosives	Varies	ND	ND	ND	ND	ND	ND	Acceptable	ND	ND	ND	ND	ND
Perchlorate (µg/L)													
Perchlorate	11.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Acceptable	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organic Compounds (µg/L)													
1,1,1-Trichloroethane	16,000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Acceptable	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	1,600	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Acceptable	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	400	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Acceptable	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	1,600	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	Acceptable	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Remaining VOCs	Varies	ND	ND	ND	ND	ND	ND	Acceptable	ND	ND	ND	ND	ND

Notes:

µg/L = micrograms per liter

< = not detected above the indicated method reporting limit

BOLD = exceeds cleanup values

Acceptable = No detection in original or duplicate, or the difference in detection values is less than the reporting limit

ND = not detected

RPD = relative percent difference

Table 3. Constituents Detected in Groundwater, 2nd Quarter 2021

Camp Bonneville, Vancouver, Washington

Analyte	MTCA Method B Std. Cleanup	L4MW04A 06/16/2021	L4MW05A 06/16/2021	L4MW07B 06/15/2021	L4MW08B 06/16/2021	L4MW08B Duplicate 06/16/2021	RPD (<20%)	L4MW10A 06/16/2021	L4MW10B 06/16/2021
Explosives (µg/L)									
RDX	1.10	**6.43**	**3.32**	< 0.1	< 0.1	< 0.1	Acceptable	**1.50**	**14.5**
Remaining Explosives	Varies	ND	ND	ND	ND	ND	Acceptable	ND	ND
Perchlorate (µg/L)									
Perchlorate	11.0	**64.2**	**21.2**	1.62	**109**	**97.4**	11%	**55.8**	**200**
Volatile Organic Compounds (µg/L)									
1,1,1-Trichloroethane	16,000	< 0.5	< 0.5	< 0.5	< 0.5	6.07	Unacceptable	< 0.5	4.66
1,1-Dichloroethane	1,600	< 0.5	< 0.5	< 0.5	< 0.5	6.45	Unacceptable	< 0.5	6.82
1,1-Dichloroethene	400	< 0.5	< 0.5	< 0.5	< 0.5	5.66	Unacceptable	< 0.5	5.77
Dichlorodifluoromethane	1,600	< 0.5	< 0.5	< 0.5	0.54	0.56	4%	< 0.5	15.5
Remaining VOCs	Varies	ND	ND	ND	ND	ND	Acceptable	ND	ND

Notes:

µg/L = micrograms per liter

< = not detected above the indicated method reporting limit

BOLD = exceeds cleanup values

Acceptable = No detection in original or duplicate, or the difference in detection values is less than the reporting limit

ND = not detected

RPD = relative percent difference

Appendix A
List of Acronyms and Abbreviations

List of Acronyms and Abbreviations

amsl	above mean sea level
AP	ammonium perchlorate
bgs	below ground surface
CD	compact disc
BRAC	Base Realignment and Closure
CHPPM	US Army Center for Health Promotion and Preventative Medicine
COC	contaminants of concern
COPC	chemical of potential concern
DNR	State of Washington Department of Natural Resources
DO	dissolved oxygen
DQO	data quality objectives
EDD	electronic data deliverable
EPA	US Environmental Protection Agency
GC/MS	gas chromatography/mass spectrometer
HASP	health and safety plan
HE	high explosives 2,4 DNT, 2,6 DNT
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
IC	ion chromatography
IDW	investigation-derived waste
LCS	laboratory control spike
µg/L	micrograms per liter (approximately equal ppb)
µm	micrometer
MDL	method detection limit
mg/L	milligrams per liter (approximately equal ppm)
mL	milliliters
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
MTCA	Washington Model Toxics Control Act (Chapter 173-340 WAC)
NG	nitroglycerine
OE	ordinance and explosives
ORP	oxidation reduction potential
PA	picric acid
PAH	polycyclic aromatic hydrocarbons
PBS	PBS Engineering and Environmental Inc.
PCBs	polychlorinated biphenyls
PES	polyethersulfone
PETN	pentaerythitol tetranitrate
ppb	parts per billion
ppm	parts per million

PQL	practical quantitation limit
PVC	polyvinyl chloride
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine (Cyclonite)
RI	remedial investigation
RPD	relative percent difference
SAP	sampling and analysis plan
SDG	sample delivery groups
SDS	sample data sheets
SI	site investigation
SOP	standard operating procedure
SOW	statement of work
SVOC	semi-volatile organic compound
TBD	to be determined
TIC	tentatively identified compound
TNT	2,4,6-trinitrotoluene
TOC	total organic carbon
TPH	total petroleum hydrocarbons
USACE	United States Army Corps of Engineers
UXO	unexploded ordnance
VOC	volatile organic compound

Appendix B

Anantek, Level II Data Package

(Electronic files provided on enclosed CD)

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client:	PBS Engineering - Portland	Work Order:	MBF0598
Address:	4412 SW Corbett Ave	Project:	02Q21L4MW
	Portland, OR 97239	Reported:	8/17/2021 09:12
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	02Q21L4MW08BW		
Lab/Sample Number:	MBF0598-01	Collect Date:	06/16/21 10:10
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	109	ug/L	0.500	6/25/21 16:35	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 11:13	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*87.0%*		*70-130*	*6/22/21 11:13*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW08BW		
Lab/Sample Number:	MBF0598-01	Collect Date:	06/16/21 10:10
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 14:19	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 14:19	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Dichlorodifluoromethane	0.540	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 14:19	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 14:19	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 14:19	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW08BW		
Lab/Sample Number:	MBF0598-01	Collect Date:	06/16/21 10:10
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 14:19	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*98.9%*		*70-130*	*6/22/21 14:19*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*105%*		*70-130*	*6/22/21 14:19*	*TEC*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.3%*		*70-130*	*6/22/21 14:19*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW04AW		
Lab/Sample Number:	MBF0598-02	Collect Date:	06/16/21 12:10
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	64.2	ug/L	0.500	6/25/21 16:42	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
RDX	6.43	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 11:50	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*85.6%*		*70-130*	*6/22/21 11:50*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 14:49	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 14:49	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW04AW		
Lab/Sample Number:	MBF0598-02	Collect Date:	06/16/21 12:10
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 14:49	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 14:49	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 14:49	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 14:49	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*102%*		*70-130*	*6/22/21 14:49*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*106%*		*70-130*	*6/22/21 14:49*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW04AW		
Lab/Sample Number:	MBF0598-02	Collect Date:	06/16/21 12:10
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*97.6%*		*70-130*	*6/22/21 14:49*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW05AW		
Lab/Sample Number:	MBF0598-03	Collect Date:	06/16/21 13:15
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	21.2	ug/L	0.500	6/25/21 16:50	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
RDX	3.32	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 12:27	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*93.2%*		*70-130*	*6/22/21 12:27*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 15:20	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 15:20	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW05AW		
Lab/Sample Number:	MBF0598-03	Collect Date:	06/16/21 13:15
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 15:20	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 15:20	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 15:20	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 15:20	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*99.6%*		*70-130*	*6/22/21 15:20*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*106%*		*70-130*	*6/22/21 15:20*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW05AW		
Lab/Sample Number:	MBF0598-03	Collect Date:	06/16/21 13:15
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.5%*		*70-130*	*6/22/21 15:20*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW10BW		
Lab/Sample Number:	MBF0598-04	Collect Date:	06/16/21 14:35
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	200	ug/L	0.500	6/25/21 16:57	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
RDX	14.5	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 13:04	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*89.3%*		*70-130*	*6/22/21 13:04*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,1,1-Trichloroethane	4.66	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,1-Dichloroethane	6.82	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,1-Dichloroethylene	5.77	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 15:51	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 15:51	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW10BW		
Lab/Sample Number:	MBF0598-04	Collect Date:	06/16/21 14:35
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Dichlorodifluoromethane	15.5	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 15:51	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 15:51	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 15:51	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 15:51	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/22/21 15:51*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*106%*		*70-130*	*6/22/21 15:51*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW10BW		
Lab/Sample Number:	MBF0598-04	Collect Date:	06/16/21 14:35
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.9%*		*70-130*	*6/22/21 15:51*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW10AW		
Lab/Sample Number:	MBF0598-05	Collect Date:	06/16/21 15:30
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	55.8	ug/L	0.500	6/25/21 17:04	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
RDX	1.50	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 13:41	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*89.0%*		*70-130*	*6/22/21 13:41*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 16:21	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 16:21	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW10AW		
Lab/Sample Number:	MBF0598-05	Collect Date:	06/16/21 15:30
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 16:21	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 16:21	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 16:21	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 16:21	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*102%*		*70-130*	*6/22/21 16:21*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*104%*		*70-130*	*6/22/21 16:21*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW10AW		
Lab/Sample Number:	MBF0598-05	Collect Date:	06/16/21 15:30
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*94.8%*		*70-130*	*6/22/21 16:21*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	061621TB		
Lab/Sample Number:	MBF0598-06	Collect Date:	06/16/21 16:00
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Acrolein	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Benzene	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	061621TB		
Lab/Sample Number:	MBF0598-06	Collect Date:	06/16/21 16:00
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m/p Xylenes (MCL for total)	ND	ug/L	1.00	6/22/21 12:48	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 12:48	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Total Xylenes	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	6/22/21 12:48	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	6/22/21 12:48	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*6/22/21 12:48*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*104%*		*70-130*	*6/22/21 12:48*	*TEC*	*EPA 8260D*	
Surrogate: Toluene-d8	*97.0%*		*70-130*	*6/22/21 12:48*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW145W		
Lab/Sample Number:	MBF0598-07	Collect Date:	06/16/21 15:30
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	97.4	ug/L	0.500	6/25/21 17:12	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 14:17	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*86.5%*		*70-130*	*6/22/21 14:17*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 16:52	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 16:52	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW145W		
Lab/Sample Number:	MBF0598-07	Collect Date:	06/16/21 15:30
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Dichlorodifluoromethane	0.560	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 16:52	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 16:52	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 16:52	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 16:52	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/22/21 16:52*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*105%*		*70-130*	*6/22/21 16:52*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW145W		
Lab/Sample Number:	MBF0598-07	Collect Date:	06/16/21 15:30
Date Received:	06/18/21 09:46	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*88.6%*		*70-130*	*6/22/21 16:52*	*TEC*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable. Potential matrix effect.
R12	Matrix spike duplicate recovery was below method acceptance limits; the associated blank spike recovery and matrix spike recovery was acceptable.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery of MSD met acceptance criteria.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0789 - Perchlorate										
Blank (BBF0789-BLK1)					Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	ND		0.500	ug/L						
LCS (BBF0789-BS1)					Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	4.99		0.500	ug/L	5.00		99.8	80-120		
Matrix Spike (BBF0789-MS1)		**Source: MBF0547-01**			Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	5.09		0.500	ug/L	5.00	0.0726	100	80-120		
Matrix Spike Dup (BBF0789-MSD1)		**Source: MBF0547-01**			Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	4.93		0.500	ug/L	5.00	0.0726	97.1	80-120	3.19	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0680 - Explosives										
Blank (BBF0680-BLK1)					Prepared & Analyzed: 6/21/2021					
HMX	ND		0.500	ug/L						
RDX	ND		0.500	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.500	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.500	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*7.52*	*ug/L*	*10.0*		*75.2*	*70-130*		
Blank (BBF0680-BLK2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	ND		0.500	ug/L						
RDX	ND		0.500	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.500	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.500	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0680 - Explosives (Continued)										
Blank (BBF0680-BLK2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
Surrogate: 1,2-Dinitrobenzene			*7.42*	*ug/L*	*10.0*		*74.2*	*70-130*		
LCS (BBF0680-BS1)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.57		0.500	ug/L	5.00		91.5	70-130		
RDX	4.64		0.500	ug/L	5.00		92.7	70-130		
1,3,5-TNB	4.43		0.500	ug/L	5.00		88.7	70-130		
1,3-Dinitrobenzene	4.39		0.500	ug/L	5.00		87.8	70-130		
NB	4.29		0.500	ug/L	5.00		85.9	70-130		
2,4,6-Trinitrotoluene	4.31		0.500	ug/L	5.00		86.3	70-130		
Tetryl	4.07		0.500	ug/L	5.00		81.5	70-130		
2,6-DNT	3.96		0.500	ug/L	5.00		79.1	70-130		
2,4-Dinitrotoluene	4.40		0.500	ug/L	5.00		88.1	70-130		
2-Nitrotoluene	4.10		0.500	ug/L	5.00		82.0	70-130		
4-Nitrotoluene	3.85		0.500	ug/L	5.00		76.9	70-130		
4-Amino-2,6-dinitrotoluene	3.68		0.500	ug/L	5.00		73.7	70-130		
3-Nitrotoluene	3.75		0.500	ug/L	5.00		74.9	70-130		
2-Amino-4,6-dinitrotoluene	3.65		0.500	ug/L	5.00		73.0	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.16*	*ug/L*	*10.0*		*81.6*	*70-130*		
LCS (BBF0680-BS2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.40		0.500	ug/L	5.00		88.0	70-130		
RDX	4.03		0.500	ug/L	5.00		80.7	70-130		
1,3,5-TNB	3.97		0.500	ug/L	5.00		79.4	70-130		
1,3-Dinitrobenzene	3.96		0.500	ug/L	5.00		79.3	70-130		
NB	3.96		0.500	ug/L	5.00		79.3	70-130		
2,4,6-Trinitrotoluene	3.94		0.500	ug/L	5.00		78.8	70-130		
Tetryl	4.53		0.500	ug/L	5.00		90.6	70-130		
2,6-DNT	4.24		0.500	ug/L	5.00		84.7	70-130		
2,4-Dinitrotoluene	3.90		0.500	ug/L	5.00		78.1	70-130		
2-Nitrotoluene	4.43		0.500	ug/L	5.00		88.7	70-130		
4-Nitrotoluene	4.36		0.500	ug/L	5.00		87.3	70-130		
4-Amino-2,6-dinitrotoluene	3.34	L4	0.500	ug/L	5.00		66.9	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.2	70-130		
2-Amino-4,6-dinitrotoluene	4.03		0.500	ug/L	5.00		80.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.17*	*ug/L*	*10.0*		*81.7*	*70-130*		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0680 - Explosives (Continued)										
LCS Dup (BBF0680-BSD1)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.48		0.500	ug/L	5.00		89.5	70-130	2.15	25
RDX	4.07		0.500	ug/L	5.00		81.4	70-130	13.0	25
1,3,5-TNB	4.12		0.500	ug/L	5.00		82.4	70-130	7.29	25
1,3-Dinitrobenzene	4.02		0.500	ug/L	5.00		80.5	70-130	8.70	25
NB	3.94		0.500	ug/L	5.00		78.8	70-130	8.65	25
2,4,6-Trinitrotoluene	4.11		0.500	ug/L	5.00		82.2	70-130	4.88	25
Tetryl	4.03		0.500	ug/L	5.00		80.7	70-130	0.990	25
2,6-DNT	3.75		0.500	ug/L	5.00		75.1	70-130	5.29	25
2,4-Dinitrotoluene	3.96		0.500	ug/L	5.00		79.2	70-130	10.7	25
2-Nitrotoluene	3.84		0.500	ug/L	5.00		76.8	70-130	6.52	25
4-Nitrotoluene	3.86		0.500	ug/L	5.00		77.1	70-130	0.263	25
4-Amino-2,6-dinitrotoluene	3.52		0.500	ug/L	5.00		70.3	70-130	4.66	25
3-Nitrotoluene	3.43	L4	0.500	ug/L	5.00		68.5	70-130	8.94	25
2-Amino-4,6-dinitrotoluene	3.43	L4	0.500	ug/L	5.00		68.6	70-130	6.12	25
Surrogate: 1,2-Dinitrobenzene			*8.45*	*ug/L*	*10.0*		*84.5*	*70-130*		
LCS Dup (BBF0680-BSD2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.81		0.500	ug/L	5.00		96.2	70-130	9.01	25
RDX	4.51		0.500	ug/L	5.00		90.2	70-130	11.2	25
1,3,5-TNB	4.49		0.500	ug/L	5.00		89.8	70-130	12.2	25
1,3-Dinitrobenzene	4.47		0.500	ug/L	5.00		89.4	70-130	12.0	25
NB	4.47		0.500	ug/L	5.00		89.4	70-130	12.0	25
2,4,6-Trinitrotoluene	4.46		0.500	ug/L	5.00		89.3	70-130	12.4	25
Tetryl	3.99		0.500	ug/L	5.00		79.9	70-130	12.5	25
2,6-DNT	3.81		0.500	ug/L	5.00		76.2	70-130	10.6	25
2,4-Dinitrotoluene	4.41		0.500	ug/L	5.00		88.3	70-130	12.3	25
2-Nitrotoluene	3.92		0.500	ug/L	5.00		78.3	70-130	12.4	25
4-Nitrotoluene	3.80		0.500	ug/L	5.00		76.0	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	2.86	L4	0.500	ug/L	5.00		57.3	70-130	15.4	25
3-Nitrotoluene	4.07		0.500	ug/L	5.00		81.4	70-130	13.5	25
2-Amino-4,6-dinitrotoluene	3.83		0.500	ug/L	5.00		76.5	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene			*8.86*	*ug/L*	*10.0*		*88.6*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC										
Blank (BBF0747-BLK1)					Prepared & Analyzed: 6/22/2021					
Bromodichloromethane	ND		0.500	ug/L						
Chloroform	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Chloroethane	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC (Continued)										
Blank (BBF0747-BLK1)					Prepared & Analyzed: 6/22/2021					
Bromoform	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Bromomethane	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Naphthalene	ND		0.500	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC (Continued)										
Blank (BBF0747-BLK1)					Prepared & Analyzed: 6/22/2021					
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
tert-Butylbenzene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						
Surrogate: 4-Bromofluorobenzene			*26.1*	*ug/L*	*25.0*		*104*	*70-130*		
Surrogate: Toluene-d8			*25.2*	*ug/L*	*25.0*		*101*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.2*	*ug/L*	*19.0*		*101*	*70-130*		
LCS (BBF0747-BS1)					Prepared & Analyzed: 6/22/2021					
Chloroethane	8.50		0.500	ug/L	10.0		85.0	78-120		
Methyl ethyl ketone (MEK)	11.8		2.50	ug/L	10.0		118	55-154		
m/p Xylenes (MCL for total)	20.3		0.500	ug/L	20.0		101	80-120		
Isopropylbenzene	10.1		0.500	ug/L	10.0		101	80-120		
Hexachlorobutadiene	9.91		0.500	ug/L	10.0		99.1	80-120		
Ethylbenzene	10.0		0.500	ug/L	10.0		100	80-120		
Dichlorodifluoromethane	9.76		0.500	ug/L	10.0		97.6	57-130		
Dibromomethane	9.55		0.500	ug/L	10.0		95.5	80-120		
Dibromochloromethane	9.60		0.500	ug/L	10.0		96.0	80-121		
cis-1,3-Dichloropropene	10.2		0.500	ug/L	10.0		102	79-123		
Carbon Tetrachloride	10.6		0.500	ug/L	10.0		106	80-120		
Chloroform	10.2		0.500	ug/L	10.0		102	80-120		
Chlorobenzene (Monochlorobenzene)	9.82		0.500	ug/L	10.0		98.2	80-120		
Methyl isobutyl ketone (MIBK)	12.0		2.50	ug/L	10.0		120	70-136		
tert-Butylbenzene	10.4		0.500	ug/L	10.0		104	80-120		
cis-1,2-Dichloroethylene	9.81		0.500	ug/L	10.0		98.1	80-120		
Styrene	9.71		0.500	ug/L	10.0		97.1	80-120		
Vinyl Chloride	9.25		0.500	ug/L	10.0		92.5	75-120		
Trichloroflouromethane	11.4		0.500	ug/L	10.0		114	61-140		
Trichloroethene	9.44		0.500	ug/L	10.0		94.4	80-120		
trans-1,3-Dichloropropene	9.93		0.500	ug/L	10.0		99.3	69-130		
trans-1,2 Dichloroethylene	10.4		0.500	ug/L	10.0		104	80-120		
sec-Butylbenzene	10.0		0.500	ug/L	10.0		100	80-120		
Tetrachloroethylene	9.94		0.500	ug/L	10.0		99.4	80-120		
methyl-t-butyl ether (MTBE)	10.4		0.500	ug/L	10.0		104	71-130		
Carbon disulfide	9.80		0.500	ug/L	10.0		98.0	80-120		
p-isopropyltoluene	9.92		0.500	ug/L	10.0		99.2	80-120		
o-Xylene (MCL for total)	10.2		0.500	ug/L	10.0		102	80-120		
n-Propylbenzene	10.1		0.500	ug/L	10.0		101	80-120		
n-Butylbenzene	10.3		0.500	ug/L	10.0		103	74-122		
Naphthalene	10.1		0.500	ug/L	10.0		101	66-133		
Toluene	9.86		0.500	ug/L	10.0		98.6	80-120		
1,1-Dichloroethylene	11.0		0.500	ug/L	10.0		110	70-129		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.70		0.500	ug/L	10.0		97.0	80-120		
EDB (screening)	10.2		0.500	ug/L	10.0		102	70-130		
DBCP (screening)	9.97		0.500	ug/L	10.0		99.7	71-128		
1,1,2,2-Tetrachloroethane	10.4		0.500	ug/L	10.0		104	77-123		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC (Continued)										
LCS (BBF0747-BS1)					Prepared & Analyzed: 6/22/2021					
1,2,4-Trichlorobenzene	9.78		0.500	ug/L	10.0		97.8	80-120		
1,2-Dichloroethane	11.1		0.500	ug/L	10.0		111	80-120		
1,1-Dichloropropene	10.4		0.500	ug/L	10.0		104	80-120		
1,2,4-Trimethylbenzene	10.0		0.500	ug/L	10.0		100	80-120		
1,1-Dichloroethane	10.2		0.500	ug/L	10.0		102	80-120		
1,1,2-Trichlorethane	10.1		0.500	ug/L	10.0		101	80-120		
1,1,1,2-Tetrachloroethane	9.92		0.500	ug/L	10.0		99.2	80-120		
1,1,1-Trichloroethane	10.7		0.500	ug/L	10.0		107	80-120		
Bromoform	9.39		0.500	ug/L	10.0		93.9	68-133		
1,2,3-Trichlorobenzene	9.93		0.500	ug/L	10.0		99.3	78-120		
o-Chlorotoluene	10.0		0.500	ug/L	10.0		100	80-120		
Bromobenzene	9.70		0.500	ug/L	10.0		97.0	80-120		
Benzene	9.84		0.500	ug/L	10.0		98.4	80-120		
1,2,3-Trichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
1,2-Dichloropropane	9.93		0.500	ug/L	10.0		99.3	80-120		
p-Chlorotoluene	10.2		0.500	ug/L	10.0		102	80-124		
2-hexanone	12.0		2.50	ug/L	10.0		120	65-140		
Acrylonitrile	11.2		0.500	ug/L	10.0		112	73-131		
Bromochloromethane	9.81		0.500	ug/L	10.0		98.1	80-120		
2,2-Dichloropropane	10.2		0.500	ug/L	10.0		102	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.80		0.500	ug/L	10.0		98.0	80-120		
1,3-Dichloropropane	10.5		0.500	ug/L	10.0		105	80-120		
m-Dichlorobenzene	9.64		0.500	ug/L	10.0		96.4	80-120		
Bromodichloromethane	10.0		0.500	ug/L	10.0		100	80-120		
1,3,5-Trimethylbenzene	10.2		0.500	ug/L	10.0		102	80-121		
Surrogate: Toluene-d8			*25.3*	*ug/L*	*25.0*		*101*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*25.6*	*ug/L*	*25.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.0*	*ug/L*	*19.0*		*100*	*70-130*		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC (Continued)										
Matrix Spike (BBF0747-MS1)	**Source: MBF0598-02**				Prepared & Analyzed: 6/22/2021					
m/p Xylenes (MCL for total)	7.28	M2	0.500	ug/L	20.0	ND	36.4	57-130		
Dichlorodifluoromethane	12.5		0.500	ug/L	10.0	ND	125	57-136		
Hexachlorobutadiene	10.1		0.500	ug/L	10.0	ND	101	70-130		
Ethylbenzene	7.30		0.500	ug/L	10.0	ND	73.0	70-130		
Isopropylbenzene	8.03		0.500	ug/L	10.0	ND	80.3	70-130		
Dibromomethane	9.70		0.500	ug/L	10.0	ND	97.0	70-130		
Dibromochloromethane	9.21		0.500	ug/L	10.0	ND	92.1	70-130		
cis-1,3-Dichloropropene	9.69		0.500	ug/L	10.0	ND	96.9	74-124		
Chloroform	10.8		0.500	ug/L	10.0	ND	108	70-130		
Chloroethane	11.4		0.500	ug/L	10.0	ND	114	68-138		
Chlorobenzene (Monochlorobenzene)	10.1		0.500	ug/L	10.0	ND	101	70-130		
Methyl ethyl ketone (MEK)	10.1		2.50	ug/L	10.0	ND	101	47-165		
Carbon Tetrachloride	11.2		0.500	ug/L	10.0	ND	112	70-130		
cis-1,2-Dichloroethylene	10.2		0.500	ug/L	10.0	ND	102	70-130		
Styrene	ND	M2	0.500	ug/L	10.0	ND		30-130		
Trichloroflouromethane	12.2		0.500	ug/L	10.0	ND	122	50-154		
Trichloroethene	9.79		0.500	ug/L	10.0	ND	97.9	70-130		
trans-1,3-Dichloropropene	9.62		0.500	ug/L	10.0	ND	96.2	61-131		
1,2-Dichloropropane	10.0		0.500	ug/L	10.0	ND	100	70-130		
trans-1,2 Dichloroethylene	10.5		0.500	ug/L	10.0	ND	105	70-130		
Carbon disulfide	9.68		0.500	ug/L	10.0	ND	96.8	70-130		
Toluene	7.15		0.500	ug/L	10.0	ND	71.5	70-130		
tert-Butylbenzene	10.9		0.500	ug/L	10.0	ND	109	70-130		
Methyl isobutyl ketone (MIBK)	10.4		2.50	ug/L	10.0	ND	104	53-167		
sec-Butylbenzene	8.18		0.500	ug/L	10.0	ND	81.8	70-130		
p-isopropyltoluene	9.98		0.500	ug/L	10.0	ND	99.8	70-130		
o-Xylene (MCL for total)	4.38	M2	0.500	ug/L	10.0	ND	43.8	62-127		
n-Propylbenzene	7.65		0.500	ug/L	10.0	ND	76.5	70-130		
n-Butylbenzene	7.71		0.500	ug/L	10.0	ND	77.1	67-130		
Naphthalene	8.52		0.500	ug/L	10.0	ND	85.2	56-147		
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138		
Tetrachloroethylene	9.80		0.500	ug/L	10.0	ND	98.0	70-130		
1,1-Dichloroethylene	9.67		0.500	ug/L	10.0	ND	96.7	70-130		
m-Dichlorobenzene	9.73		0.500	ug/L	10.0	ND	97.3	70-130		
DBCP (screening)	8.49		0.500	ug/L	10.0	ND	84.9	55-146		
1,2,4-Trimethylbenzene	1.60	M2	0.500	ug/L	10.0	ND	16.0	40-140		
1,2,4-Trichlorobenzene	9.98		0.500	ug/L	10.0	ND	99.8	70-130		
1,2,3-Trichloropropane	9.87		0.500	ug/L	10.0	ND	98.7	69-137		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.80		0.500	ug/L	10.0	ND	98.0	70-130		
1,1-Dichloropropene	9.05		0.500	ug/L	10.0	ND	90.5	70-130		
1,1-Dichloroethane	10.6		0.500	ug/L	10.0	ND	106	70-130		
1,1,2-Trichlorethane	9.75		0.500	ug/L	10.0	ND	97.5	70-130		
1,1,2,2-Tetrachloroethane	9.75		0.500	ug/L	10.0	ND	97.5	67-136		
1,1,1-Trichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130		
Vinyl Chloride	9.56		0.500	ug/L	10.0	ND	95.6	70-130		
1,1,1,2-Tetrachloroethane	9.91		0.500	ug/L	10.0	ND	99.1	70-130		
1,2,3-Trichlorobenzene	9.90		0.500	ug/L	10.0	ND	99.0	67-134		
2-hexanone	10.4		2.50	ug/L	10.0	ND	104	43-175		
Bromodichloromethane	10.1		0.500	ug/L	10.0	ND	101	70-130		
Bromochloromethane	9.95		0.500	ug/L	10.0	ND	99.5	70-130		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC (Continued)										
Matrix Spike (BBF0747-MS1)	**Source: MBF0598-02**				Prepared & Analyzed: 6/22/2021					
Bromobenzene	9.69		0.500	ug/L	10.0	ND	96.9	70-130		
Benzene	10.0		0.500	ug/L	10.0	ND	100	70-130		
Acrylonitrile	10.1		0.500	ug/L	10.0	ND	101	65-137		
EDB (screening)	10.0		0.500	ug/L	10.0	ND	100	70-130		
Bromoform	8.02		0.500	ug/L	10.0	ND	80.2	59-140		
o-Chlorotoluene	9.76		0.500	ug/L	10.0	ND	97.6	70-130		
2,2-Dichloropropane	11.0		0.500	ug/L	10.0	ND	110	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	9.82		0.500	ug/L	10.0	ND	98.2	70-130		
1,3-Dichloropropane	10.4		0.500	ug/L	10.0	ND	104	70-130		
1,3,5-Trimethylbenzene	0.630	M2	0.500	ug/L	10.0	ND	6.30	40-140		
1,2-Dichloroethane	11.6		0.500	ug/L	10.0	ND	116	70-130		
p-Chlorotoluene	8.31		0.500	ug/L	10.0	ND	83.1	70-130		
Surrogate: Toluene-d8			*20.3*	*ug/L*	*25.0*		*81.1*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*26.2*	*ug/L*	*25.0*		*105*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.0*	*ug/L*	*19.0*		*100*	*70-130*		
Matrix Spike Dup (BBF0747-MSD1)	**Source: MBF0598-02**				Prepared & Analyzed: 6/22/2021					
2-hexanone	10.7		2.50	ug/L	10.0	ND	107	43-175	2.85	25
Carbon disulfide	9.73		0.500	ug/L	10.0	ND	97.3	70-130	0.515	25
1,3,5-Trimethylbenzene	1.52	R12	0.500	ug/L	10.0	ND	15.2	40-140	82.8	25
m-Dichlorobenzene	9.84		0.500	ug/L	10.0	ND	98.4	70-130	1.12	25
1,3-Dichloropropane	10.3		0.500	ug/L	10.0	ND	103	70-130	0.678	25
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.1		0.500	ug/L	10.0	ND	101	70-130	2.71	25
1,2-Dichloroethane	11.7		0.500	ug/L	10.0	ND	117	70-130	0.258	25
o-Chlorotoluene	10.1		0.500	ug/L	10.0	ND	101	70-130	3.03	25
p-Chlorotoluene	8.62		0.500	ug/L	10.0	ND	86.2	70-130	3.66	25
Benzene	10.2		0.500	ug/L	10.0	ND	102	70-130	0.990	25
Bromobenzene	9.75		0.500	ug/L	10.0	ND	97.5	70-130	0.617	25
Bromochloromethane	9.95		0.500	ug/L	10.0	ND	99.5	70-130	0.00	25
Bromodichloromethane	10.2		0.500	ug/L	10.0	ND	102	70-130	0.296	25
Acrylonitrile	10.1		0.500	ug/L	10.0	ND	101	65-137	0.495	25
2,2-Dichloropropane	11.0		0.500	ug/L	10.0	ND	110	70-130	0.636	25
1,2,3-Trichlorobenzene	9.99		0.500	ug/L	10.0	ND	99.9	67-134	0.905	25
1,1,1,2-Tetrachloroethane	10.0		0.500	ug/L	10.0	ND	100	70-130	0.904	25
1,1,1-Trichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130	0.707	25
1,1,2,2-Tetrachloroethane	9.92		0.500	ug/L	10.0	ND	99.2	67-136	1.73	25
1,1,2-Trichlorethane	10.0		0.500	ug/L	10.0	ND	100	70-130	2.53	25
1,1-Dichloroethane	10.7		0.500	ug/L	10.0	ND	107	70-130	1.03	25
1,2-Dichloropropane	10.3		0.500	ug/L	10.0	ND	103	70-130	3.05	25
1,1-Dichloropropene	9.67		0.500	ug/L	10.0	ND	96.7	70-130	6.62	25
Carbon Tetrachloride	11.4		0.500	ug/L	10.0	ND	114	70-130	1.60	25
1,2,3-Trichloropropane	10.1		0.500	ug/L	10.0	ND	101	69-137	2.01	25
1,2,4-Trichlorobenzene	10.0		0.500	ug/L	10.0	ND	100	70-130	0.599	25
1,2,4-Trimethylbenzene	2.32	R12	0.500	ug/L	10.0	ND	23.2	40-140	36.7	25
DBCP (screening)	8.67		0.500	ug/L	10.0	ND	86.7	55-146	2.10	25
EDB (screening)	10.1		0.500	ug/L	10.0	ND	101	70-130	0.498	25
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	9.89		0.500	ug/L	10.0	ND	98.9	70-130	0.914	25
1,1-Dichloroethylene	10.2		0.500	ug/L	10.0	ND	102	70-130	5.82	25
Tetrachloroethylene	10.1		0.500	ug/L	10.0	ND	101	70-130	3.11	25
Bromoform	7.91		0.500	ug/L	10.0	ND	79.1	59-140	1.38	25

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0747 - VOC (Continued)										
Matrix Spike Dup (BBF0747-MSD1)	**Source: MBF0598-02**				Prepared & Analyzed: 6/22/2021					
n-Propylbenzene	8.45		0.500	ug/L	10.0	ND	84.5	70-130	9.94	25
o-Xylene (MCL for total)	5.22	M2	0.500	ug/L	10.0	ND	52.2	62-127	17.5	25
p-isopropyltoluene	10.1		0.500	ug/L	10.0	ND	101	70-130	1.20	25
sec-Butylbenzene	9.03		0.500	ug/L	10.0	ND	90.3	70-130	9.88	25
Naphthalene	8.82		0.500	ug/L	10.0	ND	88.2	56-147	3.46	25
tert-Butylbenzene	11.1		0.500	ug/L	10.0	ND	111	70-130	1.82	25
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138	0.777	25
Toluene	7.87		0.500	ug/L	10.0	ND	78.7	70-130	9.59	25
trans-1,2 Dichloroethylene	10.6		0.500	ug/L	10.0	ND	106	70-130	1.14	25
trans-1,3-Dichloropropene	9.59		0.500	ug/L	10.0	ND	95.9	61-131	0.312	25
Trichloroethene	9.95		0.500	ug/L	10.0	ND	99.5	70-130	1.62	25
Trichloroflouromethane	12.6		0.500	ug/L	10.0	ND	126	50-154	2.74	25
Styrene	0.910	M2	0.500	ug/L	10.0	ND	9.10	30-130		25
Dichlorodifluoromethane	12.6		0.500	ug/L	10.0	ND	126	57-136	0.719	25
Chlorobenzene (Monochlorobenzene)	10.3		0.500	ug/L	10.0	ND	103	70-130	1.47	25
Chloroethane	11.6		0.500	ug/L	10.0	ND	116	68-138	2.08	25
Chloroform	10.9		0.500	ug/L	10.0	ND	109	70-130	1.29	25
cis-1,2-Dichloroethylene	10.1		0.500	ug/L	10.0	ND	101	70-130	1.58	25
cis-1,3-Dichloropropene	9.97		0.500	ug/L	10.0	ND	99.7	74-124	2.85	25
n-Butylbenzene	8.92		0.500	ug/L	10.0	ND	89.2	67-130	14.6	25
Dibromomethane	9.70		0.500	ug/L	10.0	ND	97.0	70-130	0.00	25
Vinyl Chloride	9.78		0.500	ug/L	10.0	ND	97.8	70-130	2.28	25
Ethylbenzene	8.04		0.500	ug/L	10.0	ND	80.4	70-130	9.65	25
Hexachlorobutadiene	10.6		0.500	ug/L	10.0	ND	106	70-130	4.36	25
Isopropylbenzene	8.65		0.500	ug/L	10.0	ND	86.5	70-130	7.43	25
m/p Xylenes (MCL for total)	9.59	R4	0.500	ug/L	20.0	ND	48.0	57-130	27.4	25
Methyl ethyl ketone (MEK)	10.2		2.50	ug/L	10.0	ND	102	47-165	0.591	25
Methyl isobutyl ketone (MIBK)	10.7		2.50	ug/L	10.0	ND	107	53-167	3.13	25
Dibromochloromethane	9.13		0.500	ug/L	10.0	ND	91.3	70-130	0.872	25
Surrogate: 4-Bromofluorobenzene			*25.9*	*ug/L*	*25.0*		*104*	*70-130*		
Surrogate: Toluene-d8			*21.5*	*ug/L*	*25.0*		*85.9*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.3*	*ug/L*	*19.0*		*102*	*70-130*		

MBF0598

Due: 07/02/21

ANATEK LABS

Chain of Custody Record

An
1282 Alturas Drive
504 E Sprague Ste D,

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.009
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S. Eckes + N. Thorton
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com, nick.thorton@pbsusa.com	

Please refer to our normal turn around times at www.anateklabs.com/pricing-lists

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

__Phone
__Email

*All rush order requests must have prior approval

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
	02Q21L4MW08BW	6/16/21 1010	H_2O		6		x	x	x
	02Q21L4MW04AW	1210							
	02Q21L4MW05AW	1315							
	02Q21L4MW10BW	1435							
	02Q21L4MW10AW	1530							
	06162TB	1600			1		x		

Note Special Instructions/Comments

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	S. Eckes		PBS	6/16/21	1750
Received by	Chris Sanderson		Anatek	06/17/21	0946
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

MBF0598

Due: 07/02/21

Client Name: PBS Engineering Project:

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 2 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: (Bubble Wrap) Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 4-6 Cooler Temp Corrected (°C): — Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Samples Properly Preserved?	(Yes)	No	N/A	
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A	
VOC Trip Blanks Present?	(Yes)	No	N/A	
Labels and Chains Agree?	Yes	(No)	N/A	Sample set 0206211L4MW145W is not on chain
Total Number of Sample Bottles Received: 37				
Chain of Custody Fully Completed?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	Yes	No	Unknown	

Record preservatives (and lot numbers, if known) for containers below:

HCl → VOC 8260 → 5 44ml x 18 + TB

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Perchlorate → P125ml x 6
Explosives → 5 1L x 12

Received/Inspected By: CS Date/Time: 06/18/2021 0946

MBF0598

Due: 07/02/21

Christopher Sandison

From: Samantha Eckes <Samantha.Eckes@pbsusa.com>
Sent: Tuesday, June 22, 2021 4:31 PM
To: Christopher Sandison
Subject: RE: Sample and Chain Discrepancy

Yes, Sorry for this late reply Chris, I've been in the field an am just getting to backlogged emails. I am sorry for this miss, please add it or send over a scan and I can revise it as well.

Sam Eckes | she/her | Staff Geologist | PBS Portland | 503.417.7697 (direct) | 845.264.9692 (mobile)

From: Christopher Sandison <christophers@anateklabs.com>
Sent: Friday, June 18, 2021 2:33 PM
To: Samantha Eckes <Samantha.Eckes@pbsusa.com>
Subject: Sample and Chain Discrepancy

Hello Samantha,

This is Chris Sandison from Anatek Labs in Moscow. We received your samples today and there was a slight discrepancy between the Chain of Custody and the sample sets. Sample set 02Q21L4MW145W was not included on the chain. Would you like me to write it in?

Thanks for your time,

Chris Sandison
Sample Receiving
Anatek Labs
1282 Alturas Dr
Moscow, ID 83843
(208) 883-2839

Appendix C

Anatek, Level III Data Package

(Electronic files provided on enclosed CD)

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client:	PBS Engineering - Portland	Work Order:	MBF0547
Address:	4412 SW Corbett Ave	Project:	76151.009
	Portland, OR 97239	Reported:	8/16/2021 09:25
Attn:	Scott Braunsten		

Analytical Results Report

Sample Location:	02Q21LCMW09DW		
Lab/Sample Number:	MBF0547-01	Collect Date:	06/14/21 13:30
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 12:40	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 1:21	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*79.0%*		*70-130*	*6/22/21 1:21*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW09DW		
Lab/Sample Number:	MBF0547-01	Collect Date:	06/14/21 13:30
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 18:51	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 18:51	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 18:51	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 18:51	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 18:51	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW09DW		
Lab/Sample Number:	MBF0547-01	Collect Date:	06/14/21 13:30
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 18:51	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*6/21/21 18:51*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 18:51*	*TEC*	*EPA 8260D*	
Surrogate: Toluene-d8	*98.2%*		*70-130*	*6/21/21 18:51*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW09SW
Lab/Sample Number: MBF0547-02 Collect Date: 06/14/21 14:13
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 12:47	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 1:58	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*81.2%*		*70-130*	*6/22/21 1:58*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 19:21	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 19:21	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW09SW		
Lab/Sample Number:	MBF0547-02	Collect Date:	06/14/21 14:13
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 19:21	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 19:21	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 19:21	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 19:21	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 19:21*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 19:21*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW09SW		
Lab/Sample Number:	MBF0547-02	Collect Date:	06/14/21 14:13
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*97.5%*		*70-130*	*6/21/21 19:21*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW01DW
Lab/Sample Number: MBF0547-03 Collect Date: 06/14/21 15:10
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 12:54	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 2:35	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*87.9%*		*70-130*	*6/22/21 2:35*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 19:51	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 19:51	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW01DW		
Lab/Sample Number:	MBF0547-03	Collect Date:	06/14/21 15:10
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 19:51	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 19:51	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 19:51	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 19:51	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*102%*		*70-130*	*6/21/21 19:51*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*99.8%*		*70-130*	*6/21/21 19:51*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW01DW		
Lab/Sample Number:	MBF0547-03	Collect Date:	06/14/21 15:10
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*97.9%*		*70-130*	*6/21/21 19:51*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW01SW
Lab/Sample Number: MBF0547-04 Collect Date: 06/14/21 15:45
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 13:01	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 3:12	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*83.9%*		*70-130*	*6/22/21 3:12*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 20:20	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 20:20	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW01SW		
Lab/Sample Number:	MBF0547-04	Collect Date:	06/14/21 15:45
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 20:20	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 20:20	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 20:20	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 20:20	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 20:20*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*101%*		*70-130*	*6/21/21 20:20*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW01SW		
Lab/Sample Number:	MBF0547-04	Collect Date:	06/14/21 15:45
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*97.4%*		*70-130*	*6/21/21 20:20*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW02DW
Lab/Sample Number: MBF0547-05 Collect Date: 06/14/21 16:40
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 13:09	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 3:49	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*87.3%*		*70-130*	*6/22/21 3:49*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 20:50	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 20:50	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW02DW		
Lab/Sample Number:	MBF0547-05	Collect Date:	06/14/21 16:40
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 20:50	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 20:50	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 20:50	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 20:50	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 20:50*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*103%*		*70-130*	*6/21/21 20:50*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW02DW		
Lab/Sample Number:	MBF0547-05	Collect Date:	06/14/21 16:40
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*97.0%*		*70-130*	*6/21/21 20:50*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW02SW
Lab/Sample Number: MBF0547-06 Collect Date: 06/15/21 08:20
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 13:16	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 4:26	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*81.8%*		*70-130*	*6/22/21 4:26*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 21:19	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 21:19	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW02SW		
Lab/Sample Number:	MBF0547-06	Collect Date:	06/15/21 08:20
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 21:19	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 21:19	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 21:19	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 21:19	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 21:19*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 21:19*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW02SW		
Lab/Sample Number:	MBF0547-06	Collect Date:	06/15/21 08:20
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.4%*		*70-130*	*6/21/21 21:19*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW04DW
Lab/Sample Number: MBF0547-07 Collect Date: 06/15/21 11:11
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 13:23	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 5:03	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*85.4%*		*70-130*	*6/22/21 5:03*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 21:49	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 21:49	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW04DW		
Lab/Sample Number:	MBF0547-07	Collect Date:	06/15/21 11:11
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 21:49	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 21:49	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 21:49	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 21:49	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 21:49*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 21:49*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW04DW		
Lab/Sample Number:	MBF0547-07	Collect Date:	06/15/21 11:11
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.5%*		*70-130*	*6/21/21 21:49*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW04SW
Lab/Sample Number: MBF0547-08 Collect Date: 06/15/21 12:00
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 13:31	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 5:40	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*84.8%*		*70-130*	*6/22/21 5:40*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 22:19	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 22:19	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW04SW		
Lab/Sample Number:	MBF0547-08	Collect Date:	06/15/21 12:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 22:19	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 22:19	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 22:19	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 22:19	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 22:19*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 22:19*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW04SW		
Lab/Sample Number:	MBF0547-08	Collect Date:	06/15/21 12:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.3%*		*70-130*	*6/21/21 22:19*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21L4MW07BW
Lab/Sample Number: MBF0547-09 Collect Date: 06/15/21 13:15
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	1.62	ug/L	0.500	6/25/21 13:38	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 6:17	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*87.7%*		*70-130*	*6/22/21 6:17*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 22:48	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 22:48	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW07BW		
Lab/Sample Number:	MBF0547-09	Collect Date:	06/15/21 13:15
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 22:48	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 22:48	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 22:48	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 22:48	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*99.3%*		*70-130*	*6/21/21 22:48*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 22:48*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21L4MW07BW		
Lab/Sample Number:	MBF0547-09	Collect Date:	06/15/21 13:15
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*96.6%*		*70-130*	*6/21/21 22:48*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW03SW
Lab/Sample Number: MBF0547-10 Collect Date: 06/15/21 09:00
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 13:45	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 6:54	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*81.2%*		*70-130*	*6/22/21 6:54*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 23:17	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 23:17	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW03SW		
Lab/Sample Number:	MBF0547-10	Collect Date:	06/15/21 09:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 23:17	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 23:17	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 23:17	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 23:17	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*101%*		*70-130*	*6/21/21 23:17*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*101%*		*70-130*	*6/21/21 23:17*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW03SW		
Lab/Sample Number:	MBF0547-10	Collect Date:	06/15/21 09:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.5%*		*70-130*	*6/21/21 23:17*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW03DW
Lab/Sample Number: MBF0547-11 Collect Date: 06/15/21 09:00
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 14:00	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 9:54	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*86.3%*		*70-130*	*6/22/21 9:54*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 23:47	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 23:47	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW03DW		
Lab/Sample Number:	MBF0547-11	Collect Date:	06/15/21 09:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 23:47	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 23:47	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/21/21 23:47	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/21/21 23:47	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*6/21/21 23:47*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 23:47*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW03DW		
Lab/Sample Number:	MBF0547-11	Collect Date:	06/15/21 09:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*95.6%*		*70-130*	*6/21/21 23:47*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location: 02Q21LCMW14OW
Lab/Sample Number: MBF0547-12 Collect Date: 06/15/21 15:00
Date Received: 06/17/21 10:53 Collected By: S. Eckes + N. Thorton
Matrix: Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics							
Perchlorate	ND	ug/L	0.500	6/25/21 14:07	MER	EPA 6850	
Semivolatiles							
1,3,5-TNB	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
1,3-Dinitrobenzene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
2,4,6-Trinitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
2,4-Dinitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
2,6-DNT	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
2-Amino-4,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
2-Nitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
3-Nitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
4-Amino-2,6-dinitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
4-Nitrotoluene	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
HMX	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
NB	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
RDX	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
Tetryl	ND	ug/L	0.500	6/22/21 10:36	MER	EPA 8330B	
Surrogate: 1,2-Dinitrobenzene	*86.5%*		*70-130*	*6/22/21 10:36*	*MER*	*EPA 8330B*	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/22/21 0:16	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/22/21 0:16	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Benzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW14OW		
Lab/Sample Number:	MBF0547-12	Collect Date:	06/15/21 15:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Bromodichloromethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
m/p Xylenes (MCL for total)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/22/21 0:16	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/22/21 0:16	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	2.50	6/22/21 0:16	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.500	6/22/21 0:16	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*100%*		*70-130*	*6/22/21 0:16*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/22/21 0:16*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	02Q21LCMW14OW		
Lab/Sample Number:	MBF0547-12	Collect Date:	06/15/21 15:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
Surrogate: Toluene-d8	*94.4%*		*70-130*	*6/22/21 0:16*	*TEC*	*EPA 8260D*	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	061521TB		
Lab/Sample Number:	MBF0547-13	Collect Date:	06/15/21 18:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles							
1,1,1,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,1,1-Trichloroethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,1,2-Trichlorethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,1-Dichloroethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,1-Dichloroethylene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,1-Dichloropropene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2,3-Trichlorobenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2,3-Trichloropropane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2,4-Trichlorobenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2,4-Trimethylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2-Dichloroethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,2-Dichloropropane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,3,5-Trimethylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,3-Dichloropropane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
2,2-Dichloropropane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
2-Chloroethyl vinyl ether	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
2-hexanone	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Acetone	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Acrolein	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Acrylonitrile	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Benzene	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
Bromobenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Bromochloromethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Bromodichloromethane	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
Bromoform	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Bromomethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Carbon disulfide	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Carbon Tetrachloride	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
Chlorobenzene (Monochlorobenzene)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Chloroethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Chloroform	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
Chloromethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
cis-1,2-Dichloroethylene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
cis-1,3-Dichloropropene	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
DBCP (screening)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Dibromochloromethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Dibromomethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Dichlorodifluoromethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
EDB (screening)	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
Ethylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Hexachlorobutadiene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Isopropylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Analytical Results Report

(Continued)

Sample Location:	061521TB		
Lab/Sample Number:	MBF0547-13	Collect Date:	06/15/21 18:00
Date Received:	06/17/21 10:53	Collected By:	S. Eckes + N. Thorton
Matrix:	Water		

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Volatiles (Continued)							
m/p Xylenes (MCL for total)	ND	ug/L	1.00	6/21/21 18:21	TEC	EPA 8260D	
m-Dichlorobenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Methyl ethyl ketone (MEK)	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.50	6/21/21 18:21	TEC	EPA 8260D	
Methylene Chloride (Dichloromethane)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Naphthalene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
n-Butylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
n-Propylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
o-Chlorotoluene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
o-Xylene (MCL for total)	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
p-Chlorotoluene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
p-isopropyltoluene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
sec-Butylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Styrene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
tert-Butylbenzene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Tetrachloroethylene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Toluene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
trans-1,2 Dichloroethylene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
trans-1,3-Dichloropropene	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
trans-1-4-Dichloro-2-butene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Trichloroethene	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Trichloroflouromethane	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Vinyl acetate	ND	ug/L	0.500	6/21/21 18:21	TEC	EPA 8260D	
Vinyl Chloride	ND	ug/L	0.200	6/21/21 18:21	TEC	EPA 8260D	
Surrogate: 1,2-Dichlorobenzene-d4	*99.8%*		*70-130*	*6/21/21 18:21*	*TEC*	*EPA 8260D*	
Surrogate: 4-Bromofluorobenzene	*102%*		*70-130*	*6/21/21 18:21*	*TEC*	*EPA 8260D*	
Surrogate: Toluene-d8	*99.0%*		*70-130*	*6/21/21 18:21*	*TEC*	*EPA 8260D*	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

L4	The associated blank spike recovery was below method acceptance limits. This analyte was not detected in the sample.
PQL	Practical Quantitation Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
*	Not a state-certified analyte

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Certifications

Code	Description	Facility	Number
DOE WA	Washington Department of Ecology	Anatek-Moscow, ID	C595

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0789 - Perchlorate										
Blank (BBF0789-BLK1)					Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	ND		0.500	ug/L						
LCS (BBF0789-BS1)					Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	4.99		0.500	ug/L	5.00		99.8	80-120		
Matrix Spike (BBF0789-MS1)		**Source: MBF0547-01**			Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	5.09		0.500	ug/L	5.00	0.0726	100	80-120		
Matrix Spike Dup (BBF0789-MSD1)		**Source: MBF0547-01**			Prepared: 6/23/2021 Analyzed: 6/25/2021					
Perchlorate	4.93		0.500	ug/L	5.00	0.0726	97.1	80-120	3.19	20

Quality Control Data

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0680 - Explosives										
Blank (BBF0680-BLK1)					Prepared & Analyzed: 6/21/2021					
HMX	ND		0.500	ug/L						
RDX	ND		0.500	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.500	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.500	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						
Surrogate: 1,2-Dinitrobenzene			*7.52*	*ug/L*	*10.0*		*75.2*	*70-130*		
Blank (BBF0680-BLK2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	ND		0.500	ug/L						
RDX	ND		0.500	ug/L						
1,3,5-TNB	ND		0.500	ug/L						
1,3-Dinitrobenzene	ND		0.500	ug/L						
NB	ND		0.500	ug/L						
2,4,6-Trinitrotoluene	ND		0.500	ug/L						
Tetryl	ND		0.500	ug/L						
2,6-DNT	ND		0.500	ug/L						
2,4-Dinitrotoluene	ND		0.500	ug/L						
2-Nitrotoluene	ND		0.500	ug/L						
4-Nitrotoluene	ND		0.500	ug/L						
4-Amino-2,6-dinitrotoluene	ND		0.500	ug/L						
3-Nitrotoluene	ND		0.500	ug/L						
2-Amino-4,6-dinitrotoluene	ND		0.500	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0680 - Explosives (Continued)										
Blank (BBF0680-BLK2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
Surrogate: 1,2-Dinitrobenzene			*7.42*	*ug/L*	*10.0*		*74.2*	*70-130*		
LCS (BBF0680-BS1)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.57		0.500	ug/L	5.00		91.5	70-130		
RDX	4.64		0.500	ug/L	5.00		92.7	70-130		
1,3,5-TNB	4.43		0.500	ug/L	5.00		88.7	70-130		
1,3-Dinitrobenzene	4.39		0.500	ug/L	5.00		87.8	70-130		
NB	4.29		0.500	ug/L	5.00		85.9	70-130		
2,4,6-Trinitrotoluene	4.31		0.500	ug/L	5.00		86.3	70-130		
Tetryl	4.07		0.500	ug/L	5.00		81.5	70-130		
2,6-DNT	3.96		0.500	ug/L	5.00		79.1	70-130		
2,4-Dinitrotoluene	4.40		0.500	ug/L	5.00		88.1	70-130		
2-Nitrotoluene	4.10		0.500	ug/L	5.00		82.0	70-130		
4-Nitrotoluene	3.85		0.500	ug/L	5.00		76.9	70-130		
4-Amino-2,6-dinitrotoluene	3.68		0.500	ug/L	5.00		73.7	70-130		
3-Nitrotoluene	3.75		0.500	ug/L	5.00		74.9	70-130		
2-Amino-4,6-dinitrotoluene	3.65		0.500	ug/L	5.00		73.0	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.16*	*ug/L*	*10.0*		*81.6*	*70-130*		
LCS (BBF0680-BS2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.40		0.500	ug/L	5.00		88.0	70-130		
RDX	4.03		0.500	ug/L	5.00		80.7	70-130		
1,3,5-TNB	3.97		0.500	ug/L	5.00		79.4	70-130		
1,3-Dinitrobenzene	3.96		0.500	ug/L	5.00		79.3	70-130		
NB	3.96		0.500	ug/L	5.00		79.3	70-130		
2,4,6-Trinitrotoluene	3.94		0.500	ug/L	5.00		78.8	70-130		
Tetryl	4.53		0.500	ug/L	5.00		90.6	70-130		
2,6-DNT	4.24		0.500	ug/L	5.00		84.7	70-130		
2,4-Dinitrotoluene	3.90		0.500	ug/L	5.00		78.1	70-130		
2-Nitrotoluene	4.43		0.500	ug/L	5.00		88.7	70-130		
4-Nitrotoluene	4.36		0.500	ug/L	5.00		87.3	70-130		
4-Amino-2,6-dinitrotoluene	3.34	L4	0.500	ug/L	5.00		66.9	70-130		
3-Nitrotoluene	4.66		0.500	ug/L	5.00		93.2	70-130		
2-Amino-4,6-dinitrotoluene	4.03		0.500	ug/L	5.00		80.7	70-130		
Surrogate: 1,2-Dinitrobenzene			*8.17*	*ug/L*	*10.0*		*81.7*	*70-130*		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0680 - Explosives (Continued)										
LCS Dup (BBF0680-BSD1)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.48		0.500	ug/L	5.00		89.5	70-130	2.15	25
RDX	4.07		0.500	ug/L	5.00		81.4	70-130	13.0	25
1,3,5-TNB	4.12		0.500	ug/L	5.00		82.4	70-130	7.29	25
1,3-Dinitrobenzene	4.02		0.500	ug/L	5.00		80.5	70-130	8.70	25
NB	3.94		0.500	ug/L	5.00		78.8	70-130	8.65	25
2,4,6-Trinitrotoluene	4.11		0.500	ug/L	5.00		82.2	70-130	4.88	25
Tetryl	4.03		0.500	ug/L	5.00		80.7	70-130	0.990	25
2,6-DNT	3.75		0.500	ug/L	5.00		75.1	70-130	5.29	25
2,4-Dinitrotoluene	3.96		0.500	ug/L	5.00		79.2	70-130	10.7	25
2-Nitrotoluene	3.84		0.500	ug/L	5.00		76.8	70-130	6.52	25
4-Nitrotoluene	3.86		0.500	ug/L	5.00		77.1	70-130	0.263	25
4-Amino-2,6-dinitrotoluene	3.52		0.500	ug/L	5.00		70.3	70-130	4.66	25
3-Nitrotoluene	3.43	L4	0.500	ug/L	5.00		68.5	70-130	8.94	25
2-Amino-4,6-dinitrotoluene	3.43	L4	0.500	ug/L	5.00		68.6	70-130	6.12	25
Surrogate: 1,2-Dinitrobenzene			*8.45*	*ug/L*	*10.0*		*84.5*	*70-130*		
LCS Dup (BBF0680-BSD2)					Prepared: 6/21/2021 Analyzed: 6/22/2021					
HMX	4.81		0.500	ug/L	5.00		96.2	70-130	9.01	25
RDX	4.51		0.500	ug/L	5.00		90.2	70-130	11.2	25
1,3,5-TNB	4.49		0.500	ug/L	5.00		89.8	70-130	12.2	25
1,3-Dinitrobenzene	4.47		0.500	ug/L	5.00		89.4	70-130	12.0	25
NB	4.47		0.500	ug/L	5.00		89.4	70-130	12.0	25
2,4,6-Trinitrotoluene	4.46		0.500	ug/L	5.00		89.3	70-130	12.4	25
Tetryl	3.99		0.500	ug/L	5.00		79.9	70-130	12.5	25
2,6-DNT	3.81		0.500	ug/L	5.00		76.2	70-130	10.6	25
2,4-Dinitrotoluene	4.41		0.500	ug/L	5.00		88.3	70-130	12.3	25
2-Nitrotoluene	3.92		0.500	ug/L	5.00		78.3	70-130	12.4	25
4-Nitrotoluene	3.80		0.500	ug/L	5.00		76.0	70-130	13.8	25
4-Amino-2,6-dinitrotoluene	2.86	L4	0.500	ug/L	5.00		57.3	70-130	15.4	25
3-Nitrotoluene	4.07		0.500	ug/L	5.00		81.4	70-130	13.5	25
2-Amino-4,6-dinitrotoluene	3.83		0.500	ug/L	5.00		76.5	70-130	5.31	25
Surrogate: 1,2-Dinitrobenzene			*8.86*	*ug/L*	*10.0*		*88.6*	*70-130*		

Quality Control Data
(Continued)

Volatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC										
Blank (BBF0706-BLK1)					Prepared & Analyzed: 6/21/2021					
Chloroethane	ND		0.500	ug/L						
Bromobenzene	ND		0.500	ug/L						
Chlorobenzene (Monochlorobenzene)	ND		0.500	ug/L						
Bromochloromethane	ND		0.500	ug/L						
Carbon Tetrachloride	ND		0.500	ug/L						
Carbon disulfide	ND		0.500	ug/L						
Bromomethane	ND		0.500	ug/L						
Bromodichloromethane	ND		0.500	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC (Continued)										
Blank (BBF0706-BLK1)					Prepared & Analyzed: 6/21/2021					
Chloroform	ND		0.500	ug/L						
Methyl ethyl ketone (MEK)	ND		2.50	ug/L						
Bromoform	ND		0.500	ug/L						
Chloromethane	ND		0.500	ug/L						
cis-1,2-Dichloroethylene	ND		0.500	ug/L						
cis-1,3-Dichloropropene	ND		0.500	ug/L						
Dibromochloromethane	ND		0.500	ug/L						
Dibromomethane	ND		0.500	ug/L						
Dichlorodifluoromethane	ND		0.500	ug/L						
Ethylbenzene	ND		0.500	ug/L						
Hexachlorobutadiene	ND		0.500	ug/L						
Benzene	ND		0.500	ug/L						
m/p Xylenes (MCL for total)	ND		0.500	ug/L						
Methyl isobutyl ketone (MIBK)	ND		2.50	ug/L						
Methylene Chloride (Dichloromethane)	ND		2.50	ug/L						
methyl-t-butyl ether (MTBE)	ND		0.500	ug/L						
Isopropylbenzene	ND		0.500	ug/L						
DBCP (screening)	ND		0.500	ug/L						
2-hexanone	ND		2.50	ug/L						
Naphthalene	ND		0.500	ug/L						
1,1,1,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,1-Trichloroethane	ND		0.500	ug/L						
1,1,2,2-Tetrachloroethane	ND		0.500	ug/L						
1,1,2-Trichlorethane	ND		0.500	ug/L						
1,1-Dichloroethane	ND		0.500	ug/L						
1,1-Dichloroethylene	ND		0.500	ug/L						
1,1-Dichloropropene	ND		0.500	ug/L						
1,2,3-Trichlorobenzene	ND		0.500	ug/L						
1,2,3-Trichloropropane	ND		0.500	ug/L						
1,2-Dichloropropane	ND		0.500	ug/L						
1,2,4-Trimethylbenzene	ND		0.500	ug/L						
Acrylonitrile	ND		0.500	ug/L						
EDB (screening)	ND		0.500	ug/L						
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	ND		0.500	ug/L						
1,2-Dichloroethane	ND		0.500	ug/L						
1,3,5-Trimethylbenzene	ND		0.500	ug/L						
m-Dichlorobenzene	ND		0.500	ug/L						
1,3-Dichloropropane	ND		0.500	ug/L						
1,4-Dichlorobenzene (para-Dichlorobenzene)	ND		0.500	ug/L						
o-Chlorotoluene	ND		0.500	ug/L						
p-Chlorotoluene	ND		0.500	ug/L						
Acetone	ND		2.50	ug/L						
1,2,4-Trichlorobenzene	ND		0.500	ug/L						
Vinyl Chloride	ND		0.500	ug/L						
2,2-Dichloropropane	ND		0.500	ug/L						
Trichloroflouromethane	ND		0.500	ug/L						
Trichloroethene	ND		0.500	ug/L						
trans-1,3-Dichloropropene	ND		0.500	ug/L						
trans-1,2 Dichloroethylene	ND		0.500	ug/L						
Toluene	ND		0.500	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC (Continued)										
Blank (BBF0706-BLK1)					Prepared & Analyzed: 6/21/2021					
tert-Butylbenzene	ND		0.500	ug/L						
Styrene	ND		0.500	ug/L						
sec-Butylbenzene	ND		0.500	ug/L						
p-isopropyltoluene	ND		0.500	ug/L						
o-Xylene (MCL for total)	ND		0.500	ug/L						
n-Propylbenzene	ND		0.500	ug/L						
Tetrachloroethylene	ND		0.500	ug/L						
n-Butylbenzene	ND		0.500	ug/L						
Surrogate: 4-Bromofluorobenzene			*25.5*	*ug/L*	*25.0*		*102*	*70-130*		
Surrogate: Toluene-d8			*25.5*	*ug/L*	*25.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.0*	*ug/L*	*19.0*		*99.9*	*70-130*		
LCS (BBF0706-BS1)					Prepared & Analyzed: 6/21/2021					
Chloroethane	9.79		0.500	ug/L	10.0		97.9	78-120		
Methyl ethyl ketone (MEK)	11.1		2.50	ug/L	10.0		111	55-154		
m/p Xylenes (MCL for total)	20.6		0.500	ug/L	20.0		103	80-120		
Isopropylbenzene	10.4		0.500	ug/L	10.0		104	80-120		
Hexachlorobutadiene	10.6		0.500	ug/L	10.0		106	80-120		
Ethylbenzene	10.2		0.500	ug/L	10.0		102	80-120		
Dichlorodifluoromethane	10.2		0.500	ug/L	10.0		102	57-130		
Dibromomethane	10.1		0.500	ug/L	10.0		101	80-120		
Dibromochloromethane	10.2		0.500	ug/L	10.0		102	80-121		
cis-1,3-Dichloropropene	10.3		0.500	ug/L	10.0		103	79-123		
Chloroform	10.1		0.500	ug/L	10.0		101	80-120		
Chlorobenzene (Monochlorobenzene)	10.2		0.500	ug/L	10.0		102	80-120		
Methyl isobutyl ketone (MIBK)	11.2		2.50	ug/L	10.0		112	70-136		
Toluene	10.3		0.500	ug/L	10.0		103	80-120		
cis-1,2-Dichloroethylene	10.2		0.500	ug/L	10.0		102	80-120		
Carbon Tetrachloride	10.5		0.500	ug/L	10.0		105	80-120		
Vinyl Chloride	9.62		0.500	ug/L	10.0		96.2	75-120		
Trichloroflouromethane	11.1		0.500	ug/L	10.0		111	61-140		
Trichloroethene	9.87		0.500	ug/L	10.0		98.7	80-120		
trans-1,3-Dichloropropene	11.0		0.500	ug/L	10.0		110	69-130		
trans-1,2 Dichloroethylene	9.97		0.500	ug/L	10.0		99.7	80-120		
Styrene	10.3		0.500	ug/L	10.0		103	80-120		
tert-Butylbenzene	10.6		0.500	ug/L	10.0		106	80-120		
methyl-t-butyl ether (MTBE)	10.0		0.500	ug/L	10.0		100	71-130		
sec-Butylbenzene	10.7		0.500	ug/L	10.0		107	80-120		
p-isopropyltoluene	10.6		0.500	ug/L	10.0		106	80-120		
o-Xylene (MCL for total)	10.3		0.500	ug/L	10.0		103	80-120		
n-Propylbenzene	10.5		0.500	ug/L	10.0		105	80-120		
n-Butylbenzene	10.4		0.500	ug/L	10.0		104	74-122		
Naphthalene	11.8		0.500	ug/L	10.0		118	66-133		
Tetrachloroethylene	10.2		0.500	ug/L	10.0		102	80-120		
1,1-Dichloroethylene	10.5		0.500	ug/L	10.0		105	70-129		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.4		0.500	ug/L	10.0		104	80-120		
EDB (screening)	10.6		0.500	ug/L	10.0		106	70-130		
DBCP (screening)	11.9		0.500	ug/L	10.0		119	71-128		
1,2,4-Trimethylbenzene	10.4		0.500	ug/L	10.0		104	80-120		
1,1,2,2-Tetrachloroethane	11.3		0.500	ug/L	10.0		113	77-123		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC (Continued)										
LCS (BBF0706-BS1)					Prepared & Analyzed: 6/21/2021					
1,2,3-Trichloropropane	11.1		0.500	ug/L	10.0		111	80-120		
1,1-Dichloropropene	10.5		0.500	ug/L	10.0		105	80-120		
1,2,4-Trichlorobenzene	10.8		0.500	ug/L	10.0		108	80-120		
1,1-Dichloroethane	10.1		0.500	ug/L	10.0		101	80-120		
1,1,2-Trichlorethane	10.2		0.500	ug/L	10.0		102	80-120		
1,1,1,2-Tetrachloroethane	10.5		0.500	ug/L	10.0		105	80-120		
1,1,1-Trichloroethane	10.5		0.500	ug/L	10.0		105	80-120		
Carbon disulfide	8.83		0.500	ug/L	10.0		88.3	80-120		
1,2,3-Trichlorobenzene	11.2		0.500	ug/L	10.0		112	78-120		
Bromobenzene	10.7		0.500	ug/L	10.0		107	80-120		
Bromodichloromethane	10.1		0.500	ug/L	10.0		101	80-120		
1,2-Dichloroethane	10.3		0.500	ug/L	10.0		103	80-120		
Acrylonitrile	10.4		0.500	ug/L	10.0		104	73-131		
Bromochloromethane	10.2		0.500	ug/L	10.0		102	80-120		
p-Chlorotoluene	10.5		0.500	ug/L	10.0		105	80-124		
Benzene	10.0		0.500	ug/L	10.0		100	80-120		
2-hexanone	11.8		2.50	ug/L	10.0		118	65-140		
Bromoform	10.6		0.500	ug/L	10.0		106	68-133		
o-Chlorotoluene	10.2		0.500	ug/L	10.0		102	80-120		
2,2-Dichloropropane	10.8		0.500	ug/L	10.0		108	80-120		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.2		0.500	ug/L	10.0		102	80-120		
1,3-Dichloropropane	10.4		0.500	ug/L	10.0		104	80-120		
m-Dichlorobenzene	10.2		0.500	ug/L	10.0		102	80-120		
1,3,5-Trimethylbenzene	10.6		0.500	ug/L	10.0		106	80-121		
1,2-Dichloropropane	9.90		0.500	ug/L	10.0		99.0	80-120		
Surrogate: Toluene-d8			*25.3*	*ug/L*	*25.0*		*101*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*25.5*	*ug/L*	*25.0*		*102*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*18.7*	*ug/L*	*19.0*		*98.5*	*70-130*		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC (Continued)										
Matrix Spike (BBF0706-MS1)	**Source: MBF0547-10**				Prepared & Analyzed: 6/22/2021					
Isopropylbenzene	9.71		0.500	ug/L	10.0	ND	97.1	70-130		
Hexachlorobutadiene	11.3		0.500	ug/L	10.0	ND	113	70-130		
Ethylbenzene	9.33		0.500	ug/L	10.0	ND	93.3	70-130		
Dichlorodifluoromethane	10.9		0.500	ug/L	10.0	ND	109	57-136		
m/p Xylenes (MCL for total)	14.9		0.500	ug/L	20.0	ND	74.4	57-130		
Dibromomethane	9.81		0.500	ug/L	10.0	ND	98.1	70-130		
Dibromochloromethane	9.63		0.500	ug/L	10.0	ND	96.3	70-130		
cis-1,3-Dichloropropene	9.83		0.500	ug/L	10.0	ND	98.3	74-124		
cis-1,2-Dichloroethylene	10.2		0.500	ug/L	10.0	ND	102	70-130		
Carbon Tetrachloride	11.2		0.500	ug/L	10.0	ND	112	70-130		
Chloroethane	10.3		0.500	ug/L	10.0	ND	103	68-138		
Chlorobenzene (Monochlorobenzene)	9.95		0.500	ug/L	10.0	ND	99.5	70-130		
Methyl ethyl ketone (MEK)	9.48		2.50	ug/L	10.0	ND	94.8	47-165		
Chloroform	10.5		0.500	ug/L	10.0	ND	105	70-130		
Styrene	2.78		0.500	ug/L	10.0	ND	27.8	30-130		
Vinyl Chloride	9.91		0.500	ug/L	10.0	ND	99.1	70-130		
Trichloroethene	10.2		0.500	ug/L	10.0	ND	102	70-130		
1,2-Dichloropropane	10.4		0.500	ug/L	10.0	ND	104	70-130		
trans-1,3-Dichloropropene	8.84		0.500	ug/L	10.0	ND	88.4	61-131		
Carbon disulfide	10.5		0.500	ug/L	10.0	ND	105	70-130		
Toluene	9.13		0.500	ug/L	10.0	ND	91.3	70-130		
trans-1,2 Dichloroethylene	10.2		0.500	ug/L	10.0	ND	102	70-130		
tert-Butylbenzene	10.6		0.500	ug/L	10.0	ND	106	70-130		
Methyl isobutyl ketone (MIBK)	10.3		2.50	ug/L	10.0	ND	103	53-167		
sec-Butylbenzene	9.86		0.500	ug/L	10.0	ND	98.6	70-130		
p-isopropyltoluene	10.2		0.500	ug/L	10.0	ND	102	70-130		
o-Xylene (MCL for total)	7.98		0.500	ug/L	10.0	ND	79.8	62-127		
n-Propylbenzene	9.53		0.500	ug/L	10.0	ND	95.3	70-130		
n-Butylbenzene	10.0		0.500	ug/L	10.0	ND	100	67-130		
Naphthalene	9.32		0.500	ug/L	10.0	ND	93.2	56-147		
methyl-t-butyl ether (MTBE)	10.3		0.500	ug/L	10.0	ND	103	57-138		
Tetrachloroethylene	10.3		0.500	ug/L	10.0	ND	103	70-130		
1,1-Dichloroethylene	10.7		0.500	ug/L	10.0	ND	107	70-130		
m-Dichlorobenzene	10.0		0.500	ug/L	10.0	ND	100	70-130		
DBCP (screening)	10.8		0.500	ug/L	10.0	ND	108	55-146		
1,2,4-Trimethylbenzene	4.37		0.500	ug/L	10.0	ND	43.7	40-140		
1,2,4-Trichlorobenzene	10.4		0.500	ug/L	10.0	ND	104	70-130		
1,2,3-Trichloropropane	10.4		0.500	ug/L	10.0	ND	104	69-137		
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.5		0.500	ug/L	10.0	ND	105	70-130		
1,1-Dichloropropene	10.6		0.500	ug/L	10.0	ND	106	70-130		
1,1-Dichloroethane	10.3		0.500	ug/L	10.0	ND	103	70-130		
1,1,2-Trichlorethane	9.87		0.500	ug/L	10.0	ND	98.7	70-130		
1,1,2,2-Tetrachloroethane	10.9		0.500	ug/L	10.0	ND	109	67-136		
1,1,1-Trichloroethane	11.2		0.500	ug/L	10.0	ND	112	70-130		
1,1,1,2-Tetrachloroethane	10.0		0.500	ug/L	10.0	ND	100	70-130		
Trichloroflouromethane	11.8		0.500	ug/L	10.0	ND	118	50-154		
1,2,3-Trichlorobenzene	10.7		0.500	ug/L	10.0	ND	107	67-134		
2-hexanone	11.3		2.50	ug/L	10.0	ND	113	43-175		
Bromodichloromethane	10.6		0.500	ug/L	10.0	ND	106	70-130		
Bromochloromethane	9.99		0.500	ug/L	10.0	ND	99.9	70-130		

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC (Continued)										
Matrix Spike (BBF0706-MS1)	**Source: MBF0547-10**				Prepared & Analyzed: 6/22/2021					
Bromobenzene	10.1		0.500	ug/L	10.0	ND	101	70-130		
Benzene	10.1		0.500	ug/L	10.0	ND	101	70-130		
Acrylonitrile	9.16		0.500	ug/L	10.0	ND	91.6	65-137		
EDB (screening)	9.86		0.500	ug/L	10.0	ND	98.6	70-130		
Bromoform	9.19		0.500	ug/L	10.0	ND	91.9	59-140		
o-Chlorotoluene	10.0		0.500	ug/L	10.0	ND	100	70-130		
2,2-Dichloropropane	10.6		0.500	ug/L	10.0	ND	106	70-130		
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.4		0.500	ug/L	10.0	ND	104	70-130		
1,3-Dichloropropane	10.1		0.500	ug/L	10.0	ND	101	70-130		
1,3,5-Trimethylbenzene	4.08		0.500	ug/L	10.0	ND	40.8	40-140		
1,2-Dichloroethane	11.2		0.500	ug/L	10.0	ND	112	70-130		
p-Chlorotoluene	9.35		0.500	ug/L	10.0	ND	93.5	70-130		
Surrogate: Toluene-d8			*23.5*	*ug/L*	*25.0*		*93.8*	*70-130*		
Surrogate: 4-Bromofluorobenzene			*25.7*	*ug/L*	*25.0*		*103*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.0*	*ug/L*	*19.0*		*100*	*70-130*		
Matrix Spike Dup (BBF0706-MSD1)	**Source: MBF0547-10**				Prepared & Analyzed: 6/22/2021					
2-hexanone	10.3		2.50	ug/L	10.0	ND	103	43-175	8.52	25
Carbon disulfide	10.4		0.500	ug/L	10.0	ND	104	70-130	1.34	25
1,3,5-Trimethylbenzene	4.76		0.500	ug/L	10.0	ND	47.6	40-140	15.4	25
m-Dichlorobenzene	10.3		0.500	ug/L	10.0	ND	103	70-130	3.15	25
1,3-Dichloropropane	10.2		0.500	ug/L	10.0	ND	102	70-130	0.984	25
1,4-Dichlorobenzene (para-Dichlorobenzene)	10.3		0.500	ug/L	10.0	ND	103	70-130	0.581	25
1,2-Dichloroethane	11.3		0.500	ug/L	10.0	ND	113	70-130	1.34	25
o-Chlorotoluene	10.2		0.500	ug/L	10.0	ND	102	70-130	2.27	25
p-Chlorotoluene	9.51		0.500	ug/L	10.0	ND	95.1	70-130	1.70	25
Benzene	10.2		0.500	ug/L	10.0	ND	102	70-130	0.592	25
Bromobenzene	10.2		0.500	ug/L	10.0	ND	102	70-130	1.38	25
Bromochloromethane	10.2		0.500	ug/L	10.0	ND	102	70-130	2.18	25
Bromodichloromethane	10.8		0.500	ug/L	10.0	ND	108	70-130	2.15	25
Acrylonitrile	9.67		0.500	ug/L	10.0	ND	96.7	65-137	5.42	25
2,2-Dichloropropane	10.8		0.500	ug/L	10.0	ND	108	70-130	1.69	25
1,2,3-Trichlorobenzene	10.0		0.500	ug/L	10.0	ND	100	67-134	6.09	25
1,1,1,2-Tetrachloroethane	10.1		0.500	ug/L	10.0	ND	101	70-130	1.29	25
1,1,1-Trichloroethane	11.4		0.500	ug/L	10.0	ND	114	70-130	1.95	25
1,1,2,2-Tetrachloroethane	9.99		0.500	ug/L	10.0	ND	99.9	67-136	8.80	25
1,1,2-Trichlorethane	10.1		0.500	ug/L	10.0	ND	101	70-130	2.20	25
1,1-Dichloroethane	10.6		0.500	ug/L	10.0	ND	106	70-130	2.88	25
1,2-Dichloropropane	10.5		0.500	ug/L	10.0	ND	105	70-130	1.34	25
1,1-Dichloropropene	10.9		0.500	ug/L	10.0	ND	109	70-130	2.89	25
Carbon Tetrachloride	11.4		0.500	ug/L	10.0	ND	114	70-130	2.13	25
1,2,3-Trichloropropane	10.1		0.500	ug/L	10.0	ND	101	69-137	3.13	25
1,2,4-Trichlorobenzene	10.2		0.500	ug/L	10.0	ND	102	70-130	2.14	25
1,2,4-Trimethylbenzene	5.12		0.500	ug/L	10.0	ND	51.2	40-140	15.8	25
DBCP (screening)	9.56		0.500	ug/L	10.0	ND	95.6	55-146	12.5	25
EDB (screening)	10.0		0.500	ug/L	10.0	ND	100	70-130	1.81	25
1,2-Dichlorobenzene (ortho-Dichlorobenzene)	10.3		0.500	ug/L	10.0	ND	103	70-130	1.34	25
1,1-Dichloroethylene	11.1		0.500	ug/L	10.0	ND	111	70-130	3.86	25
Tetrachloroethylene	10.3		0.500	ug/L	10.0	ND	103	70-130	0.00	25
Bromoform	9.26		0.500	ug/L	10.0	ND	92.6	59-140	0.759	25

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Volatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBF0706 - VOC (Continued)										
Matrix Spike Dup (BBF0706-MSD1)	**Source: MBF0547-10**				Prepared & Analyzed: 6/22/2021					
n-Propylbenzene	9.82		0.500	ug/L	10.0	ND	98.2	70-130	3.00	25
o-Xylene (MCL for total)	8.35		0.500	ug/L	10.0	ND	83.5	62-127	4.53	25
p-isopropyltoluene	10.4		0.500	ug/L	10.0	ND	104	70-130	1.46	25
sec-Butylbenzene	10.0		0.500	ug/L	10.0	ND	100	70-130	1.91	25
Naphthalene	8.70		0.500	ug/L	10.0	ND	87.0	56-147	6.88	25
tert-Butylbenzene	10.9		0.500	ug/L	10.0	ND	109	70-130	2.97	25
methyl-t-butyl ether (MTBE)	10.5		0.500	ug/L	10.0	ND	105	57-138	1.54	25
Toluene	9.36		0.500	ug/L	10.0	ND	93.6	70-130	2.49	25
trans-1,2 Dichloroethylene	10.5		0.500	ug/L	10.0	ND	105	70-130	3.48	25
trans-1,3-Dichloropropene	9.67		0.500	ug/L	10.0	ND	96.7	61-131	8.97	25
Trichloroethene	10.1		0.500	ug/L	10.0	ND	101	70-130	0.691	25
Trichloroflouromethane	11.8		0.500	ug/L	10.0	ND	118	50-154	0.508	25
Styrene	3.62		0.500	ug/L	10.0	ND	36.2	30-130	26.2	25
Dichlorodifluoromethane	11.1		0.500	ug/L	10.0	ND	111	57-136	2.18	25
Chlorobenzene (Monochlorobenzene)	10.1		0.500	ug/L	10.0	ND	101	70-130	1.60	25
Chloroethane	10.7		0.500	ug/L	10.0	ND	107	68-138	3.61	25
Chloroform	10.7		0.500	ug/L	10.0	ND	107	70-130	1.98	25
cis-1,2-Dichloroethylene	10.3		0.500	ug/L	10.0	ND	103	70-130	1.47	25
cis-1,3-Dichloropropene	10.2		0.500	ug/L	10.0	ND	102	74-124	3.99	25
n-Butylbenzene	10.3		0.500	ug/L	10.0	ND	103	67-130	2.65	25
Dibromomethane	9.82		0.500	ug/L	10.0	ND	98.2	70-130	0.102	25
Vinyl Chloride	10.3		0.500	ug/L	10.0	ND	103	70-130	3.86	25
Ethylbenzene	9.53		0.500	ug/L	10.0	ND	95.3	70-130	2.12	25
Hexachlorobutadiene	11.2		0.500	ug/L	10.0	ND	112	70-130	0.622	25
Isopropylbenzene	9.93		0.500	ug/L	10.0	ND	99.3	70-130	2.24	25
m/p Xylenes (MCL for total)	15.8		0.500	ug/L	20.0	ND	79.2	57-130	6.18	25
Methyl ethyl ketone (MEK)	9.71		2.50	ug/L	10.0	ND	97.1	47-165	2.40	25
Methyl isobutyl ketone (MIBK)	10.1		2.50	ug/L	10.0	ND	101	53-167	1.76	25
Dibromochloromethane	9.77		0.500	ug/L	10.0	ND	97.7	70-130	1.44	25
Surrogate: 4-Bromofluorobenzene			*25.4*	*ug/L*	*25.0*		*101*	*70-130*		
Surrogate: Toluene-d8			*23.8*	*ug/L*	*25.0*		*95.1*	*70-130*		
Surrogate: 1,2-Dichlorobenzene-d4			*19.1*	*ug/L*	*19.0*		*100*	*70-130*		

ANATEK LABS

Chain of Custody Record

A
1282 Alturas Dri
504 E Sprague Ste

MBF0547

Due: 07/01/21

www.anateklabs.com/pricing-lists

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.009
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S. Eckes + N. Thorton
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com, nick.thorton@pbsusa.com	

✓ Normal __Phone
__Next Day* __Email
__2nd Day* *All rush order requests must have prior approval
__Other*_____

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
				Preservative:				
02Q21LCMW09DW		6/14/21 1330	H2O	6		x	x	x
	02Q21LCMW09SW	1413						
	02Q21LCMW01DW	1510						
	02Q21LCMW15W	1545						
	02Q21LCMW02DW	1640						
	02Q21LCMW02SW	6/15/21 820						
	02Q21LCMW04DW	1111						
	02Q21LCMW45W	1200						
	02Q21LCMW78W	1315						

Note Special Instructions/Comments

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by		SamEckes	PBS	6/15/21	1845
Received by	Chris Sudan		Anatek	06/17/21	1053
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

ANATEK LABS

Chain of Custody Record

A
1282 Alturas Dri
504 E Sprague Ste

MBF0547

Due: 07/01/21

Company Name: PBS Engineering and Environmental	Project Manager: Scott Braunsten
Address: 4412 S Corbett Ave	Project Name & #: Camp Bonneville, 76151.009
City: Portland State: OR Zip: 97239	Purchase Order #:
Phone: 503-248-1939	Sampler Name & Phone: S. Eckes + N. Thorton
Email Address(es): scott.braunsten@pbsusa.com, samantha.eckes@pbsusa.com, nick.thorton@pbsusa.com	

www.anateklabs.com/pricing-lists

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

__Phone
__Email

*All rush order requests must have prior approval

List Analyses Requested

Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	VOCs by 8260B	Explosives by 8330	Perchlorate by 6850
	02Q21LCMW03SW	6/15/21 900	H_2O		14		x	x	x
	02Q21LCMW03DW	1030			6				
	02Q21LCMW14OW	1500			6				
	061521TB	1800			1				

Note Special Instructions/Comments

Data Package III

Inspection Checklist

Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
No VOC Head Space?	Y	N
Cooler?	Y	N
Ice/Ice Packs Present?	Y	N

Temperature (°C):_____
Number of Containers:_____
Shipped Via:_____
Preservative:_____
Date & Time:_____
Inspected By:_____

	Printed Name	Signature	Company	Date	Time
Relinquished by	Sam Eckes		PBS	6/15/21	1845
Received by	Chas Sanders		Anatek	06/16/21	1053
Relinquished by					
Received by					
Relinquished by					
Received by					

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservatic

MBF0547

Due: 07/01/21

Client Name: PBS Engineering Project:

TAT: (Normal) RUSH: ______ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: ____________

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: 5 Type of Ice: (Ice/Ice Packs) Blue Ice Dry Ice None

Packing Material: (Bubble Wrap) (Bags) Foam/Peanuts None Other: ____________

Cooler Temp As Read (°C): 3.3 Cooler Temp Corrected (°C): - Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Samples Properly Preserved?	(Yes)	No	N/A	
VOC Vials Free of Headspace (<6mm)?	(Yes)	No	N/A	
VOC Trip Blanks Present?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Total Number of Sample Bottles Received:	~~82~~ 82 CY 06/17/2021			

Chain of Custody Fully Completed?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	(No)	Unknown	

Record preservatives (and lot numbers, if known) for containers below:

VOC 8260 → 544ml HCl → x 40 + 2 TB

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Explosives → 9(L x 28

Perchlorate → p125ml x12

Received/Inspected By: CY Date/Time: 06/17/2021 1053

Form F19.00 - Eff 8 Feb 2019

==== EPA 8330 ====

<EXPLOSIVES EPA 8330>

File Name : T:\Data6\HPLC2\2021Q2\JUN\062121EXP\1000 ICAL_6.lcd

Vial #	Sample Name	Sample ID	Sample Type	Method File	Data File	Level #	Report File
1	1000 ICAL		1:Standard:(I)	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	1000 ICAL_6.lcd	1	T:\Data6\HPLC2\OldMethods\2010Me
2	800 ICAL		1:Standard:(R)	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	800 ICAL_7.lcd	2	T:\Data6\HPLC2\OldMethods\2010Me
3	600 ICAL		1:Standard:(R)	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	600 ICAL_8.lcd	3	T:\Data6\HPLC2\OldMethods\2010Me
4	400 ICAL		1:Standard:(R)	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	400 ICAL_9.lcd	4	T:\Data6\HPLC2\OldMethods\2010Me
5	100 ICAL		1:Standard:(R)	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	100 ICAL_10.lcd	5	T:\Data6\HPLC2\OldMethods\2010Me
6	50 ICAL		1:Standard:(R)	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	50 ICAL_11.lcd	6	T:\Data6\HPLC2\OldMethods\2010Me
7	RB		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	RB_12.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
8	400 ICV		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	400 ICV_13.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
9	BBF0680-BLK1		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	BBF0680-BLK1_14.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
10	BBF0680-BS1		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	BBF0680-BS1_15.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
11	BBF0680-BSD1		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	BBF0680-BSD1_16.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
12	MBF0547-01		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-01_17.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
13	MBF0547-02		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-02_18.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
14	MBF0547-03		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-03_19.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
15	MBF0547-04		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-04_20.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
16	MBF0547-05		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-05_21.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
17	MBF0547-06		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-06_22.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
18	MBF0547-07		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-07_23.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
19	MBF0547-08		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-08_24.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
20	MBF0547-09		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-09_25.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
21	MBF0547-10		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-10_26.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
4	CCV 400		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	CCV 400_27.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
9	BBF0680-BLK2		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	BBF0680-BLK2_28.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
22	BBF0680-BS2		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	BBF0680-BS2_29.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
23	BBF0680-BSD2		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	BBF0680-BSD2_30.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
24	MBF0547-11		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-11_31.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
25	MBF0547-12		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0547-12_32.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
26	MBF0598-01		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0598-01_33.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
27	MBF0598-02		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0598-02_34.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
28	MBF0598-03		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0598-03_35.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
29	MBF0598-04		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0598-04_36.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
30	MBF0598-05		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0598-05_37.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
31	MBF0598-07		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	MBF0598-07_38.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
7	RB		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	RB_39.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me
4	CCV 400		0:Unknown	T:\Data6\HPLC2\2021METHOD\8330_E2_250n	CCV 400_40.lcd	0	T:\Data6\HPLC2\OldMethods\2010Me

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form

Method: EPA 8330

Standard	Number	Expiration	Concentration (ppm)
1,2-Dinitrobenzene	2100839	11/2022	1000

Initial Calibration Standard Mix 100 ppm

Standard	Source Std Number	Expiration	Concentration (ppm)
EPA 8330 Mix 1	2101608	5/2022	100
EPA 8330 Mix 2	2101612	5/2022	100
EPA 8330 ICV Mix 1	2100837	4/2023	100
EPA 8330 ICV Mix 2	2100838	4/2022	100

Dilution Template Calibration

Desired Concentration (ppb)	Stock Concentration (ppm)	uL Standard Added	uL Surrogate Standard Added	Final Volume *(mL)
1000	100	20	2	2.00
800	100	16	2	2.00
600	100	12	2	2.00
400	100	8	2	2.00
100	100	2	2	2.00
50	100	1	2	2.00
RB	0	0	2	2.00
400 ICV	100	8	2	2.00

*Add 1 mL ACN to autosampler vial, then add surrogate standard, cal standard, and dilute to final volume of 2 mL with DI

✓ ICAL Standards
✓ ICV
✓ CCV

Analyst Initials: MAR Date of Preparation: 6/21/2021

NON DW SV EXTRACTION LOG DATE 6/21/2021 ANALYST MER

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2100839	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2101608	100
EPA 8330 Mix #2	2101612	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BBF0680-BLK1	1000	W	10			10
BBF0680-BS1	1000	W	10	50	50	10
BBF0680-BSD1	1000	W	10	50	50	10
MBF0547-01	1000	W	10	~~50~~	~~50~~	10
MBF0547-02	1000	W	10			10
MBF0547-03	1000	W	10			10
MBF0547-04	1000	W	10			10
MBF0547-05	1000	W	10			10
MBF0547-06	1000	W	10			10
MBF0547-07	1000	W	10			10
MBF0547-08	1000	W	10			10
MBF0547-09	1000	W	10			10
MBF0547-10	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #								

Comments: _____

NON DW SV EXTRACTION LOG DATE 6/21/21 ANALYST MEK

Method: 8330B
Solvent: Acetonitrile
Instrument: HPLC
Ext. Method: RDX SPE

Surrogate(s)	Solution #	Concentration (ppm)
1,2-Dinitrobenzene	2100839	1000
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppm)**
EPA 8330 Mix #1	2101608	100
EPA 8330 Mix #2	2101612	100

Sample #	Amount Ext. (g/mL)	Matrix	S (µl)	MS1 (µl)	MS2 (µl)	FV (ml)
BBF0680-BLK2	1000	W	10			10
BBF0680-BS2	1000	W	10	50	50	10
BBF0680-BSD2	1000	W	10	50	50	10
MBF0547-11	1000	W	10	~~50~~	~~50~~	10
MBF0547-12	1000	W	10			10
MBF0598-01	1000	W	10			10
MBF0598-02	1000	W	10			10
MBF0598-03	1000	W	10			10
MBF0598-04	1000	W	10			10
MBF0598-05	1000	W	10			10
MBF0598-07	1000	W	10			10

Reagent/Solution Desc.	Acetonitrile	RDX SPE	MeOH					
Reagent/Solution #								

Comments: _____

R_T Table

	HMX	RDX	135TNB	12DNB	13DNB	NB	246TNT	TET	26DNT	24DNT	2NT	4NT	3NT	4A26DNT	2A46DNT
1000	7.763	11.085	11.506	13.465	14.105	15.117	18.711	19.64	21.445	22.633	24.372	26.556	28.522	29.024	31.426
800	7.769	11.095	11.515	13.48	14.124	15.143	18.742	19.681	21.469	22.634	24.374	26.512	28.417	28.912	31.261
600	7.652	10.871	11.299	13.159	13.829	14.804	18.292	19.151	20.93	22.112	23.778	25.867	27.783	28.25	30.633
400	7.654	10.927	11.338	13.209	13.815	14.77	18.251	19.11	21.029	22.234	23.738	25.331	27.209	27.597	30.044
100	7.679	10.91	11.324	13.198	13.863	14.841	18.333	19.232	20.979	22.158	23.844	25.948	27.934	28.431	30.8
50	7.659	10.913	11.301	13.181	13.846		18.316	19.282	20.978	22.161	23.743	25.895	28.12	28.28	30.712
RB				13.194											
400 ICV	7.656	10.916	11.313	13.196	13.859	14.832	18.319	19.209	20.986	22.166	23.829	25.966	27.89	28.473	30.815
680-BLK1				13.244											
680-BS1	7.686	10.952	11.339	13.238	13.898	14.871	18.356	19.246	21.036	22.214	23.877	26.007	27.9	28.562	30.903
680-BSD1	7.694	10.962	11.347	13.247	13.904	114.88	18.359	19.249	21.04	22.22	23.867	26.012	27.907	28.582	30.896
547-1	8.007			13.253											29.686
547-2	8.005			13.252											
547-3	7.989			13.245											
547-4	7.967			13.246											
547-5	7.989			13.261											
547-6	8.011			13.29											
547-7	7.969			13.294											
547-8	7.982			13.253											
547-9	7.97			13.239											
547-10				13.223											
CCV 400	7.632	10.891	11.307	13.179	13.852	14.828	18.307	19.165	20.976	22.144	23.815	25.949	27.88	28.384	30.762
680-BLK2	7.996			13.231							23.673				29.712
680-BS2	7.654	10.919	11.329	13.21	13.88	14.856	18.32	19.169	20.996	22.165	23.838	25.96	27.903	28.411	30.748
680-BSD2	7.664	10.939	11.341	13.225	13.893	14.872	18.338	19.191	21.018	22.189	23.856	25.988	27.913	28.466	30.802
547-11	7.992			13.224											
547-12	7.955			13.216											29.736
598-1	7.988	10.923		13.212											29.694
598-2	7.99	10.928		13.222											29.727
598-3	7.658	10.917		13.213						* 22.326				* 28.338	
598-4	7.975	10.9		13.199											
598-5	7.653	10.892		13.195											
598-7	7.99	10.899		13.206											29.723
RB				13.141											
CCV 400	7.574	10.832	11.288	13.135	13.817	14.801	18.264	19.07	20.918	22.082	23.774	25.884	27.838	28.109	30.495

* misidentified peaks, see chromatogram. MGK 7/23/21

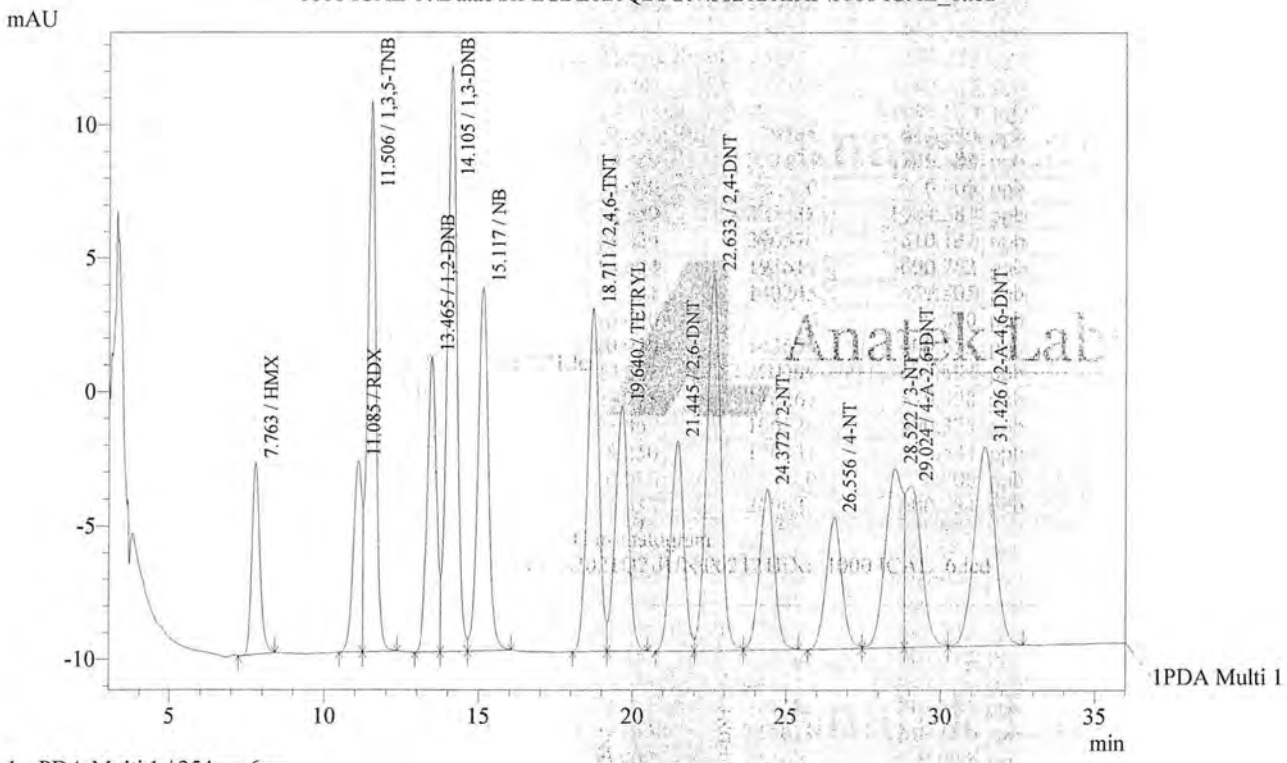
Sample Information

Acquired by	: Admin
Sample Name	: 1000 ICAL
Sample ID	:
Vail#	: 1
Injection Volume	: 100 uL
Data Filename	: 1000 ICAL_6.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 6:35:25 PM
Data Processed	: 7/23/2021 9:12:37 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

1000 ICAL T:\Data6\HPLC2\2021Q2\JUN\062121EXP\1000 ICAL_6.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.763	128220	1000.000	ppb	V
RDX	11.085	138097	1000.000	ppb	
1,3,5-TNB	11.506	386628	1000.000	ppb	V
1,2-DNB	13.465	233588	1000.000	ppb	
1,3-DNB	14.105	483429	1000.000	ppb	V
NB	15.117	320716	1000.000	ppb	V
2,4,6-TNT	18.711	335884	1000.000	ppb	
TETRYL	19.640	269560	1000.000	ppb	V
2,6-DNT	21.445	234697	1000.000	ppb	
2,4-DNT	22.633	446236	1000.000	ppb	V
2-NT	24.372	202341	1000.000	ppb	V
4-NT	26.556	180968	1000.000	ppb	
3-NT	28.522	262470	1000.000	ppb	V
4-A-2,6-DNT	29.024	217897	1000.000	ppb	V
2-A-4,6-DNT	31.426	352004	1000.000	ppb	V

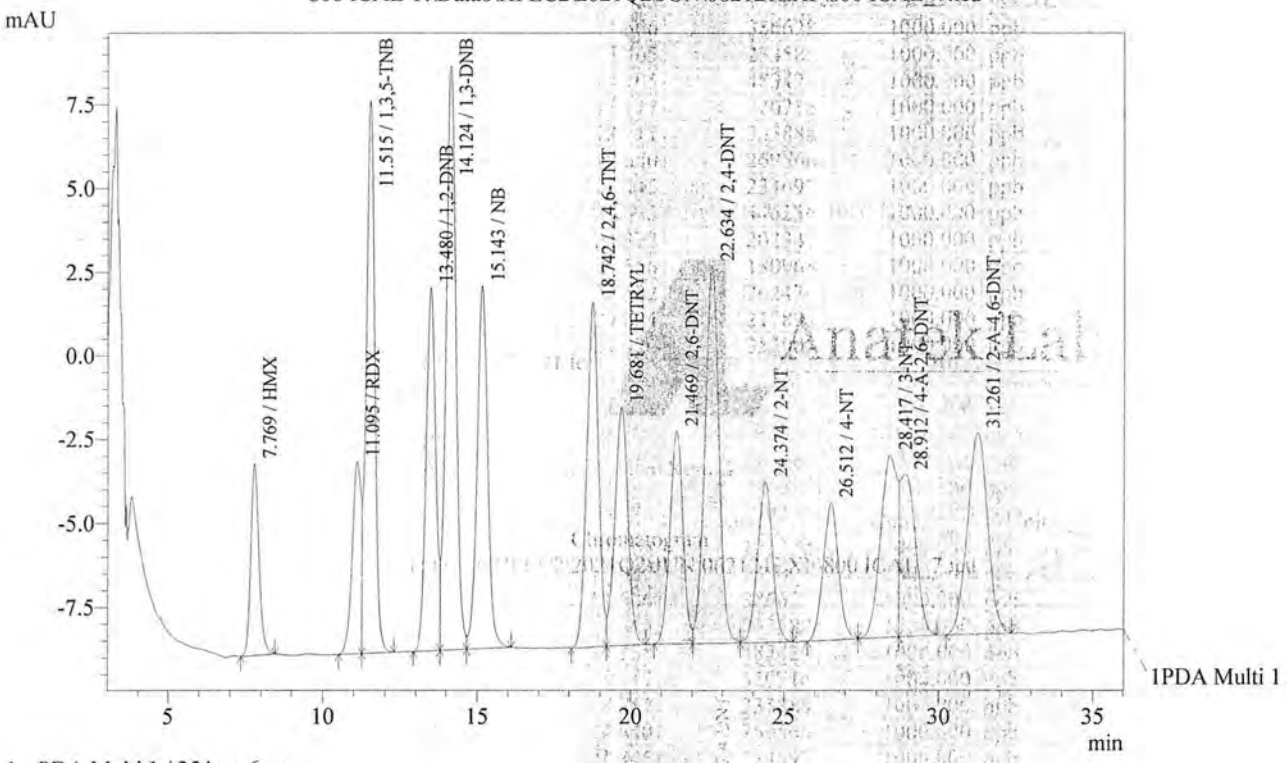
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: 800 ICAL
Sample ID	:
Vail#	: 2
Injection Volume	: 100 uL
Data Filename	: 800 ICAL_7.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 7:12:23 PM
Data Processed	: 7/23/2021 9:13:17 AM
Dilution Factor	:1

Chromatogram

800 ICAL T:\Data6\HPLC2\2021Q2\JUN\062121EXP\800 ICAL_7.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.769	105039	811.605	ppb	
RDX	11.095	112576	809.196	ppb	
1,3,5-TNB	11.515	312365	804.812	ppb	V
1,2-DNB	13.480	234067	1001.026	ppb	
1,3-DNB	14.124	388474	802.179	ppb	V
NB	15.143	259613	805.753	ppb	V
2,4,6-TNT	18.742	272706	807.218	ppb	
TETRYL	19.681	211253	789.978	ppb	V
2,6-DNT	21.469	187986	800.593	ppb	
2,4-DNT	22.634	359057	802.820	ppb	V
2-NT	24.374	161027	797.446	ppb	V
4-NT	26.512	144990	800.723	ppb	
3-NT	28.417	204367	786.831	ppb	V
4-A-2,6-DNT	28.912	169846	787.361	ppb	V
2-A-4,6-DNT	31.261	275910	790.059	ppb	

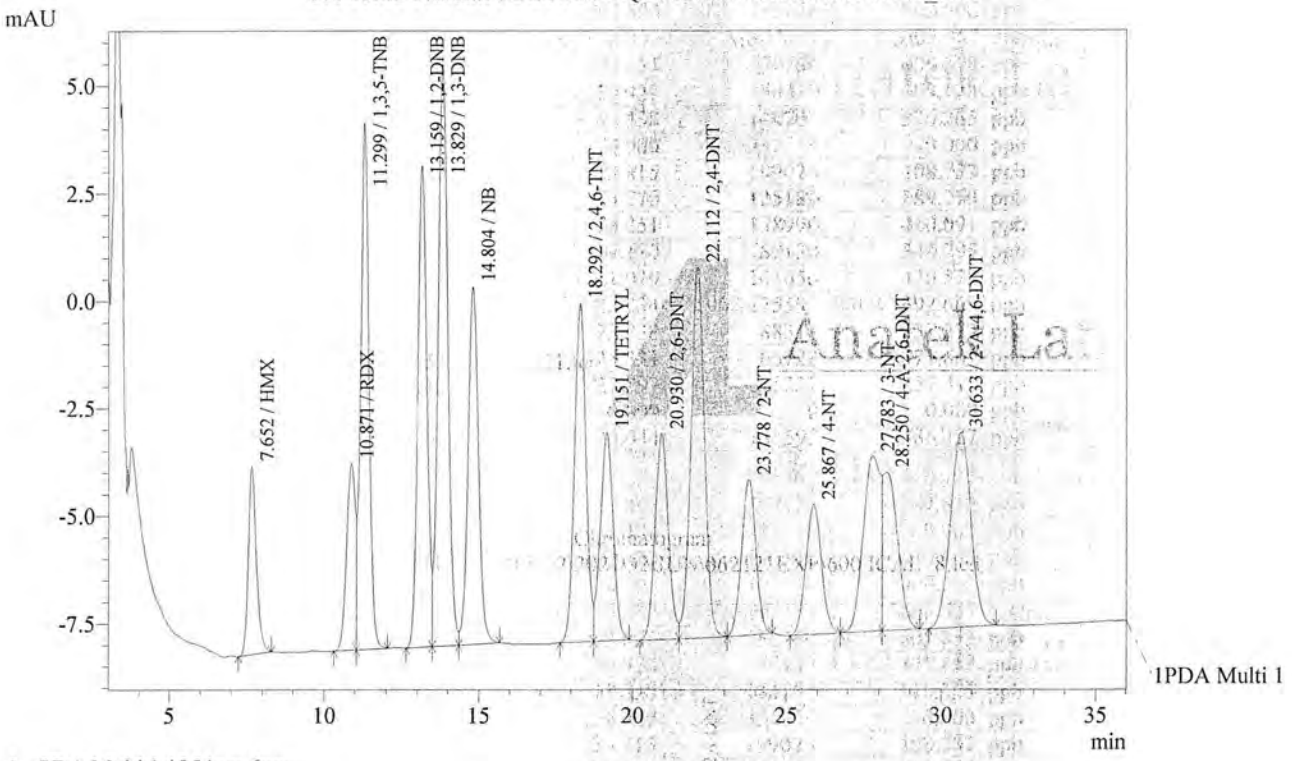
Sample Information

Acquired by	: Admin
Sample Name	: 600 ICAL
Sample ID	:
Vail#	: 3
Injection Volume	: 100 uL
Data Filename	: 600 ICAL_8.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR2.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 7:49:19 PM
Data Processed	: 7/23/2021 9:20:33 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

600 ICAL T:\Data6\HPLC2\2021Q2\JUN\062121EXP\600 ICAL_8.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.652	79761	613.290	ppb	
RDX	10.871	85205	610.175	ppb	
1,3,5-TNB	11.299	227133	587.819	ppb	V
1,2-DNB	13.159	235438	1004.581	ppb	
1,3-DNB	13.829	296570	610.132	ppb	V
NB	14.804	193619	600.762	ppb	V
2,4,6-TNT	18.292	204127	603.457	ppb	
TETRYL	19.151	140245	536.609	ppb	V
2,6-DNT	20.930	143659	609.655	ppb	
2,4-DNT	22.112	270299	603.574	ppb	V
2-NT	23.778	116267	579.998	ppb	
4-NT	25.867	106526	590.375	ppb	
3-NT	27.783	158925	609.702	ppb	V
4-A-2,6-DNT	28.250	120331	564.971	ppb	V
2-A-4,6-DNT	30.633	209636	600.234	ppb	

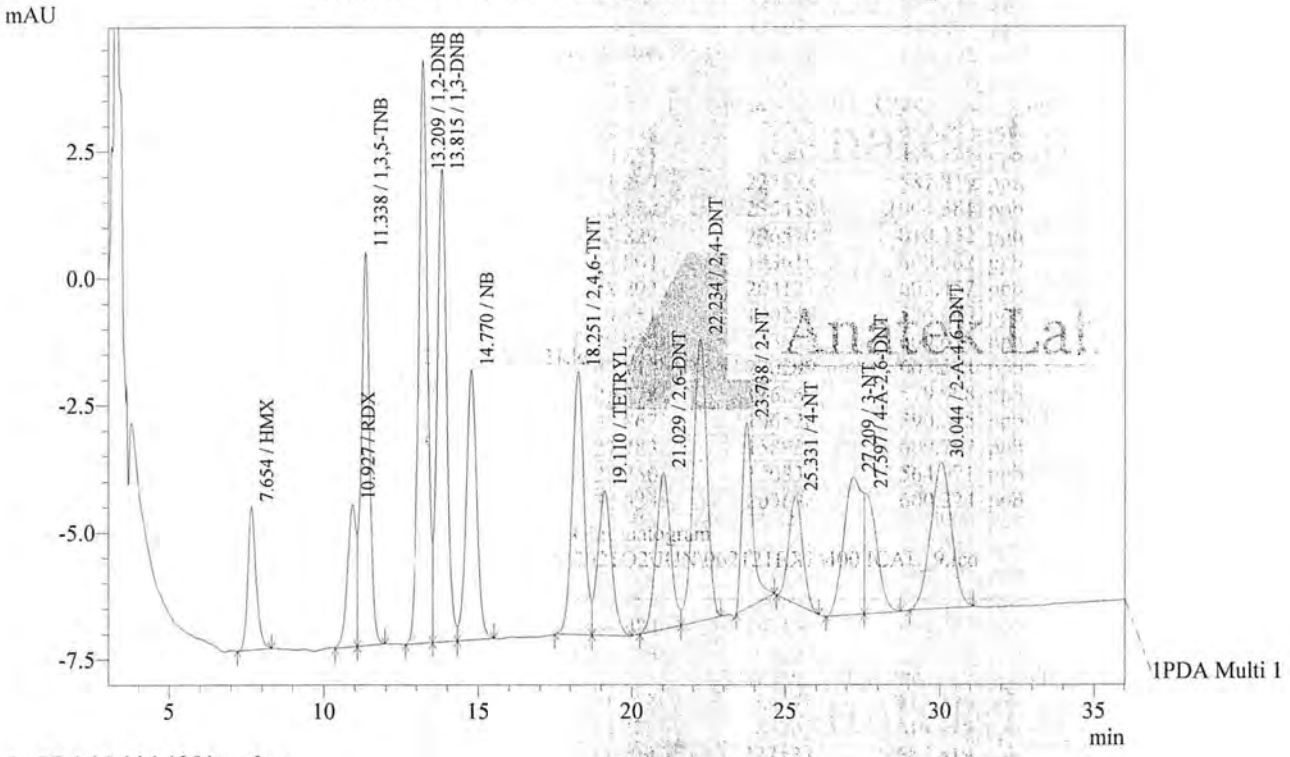
Sample Information

Acquired by	: Admin
Sample Name	: 400 ICAL
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: 400 ICAL_9.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 8:26:17 PM
Data Processed	: 7/23/2021 9:23:59 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

400 ICAL T:\Data6\HPLC2\2021Q2\JUN\062121EXP\400 ICAL_9.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.654	52769	405.318	ppb	
RDX	10.927	56330	403.138	ppb	V
1,3,5-TNB	11.338	144702	376.265	ppb	V
1,2-DNB	13.209	232098	995.057	ppb	
1,3-DNB	13.815	199025	408.737	ppb	V
NB	14.770	125189	389.270	ppb	V
2,4,6-TNT	18.251	138999	410.091	ppb	
TETRYL	19.110	89130	344.795	ppb	V
2,6-DNT	21.029	101056	426.578	ppb	V
2,4-DNT	22.234	175592	392.669	ppb	V
2-NT	23.738	88315	437.272	ppb	
4-NT	25.331	66722	371.862	ppb	
3-NT	27.209	113575	432.859	ppb	
4-A-2,6-DNT	27.597	65237	311.704	ppb	V
2-A-4,6-DNT	30.044	134597	386.427	ppb	

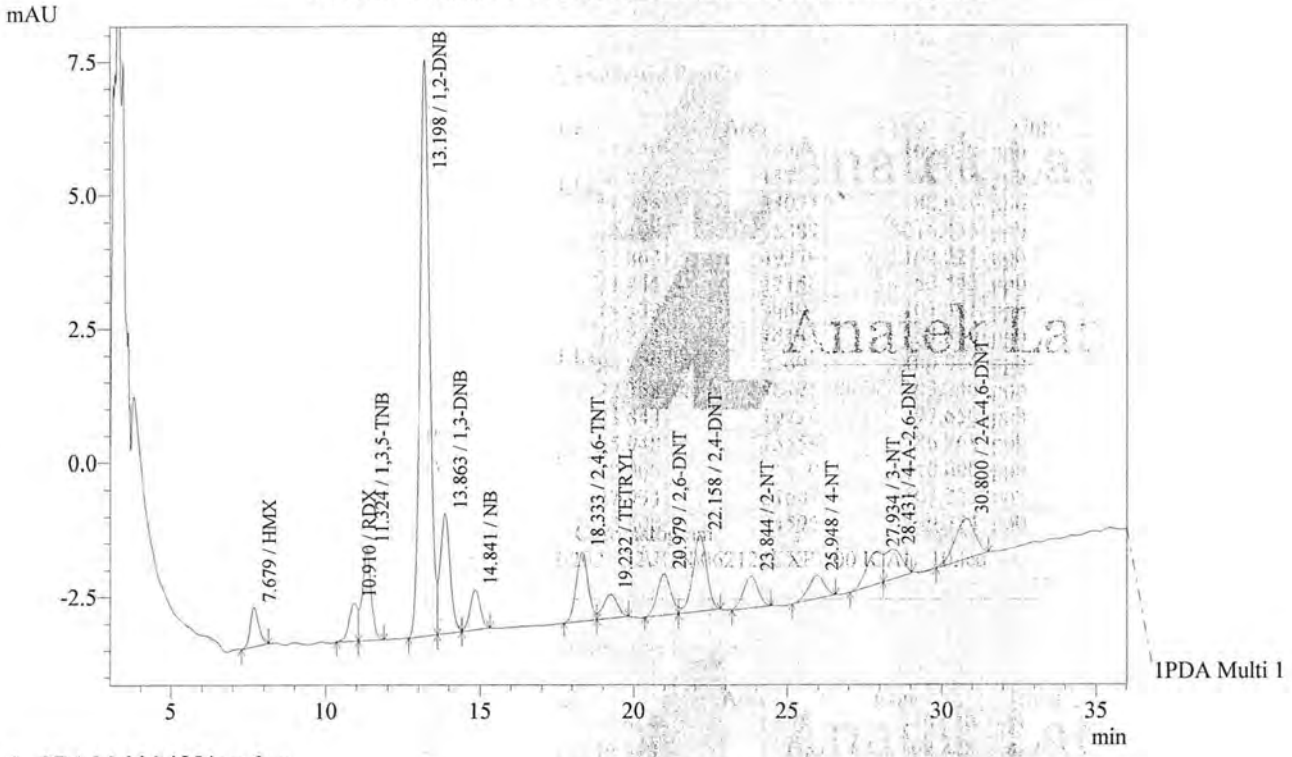
Sample Information

Acquired by	: Admin
Sample Name	: 100 ICAL
Sample ID	:
Vail#	: 5
Injection Volume	: 100 uL
Data Filename	: 100 ICAL_10.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 9:03:14 PM
Data Processed	: 7/23/2021 9:28:10 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

100 ICAL T:\Data6\HPLC2\2021Q2\JUN\062121EXP\100 ICAL_10.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.679	14201	109.030	ppb	
RDX	10.910	13755	98.448	ppb	
1,3,5-TNB	11.324	34071	88.641	ppb	V
1,2-DNB	13.198	238389	1016.431	ppb	V
1,3-DNB	13.863	49779	102.221	ppb	V
NB	14.841	17150	53.442	ppb	V
2,4,6-TNT	18.333	34392	101.461	ppb	
TETRYL	19.232	14144	54.829	ppb	V
2,6-DNT	20.979	23696	100.024	ppb	
2,4-DNT	22.158	46176	103.246	ppb	V
2-NT	23.844	19720	97.650	ppb	
4-NT	25.948	15559	86.768	ppb	
3-NT	27.934	21607	82.415	ppb	
4-A-2,6-DNT	28.431	20805	99.411	ppb	V
2-A-4,6-DNT	30.800	34595	99.324	ppb	V

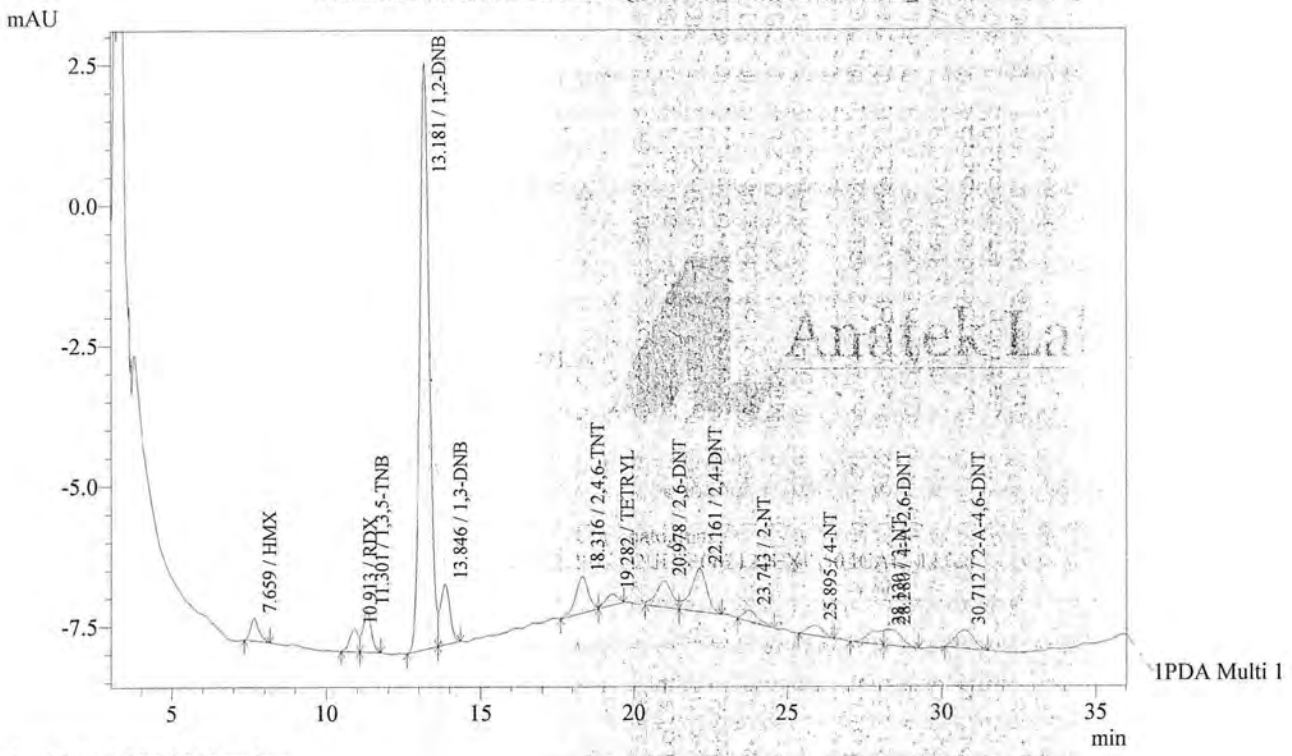
Sample Information

Acquired by	: Admin
Sample Name	: 50 ICAL
Sample ID	:
Vail#	: 6
Injection Volume	: 100 uL
Data Filename	: 50 ICAL_11.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lc
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 9:40:10 PM
Data Processed	: 7/23/2021 9:31:29 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

50 ICAL T:\Data6\HPLC2\2021Q2\JUN\062121EXP\50 ICAL_11.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.659	7591	58.273	ppb	
RDX	10.913	8176	58.508	ppb	
1,3,5-TNB	11.301	14155	36.838	ppb	V
1,2-DNB	13.181	227562	976.072	ppb	
1,3-DNB	13.846	23161	47.564	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	18.316	18891	55.724	ppb	
TETRYL	19.282	5627	21.826	ppb	V
2,6-DNT	20.978	16886	71.246	ppb	V
2,4-DNT	22.161	28307	63.274	ppb	V
2-NT	23.743	6652	32.953	ppb	
4-NT	25.895	6375	35.562	ppb	
3-NT	28.120	8289	31.629	ppb	
4-A-2,6-DNT	28.280	10339	49.402	ppb	V
2-A-4,6-DNT	30.712	13951	40.064	ppb	

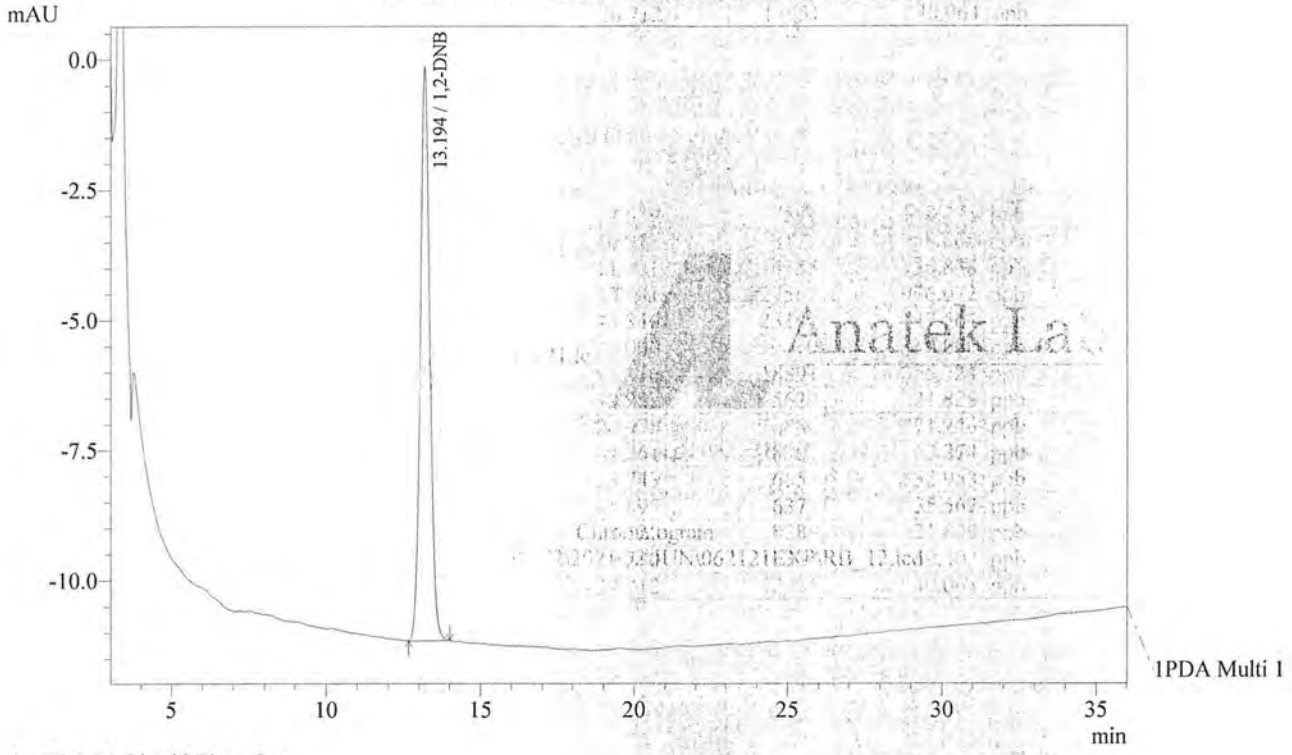
Sample Information

Acquired by	: Admin
Sample Name	: RB
Sample ID	:
Vail#	: 7
Injection Volume	: 100 uL
Data Filename	: RB_12.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 10:17:06 PM
Data Processed	: 7/23/2021 9:32:38 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

RB T:\Data6\HPLC2\2021Q2\JUN\062121EXP\RB_12.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.194	239317	1026.489	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

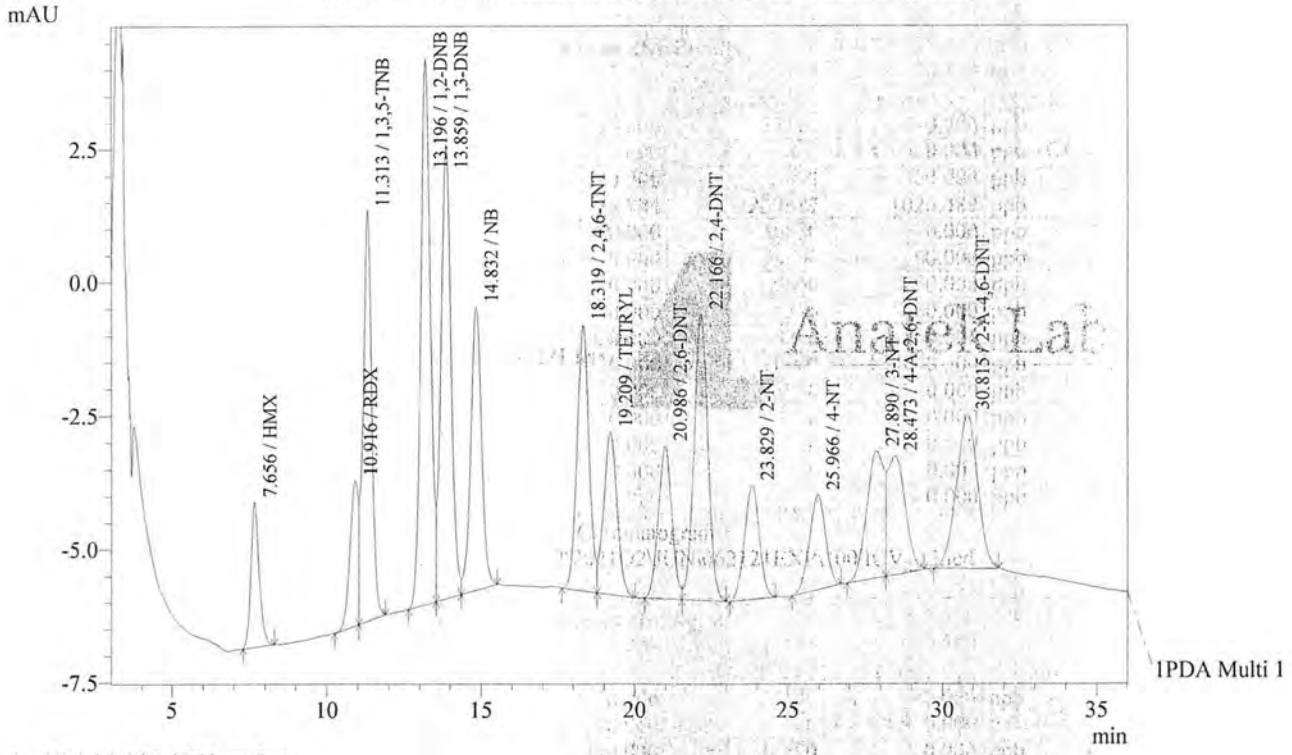
Sample Information

Acquired by	: Admin
Sample Name	: 400 ICV
Sample ID	:
Vail#	: 8
Injection Volume	: 100 uL
Data Filename	: 400 ICV_13.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 10:54:04 PM
Data Processed	: 7/23/2021 9:33:45 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

400 ICV T:\Data6\HPLC2\2021Q2\JUN\062121EXP\400 ICV_13.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.656	51293	393.740	ppb	
RDX	10.916	51634	369.488	ppb	
1,3,5-TNB	11.313	149320	388.596	ppb	V
1,2-DNB	13.196	226579	971.855	ppb	V
1,3-DNB	13.859	193376	397.118	ppb	V
NB	14.832	128882	401.618	ppb	V
2,4,6-TNT	18.319	134539	396.853	ppb	
TETRYL	19.209	92448	358.611	ppb	V
2,6-DNT	20.986	88016	371.349	ppb	
2,4-DNT	22.166	172859	386.381	ppb	V
2-NT	23.829	72146	357.395	ppb	
4-NT	25.966	64995	362.579	ppb	
3-NT	27.890	93720	357.630	ppb	
4-A-2,6-DNT	28.473	87554	418.354	ppb	V
2-A-4,6-DNT	30.815	140079	402.271	ppb	

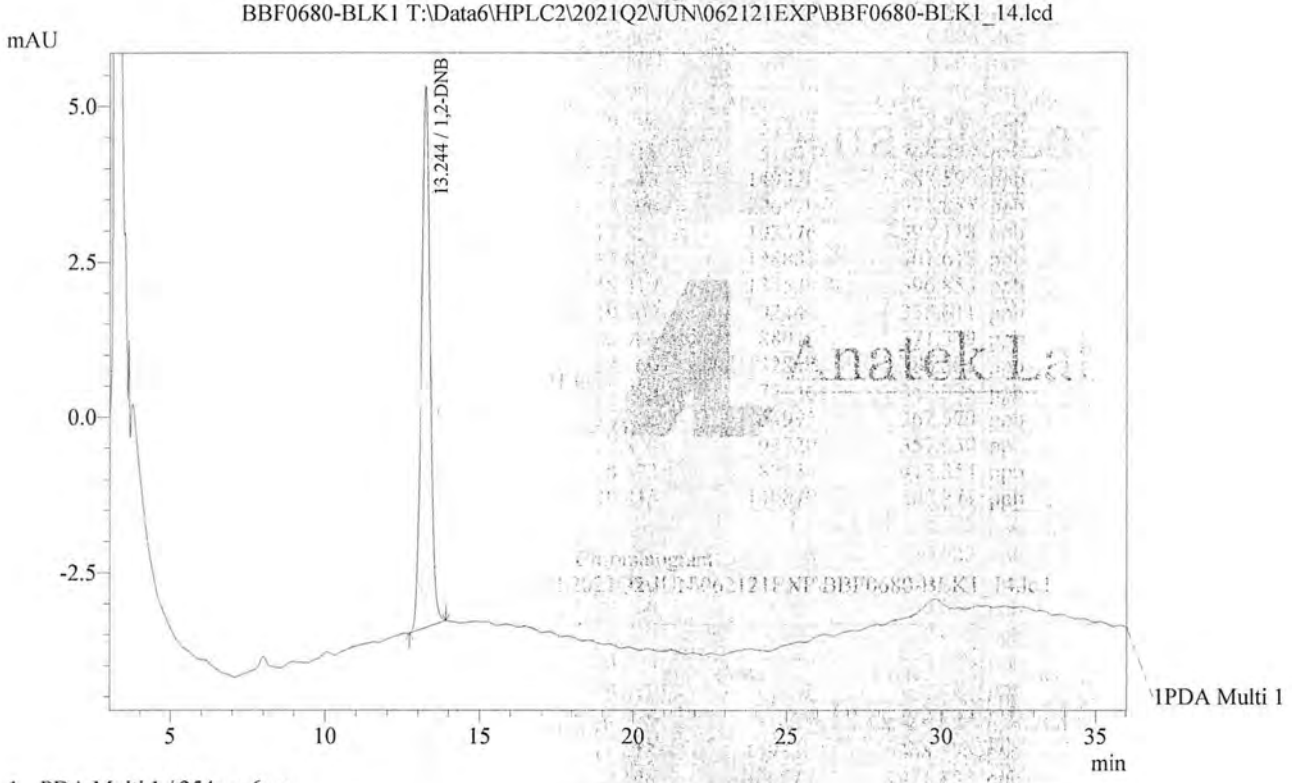
Sample Information

Acquired by	: Admin
Sample Name	: BBF0680-BLK1
Sample ID	:
Vail#	: 9
Injection Volume	: 100 uL
Data Filename	: BBF0680-BLK1_14.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/21/2021 11:31:03 PM
Data Processed	: 7/23/2021 9:35:59 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BBF0680-BLK1 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\BBF0680-BLK1_14.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.244	175266	751.759	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

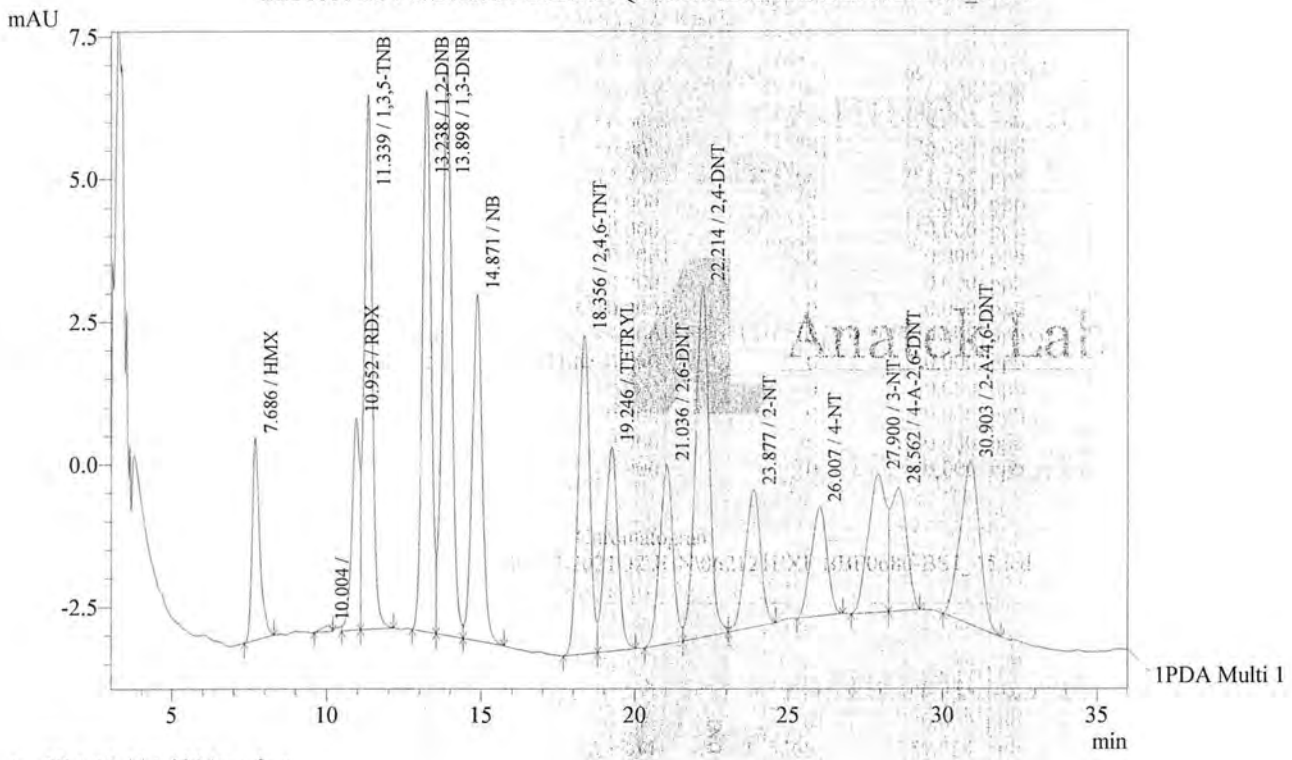
Sample Information

Acquired by	: Admin
Sample Name	: BBF0680-BS1
Sample ID	:
Vail#	: 10
Injection Volume	: 100 uL
Data Filename	: BBF0680-BS1_15.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 12:08:00 AM
Data Processed	: 7/23/2021 9:37:04 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BBF0680-BS1 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\BBF0680-BS1_15.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.686	59570	457.276	ppb	V
RDX	10.952	64783	463.582	ppb	V
1,3,5-TNB	11.339	170375	443.391	ppb	V
1,2-DNB	13.238	190185	815.752	ppb	
1,3-DNB	13.898	213788	439.035	ppb	V
NB	14.871	137822	429.475	ppb	V
2,4,6-TNT	18.356	146229	431.335	ppb	
TETRYL	19.246	105025	407.401	ppb	V
2,6-DNT	21.036	93785	395.689	ppb	
2,4-DNT	22.214	197022	440.392	ppb	V
2-NT	23.877	82728	409.818	ppb	V
4-NT	26.007	68946	384.619	ppb	
3-NT	27.900	98201	374.728	ppb	
4-A-2,6-DNT	28.562	77082	368.315	ppb	V
2-A-4,6-DNT	30.903	127019	364.767	ppb	

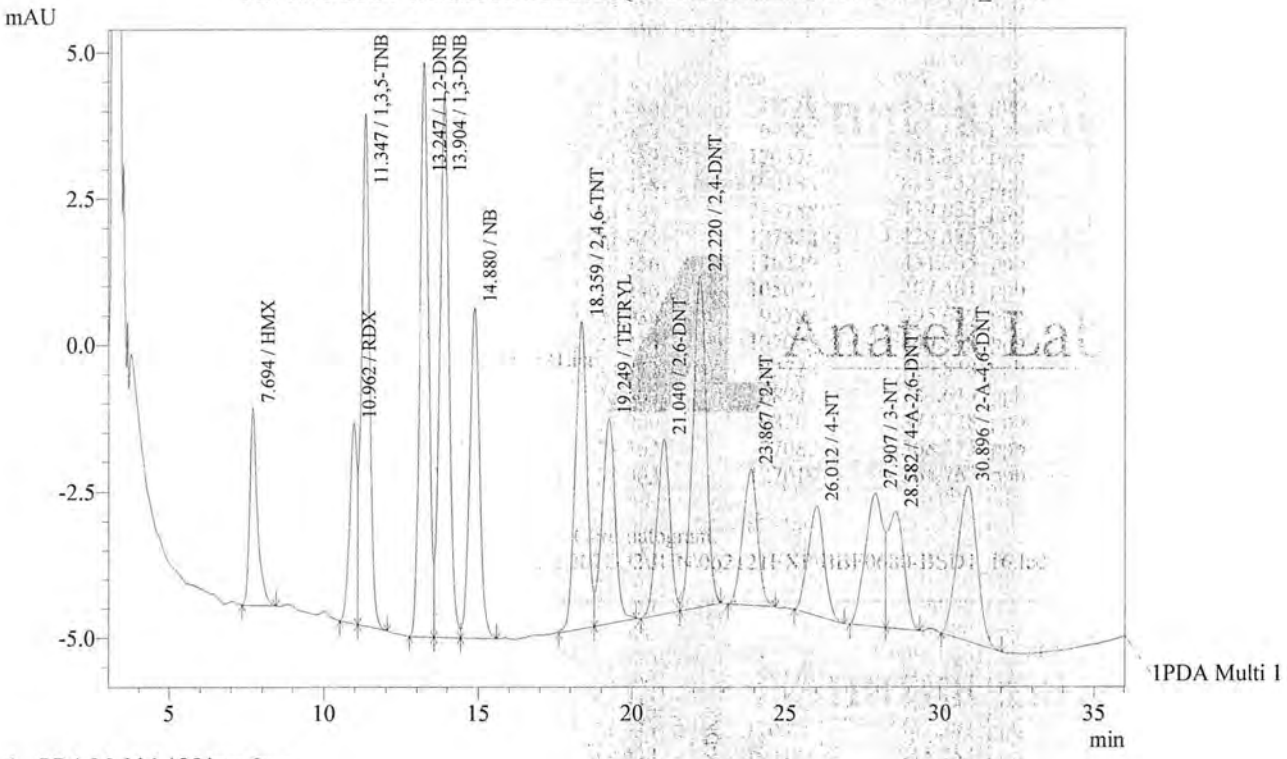
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: BBF0680-BSD1
Sample ID	:
Vail#	: 11
Injection Volume	: 100 uL
Data Filename	: BBF0680-BSD1_16.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 12:44:57 AM
Data Processed	: 7/23/2021 9:38:09 AM
Dilution Factor	:1

Chromatogram

BBF0680-BSD1 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\BBF0680-BSD1_16.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.694	58301	447.535	ppb	
RDX	10.962	56881	407.037	ppb	
1,3,5-TNB	11.347	158393	412.207	ppb	V
1,2-DNB	13.247	197081	845.328	ppb	
1,3-DNB	13.904	195955	402.413	ppb	V
NB	14.880	126397	393.875	ppb	V
2,4,6-TNT	18.359	139269	410.805	ppb	V
TETRYL	19.249	103991	403.388	ppb	SV
2,6-DNT	21.040	88952	375.300	ppb	
2,4-DNT	22.220	177058	395.767	ppb	V
2-NT	23.867	77504	383.939	ppb	
4-NT	26.012	69128	385.631	ppb	
3-NT	27.907	89799	342.665	ppb	
4-A-2,6-DNT	28.582	73572	351.543	ppb	V
2-A-4,6-DNT	30.896	119479	343.113	ppb	

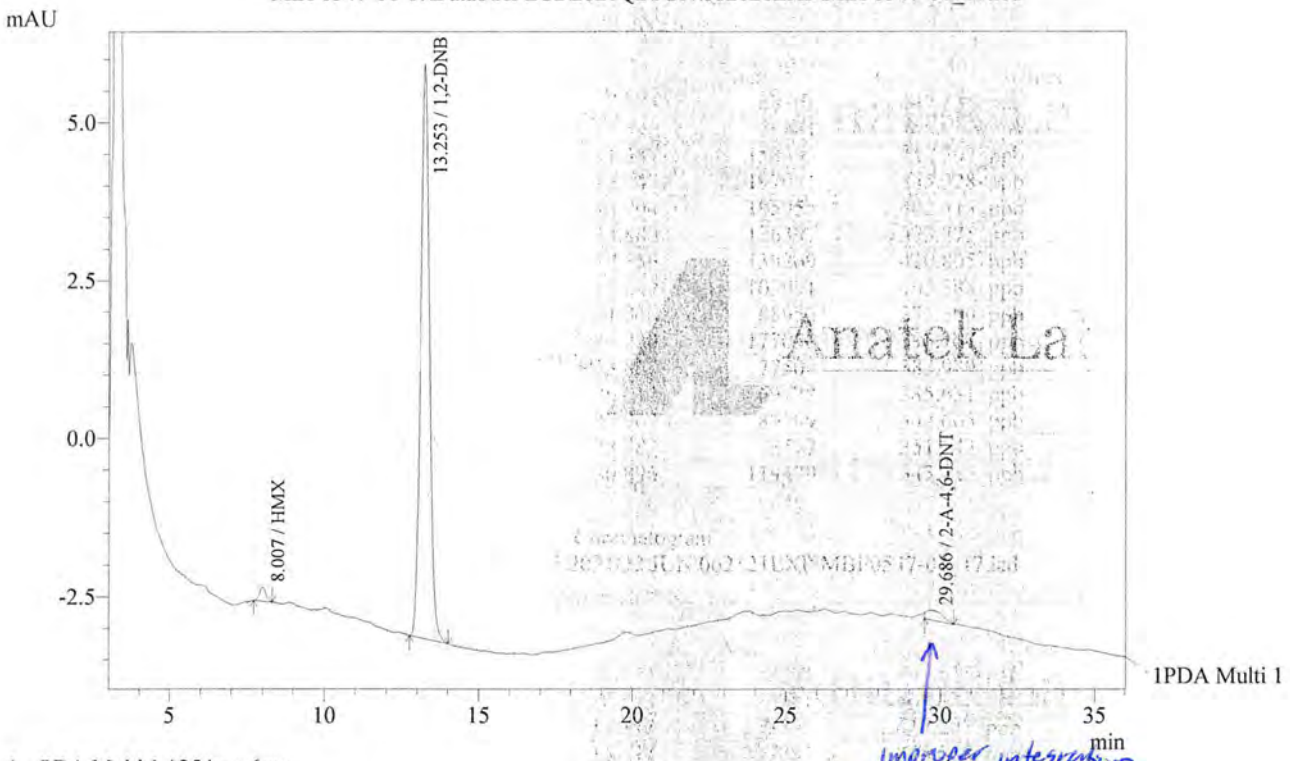
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-01
Sample ID	:
Vail#	: 12
Injection Volume	: 100 uL
Data Filename	: MBF0547-01_17.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 1:21:55 AM
Data Processed	: 7/23/2021 9:39:16 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-01 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-01_17.lcd



1 PDA Multi 1 / 254nm 6nm

improper integration
2-A-4,6-DNT ND
mak 7/26/21

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	8.007	3281	* 25.186	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.253	184297	790.497	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	29.686	5730	16.456	ppb	V

* see RT table. HMX RT doesn't agree w/QC. ND.
mak 7/26/21

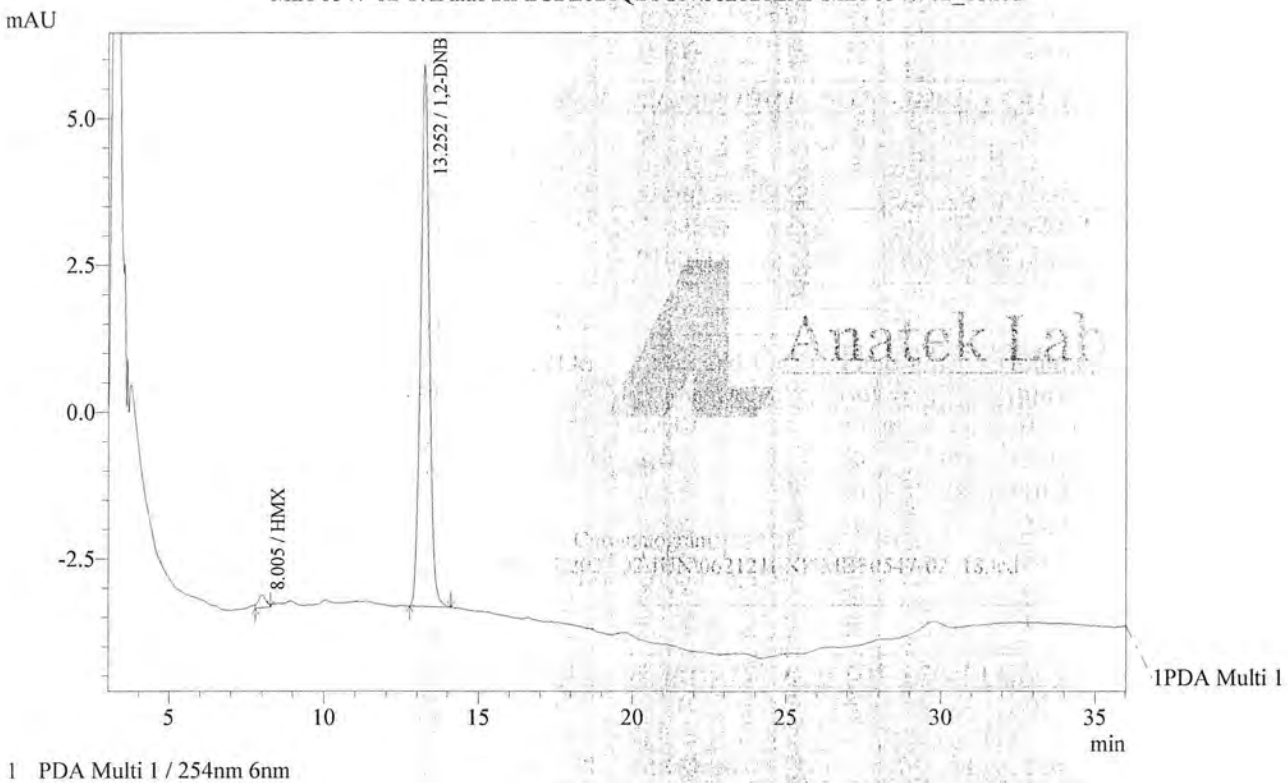
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-02
Sample ID	:
Vail#	: 13
Injection Volume	: 100 uL
Data Filename	: MBF0547-02_18.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 1:58:53 AM
Data Processed	: 7/23/2021 9:40:23 AM
Dilution Factor	:1

Chromatogram

MBF0547-02 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-02_18.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	8.005	3709	* 28.472	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.252	189218	811.605	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* see RT table. HMX RT doesn't agree w/ac. ND
MCR 7/22/21

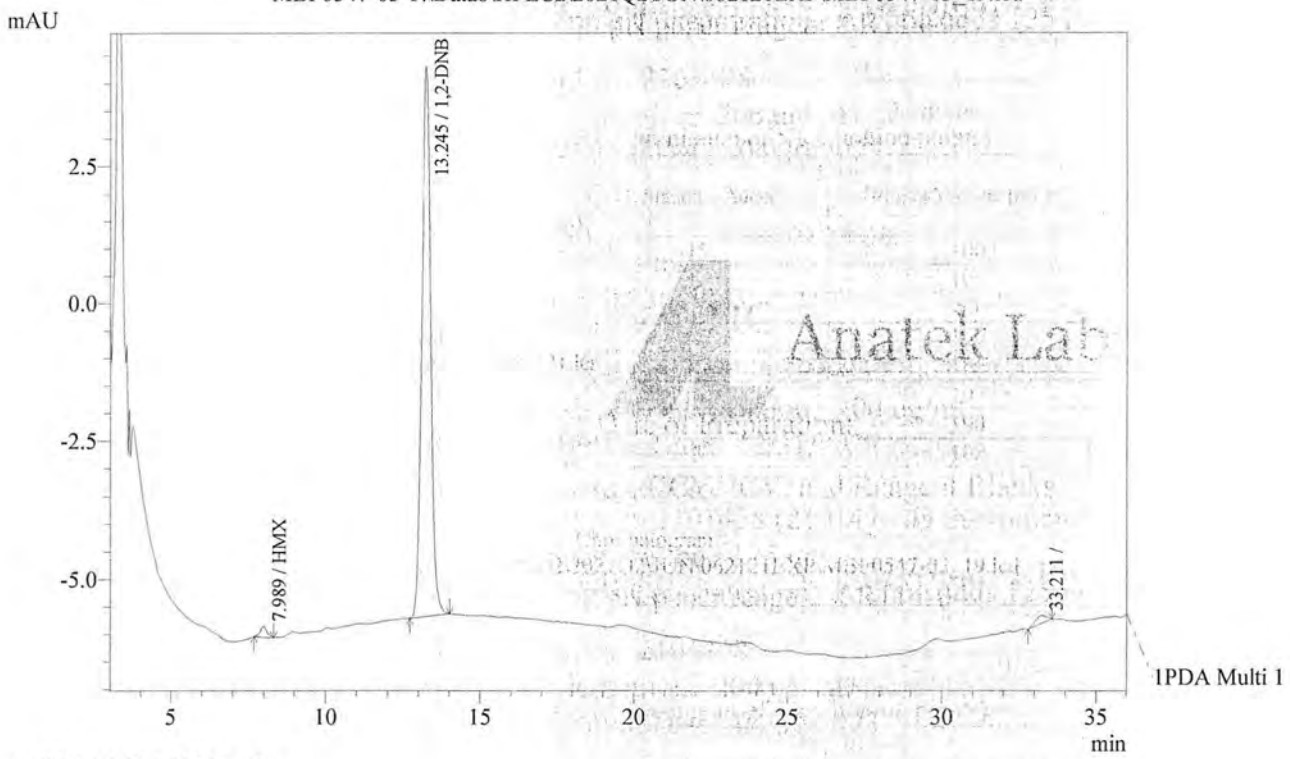
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-03
Sample ID	:
Vail#	: 14
Injection Volume	: 100 uL
Data Filename	: MBF0547-03_19.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 2:35:51 AM
Data Processed	: 7/23/2021 9:41:27 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-03 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-03_19.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.989	3055	* 23.447	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.245	205040	879.468	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* see RT table. HMX RT doesn't agree w/ QC. ND.
MKR 7/26/21

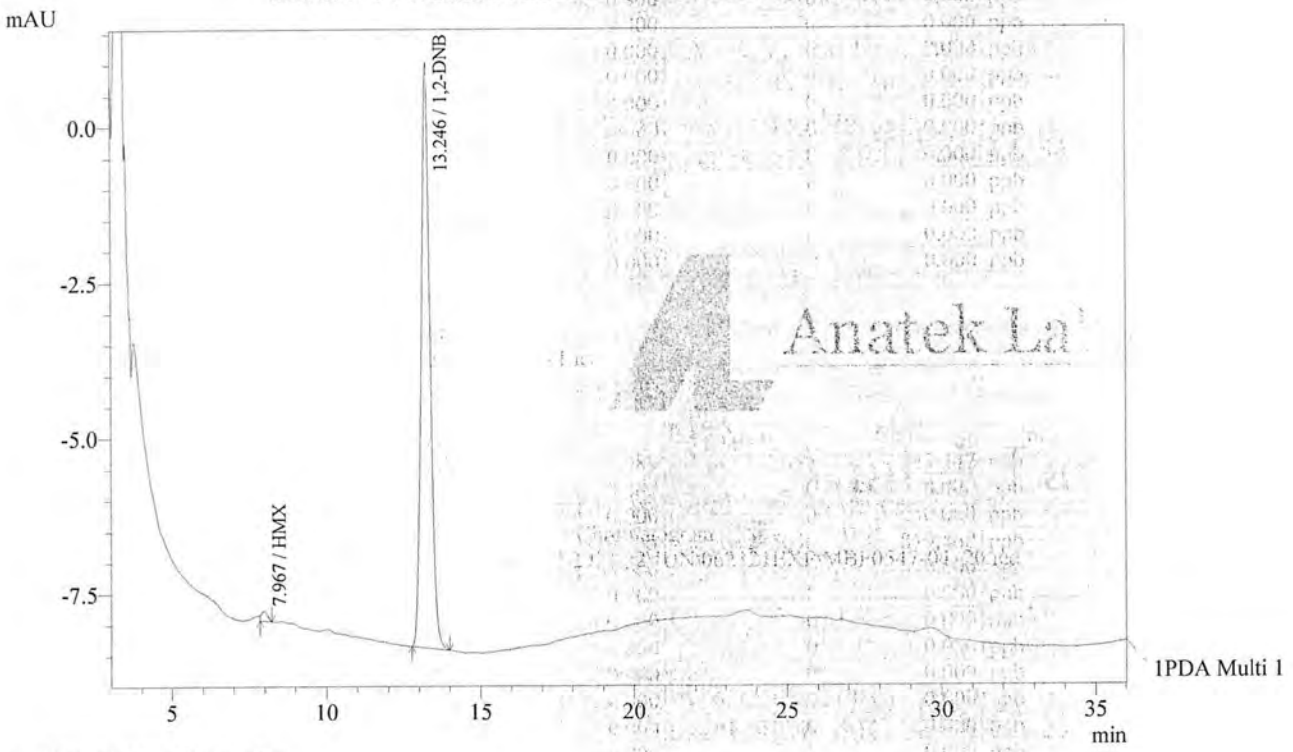
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-04
Sample ID	:
Vail#	: 15
Injection Volume	: 100 uL
Data Filename	: MBF0547-04_20.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 3:12:51 AM
Data Processed	: 7/23/2021 9:42:33 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-04 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-04_20.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.967	2187	* 16.785	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.246	195583	838.905	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* see RT table. HMX RT doesn't agree w/ QC. ND.
MCL 7/26/21

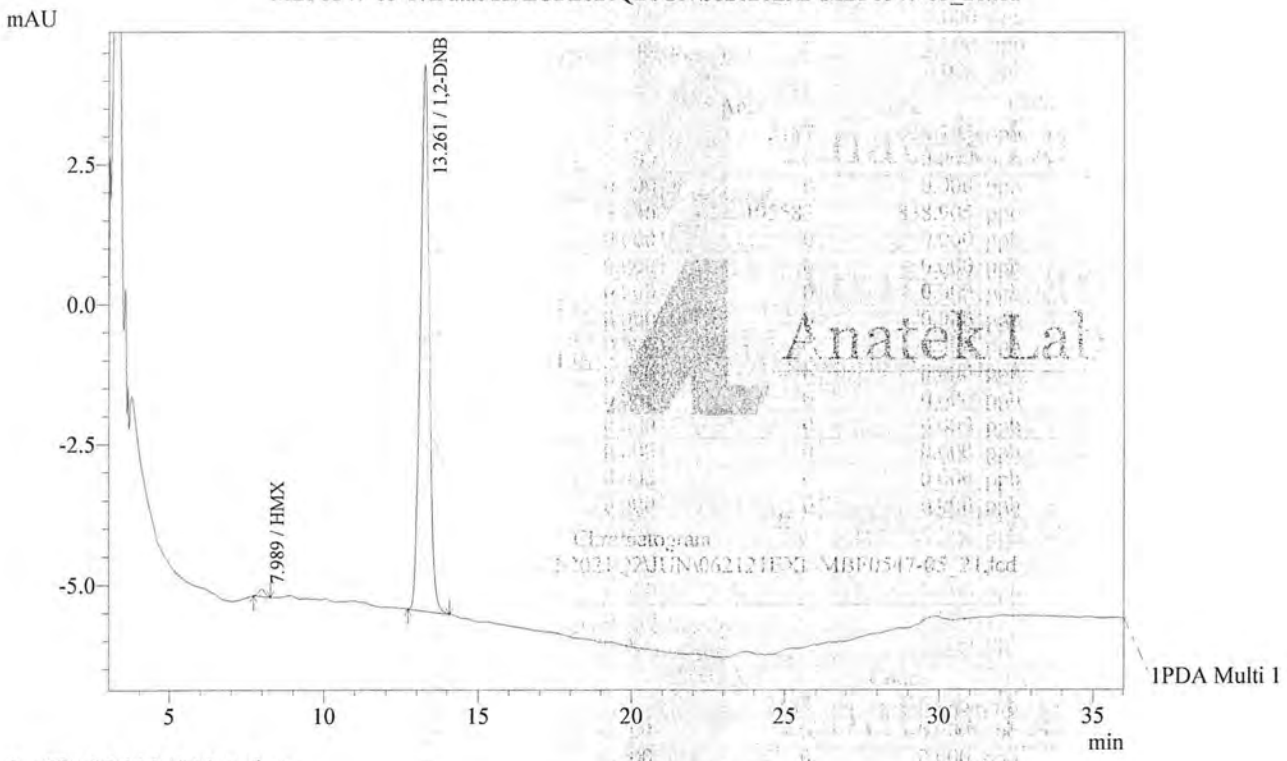
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-05
Sample ID	:
Vail#	: 16
Injection Volume	: 100 uL
Data Filename	: MBF0547-05_21.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 3:49:47 AM
Data Processed	: 7/23/2021 9:43:43 AM
Dilution Factor	:1

Chromatogram

MBF0547-05 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-05_21.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.989	1915	* 14.697	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.261	203468	872.723	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC. ND.
MCK 7/26/21

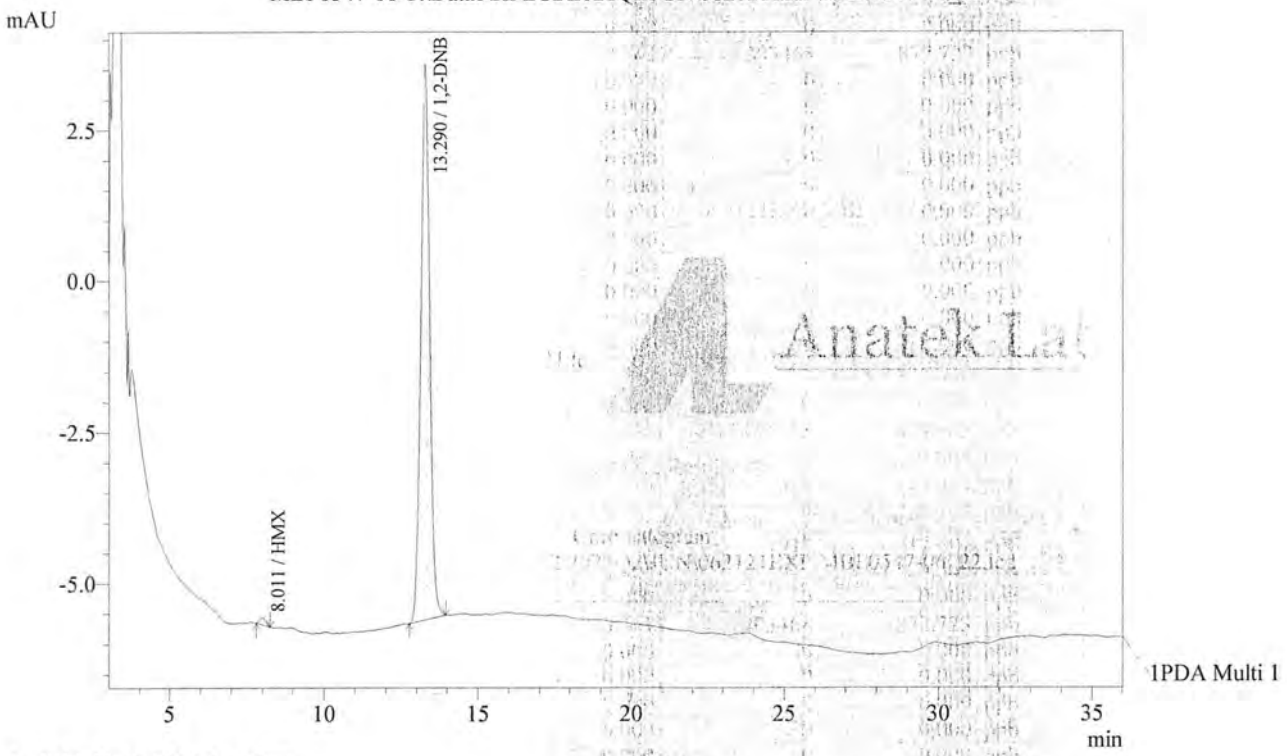
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-06
Sample ID	:
Vail#	: 17
Injection Volume	: 100 uL
Data Filename	: MBF0547-06_22.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 4:26:44 AM
Data Processed	: 7/23/2021 9:45:03 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-06 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-06_22.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	8.011	1509	* 11.581	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.290	190630	817.661	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC. ND
MCR 7/26/21

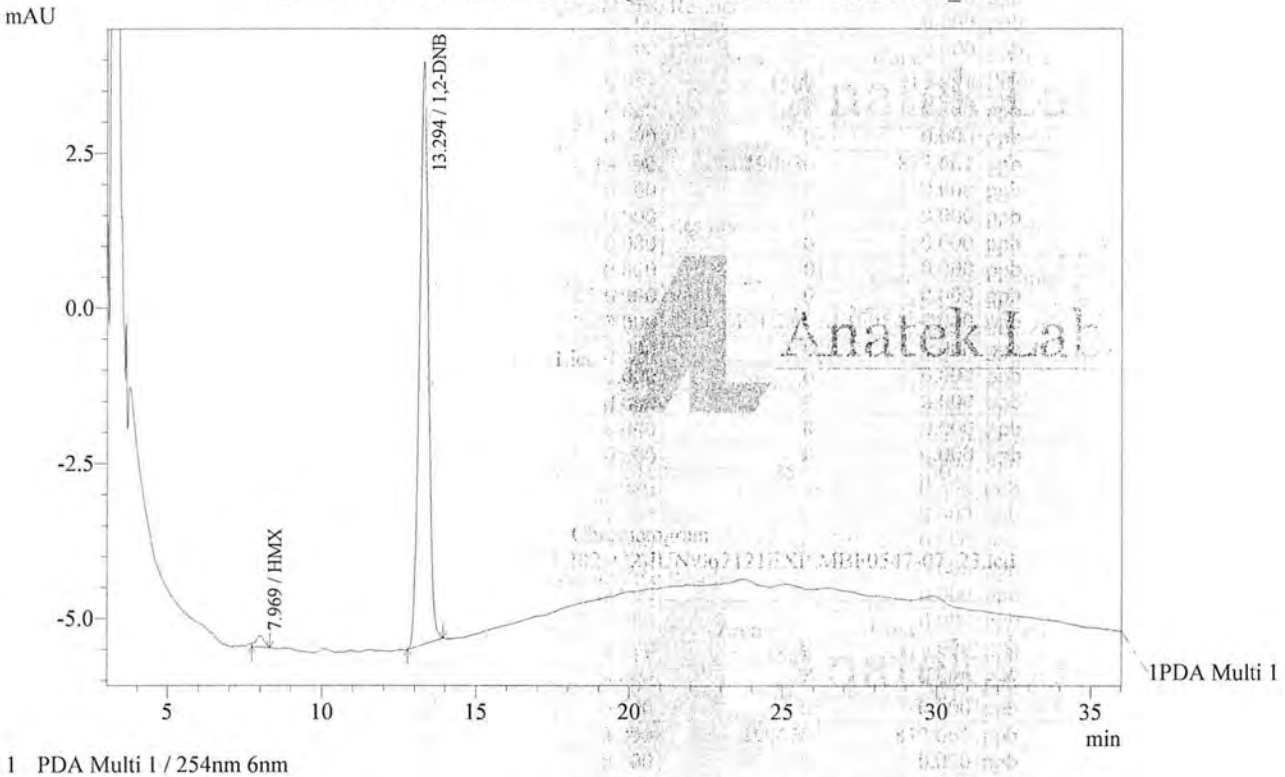
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-07
Sample ID	:
Vail#	: 18
Injection Volume	: 100 uL
Data Filename	: MBF0547-07_23.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 5:03:40 AM
Data Processed	: 7/23/2021 9:46:17 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-07 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-07_23.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.969	3396	* 26.065	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.294	199018	853.639	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC. ND.
MSR 7/26/21

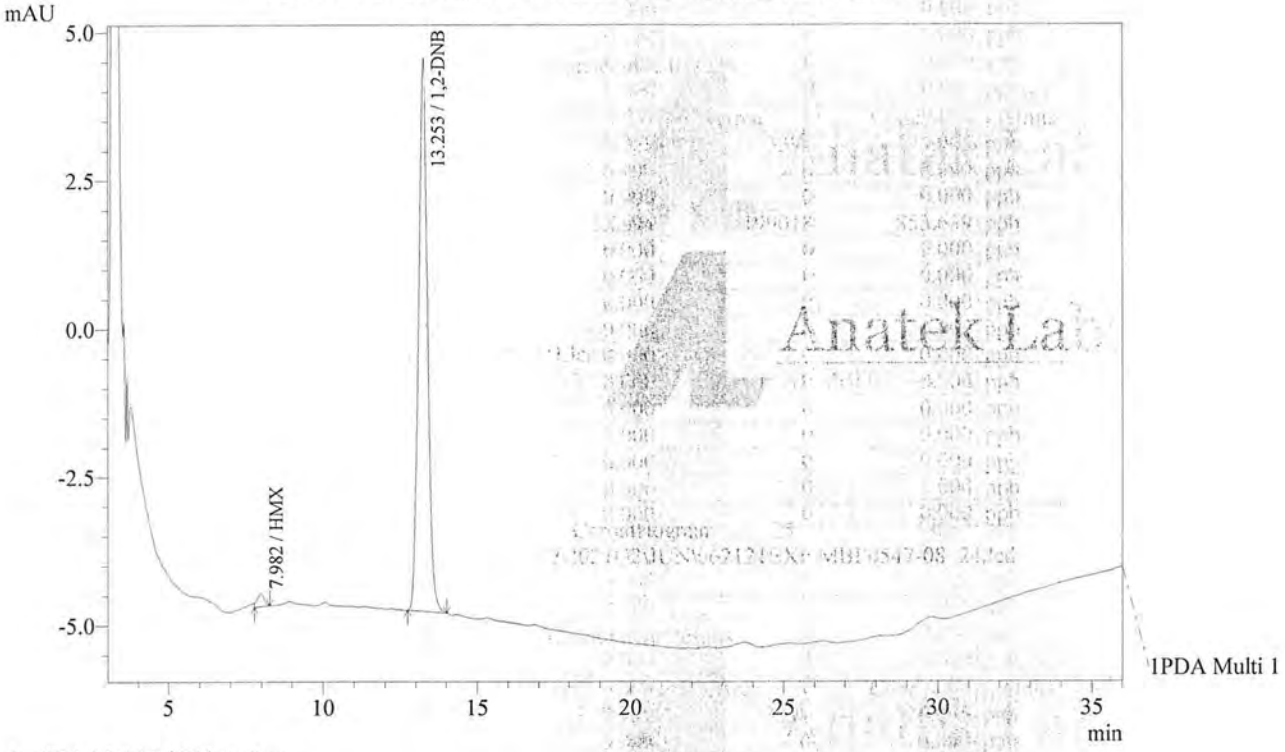
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-08
Sample ID	:
Vail#	: 19
Injection Volume	: 100 uL
Data Filename	: MBF0547-08_24.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 5:40:37 AM
Data Processed	: 7/23/2021 9:47:51 AM
Dilution Factor	:1

Chromatogram

MBF0547-08 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-08_24.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.982	3503	26.892 *	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.253	197700	847.986	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC. ND.
MKK 7/26/21

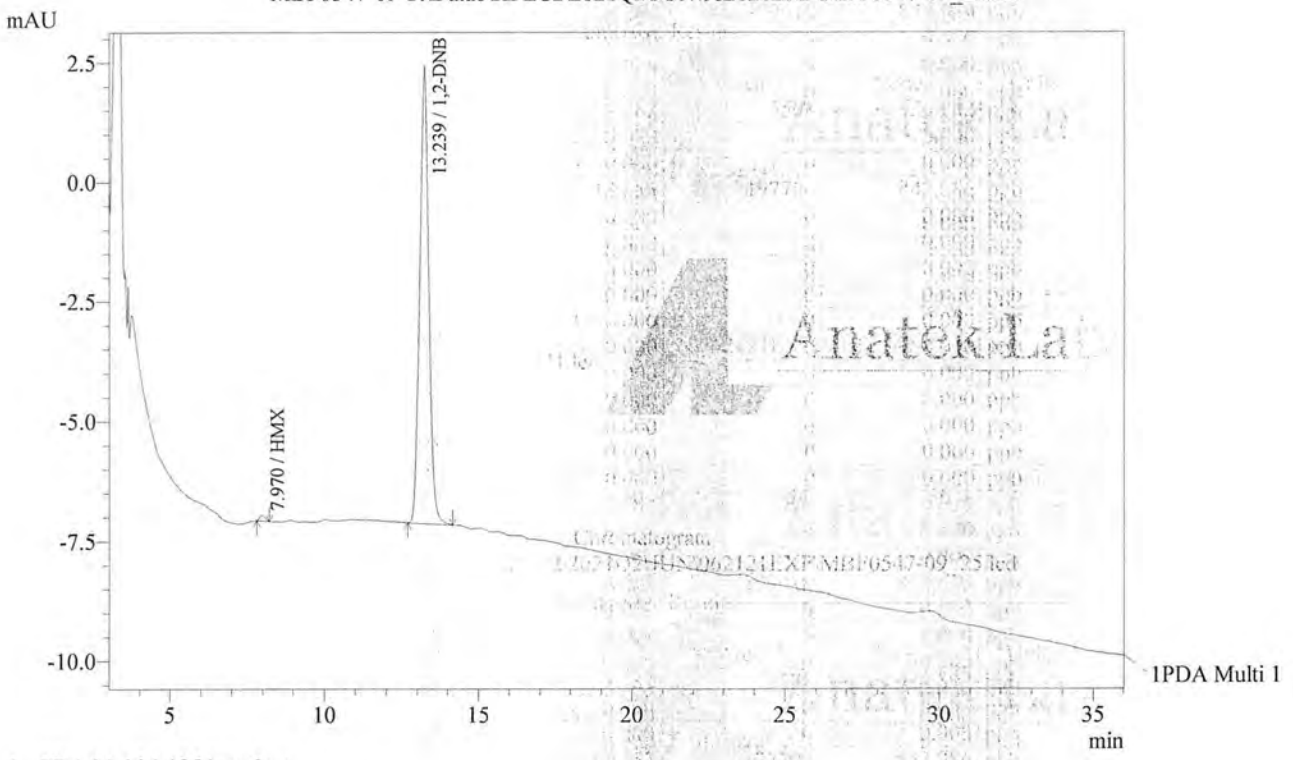
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-09
Sample ID	:
Vail#	: 20
Injection Volume	: 100 uL
Data Filename	: MBF0547-09_25.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 6:17:34 AM
Data Processed	: 7/23/2021 9:49:22 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-09 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-09_25.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.970	1359	10.431 *	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.239	204386	876.662	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC. ND.
MEL 7/26/21

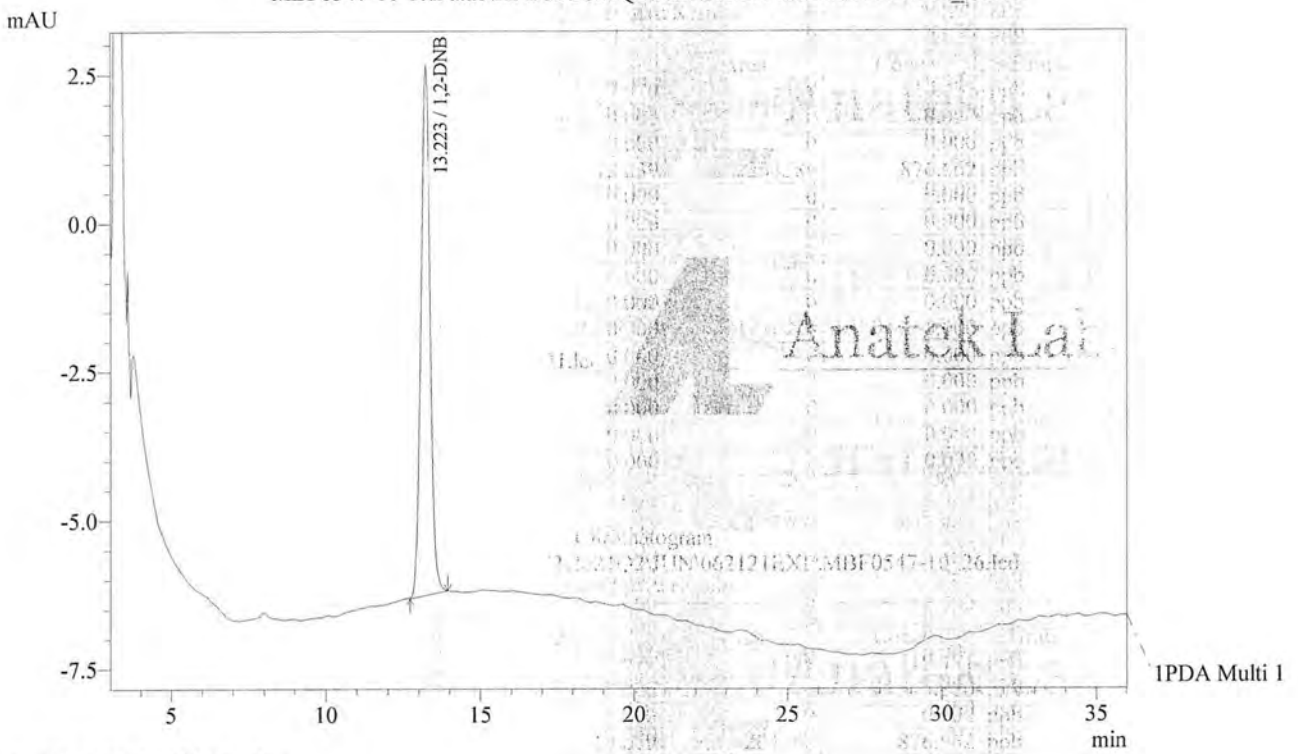
Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-10
Sample ID	:
Vail#	: 21
Injection Volume	: 100 uL
Data Filename	: MBF0547-10_26.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 6:54:31 AM
Data Processed	: 7/23/2021 9:51:03 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0547-10 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-10_26.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.223	189270	811.825	ppb	V
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

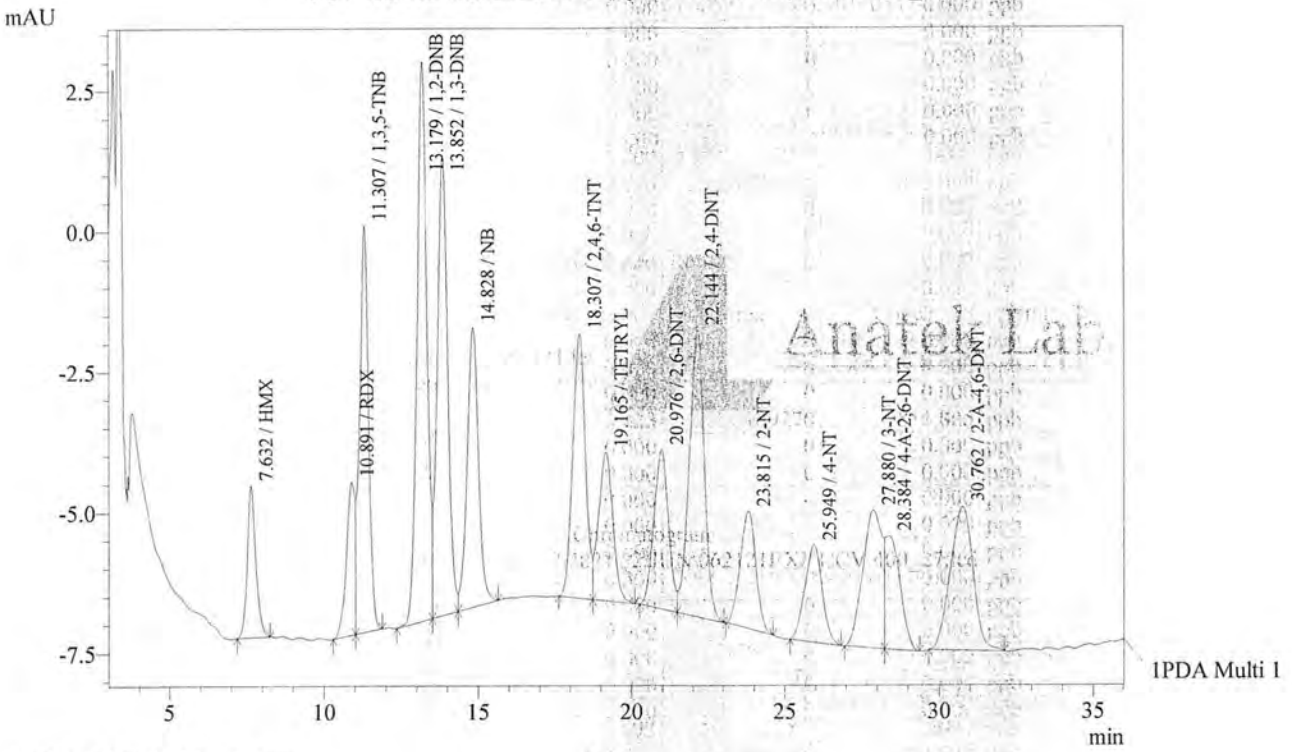
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400_27.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 7:31:27 AM
Data Processed	: 7/23/2021 9:52:12 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\CCV 400_27.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.632	52060	399.627	ppb	
RDX	10.891	52157	373.231	ppb	
1,3,5-TNB	11.307	145759	379.329	ppb	V
1,2-DNB	13.179	228563	980.366	ppb	
1,3-DNB	13.852	193384	397.134	ppb	V
NB	14.828	127378	396.932	ppb	V
2,4,6-TNT	18.307	135005	398.229	ppb	
TETRYL	19.165	85351	331.082	ppb	V
2,6-DNT	20.976	93993	396.570	ppb	
2,4-DNT	22.144	177399	396.529	ppb	V
2-NT	23.815	74167	367.410	ppb	
4-NT	25.949	67348	375.704	ppb	
3-NT	27.880	105894	404.085	ppb	
4-A-2,6-DNT	28.384	67141	320.816	ppb	V
2-A-4,6-DNT	30.762	130930	375.996	ppb	S

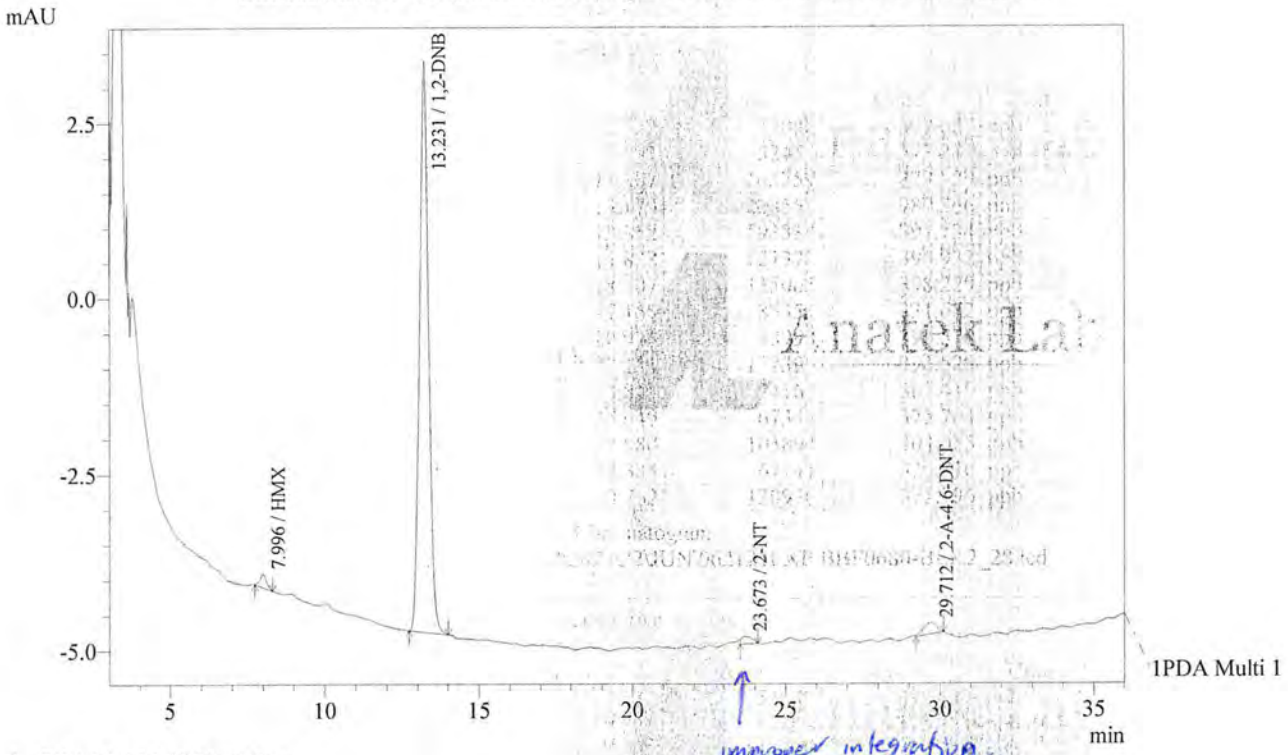
Sample Information

Acquired by	: Admin
Sample Name	: BBF0680-BLK2
Sample ID	:
Vail#	: 9
Injection Volume	: 100 uL
Data Filename	: BBF0680-BLK2_28.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 8:08:24 AM
Data Processed	: 7/23/2021 9:53:44 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BBF0680-BLK2 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\BBF0680-BLK2_28.lcd



1 PDA Multi 1 / 254nm 6nm

improper integration, 2-NT ND MER 7/26/21

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.996	2833	* 21.748	ppb	
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.231	173084	742.400	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	23.673	2605	12.904	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	29.712	4762	* 13.674	ppb	V

* see RT table. HMX & 2-A-4,6-DNT RT doesn't agree w/ QC. ND for both analytes. MER 7/26/21

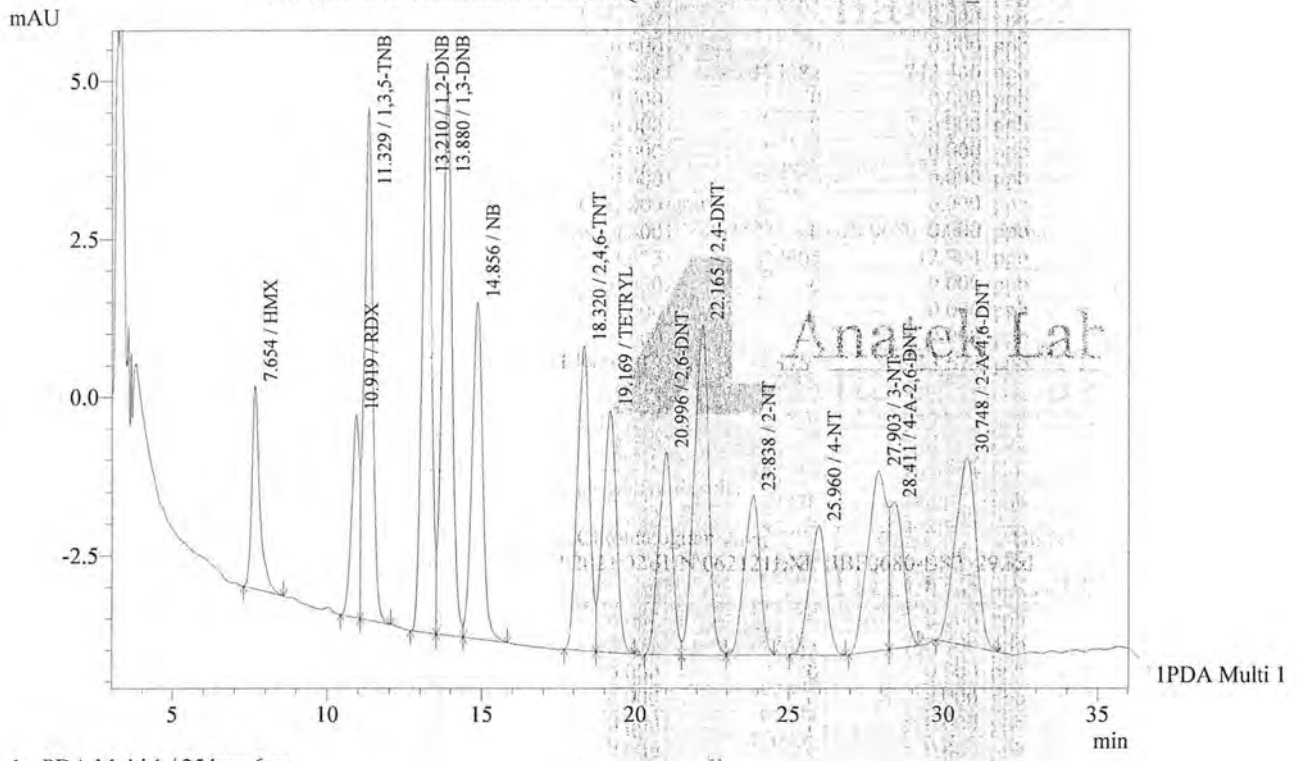
Sample Information

Acquired by	: Admin
Sample Name	: BBF0680-BS2
Sample ID	:
Vail#	: 22
Injection Volume	: 100 uL
Data Filename	: BBF0680-BS2_29.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 8:45:21 AM
Data Processed	: 7/23/2021 9:54:49 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BBF0680-BS2 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\BBF0680-BS2_29.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.654	57287	439.751	ppb	
RDX	10.919	56380	403.448	ppb	
1,3,5-TNB	11.329	152617	397.175	ppb	V
1,2-DNB	13.210	190429	816.797	ppb	
1,3-DNB	13.880	192980	396.305	ppb	V
NB	14.856	127219	396.437	ppb	V
2,4,6-TNT	18.320	133599	394.080	ppb	
TETRYL	19.169	116729	452.801	ppb	V
2,6-DNT	20.996	100378	423.505	ppb	
2,4-DNT	22.165	174625	390.329	ppb	V
2-NT	23.838	89486	443.295	ppb	V
4-NT	25.960	78236	436.443	ppb	S
3-NT	27.903	122070	465.812	ppb	
4-A-2,6-DNT	28.411	69981	334.389	ppb	V
2-A-4,6-DNT	30.748	140478	403.417	ppb	

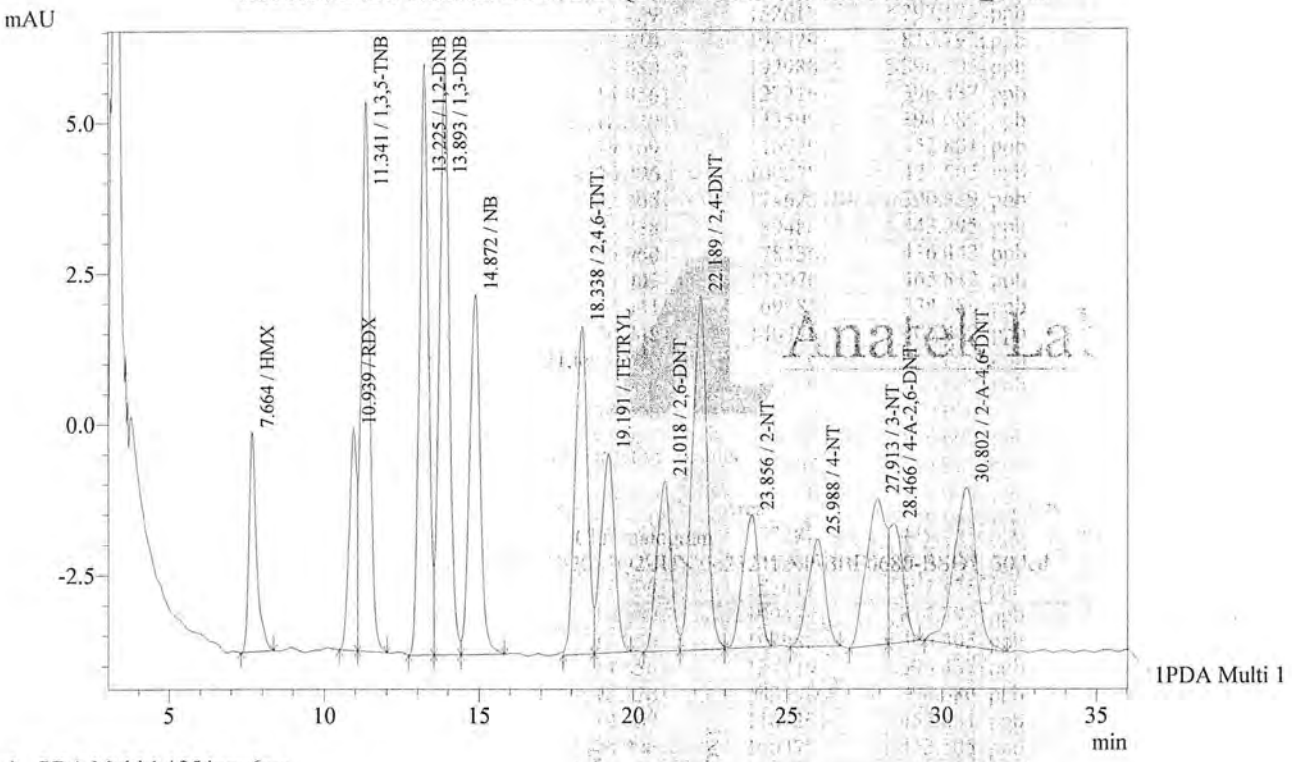
Sample Information

Acquired by	: Admin
Sample Name	: BBF0680-BSD2
Sample ID	:
Vail#	: 23
Injection Volume	: 100 uL
Data Filename	: BBF0680-BSD2_30.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 9:22:19 AM
Data Processed	: 7/23/2021 9:55:54 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

BBF0680-BSD2 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\BBF0680-BSD2_30.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.664	62692	481.239	ppb	
RDX	10.939	63040	451.108	ppb	
1,3,5-TNB	11.341	172526	448.988	ppb	V
1,2-DNB	13.225	206577	886.061	ppb	
1,3-DNB	13.893	217678	447.024	ppb	V
NB	14.872	143391	446.830	ppb	V
2,4,6-TNT	18.338	151325	446.367	ppb	V
TETRYL	19.191	103033	399.674	ppb	V
2,6-DNT	21.018	90258	380.810	ppb	
2,4-DNT	22.189	197511	441.484	ppb	V
2-NT	23.856	79051	391.604	ppb	V
4-NT	25.988	68114	379.979	ppb	
3-NT	27.913	106645	406.951	ppb	
4-A-2,6-DNT	28.466	59952	286.466	ppb	V
2-A-4,6-DNT	30.802	133209	382.542	ppb	

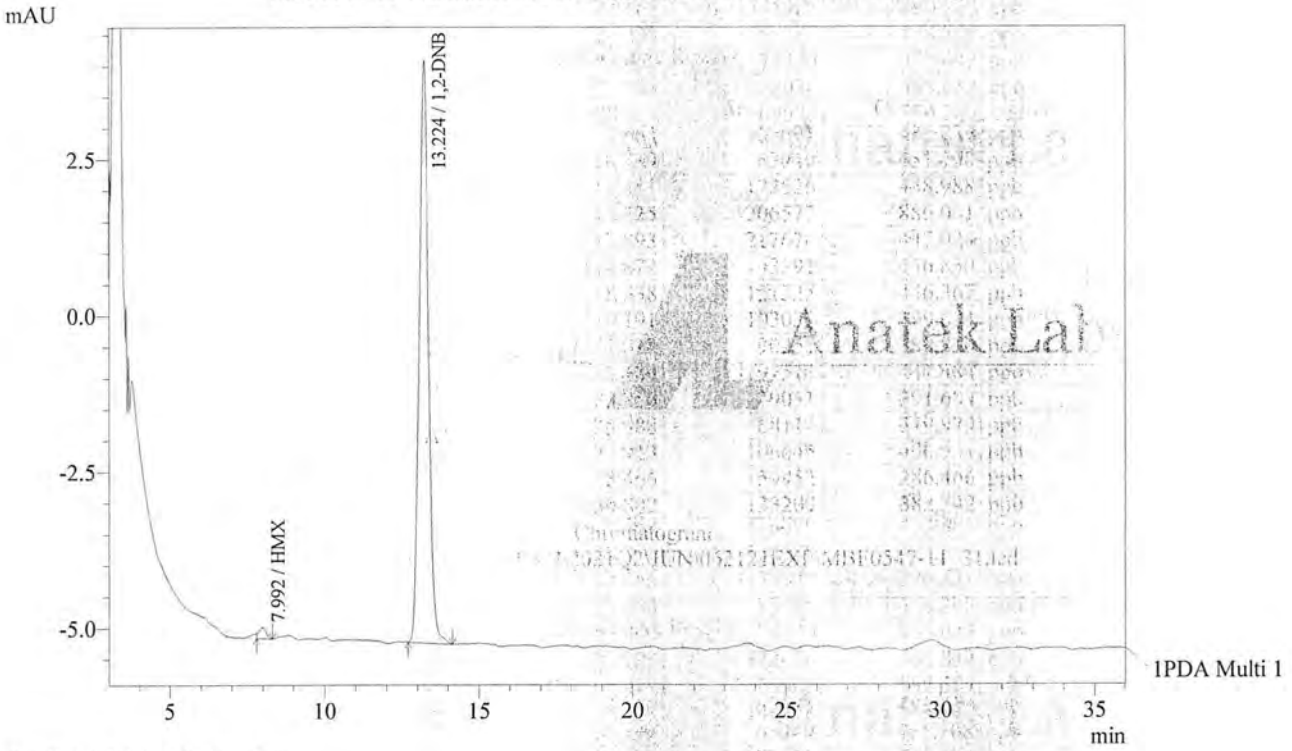
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-11
Sample ID	:
Vail#	: 24
Injection Volume	: 100 uL
Data Filename	: MBF0547-11_31.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 9:59:16 AM
Data Processed	: 7/23/2021 9:56:55 AM
Dilution Factor	:1

Chromatogram

MBF0547-11 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-11_31.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.992	2919	* 22.408	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.224	201099	862.563	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC, ND.

MBK 7/26/21

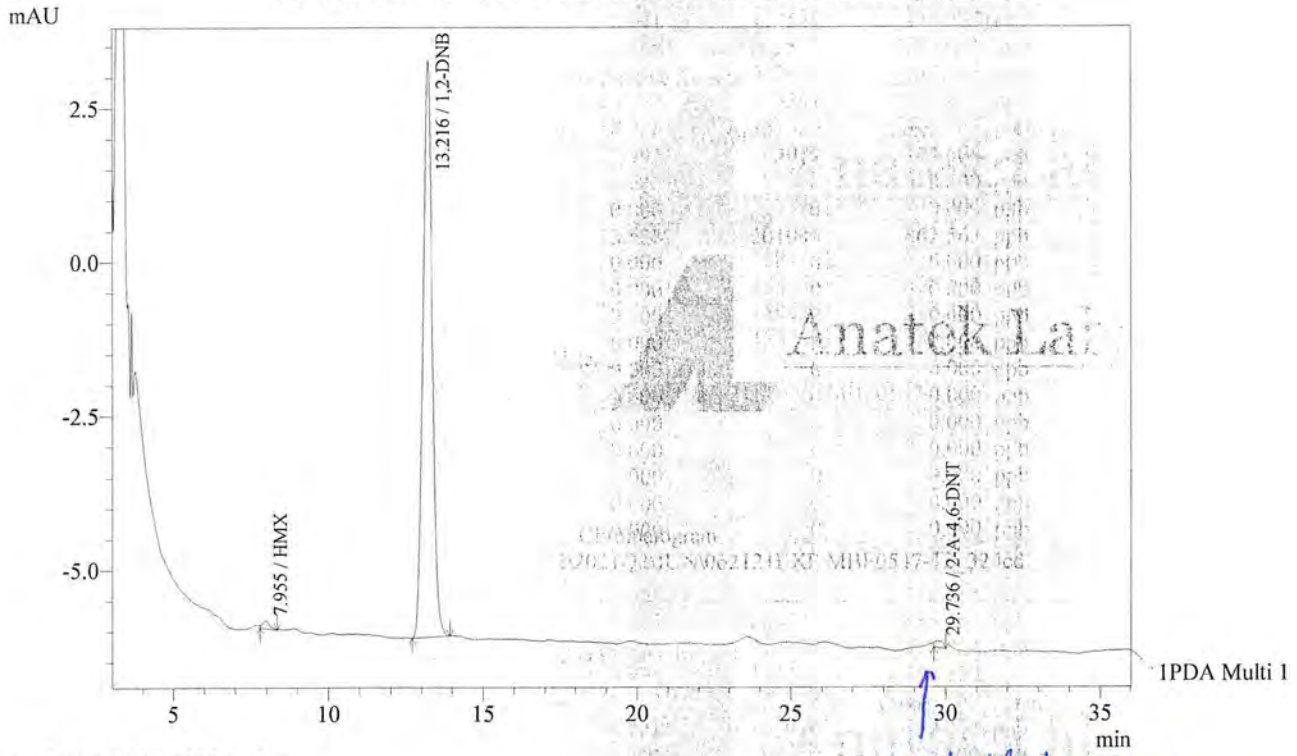
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: MBF0547-12
Sample ID	:
Vail#	: 25
Injection Volume	: 100 uL
Data Filename	: MBF0547-12_32.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 10:36:13 AM
Data Processed	: 7/23/2021 9:57:56 AM
Dilution Factor	:1

Chromatogram

MBF0547-12 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0547-12_32.lcd



1 PDA Multi 1 / 254nm 6nm

misidentified peak. ND.
MEK 7/26/21

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.955	2025	* 15.541	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.216	201590	864.672	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	29.736	2186	6.278	ppb	V

* See RT table. HMX RT doesn't agree w/ o.c. ND.
MEK 7/26/21

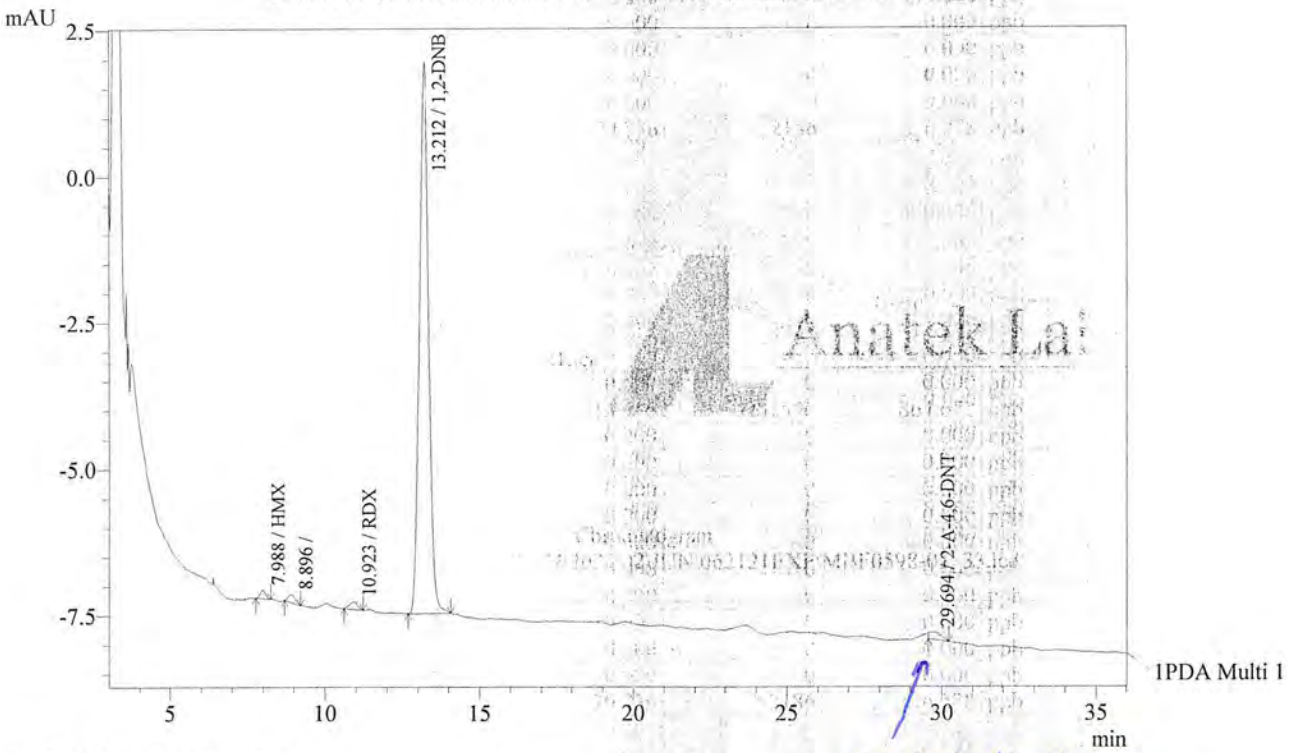
Sample Information

Acquired by	: Admin
Sample Name	: MBF0598-01
Sample ID	:
Vail#	: 26
Injection Volume	: 100 uL
Data Filename	: MBF0598-01_33.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 11:13:09 AM
Data Processed	: 7/23/2021 9:59:00 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0598-01 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0598-01_33.lcd



1 PDA Multi 1 / 254nm 6nm

Improper integration. ND.
MEK 7/26/21

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.988	1833	* 14.073	ppb	
RDX	10.923	2423	17.339	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.212	202813	869.915	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	29.694	3374	9.689	ppb	V

* see RT table. HMX RT doesn't agree w/ QC. ND.
MEK 7/26/21

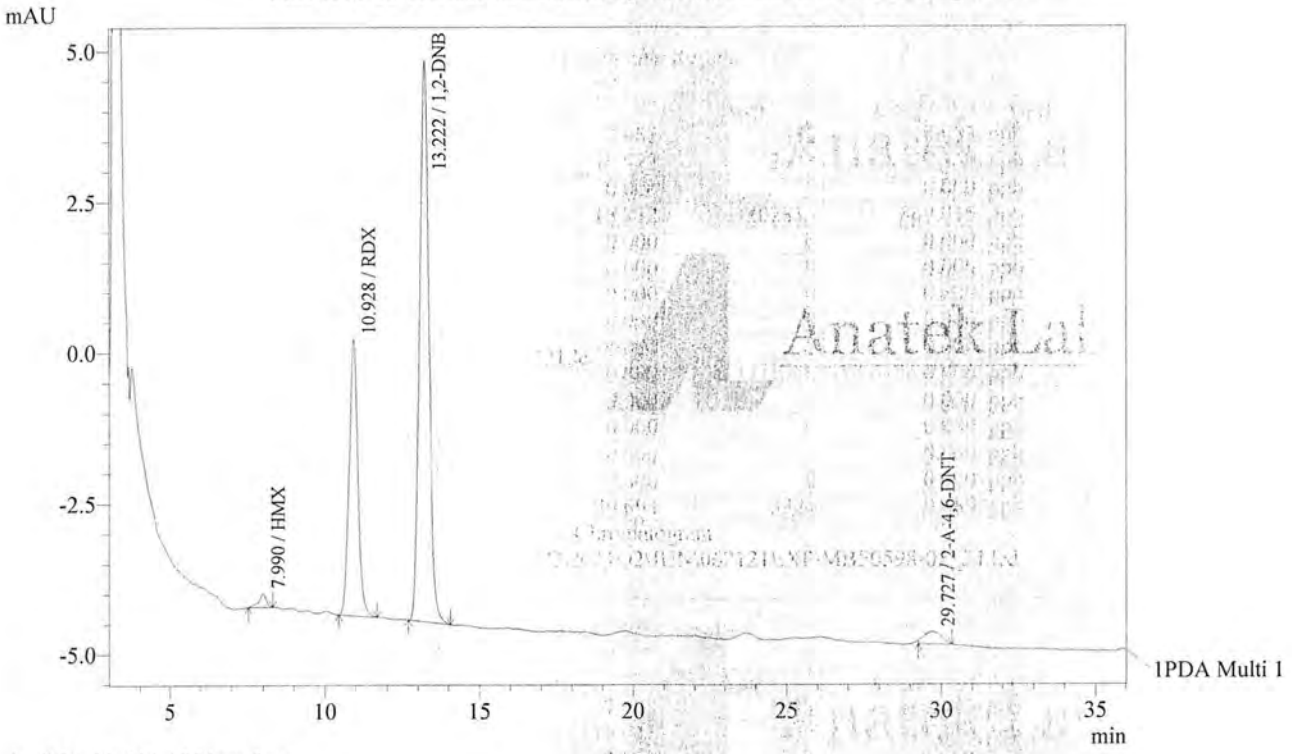
Anatek Labs, Inc.

Sample Information

Acquired by	: Admin
Sample Name	: MBF0598-02
Sample ID	:
Vail#	: 27
Injection Volume	: 100 uL
Data Filename	: MBF0598-02_34.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 11:50:07 AM
Data Processed	: 7/23/2021 9:59:57 AM
Dilution Factor	:1

Chromatogram

MBF0598-02 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0598-02_34.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.990	4035	* 30.973	ppb	
RDX	10.928	89912	643.403	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.222	199507	855.734	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	29.727	8165	* 23.449	ppb	V

* See RT table. HMX & 2-A-4,6-DNT RT doesn't agree w/ QC. ND.
MEK 7/24/21

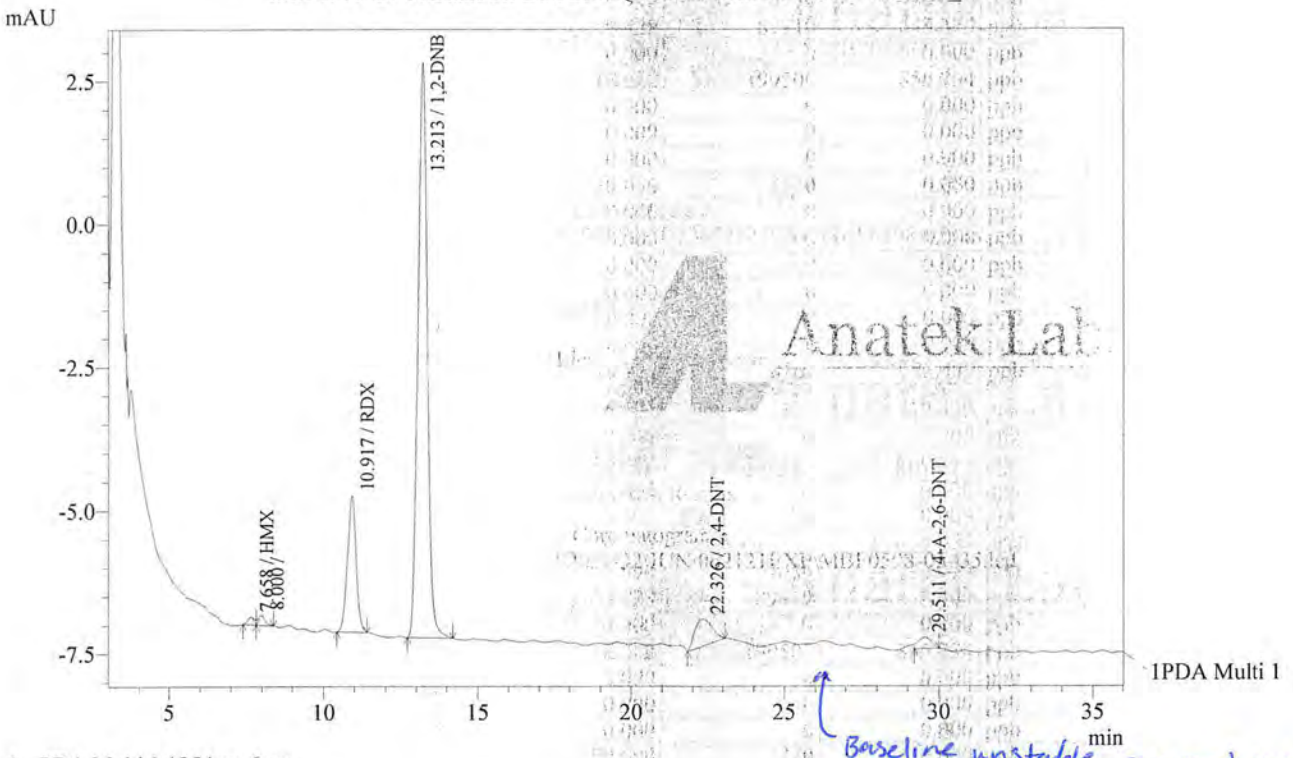
Sample Information

Acquired by	: Admin
Sample Name	: MBF0598-03
Sample ID	:
Vail#	: 28
Injection Volume	: 100 uL
Data Filename	: MBF0598-03_35.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 12:27:07 PM
Data Processed	: 7/23/2021 10:00:55 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0598-03 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0598-03_35.lcd



1 PDA Multi 1 / 254nm 6nm

Baseline unstable, 2,4-DNT & 4-A-2,6-DNT ND
MDR 7/23/21

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.658	2238	17.183	ppb	
RDX	10.917	46422	332.193	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.213	217233	931.768	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	22.326	19240	43.007	ppb	
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	29.511	5931	28.338	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

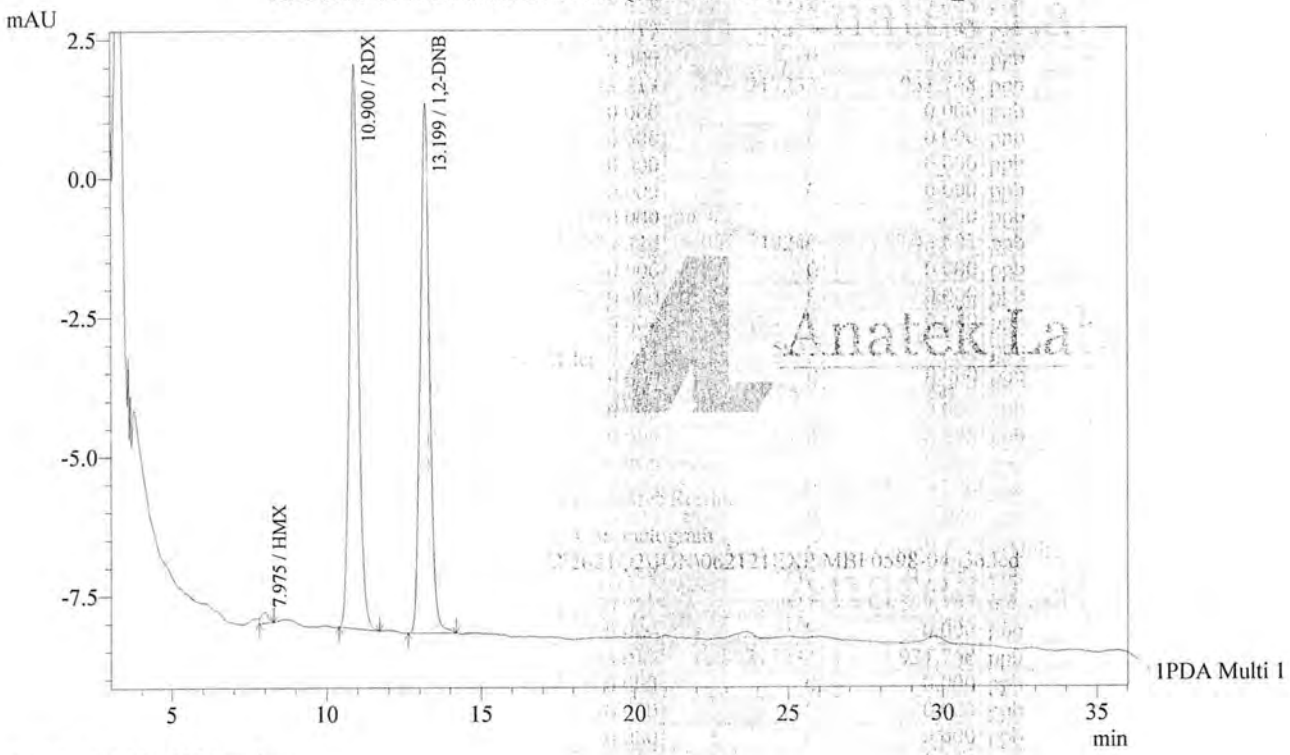
Sample Information

Acquired by	: Admin
Sample Name	: MBF0598-04
Sample ID	:
Vail#	: 29
Injection Volume	: 100 uL
Data Filename	: MBF0598-04_36.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 1:04:04 PM
Data Processed	: 7/23/2021 10:01:50 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0598-04 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0598-04_36.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.975	3130	* 24.029	ppb	V
RDX	10.900	202812	1451.302	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.199	208190	892.978	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

* See RT table. HMX RT doesn't agree w/ QC. ND.
MEK 7/26/21

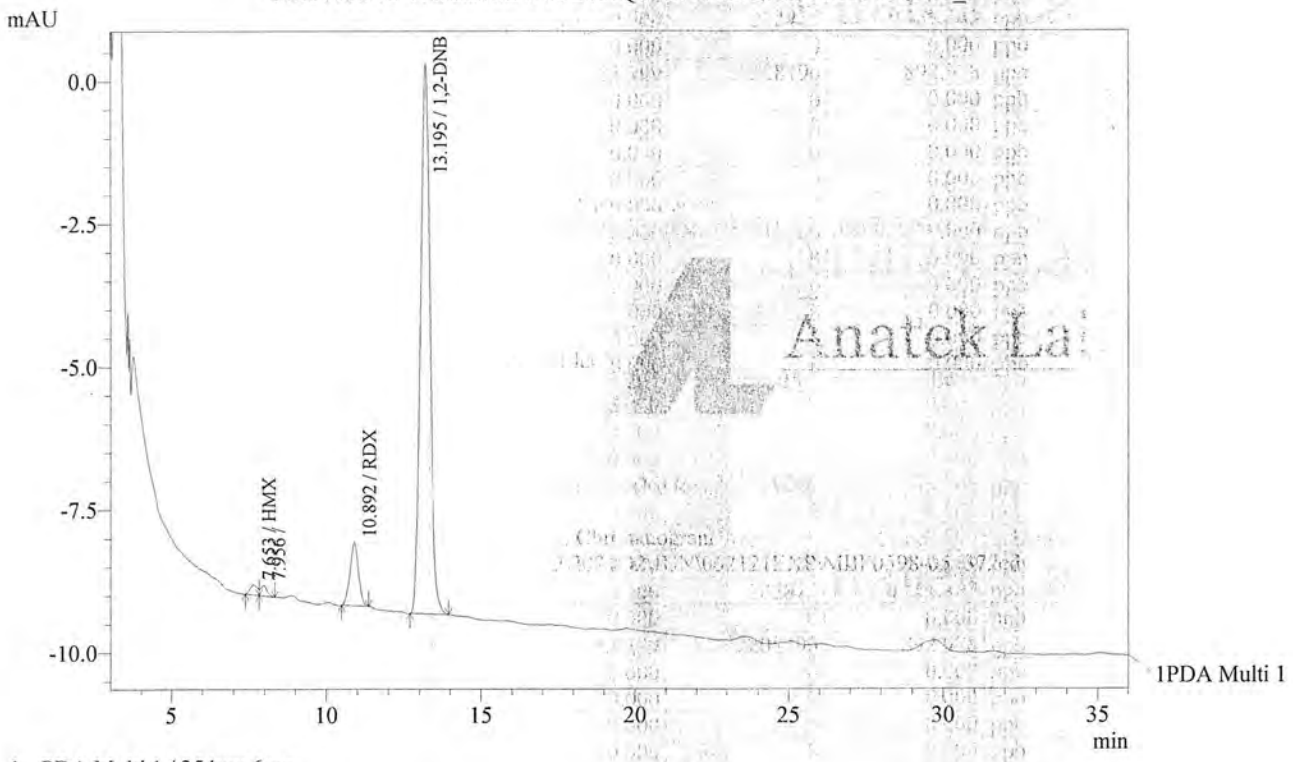
Sample Information

Acquired by	: Admin
Sample Name	: MBF0598-05
Sample ID	:
Vail#	: 30
Injection Volume	: 100 uL
Data Filename	: MBF0598-05_37.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 1:41:00 PM
Data Processed	: 7/23/2021 10:02:43 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0598-05 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0598-05_37.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.653	2882	22.122	ppb	
RDX	10.892	21014	150.370	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.195	207397	889.580	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

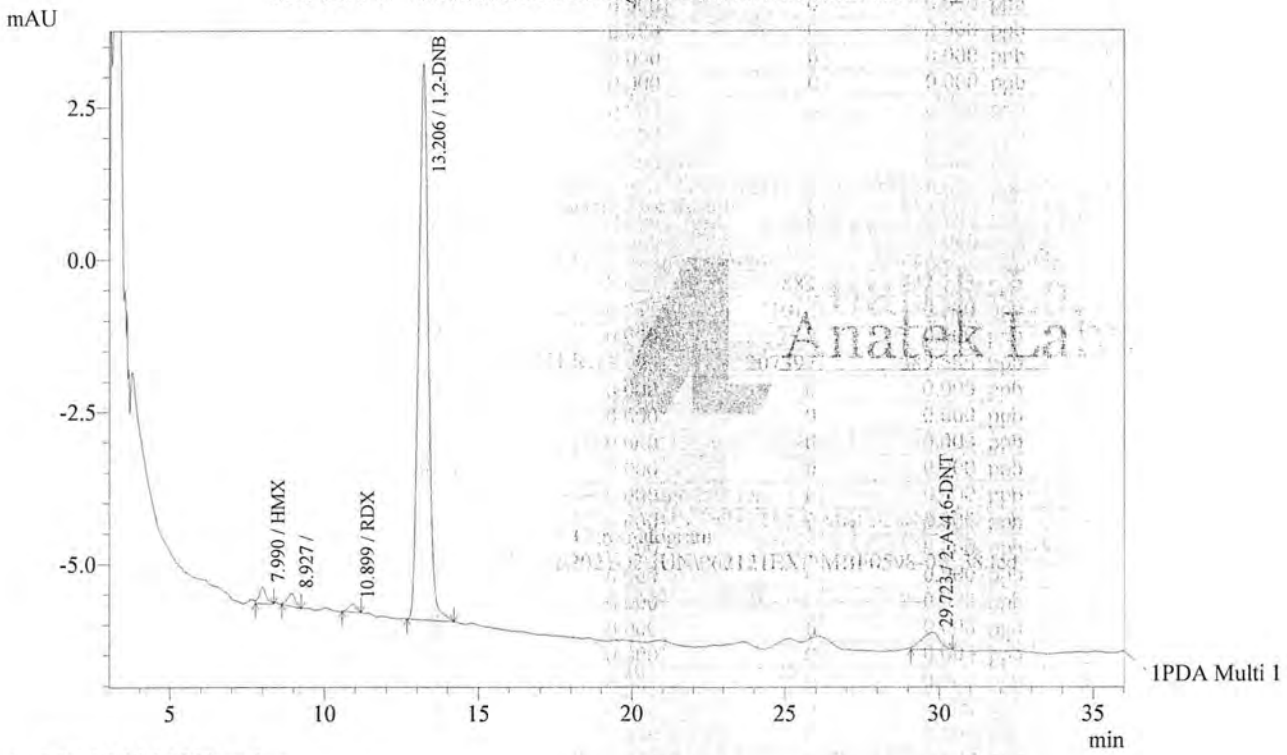
Sample Information

Acquired by	: Admin
Sample Name	: MBF0598-07
Sample ID	:
Vail#	: 31
Injection Volume	: 100 uL
Data Filename	: MBF0598-07_38.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcr
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 2:17:57 PM
Data Processed	: 7/23/2021 10:03:40 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

MBF0598-07 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\MBF0598-07_38.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.990	4239	* 32.540	ppb	V
RDX	10.899	2275	16.282	ppb	
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.206	201700	865.144	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	29.723	11946	* 34.306	ppb	V

* See RT table. HMX & 2-A-4,6-DNT RT doesn't agree w/ QC. ND.

MCR 7/26/21

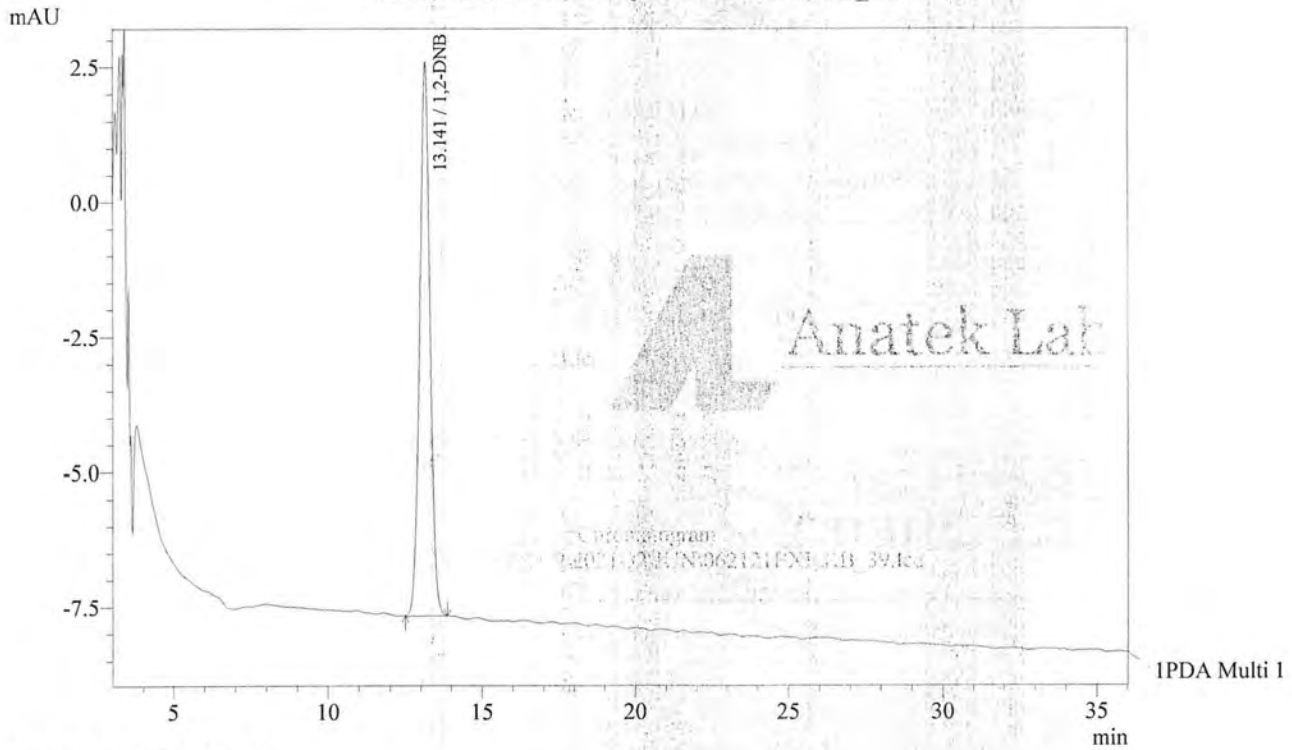
Sample Information

Acquired by	: Admin
Sample Name	: RB
Sample ID	:
Vail#	: 7
Injection Volume	: 100 uL
Data Filename	: RB_39.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 2:54:56 PM
Data Processed	: 7/23/2021 10:04:38 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

RB T:\Data6\HPLC2\2021Q2\JUN\062121EXP\RB_39.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	0.000	0	0.000	ppb	V
RDX	0.000	0	0.000	ppb	V
1,3,5-TNB	0.000	0	0.000	ppb	V
1,2-DNB	13.141	237894	1020.387	ppb	
1,3-DNB	0.000	0	0.000	ppb	V
NB	0.000	0	0.000	ppb	V
2,4,6-TNT	0.000	0	0.000	ppb	V
TETRYL	0.000	0	0.000	ppb	V
2,6-DNT	0.000	0	0.000	ppb	V
2,4-DNT	0.000	0	0.000	ppb	V
2-NT	0.000	0	0.000	ppb	V
4-NT	0.000	0	0.000	ppb	V
3-NT	0.000	0	0.000	ppb	V
4-A-2,6-DNT	0.000	0	0.000	ppb	V
2-A-4,6-DNT	0.000	0	0.000	ppb	V

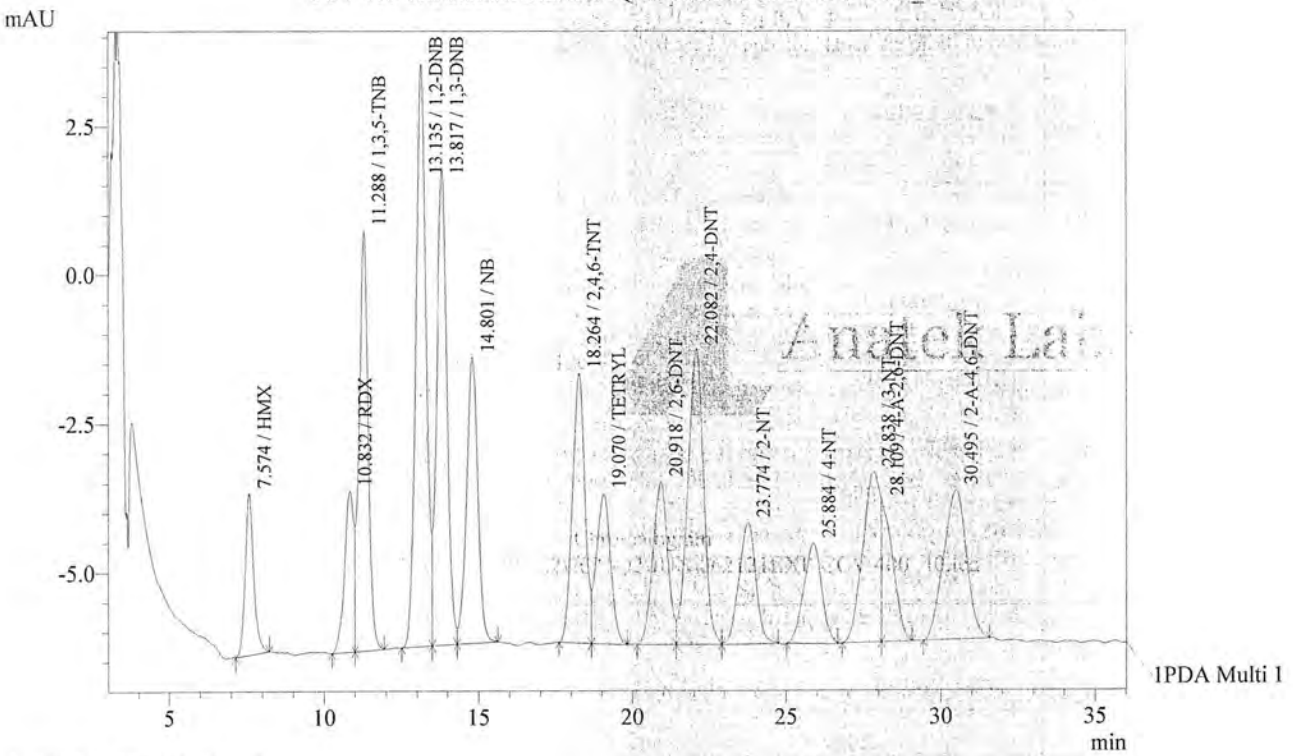
Sample Information

Acquired by	: Admin
Sample Name	: CCV 400
Sample ID	:
Vail#	: 4
Injection Volume	: 100 uL
Data Filename	: CCV 400_40.lcd
Method Filename	: 8330_E2_250mm_51B%_051221.lcı
Batch Filename	: 062121EXPDR3.lcb
Report Filename	: 8330.lcr
Date Acquired	: 6/22/2021 3:31:50 PM
Data Processed	: 7/23/2021 10:05:35 AM
Dilution Factor	:1

Anatek Labs, Inc.

Chromatogram

CCV 400 T:\Data6\HPLC2\2021Q2\JUN\062121EXP\CCV 400_40.lcd



1 PDA Multi 1 / 254nm 6nm

Quantitative Results

PDA

Name	Ret. Time	Area	Conc.	Units	ManInt?
HMX	7.574	52159	400.384	ppb	
RDX	10.832	56754	406.128	ppb	
1,3,5-TNB	11.288	143753	374.109	ppb	V
1,2-DNB	13.135	227266	974.801	ppb	
1,3-DNB	13.817	188819	387.760	ppb	V
NB	14.801	122398	381.411	ppb	SV
2,4,6-TNT	18.264	131809	388.800	ppb	
TETRYL	19.070	81334	315.499	ppb	V
2,6-DNT	20.918	92906	391.982	ppb	
2,4-DNT	22.082	177751	397.316	ppb	V
2-NT	23.774	78384	388.295	ppb	SV
4-NT	25.884	68742	383.478	ppb	
3-NT	27.838	112459	429.134	ppb	
4-A-2,6-DNT	28.109	58879	281.341	ppb	V
2-A-4,6-DNT	30.495	129739	372.578	ppb	

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form Methods: EPA 331/6850

Initial Calibration and CCV Standard Number: 2101958
Initial Calibration and CCV Standard Concentration: 100 ppb
Initial Calibration and CCV Standard Expiration Date: 6/22

Laboratory Fortified Synthetic Sample Matrix Spiking Standard Number: 2101958
Matrix Spiking Standard Concentration: 100 ppb
Matrix Spiking Standards Expiration Dates: 6/22

Initial Calibration Verification (ICV) Standard: 2100221
Initial Calibration Verification (ICV) Stock Standard Concentration: 16.0 ppb
Initial Calibration Verification Expiration Date: 1/22

Internal Standard Number: 2101956
Internal Standard Concentration: 100 ppb
Internal Standard Expiration Date: 6/22

Initial Calibration Dilution Template (minimum of 5 calibration points)

Desired Concentration (ppb)	Stock Concentration (ppb)	Standard Added (uL)	IS Added (uL)	H_2O Added (uL)	Final Volume (mL)
Blank	0	0	50	1000	1.00
LFSSM	100	50	50	950**	1.00
LSSM	0	0	50	1000**	1.00
50	100	500	50	500	1.00
20	100	200	50	800	1.00
10	100	100	50	900	1.00
5	100	50	50	950	1.00
0.5	100	5	50	995	1.00
0.1	100	1	50	999	1.00
0.05	100	0.5	50	1000	1.00
ICV	16	1000	50	0	1.00

Note: * LSSM solution (2003755) used not H_2O. LSSM solution consists of 1000 mg/L of NaCl, Na_2SO_4, $NaHCO_3$

Solution Prepared:

✓ ICAL Standards
✓ ICV
✓ LFSSM
✓ LSSM

6/23/2021
BBF0789

Analyst: MOK Date of Preparation: 6/23/2021

DW & WW Sample Preparation Log DATE 6/23/2021 ANALYST MBF

Methods: EPA 331.0/6850 –Perchlorate
Solvent: Water
Instrument: LC-MS-MS
Ext. Method: Direct injection

Internal Standard (IS)	Solution #	Concentration (ppb)	Expiration Date
Perchlorate $-Cl^{18}O_4^-$	2101956	100	6/2022
Continuing Cal Verification (CCV)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate	2101958	100	6/2022
Matrix Spiking Info (MS/MSD)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate	2101958	100	6/2022
Quality Control Std (QCS)	**Solution #**	**Concentration (ppb)**	**Expiration Date**
Perchlorate ICV	2100221	16	1/18/2022

Sample #	Sample Added (uL)	ICAL Standard Added (uL)	IS Added (uL)	H_2O Added (uL)	Final Volume (ml)	Dilution factor
BBF0789-BLK1	0	0	50	1000	1.00	1
BBF0789-BS1 (5 ppb)	0	50	50	950	1.00	1
LFSSM (5 ppb)	0	50	50	950*	1.00	1
LSSM	1000	0	50	1000*	1.00	1
BBF0789-MRL1	1000	0.5	50	1000	1.00	1
BBF0789-MS1	1000	50	50	0	1.00	1
BBF0789-MSD1	1000	50	50	0	1.00	1
MBF0547-01	1000	0	50	0	1.00	1
MBF0547-02	1000	0	50	0	1.00	1
MBF0547-03	1000	0	50	0	1.00	1
MBF0547-04	1000	0	50	0	1.00	1
MBF0547-05	1000	0	50	0	1.00	1
MBF0547-06	1000	0	50	0	1.00	1
MBF0547-07	1000	0	50	0	1.00	1
MBF0547-08	1000	0	50	0	1.00	1
MBF0547-09	1000	0	50	0	1.00	1
MBF0547-10	1000	0	50	0	1.00	1
MBF0547-11	1000	0	50	0	1.00	1
MBF0547-12	1000	0	50	0	1.00	1
* MBF0598-01	1000	0	50	0	1.00	1
MBF0598-02	1000	0	50	0	1.00	1
MBF0598-03	1000	0	50	0	1.00	1
MBF0598-04	1000	0	50	0	1.00	1
MBF0598-05	1000	0	50	0	1.00	1
MBF0598-07	1000	0	50	0	1.00	1
MBF0615-01	1000	0	50	0	1.00	1
MBF0615-02	1000	0	50	0	1.00	1

Note: * LSSM solution (2003755) used not H_2O. LSSM solution consists of 1000 mg/L of NaCl, Na_2SO_4, $NaHCO_3$

Pipettes: 20-200 uL: PL-01
100-1000 uL: PL-02

* over cal. 20x dilution prepared using 50µl sample 950µl DI, 50µl IS. MBF 6/28/2021

PREPARATION BENCH SHEET
Organics

BBF0789

Print Date/Time: 06/28/2021 2:30 pm

Matrix: Water

Prepared using: Inorganics - Perchlorate

Analyses
Perchlorate 331.0
Perchlorate 6850

Spiking Solution(s)
2101958 Perc 100 ppb

Surrogate Solution(s)

Lab Number	Source ID	ResCl	pH	Prepared	Initial (mL)	Final (mL)	ul Spike 1	ul Surr 1	ul Spike 2	ul Surr 2	Extraction Comments
BBF0789-BLK1	-			6/23/21 14:28							
BBF0789-BS1	-			6/23/21 14:28			50				
BBF0789-MRL1	-			6/23/21 14:28			0.5				
BBF0789-MS1	MBF0547-01			6/23/21 14:28			50				
BBF0789-MSD1	MBF0547-01			6/23/21 14:28			50				
MBF0547-01				6/23/21 14:28							Added for BatchQC in: BBF0789
MBF0547-01				6/23/21 14:28							
MBF0547-02				6/23/21 14:28							
MBF0547-03				6/23/21 14:28							
MBF0547-04				6/23/21 14:28							
MBF0547-05				6/23/21 14:28							
MBF0547-06				6/23/21 14:28							
MBF0547-07				6/23/21 14:28							
MBF0547-08				6/23/21 14:28							
MBF0547-09				6/23/21 14:28							
MBF0547-10				6/23/21 14:28							
MBF0547-11				6/23/21 14:28							
MBF0547-12				6/23/21 14:28							
MBF0598-01				6/23/21 14:28							
MBF0598-02				6/23/21 14:28							
MBF0598-03				6/23/21 14:28							
MBF0598-04				6/23/21 14:28							
MBF0598-05				6/23/21 14:28							

PREPARATION BENCH SHEET
Organics

Print Date/Time: 06/28/2021 2:30 pm

BBF0789

(Continued)

Matrix: Water

Prepared using: Inorganics - Perchlorate

Analyses
Perchlorate 331.0
Perchlorate 6850

Spiking Solution(s)
2101958 Perc 100 ppb

Surrogate Solution(s)

Lab Number	Source ID	ResCl	pH	Prepared	Initial (mL)	Final (mL)	ul Spike 1	ul Surr 1	ul Spike 2	ul Surr 2	Extraction Comments
MBF0598-07				6/23/21 14:28							
MBF0615-01				6/23/21 14:28							
MBF0615-02				6/23/21 14:28							

Analytical Run Date: _____

Support Equipment: PL-01 PL-02

Reagents

Standard	Description	LotNum
2003754	Methylamine Solution 40% in H2O	SHBF2399V
2003755	LSSM for EPA 331	A340-04

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
1	50 ppb ICAL	Standard	6/25/2021 10:43:	062521_perc	1.00	Perc C37	2.43e+005	50.0	3.30e+004	49.8	99.7
2	50 ppb ICAL	Standard	6/25/2021 10:43:	062521_perc	1.00	Perc C35	8.97e+005	50.0	3.30e+004	49.9	99.7
3	20 ppb ICAL	Standard	6/25/2021 10:50:	062521_perc	1.00	Perc C37	9.69e+004	20.0	3.08e+004	20.5	103.
4	20 ppb ICAL	Standard	6/25/2021 10:50:	062521_perc	1.00	Perc C35	3.55e+005	20.0	3.08e+004	20.5	103.
5	10 ppb ICAL	Standard	6/25/2021 10:58:	062521_perc	1.00	Perc C37	6.60e+004	10.0	4.45e+004	9.58	95.8
6	10 ppb ICAL	Standard	6/25/2021 10:58:	062521_perc	1.00	Perc C35	2.44e+005	10.0	4.45e+004	9.68	96.8
7	5 ppb ICAL	Standard	6/25/2021 11:05:	062521_perc	1.00	Perc C37	2.81e+004	5.00	3.54e+004	5.10	102.
8	5 ppb ICAL	Standard	6/25/2021 11:05:	062521_perc	1.00	Perc C35	1.02e+005	5.00	3.54e+004	5.07	101.
9	0.5 ppb ICAL	Standard	6/25/2021 11:12:	062521_perc	1.00	Perc C37	2.91e+003	0.500	4.51e+004	0.418	83.6
10	0.5 ppb ICAL	Standard	6/25/2021 11:12:	062521_perc	1.00	Perc C35	9.80e+003	0.500	4.51e+004	0.394	78.8
11	0.1 ppb ICAL	Standard	6/25/2021 11:19:	062521_perc	1.00	Perc C37	7.00e+002	0.100	4.59e+004	0.103	103.
12	0.1 ppb ICAL	Standard	6/25/2021 11:19:	062521_perc	1.00	Perc C35	2.32e+003	0.100	4.59e+004	0.103	103.
13	0.05 ppb ICAL	Standard	6/25/2021 11:27:	062521_perc	1.00	Perc C37	4.04e+002	0.0500	5.08e+004	0.0565	113.
14	0.05 ppb ICAL	Standard	6/25/2021 11:27:	062521_perc	1.00	Perc C35	1.30e+003	0.0500	5.08e+004	0.0591	118.
15	16 ppb ICV	Quality C	6/25/2021 11:34:	062521_perc	1.00	Perc C37	1.17e+005	16.0	4.92e+004	15.5	96.9
16	16 ppb ICV	Quality C	6/25/2021 11:34:	062521_perc	1.00	Perc C35	4.37e+005	16.0	4.92e+004	15.8	98.5
17	LFSSM	Quality C	6/25/2021 11:41:	062521_perc	1.00	Perc C37	3.70e+004	5.00	4.68e+004	5.08	102.
18	LFSSM	Quality C	6/25/2021 11:41:	062521_perc	1.00	Perc C35	1.34e+005	5.00	4.68e+004	5.05	101.
19	LSSM	Unknown	6/25/2021 11:49:	062521_perc	1.00	Perc C37	0.00e+000	N/A	5.82e+004	No Peak	N/A
20	LSSM	Unknown	6/25/2021 11:49:	062521_perc	1.00	Perc C35	0.00e+000	N/A	5.82e+004	No Peak	N/A
21	RINSE	Unknown	6/25/2021 11:56:	062521_perc	1.00	Perc C37	0.00e+000	N/A	7.46e+004	No Peak	N/A
22	RINSE	Unknown	6/25/2021 11:56:	062521_perc	1.00	Perc C35	0.00e+000	N/A	7.46e+004	No Peak	N/A
23	BBF0789-BLK1	Unknown	6/25/2021 12:03:	062521_perc	1.00	Perc C37	0.00e+000	N/A	7.73e+004	No Peak	N/A
24	BBF0789-BLK1	Unknown	6/25/2021 12:03:	062521_perc	1.00	Perc C35	0.00e+000	N/A	7.73e+004	No Peak	N/A
25	BBF0789-BS1	Quality C	6/25/2021 12:10:	062521_perc	1.00	Perc C37	5.94e+004	5.00	7.65e+004	4.99	99.9
26	BBF0789-BS1	Quality C	6/25/2021 12:10:	062521_perc	1.00	Perc C35	2.18e+005	5.00	7.65e+004	5.03	101.
27	BBF0789-MRL1	Quality C	6/25/2021 12:18:	062521_perc	1.00	Perc C37	6.02e+002	0.0500	7.47e+004	0.0572	114.
28	BBF0789-MRL1	Quality C	6/25/2021 12:18:	062521_perc	1.00	Perc C35	2.14e+003	0.0500	7.47e+004	0.0645	129.
29	BBF0789-MS1	Quality C	6/25/2021 12:25:	062521_perc	1.00	Perc C37	5.99e+004	5.00	7.56e+004	5.09	102.
30	BBF0789-MS1	Quality C	6/25/2021 12:25:	062521_perc	1.00	Perc C35	2.21e+005	5.00	7.56e+004	5.14	103.

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
31	BBF0789-MSD1	Quality C	6/25/2021 12:32:	062521_perc	1.00	Perc C37	6.07e+004	5.00	7.91e+004	4.93	98.6
32	BBF0789-MSD1	Quality C	6/25/2021 12:32:	062521_perc	1.00	Perc C35	2.25e+005	5.00	7.91e+004	5.00	100.
33	MBF0547-01	Unknown	6/25/2021 12:40:	062521_perc	1.00	Perc C37	7.84e+002	N/A	7.48e+004	0.0726	N/A
34	MBF0547-01	Unknown	6/25/2021 12:40:	062521_perc	1.00	Perc C35	3.87e+003	N/A	7.48e+004	0.105	N/A
35	MBF0547-02	Unknown	6/25/2021 12:47:	062521_perc	1.00	Perc C37	1.41e+003	N/A	7.78e+004	0.122	N/A
36	MBF0547-02	Unknown	6/25/2021 12:47:	062521_perc	1.00	Perc C35	4.91e+003	N/A	7.78e+004	0.125	N/A
37	MBF0547-03	Unknown	6/25/2021 12:54:	062521_perc	1.00	Perc C37	5.59e+002	N/A	7.83e+004	0.0513	N/A
38	MBF0547-03	Unknown	6/25/2021 12:54:	062521_perc	1.00	Perc C35	4.22e+003	N/A	7.83e+004	0.109	N/A
39	MBF0547-04	Unknown	6/25/2021 1:01:5	062521_perc	1.00	Perc C37	6.96e+002	N/A	7.85e+004	0.0623	N/A
40	MBF0547-04	Unknown	6/25/2021 1:01:5	062521_perc	1.00	Perc C35	3.75e+003	N/A	7.85e+004	0.0977	N/A
41	MBF0547-05	Unknown	6/25/2021 1:09:1	062521_perc	1.00	Perc C37	1.03e+003	N/A	8.06e+004	0.0875	N/A
42	MBF0547-05	Unknown	6/25/2021 1:09:1	062521_perc	1.00	Perc C35	4.96e+003	N/A	8.06e+004	0.122	N/A
43	MBF0547-06	Unknown	6/25/2021 1:16:2	062521_perc	1.00	Perc C37	1.01e+003	N/A	8.12e+004	0.0851	N/A
44	MBF0547-06	Unknown	6/25/2021 1:16:2	062521_perc	1.00	Perc C35	4.97e+003	N/A	8.12e+004	0.121	N/A
45	MBF0547-07	Unknown	6/25/2021 1:23:4	062521_perc	1.00	Perc C37	6.24e+002	N/A	7.85e+004	0.0565	N/A
46	MBF0547-07	Unknown	6/25/2021 1:23:4	062521_perc	1.00	Perc C35	4.32e+003	N/A	7.85e+004	0.111	N/A
47	MBF0547-08	Unknown	6/25/2021 1:31:0	062521_perc	1.00	Perc C37	2.73e+003	N/A	6.94e+004	0.257	N/A
48	MBF0547-08	Unknown	6/25/2021 1:31:0	062521_perc	1.00	Perc C35	1.09e+004	N/A	6.94e+004	0.289	N/A
49	MBF0547-09	Unknown	6/25/2021 1:38:2	062521_perc	1.00	Perc C37	2.07e+004	N/A	8.21e+004	1.62	N/A
50	MBF0547-09	Unknown	6/25/2021 1:38:2	062521_perc	1.00	Perc C35	7.70e+004	N/A	8.21e+004	1.65	N/A
51	MBF0547-10	Unknown	6/25/2021 1:45:3	062521_perc	1.00	Perc C37	1.29e+003	N/A	8.39e+004	0.104	N/A
52	MBF0547-10	Unknown	6/25/2021 1:45:3	062521_perc	1.00	Perc C35	5.83e+003	N/A	8.39e+004	0.136	N/A
53	CCV 0.5 ppb	Quality C	6/25/2021 1:52:5	062521_perc	1.00	Perc C37	4.76e+003	0.500	8.07e+004	0.382	76.4
54	CCV 0.5 ppb	Quality C	6/25/2021 1:52:5	062521_perc	1.00	Perc C35	1.73e+004	0.500	8.07e+004	0.390	77.9
55	MBF0547-11	Unknown	6/25/2021 2:00:1	062521_perc	1.00	Perc C37	1.25e+003	N/A	7.91e+004	0.106	N/A
56	MBF0547-11	Unknown	6/25/2021 2:00:1	062521_perc	1.00	Perc C35	6.04e+003	N/A	7.91e+004	0.148	N/A
57	MBF0547-12	Unknown	6/25/2021 2:07:3	062521_perc	1.00	Perc C37	1.30e+003	N/A	8.12e+004	0.108	N/A
58	MBF0547-12	Unknown	6/25/2021 2:07:3	062521_perc	1.00	Perc C35	6.17e+003	N/A	8.12e+004	0.147	N/A
59	MBF0598-01	Unknown	6/25/2021 2:14:4	062521_perc	1.00	Perc C37	1.04e+006	N/A	6.30e+004	122.	N/A
60	MBF0598-01	Unknown	6/25/2021 2:14:4	062521_perc	1.00	Perc C35	3.74e+006	N/A	6.30e+004	117.	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
61	MBF0598-02	Unknown	6/25/2021 2:22:0	062521_perc	1.00	Perc C37	6.78e+005	N/A	7.18e+004	65.2	N/A
62	MBF0598-02	Unknown	6/25/2021 2:22:0	062521_perc	1.00	Perc C35	2.45e+006	N/A	7.18e+004	63.4	N/A
63	MBF0598-03	Unknown	6/25/2021 2:29:2	062521_perc	1.00	Perc C37	0.00e+000	N/A	0.00e+000	#DIV/0!	N/A
64	MBF0598-03	Unknown	6/25/2021 2:29:2	062521_perc	1.00	Perc C35	0.00e+000	N/A	0.00e+000	#DIV/0!	N/A
65	MBF0598-04	Unknown	6/25/2021 2:36:4	062521_perc	1.00	Perc C37	1.92e+005	N/A	3.33e+005	3.71	N/A
66	MBF0598-04	Unknown	6/25/2021 2:36:4	062521_perc	1.00	Perc C35	7.03e+005	N/A	3.33e+005	3.71	N/A
67	CCV 0.5 ppb	Quality C	6/25/2021 3:28:1	062521_perc	1.00	Perc C37	5.19e+003	0.500	8.64e+004	0.389	77.8
68	CCV 0.5 ppb	Quality C	6/25/2021 3:28:1	062521_perc	1.00	Perc C35	1.77e+004	0.500	8.64e+004	0.373	74.6
69	CCV 0.5 ppb	Quality C	6/25/2021 3:37:2	062521_perc	1.00	Perc C37	5.70e+003	0.500	9.26e+004	0.399	79.8
70	CCV 0.5 ppb	Quality C	6/25/2021 3:37:2	062521_perc	1.00	Perc C35	1.98e+004	0.500	9.26e+004	0.389	77.7
71	MBF0598-03	Unknown	6/25/2021 3:44:4	062521_perc	1.00	Perc C37	2.60e+005	N/A	4.58e+005	3.65	N/A
72	MBF0598-03	Unknown	6/25/2021 3:44:4	062521_perc	1.00	Perc C35	9.47e+005	N/A	4.58e+005	3.64	N/A
73	MBF0598-04	Unknown	6/25/2021 3:51:5	062521_perc	1.00	Perc C37	2.05e+006	N/A	6.83e+004	292.	N/A
74	MBF0598-04	Unknown	6/25/2021 3:51:5	062521_perc	1.00	Perc C35	7.29e+006	N/A	6.83e+004	246.	N/A
75	MBF0598-05	Unknown	6/25/2021 3:59:1	062521_perc	1.00	Perc C37	7.08e+005	N/A	8.47e+004	57.2	N/A
76	MBF0598-05	Unknown	6/25/2021 3:59:1	062521_perc	1.00	Perc C35	2.54e+006	N/A	8.47e+004	55.5	N/A
77	MBF0598-07	Unknown	6/25/2021 4:06:3	062521_perc	1.00	Perc C37	1.18e+006	N/A	7.98e+004	108.	N/A
78	MBF0598-07	Unknown	6/25/2021 4:06:3	062521_perc	1.00	Perc C35	4.17e+006	N/A	7.98e+004	101.	N/A
79	MBF0615-01	Unknown	6/25/2021 4:13:5	062521_perc	1.00	Perc C37	8.96e+004	N/A	9.97e+004	5.78	N/A
80	MBF0615-01	Unknown	6/25/2021 4:13:5	062521_perc	1.00	Perc C35	3.27e+005	N/A	9.97e+004	5.77	N/A
81	MBF0615-02	Unknown	6/25/2021 4:21:0	062521_perc	1.00	Perc C37	6.33e+003	N/A	1.11e+005	0.371	N/A
82	MBF0615-02	Unknown	6/25/2021 4:21:0	062521_perc	1.00	Perc C35	2.37e+004	N/A	1.11e+005	0.387	N/A
83	CCV 0.5 ppb	Quality C	6/25/2021 4:28:2	062521_perc	1.00	Perc C37	5.75e+003	0.500	1.02e+005	0.366	73.2
84	CCV 0.5 ppb	Quality C	6/25/2021 4:28:2	062521_perc	1.00	Perc C35	2.19e+004	0.500	1.02e+005	0.390	78.0
85	MBF0598-01@20	Unknown	6/25/2021 4:35:4	062521_perc	1.00	Perc C37	8.84e+004	N/A	1.04e+005	5.44	N/A
86	MBF0598-01@20	Unknown	6/25/2021 4:35:4	062521_perc	1.00	Perc C35	3.20e+005	N/A	1.04e+005	5.40	N/A
87	MBF0598-02@20	Unknown	6/25/2021 4:42:5	062521_perc	1.00	Perc C37	4.84e+004	N/A	9.67e+004	3.21	N/A
88	MBF0598-02@20	Unknown	6/25/2021 4:42:5	062521_perc	1.00	Perc C35	1.79e+005	N/A	9.67e+004	3.25	N/A
89	MBF0598-03@20	Unknown	6/25/2021 4:50:1	062521_perc	1.00	Perc C37	1.63e+004	N/A	9.91e+004	1.06	N/A
90	MBF0598-03@20	Unknown	6/25/2021 4:50:1	062521_perc	1.00	Perc C35	5.88e+004	N/A	9.91e+004	1.05	N/A

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
91	MBF0598-04@20	Unknown	6/25/2021 4:57:3	062521_perc	1.00	Perc C37	1.52e+005	N/A	9.79e+004	10.0	N/A
92	MBF0598-04@20	Unknown	6/25/2021 4:57:3	062521_perc	1.00	Perc C35	5.54e+005	N/A	9.79e+004	9.99	N/A
93	MBF0598-05@20	Unknown	6/25/2021 5:04:4	062521_perc	1.00	Perc C37	4.38e+004	N/A	1.01e+005	2.79	N/A
94	MBF0598-05@20	Unknown	6/25/2021 5:04:4	062521_perc	1.00	Perc C35	1.58e+005	N/A	1.01e+005	2.76	N/A
95	MBF0598-07@20	Unknown	6/25/2021 5:12:0	062521_perc	1.00	Perc C37	7.34e+004	N/A	9.70e+004	4.87	N/A
96	MBF0598-07@20	Unknown	6/25/2021 5:12:0	062521_perc	1.00	Perc C35	2.74e+005	N/A	9.70e+004	4.97	N/A
97	CCV 0.5 ppb	Quality C	6/25/2021 5:19:2	062521_perc	1.00	Perc C37	5.56e+003	0.500	9.62e+004	0.375	74.9
98	CCV 0.5 ppb	Quality C	6/25/2021 5:19:2	062521_perc	1.00	Perc C35	2.08e+004	0.500	9.62e+004	0.392	78.5

Sequence Name: T:\Data2\Voc\HP5975\2021 SEQ\210621.S
Comment:
Operator: TEC
Data Path: T:\DATA2\VOC\HP5975\2021 DATA\JUNE\21\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

ICAL JUN21.M
BATCH: BBF0706

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 1	-------- 8260PC30 rinse
2)	Sample 2	-------- 8260PC30 rinse
3)	Sample 3	-------- 8260PC30 rinse
4)	Sample 4	-------- 8260PC30 rinse
5)	Sample 5	-------- 8260PC30 0.5 ppb ical voc
6)	Sample 6	-------- 8260PC30 2.0 ppb ical voc
7)	Sample 7	-------- 8260PC30 5.0 ppb ical voc
8)	Sample 8	-------- 8260PC30 7.5 ppb ical voc
9)	Sample 9	-------- 8260PC30 10 ppb ical voc
10)	Sample 10	-------- 8260PC30 15 ppb ical voc
11)	Sample 11	-------- 8260PC30 20 ppb ical voc
12)	Sample 12	-------- 8260PC30 30 ppb ical voc
13)	Sample 13	-------- 8260PC30 rinse
14)	Sample 14	-------- 8260PC30 rinse
15)	Sample 15	-------- 8260PC30 rinse
16)	Sample 16	-------- 8260PC30 hcl blk
17)	Sample 17	-------- 8260PC30 10 ppb icv voc
18)	Sample 18	-------- 8260PC30 rinse
19)	Sample 19	-------- 8260PC30 rinse
20)	Sample 20	-------- 8260PC30 mbf0547-13
21)	Sample 21	-------- 8260PC30 mbf0547-01
22)	Sample 22	-------- 8260PC30 mbf0547-02
23)	Sample 23	-------- 8260PC30 mbf0547-03
24)	Sample 24	-------- 8260PC30 mbf0547-04
25)	Sample 25	-------- 8260PC30 mbf0547-05
26)	Sample 26	-------- 8260PC30 mbf0547-06
27)	Sample 27	-------- 8260PC30 mbf0547-07
28)	Sample 28	-------- 8260PC30 mbf0547-08
29)	Sample 29	-------- 8260PC30 mbf0547-09
30)	Sample 30	-------- 8260PC30 mbf0547-10
31)	Sample 31	-------- 8260PC30 mbf0547-11
32)	Sample 32	-------- 8260PC30 mbf0547-12
33)	Sample 33	-------- 8260PC30 ms mbf0547-10
34)	Sample 34	-------- 8260PC30 msd mbf0547-10
35)	Sample 35	-------- 8260PC30 rinse
36)	Sample 36	-------- 8260PC30 rinse
37)	Sample 37	-------- 8260PC30 rinse

Last Modified: Mon Jun 21 16:38:25 2021

QC Checklist for EPA 8260/624.1 - VOCs

Analysis Date: 6-21-21

☒	QC Parameter	Acceptance Criteria	Frequency	Notes
X	BFB Tune	See below		
X	Initial Calibration	90% must meet <20%RSD	At least 6 points	If regression is used, weight as 1/x, with $R^2 > 0.920$
X	Response Factor	Check against list on back		
X	Internal Standard	50-200% of mid-point CAL	All samples	
X	Surrogate Recovery	85-115%	All samples	Some >115%
X	ICV/QCS	70-130%	Each ICAL	
X	Blanks	No interferences	Every 20 samples	
	CCV	80% within ±20%	At beginning of run and every 12 hours.	
X	MS/MSD	See SOP for ranges	Every 20 samples	see below

X	Cal Prep Form Present			
X	pH/Chlorine checks	pH<2 THM Chlorine check	All samples	
NA	Dilutions Noted?			

Comments:

MS: Styrene: 28% rec, 1,3,5-trimethylbenzene 40.8% rec, 1,2,4-trimethylbenzene 43.7%
MSD: " " 36% rec, " " 47.6% rec, " " " " 51.2%

m/z	Required Intensity (relative abundance)
50	15 to 40% of *m/z* 95
75	30 to 60% of *m/z* 95
95	Base peak, 100% relative abundance
96	5 to 9% of *m/z* 95
173	Less than 2% of *m/z* 174
174	50 to 200% of *m/z* 95
175	5 to 9% of *m/z* 174
176	95% to 101% of *m/z* 174
177	5 to 9% of *m/z* 176

Analyst: TLC Checklist Completed Date: 6-22-21

Reviewed By: _____ *Date:* _____

Anatek Labs, Inc.

RF Factor Table for EPA 8260/624.1 - VOCs

Analyte	RF	Check if <	Analyte	RF	Check if <
1,1,1-Trichloroethane	0.05		Carbon tetrachloride	0.1	
1,1,2,2-Tetrachloroethane	0.2		Chlorobenzene	0.4	
1,1,2-Trichloroethane	0.2		Chlorodibromomethane	0.2	
1,1-Dichloroethane	0.3		Chloroethane (Ethyl chloride)	0.01	
1,1-Dichloroethylene	0.06		Chloroform	0.3	
1,2,3-Trichloropropane	0.4		cis-1,2-Dichloroethylene	0.2	
1,2,4-Trichlorobenzene	0.4		cis-1,3-Dichloropropene	0.3	
1,2-Dibromo-3-chloropropane (DBCP)	0.01		Ethylbenzene	0.4	
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.2		Isopropylbenzene	0.4	
1,2-Dichlorobenzene	0.6		m+p-xylene	0.2	
1,2-Dichloroethane (Ethylene dichloride)	0.07		Methyl bromide (Bromomethane)	0.01	
1,2-Dichloropropane	0.2		Methyl chloride (Chloromethane)	0.01	
1,3-Dichlorobenzene	0.5		Methyl tert-butyl ether (MTBE)	0.1	
1,4-Dichlorobenzene	0.6		o-Xylene	0.2	
2-Butanone (Methyl ethyl ketone, MEK)	0.01		Styrene	0.2	
2-Hexanone	0.01		Tetrachloroethylene (Perchloroethylene)	0.1	
4-Methyl-2-pentanone (MIBK)	0.03		Toluene	0.3	
Acetone	0.01		trans-1,2-Dichloroethylene	0.1	
Benzene	0.2		trans-1,3-Dichloropropylene	0.3	
Bromochloromethane	0.1		Trichloroethene (Trichloroethylene)	0.2	
Bromodichloromethane	0.3		Trichlorofluoromethane (Freon 11)	0.01	
Bromoform	0.1		Vinyl chloride	0.01	
Carbon disulfide	0.1				

Taken from Table 4, EPA Method 8260D

Anatek Labs, Inc
1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form

Method: EPA 8260/624.1

Initial Calibration and CCV Standard Number: 2101408
Initial Calibration and CCV Standard Concentration: 200 ug/mL
Initial Calibration and CCV Standard Expiration Date: 04\30/2023

Matrix Spiking Standard Number: 2101408
Matrix Spiking Standard Concentration: 200 ug/ml
Matrix Spiking Standards Expiration Dates: 04\30/2023

Initial Calibration Verification (ICV) Standard Number: V175-05 (2003311)
Initial Calibration Verification (ICV) Standard Concentration: 200 ug/ml
Initial Calibration Verification (ICV) Expiration Date: 12/31/2022

Internal Standard / Surrogate Standard Number: 2101428 (2101476 @ instrument)
Internal Standard / Surrogate Standard Concentration: 125 ug/ml
Internal Standard / Surrogate Standard Sample Concentration: Archon adds 125 ng to 5 ml
Expiration Date: 05/03/2023.

Initial Calibration Dilution Template (minimum of 5 calibration points)

Desired Concentration (ppb)	Stock Concentration (ppm)	uL Standard Added	Final Volume (mL)
30	200	15	100
20	200	10	100
15	200	3.75	50
10	200	5.0	100
5	200	2.5	100
2	200	1.0	100
0.5	10 ppb Cal std	5 ml	100
ICV 10	**200**	**5**	**100**

Add 2 drops of 1:1 HCl per 50mL to Standards, CCV, ICV, and Reagent Blanks.

Solution Prepared:

- X ICAL Standards
- X ICV
- ____ CCV
- X MS/MSD
- X pH check

pH paper reagent # R114-04

Analyst: TBL

Date of Preparation: 6-21-21

PREPARATION BENCH SHEET
Organics

BBF0706

Print Date/Time: 06/21/2021 4:30

Matrix: Water

Prepared using: VOC - VC

Analyses
VOC 8260
VOC Trip Blank 8260

Spiking Solution(s)
2003311 VOC Cal Mix 200ppm
2101408 VOC Cal Mix 200ppm

Surrogate Solution(s)
2101476 VOC 8260/624 IS/Surrogate Mix @ Instrument

Lab Number	Sample and Source ID	Date Due	Extract by	Prepared	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
BBF0706-BLK1	Blank			6/21/2021 4:23:00PM	5	5		1	
BBF0706-BS1	LCS			6/21/2021 4:23:00PM	5 50	5 50	2.5	1	
BBF0706-MRL1	MRL Check			6/21/2021 4:23:00PM	5	5	0.125	1	
BBF0706-MS1	Matrix Spike [MBF0547-10]			6/21/2021 4:23:00PM	5	5	2.5	1	
BBF0706-MSD1	Matrix Spike Dup [MBF0547-10]			6/21/2021 4:23:00PM	5	5	2.5	1	
MBF0547-01	02Q21LCMW09DW	06/29/2021	06/27/2021	6/21/2021 4:23:00PM	5 44	5 44		1	
MBF0547-02	02Q21LCMW09SW	06/29/2021	06/27/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-03	02Q21LCMW01DW	06/29/2021	06/27/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-04	02Q21LCMW01SW	06/29/2021	06/27/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-05	02Q21LCMW02DW	06/29/2021	06/27/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-06	02Q21LCMW02SW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-07	02Q21LCMW04DW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-08	02Q21LCMW04SW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-09	02Q21LCMW08BW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-10	02Q21LCMW03SW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-10	02Q21LCMW03SW		06/15/2021	6/21/2021 4:23:00PM	5	5		1	Added for BatchQC in: BBF0706
MBF0547-11	02Q21LCMW03DW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-12	02Q21LCMW14OW	06/29/2021	06/28/2021	6/21/2021 4:23:00PM	5	5		1	
MBF0547-13	061521TB	06/29/2021	06/29/2021	6/21/2021 4:23:00PM	5	5		1	

JEC 6-22-21 — 6-21-21
Analyst: Date — Run Date: Date

C:\Promium\Element\Print\bch_Organics_ls.rpt

PREPARATION BENCH SHEET
Organics

Print Date/Time: 06/21/2021 4:30 p

BBF0706

(Continued)

Matrix: Water

Prepared using: VOC - VOC

Analyses
VOC 8260
VOC Trip Blank 8260

Spiking Solution(s)

2003311	VOC Cal Mix 200ppm
2101408	VOC Cal Mix 200ppm

Surrogate Solution(s)

2101476	VOC 8260/624 IS/Surrogate Mix @ Instrument

P-Syringe(s) PM-07 5000 BAL-09

Reagents

Standard	Description	LotNum
2101586	HCl 1:1	-
2101792	Nitrogen Gas	052521
2102025	Helium - UHP	155-40212643 9-1

Analyst: _____ Date _____ Run Date: _____ Date _____

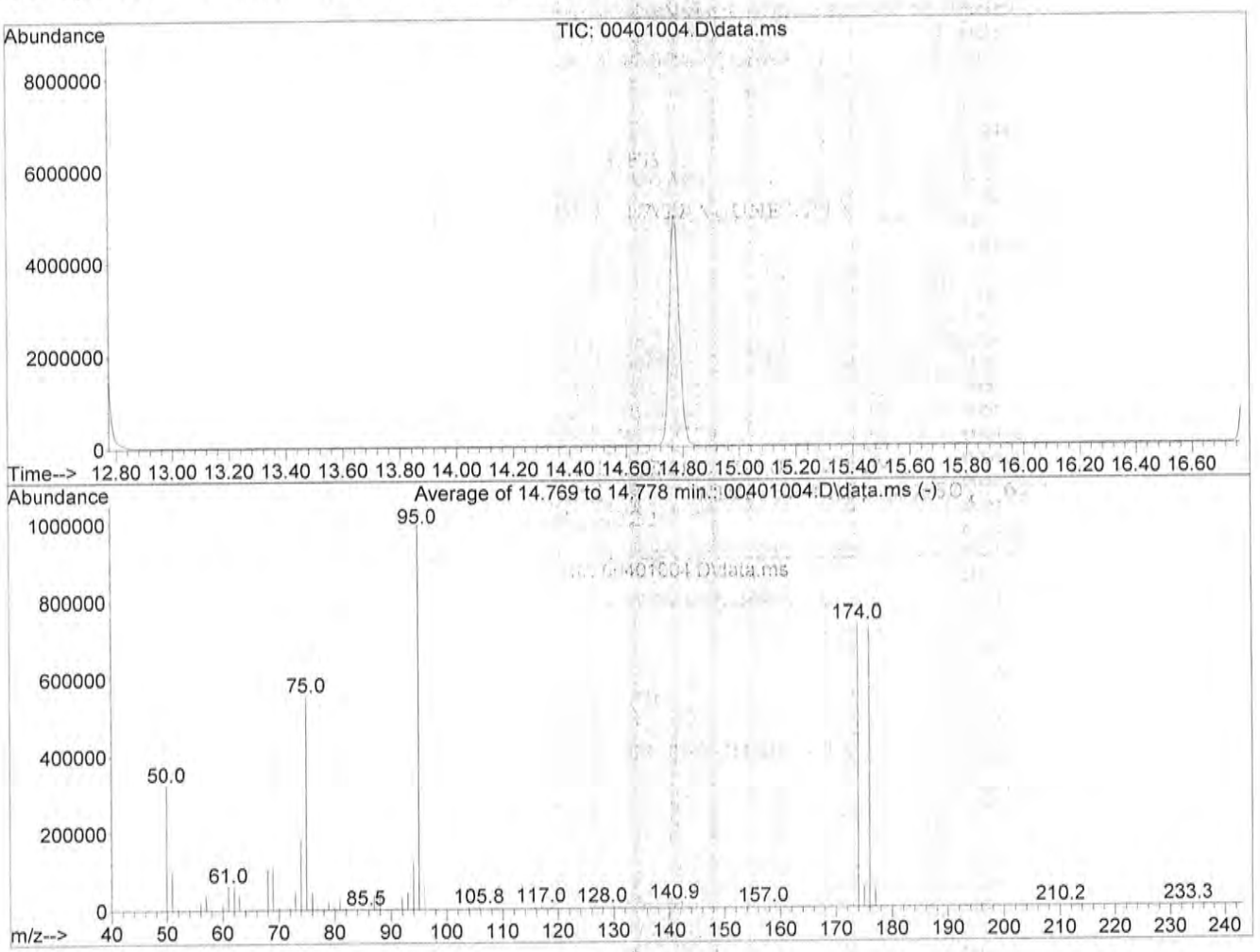
C:\Promium\Element\Print\bch_Organics_ls.rpt

BFB

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00401004.D
Acq On : 21 Jun 2021 10:18 am
Operator : TEC
Sample : rinse
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: rteint.p

Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
Last Update : Thu Jun 17 15:38:04 2021



AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2413

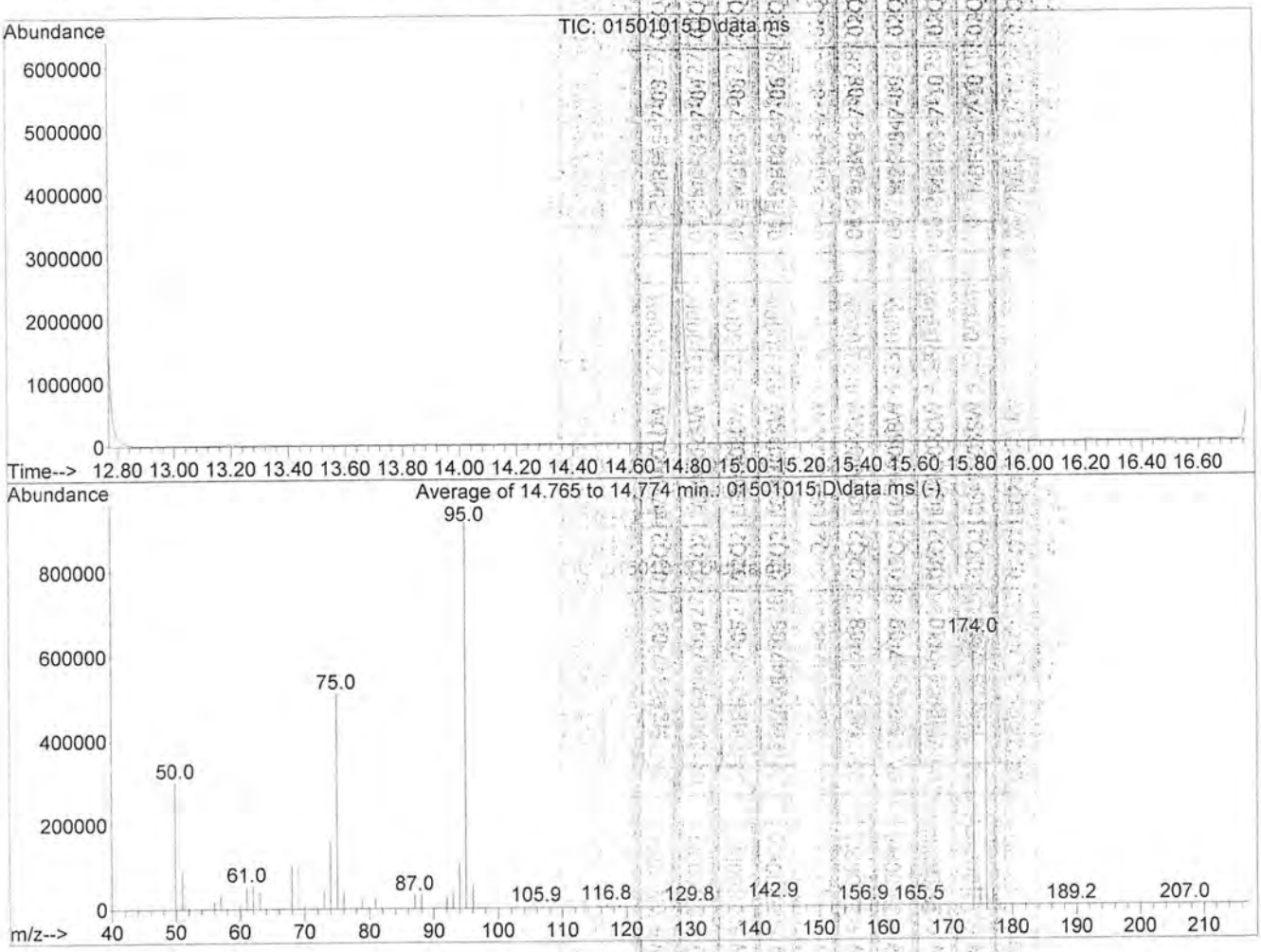
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.5	323849	PASS
75	95	30	60	55.5	553515	PASS
95	95	100	100	100.0	996864	PASS
96	95	5	9	6.5	64469	PASS
173	174	0.00	2	0.8	5621	PASS
174	95	50	200	73.5	732715	PASS
175	174	5	9	7.2	52835	PASS
176	174	95	101	98.7	723371	PASS
177	176	5	9	6.5	46797	PASS

BFB

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01501015.D
Acq On : 21 Jun 2021 3:48 pm
Operator : TEC
Sample : rinse
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: rteint.p

Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
Last Update : Mon Jun 21 15:08:20 2021



AutoFind: Scans 2429, 2430, 2431; Background Corrected with Scan 2411

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	32.9	300974	PASS
75	95	30	60	55.8	511189	PASS
95	95	100	100	100.0	915705	PASS
96	95	5	9	6.1	55701	PASS
173	174	0.00	2	0.4	2363	PASS
174	95	50	200	69.2	633792	PASS
175	174	5	9	7.1	44725	PASS
176	174	95	101	98.7	625344	PASS
177	176	5	9	6.0	37357	PASS

Response Factor Report 5975 VOC

Method Path : T:\Data2\Voc\HP5975\2021 METHODS\
Method File : JUN21.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
Last Update : Mon Jun 21 14:47:27 2021
Response Via : Initial Calibration

Calibration Files
0.5 =00501005.D 5 =00701007.D 10 =00901009.D 30 =01201012.D 20 =01101011.D 2 =00601006.D
15 =01001010.D 7.5 =00801008.D

		Compound	0.5	5	10	30	20	2	15	7.5	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	S	1,2-Dichloroet...	0.499	0.490	0.493	0.493	0.485	0.497	0.487	0.497	0.493	1.01
3)		Dichlorodifluo...	0.476	0.408	0.467	0.439	0.439	0.408	0.457	0.486	0.447	6.54
4)		Chloromethane	0.743	0.739	0.719	0.712	0.663	0.936	0.695	0.720	0.741	11.20
5)		Vinyl chloride	0.676	0.604	0.593	0.599	0.599	0.595	0.599	0.646	0.614	4.94
6)		Bromomethane	0.134	0.131	0.134	0.127	0.138	0.109	0.134	0.146	0.132	8.18
7)		Chloroethane	0.309	0.268	0.252	0.256	0.251	0.242	0.257	0.274	0.264	7.88
8)		Trichlorofluor...	0.562	0.533	0.558	0.572	0.558	0.477	0.572	0.611	0.555	6.93
9)		Diethyl ether	0.453	0.422	0.409	0.402	0.406	0.445	0.403	0.417	0.420	4.66
10)		1,1-Dichloroet...	0.599	0.584	0.597	0.595	0.590	0.591	0.595	0.634	0.598	2.51
11)		Acetone		0.428	0.315	0.287	0.265	0.666	0.316	0.371	0.378	36.43
12)		Methyl iodide	0.181	0.136	0.127	0.151	0.149	0.144	0.132	0.133	0.144	11.96
13)		Carbon disulfide	0.827	0.708	0.705	0.704	0.708	0.752	0.708	0.755	0.734	5.93
14)		Methylene chlo...		0.340	0.312	0.297	0.304	0.378	0.304	0.320	0.322	8.74
15)		MTBE (2-methox...	1.359	1.393	1.309	1.302	1.304	1.434	1.321	1.332	1.344	3.55
16)		trans-1,2-Dich...	0.742	0.725	0.691	0.708	0.713	0.752	0.700	0.737	0.721	2.98
17)		Acrylonitrile		0.336	0.302	0.324	0.296	0.346	0.326	0.310	0.320	5.65
18)		1,1-Dichloroet...	0.890	0.903	0.860	0.875	0.888	0.950	0.873	0.906	0.893	3.13
19)		Methyl ethyl k...		0.460	0.419	0.471	0.406	0.476	0.468	0.434	0.448	6.23
20)		2,2-Dichloropr...	0.625	0.625	0.624	0.641	0.644	0.644	0.621	0.655	0.635	1.96
21)		cis-1,2-Dichlo...	0.365	0.384	0.364	0.366	0.371	0.393	0.365	0.383	0.374	3.00
22)		Bromochloromet...	0.215	0.208	0.203	0.199	0.204	0.209	0.203	0.207	0.206	2.34
23)		Chloroform	0.704	0.728	0.688	0.706	0.709	0.757	0.693	0.710	0.712	3.04
24)	S	Dibromofluorom...	0.275	0.273	0.276	0.277	0.277	0.278	0.270	0.279	0.275	1.01
25)		1,1,1-Trichlor...	0.663	0.649	0.644	0.665	0.663	0.637	0.658	0.685	0.658	2.24
26)		1,1-Dichloropr...	0.537	0.530	0.545	0.551	0.558	0.520	0.554	0.578	0.547	3.30
27)		Carbon tetrach...	0.513	0.499	0.519	0.545	0.535	0.485	0.529	0.552	0.522	4.36
28)		Benzene	1.663	1.670	1.564	1.621	1.619	1.716	1.606	1.646	1.638	2.81
29)		1,2-Dichloroet...	0.815	0.875	0.842	0.853	0.851	0.895	0.852	0.855	0.855	2.74
30)		Trichloroethene	0.400	0.396	0.371	0.380	0.385	0.415	0.377	0.393	0.390	3.64
31)		1,2-Dichloropr...	0.582	0.573	0.544	0.540	0.551	0.583	0.544	0.563	0.560	3.18
32)	S	Toluene-d8	1.134	1.123	1.125	1.116	1.105	1.120	1.115	1.130	1.121	0.82
33)		Dibromomethane	0.214	0.214	0.204	0.209	0.207	0.218	0.207	0.210	0.210	2.23
34)		Bromodichlorom...	0.595	0.598	0.574	0.584	0.587	0.617	0.577	0.591	0.590	2.29
35)		cis-1,3-Dichlo...	0.591	0.678	0.677	0.709	0.700	0.666	0.687	0.685	0.674	5.35
36)		Methyl isobuty...		1.065	0.982	1.091	0.967	1.060	1.084	1.017	1.038	4.76
37)		Toluene	1.618	1.656	1.567	1.614	1.597	1.674	1.603	1.646	1.622	2.17
38)	I	Chlorobenzene-d5	----------ISTD----------									

Method Path : T:\Data2\Voc\HP5975\2021 METHODS\
Method File : JUN21.M
Title : Purgable Volatile Organics - EPA 524.2, 8260, 624

39)		trans-1,3-Dich...	0.508	0.643	0.699	0.812	0.774	0.634	0.736	0.683	0.686	13.76
40)		1,1,2-Trichlor...	0.479	0.496	0.474	0.487	0.483	0.511	0.491	0.484	0.488	2.35
41)		Tetrachloroethene	0.516	0.519	0.499	0.506	0.506	0.515	0.515	0.525	0.512	1.62
42)		2-Hexanone		0.981	0.897	0.990	0.874	0.987	0.988	0.931	0.950	5.14
43)		1,3-Dichloropr...	0.853	0.932	0.898	0.937	0.919	0.957	0.936	0.911	0.918	3.47
44)		Dibromochlorom...	0.531	0.537	0.527	0.553	0.550	0.546	0.548	0.533	0.541	1.81
45)		1,2-Dibromoethane	0.428	0.469	0.458	0.486	0.468	0.469	0.485	0.460	0.465	3.91
46)		Chlorobenzene	1.332	1.398	1.331	1.364	1.370	1.453	1.374	1.382	1.375	2.83
47)		1,1,1,2-Tetrac...	0.474	0.521	0.509	0.530	0.531	0.522	0.525	0.510	0.515	3.60
48)		Ethylbenzene	2.456	2.549	2.404	2.503	2.507	2.560	2.492	2.492	2.496	1.98
49)		m+p-Xylene	1.897	1.986	1.896	1.974	1.976	2.000	1.968	1.971	1.958	2.03
50)		o-Xylene	2.050	2.111	2.014	2.067	2.078	2.106	2.060	2.054	2.067	1.51
51)		Styrene	1.552	1.615	1.583	1.645	1.625	1.632	1.614	1.611	1.610	1.82
52)		Bromoform	0.297	0.333	0.324	0.351	0.335	0.318	0.346	0.327	0.329	5.14
53)		Isopropylbenzene	2.163	2.253	2.212	2.267	2.266	2.257	2.268	2.305	2.249	1.91
54)	S	Bromofluoroben...	0.616	0.613	0.616	0.622	0.616	0.612	0.623	0.622	0.617	0.70
55)		Bromobenzene	0.488	0.548	0.525	0.539	0.536	0.557	0.537	0.534	0.533	3.88
56)		n-Propylbenzene	2.475	2.499	2.477	2.597	2.558	2.464	2.578	2.599	2.531	2.28
57)		1,3,5-Trimethy...	1.726	1.813	1.761	1.827	1.803	1.820	1.812	1.831	1.799	2.04
58)		2-Chlorotoluene	1.675	1.685	1.612	1.661	1.655	1.727	1.673	1.659	1.668	1.93
59)		4-Chlorotoluene	1.917	1.960	1.881	1.952	1.943	1.973	1.951	1.940	1.940	1.48
60)		tert-Butylbenzene	0.975	0.992	0.991	1.018	1.017	0.988	1.025	1.038	1.006	2.18
61)		1,1,2,2-Tetrac...	0.681	0.723	0.685	0.718	0.672	0.734	0.726	0.692	0.704	3.38
62)		trans-1,4-Dich...		0.087	0.109	0.161	0.130	0.090	0.119	0.105	0.114	22.21
63)		1,2,3-Trichlor...	0.244	0.237	0.227	0.241	0.225	0.258	0.243	0.231	0.238	4.53
64)		1,2,4-Trimethy...	1.930	1.888	1.825	1.866	1.860	1.912	1.878	1.868	1.878	1.72
65)		sec-Butylbenzene	2.001	1.902	1.933	1.977	1.984	1.857	1.991	2.034	1.960	2.96
66)		4-Isopropyltol...	1.701	1.682	1.670	1.717	1.715	1.652	1.719	1.737	1.699	1.69
67)	I	1,4-Dichlorobenzen...	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------
68)	S	1,2-Dichlorobe...	1.459	1.450	1.439	1.423	1.425	1.464	1.457	1.452	1.446	1.08
69)		1,3-Dichlorobe...	2.029	2.023	1.933	1.958	1.967	2.059	1.955	2.017	1.993	2.25
70)		1,4-Dichlorobe...	2.001	2.085	1.988	2.023	2.024	2.140	2.026	2.037	2.040	2.42
71)		1,2-Dichlorobe...	1.909	1.988	1.906	1.897	1.902	2.051	1.938	1.974	1.945	2.81
72)		n-butylbenzene	2.849	2.798	2.855	2.834	2.892	2.771	2.889	2.990	2.860	2.34
73)		1,2-Dibromo-3-...	0.267	0.259	0.236	0.257	0.230	0.250	0.262	0.247	0.251	5.04
74)		1,2,4-Trichlor...	1.038	0.985	0.992	0.947	0.959	1.031	0.994	1.050	0.999	3.71
75)		Hexachlorobuta...	0.432	0.379	0.381	0.371	0.391	0.352	0.391	0.412	0.389	6.32
76)		Naphthalene	2.922	3.022	2.974	3.120	2.788	3.040	3.153	3.121	3.018	4.03
77)		1,2,3-Trichlor...	0.845	0.838	0.817	0.809	0.777	0.835	0.839	0.852	0.826	2.96

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00501005.D
Acq On : 21 Jun 2021 10:48 am
Operator : TEC
Sample : 0.5 ppb ical voc
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 15:08:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	25.339	-1.4	100	0.00
3		Dichlorodifluoromethane	0.500	0.532	-6.4	100	0.00
4		Chloromethane	0.500	0.507	-1.4	100	0.00
5		Vinyl chloride	0.500	0.551	-10.2	100	0.00
6		Bromomethane	0.500	0.483	3.4	100	0.00
7		Chloroethane	0.500	0.585	-17.0	100	0.00
8		Trichlorofluoromethane	0.500	0.506	-1.2	100	0.00
9		Diethyl ether	0.500	0.540	-8.0	100	0.00
10		1,1-Dichloroethene	0.500	0.501	-0.2	100	0.00
11		Acetone	-1.000	0.000	0.0	0	-3.69#
12		Methyl iodide	0.500	0.707	-41.4	100	-0.01
13		Carbon disulfide	0.500	0.564	-12.8	100	0.00
14		Methylene chloride	-1.000	0.396	0.0	0	0.00
15		MTBE (2-methoxy-2-methyl pr	0.500	0.506	-1.2	100	0.00
16		trans-1,2-Dichloroethene	0.500	0.515	-3.0	100	0.00
17		Acrylonitrile	-1.000	0.498	0.0	0	0.00
18		1,1-Dichloroethane	0.500	0.498	0.4	100	0.00
19		Methyl ethyl ketone	-1.000	0.563	0.0	0	0.00
20		2,2-Dichloropropane	0.500	0.492	1.6	100	0.00
21		cis-1,2-Dichloroethene	0.500	0.488	2.4	100	0.00
22		Bromochloromethane	0.500	0.522	-4.4	100	0.00
23		Chloroform	0.500	0.494	1.2	100	0.00
24	S	Dibromofluoromethane	25.000	24.923	0.3	100	0.00
25		1,1,1-Trichloroethane	0.500	0.504	-0.8	100	0.00
26		1,1-Dichloropropene	0.500	0.491	1.8	100	0.00
27		Carbon tetrachloride	0.500	0.491	1.8	100	0.00
28		Benzene	0.500	0.508	-1.6	100	0.00
29		1,2-Dichloroethane	0.500	0.477	4.6	100	0.00
30		Trichloroethene	0.500	0.513	-2.6	100	0.00
31		1,2-Dichloropropane	0.500	0.519	-3.8	100	0.00
32	S	Toluene-d8	25.000	25.297	-1.2	100	0.00
33		Dibromomethane	0.500	0.508	-1.6	100	0.00
34		Bromodichloromethane	0.500	0.504	-0.8	100	0.00
35		cis-1,3-Dichloropropene	0.500	0.439	12.2	100	0.00
36		Methyl isobutyl ketone	-1.000	0.474	0.0	0	0.00
37		Toluene	0.500	0.499	0.2	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	0.500	0.398	20.4	100	0.00
40		1,1,2-Trichloroethane	0.500	0.490	2.0	100	0.00
41		Tetrachloroethene	0.500	0.503	-0.6	100	0.00
42		2-Hexanone	-1.000	0.504	0.0	0	0.01
43		1,3-Dichloropropane	0.500	0.465	7.0	100	0.00
44		Dibromochloromethane	0.500	0.491	1.8	100	0.00
45		1,2-Dibromoethane	0.500	0.460	8.0	100	0.00
46		Chlorobenzene	0.500	0.484	3.2	100	0.00
47		1,1,1,2-Tetrachloroethane	0.500	0.460	8.0	100	0.00
48		Ethylbenzene	0.500	0.492	1.6	100	0.00
49		m+p-Xylene	1.000	0.968	3.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00501005.D
Acq On : 21 Jun 2021 10:48 am
Operator : TEC
Sample : 0.5 ppb ical voc
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 15:08:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	0.500	0.496	0.8	100	0.00
51		Styrene	0.500	0.482	3.6	100	0.00
52		Bromoform	0.500	0.463	7.4	100	0.00
53		Isopropylbenzene	0.500	0.481	3.8	100	0.00
54	S	Bromofluorobenzene	25.000	24.935	0.3	100	0.00
55		Bromobenzene	0.500	0.457	8.6	100	0.00
56		n-Propylbenzene	0.500	0.489	2.2	100	0.00
57		1,3,5-Trimethylbenzene	0.500	0.480	4.0	100	0.00
58		2-Chlorotoluene	0.500	0.502	-0.4	100	0.00
59		4-Chlorotoluene	0.500	0.494	1.2	100	0.00
60		tert-Butylbenzene	0.500	0.485	3.0	100	0.00
61		1,1,2,2-Tetrachloroethane	0.500	0.484	3.2	100	0.00
62		trans-1,4-Dichloro-2-butene	-1.000	0.455	0.0	0	0.00
63		1,2,3-Trichloropropane	0.500	0.512	-2.4	100	0.00
64		1,2,4-Trimethylbenzene	0.500	0.514	-2.8	100	0.00
65		sec-Butylbenzene	0.500	0.510	-2.0	100	0.00
66		4-Isopropyltoluene	0.500	0.500	0.0	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	19.172	-0.9	100	0.00
69		1,3-Dichlorobenzene	0.500	0.509	-1.8	100	0.00
70		1,4-Dichlorobenzene	0.500	0.490	2.0	100	0.00
71		1,2-Dichlorobenzene	0.500	0.491	1.8	100	0.00
72		n-butylbenzene	0.500	0.498	0.4	100	0.00
73		1,2-Dibromo-3-chloropropane	0.500	0.532	-6.4	100	0.00
74		1,2,4-Trichlorobenzene	0.500	0.519	-3.8	100	0.00
75		Hexachlorobutadiene	0.500	0.556	-11.2	100	0.00
76		Naphthalene	0.500	0.484	3.2	100	0.00
77		1,2,3-Trichlorobenzene	0.500	0.511	-2.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00501005.D
Acq On : 21 Jun 2021 10:48 am
Operator : TEC
Sample : 0.5 ppb ical voc
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 15:08:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.961	96	5089184	25.00	ppb		0.00
38) Chlorobenzene-d5	12.748	117	3932243	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	2019955	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.470	65	2541469	25.34	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	101.36%			
24) Dibromofluoromethane	6.978	111	1397528	24.92	ppb		0.00
Spiked Amount 25.000			Recovery =	99.68%			
32) Toluene-d8	10.401	98	5772470	25.30	ppb		0.00
Spiked Amount 25.000			Recovery =	101.20%			
54) Bromofluorobenzene	14.772	95	2421468	24.93	ppb		0.00
Spiked Amount 25.000			Recovery =	99.72%			
68) 1,2-Dichlorobenzene-d4	17.475	152	2239905	19.17	ppb		0.00
Spiked Amount 19.000			Recovery =	100.89%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.252	85	48422	0.53	ppb		94
4) Chloromethane	1.518	50	75662	0.51	ppb		84
5) Vinyl chloride	1.677	62	68811	0.55	ppb	#	64
6) Bromomethane	2.179	96	13653	0.48	ppb		89
7) Chloroethane	2.334	64	31401	0.59	ppb		75
8) Trichlorofluoromethane	2.717	101	57153	0.51	ppb		92
9) Diethyl ether	3.212	59	46151	0.54	ppb	#	68
10) 1,1-Dichloroethene	3.520	61	60969	0.50	ppb	#	67
12) Methyl iodide	3.743	142	18434	0.71	ppb		82
13) Carbon disulfide	3.819	76	84215	0.56	ppb		100
14) Methylene chloride	4.309	84	57674	0.40	ppb		99
15) MTBE (2-methoxy-2-meth...	4.759	73	138343	0.51	ppb	#	61
16) trans-1,2-Dichloroethene	4.716	61	75521	0.51	ppb	#	58
17) Acrylonitrile	4.744	53	32460	0.50	ppb		91
18) 1,1-Dichloroethane	5.366	63	90548	0.50	ppb		93
19) Methyl ethyl ketone	6.342	43	51347	0.56	ppb		79
20) 2,2-Dichloropropane	6.225	77	63628	0.49	ppb		88
21) cis-1,2-Dichloroethene	6.243	96	37109	0.49	ppb		95
22) Bromochloromethane	6.599	130	21901	0.52	ppb		79
23) Chloroform	6.737	83	71624	0.49	ppb		97
25) 1,1,1-Trichloroethane	6.967	97	67495	0.50	ppb		90
26) 1,1-Dichloropropene	7.216	75	54683	0.49	ppb		87
27) Carbon tetrachloride	7.201	117	52197	0.49	ppb		95
28) Benzene	7.527	78	169302	0.51	ppb		94
29) 1,2-Dichloroethane	7.582	62	82903	0.48	ppb		88
30) Trichloroethene	8.507	130	40713	0.51	ppb	#	90
31) 1,2-Dichloropropane	8.859	63	59195m	0.52	ppb		
33) Dibromomethane	9.042	174	21769	0.51	ppb	#	68
34) Bromodichloromethane	9.298	83	60611	0.50	ppb		89
35) cis-1,3-Dichloropropene	9.998	75	60196	0.44	ppb		80
36) Methyl isobutyl ketone	10.288	43	100253	0.47	ppb		84
37) Toluene	10.504	91	164704	0.50	ppb		100
39) trans-1,3-Dichloropropene	10.897	75	39970	0.40	ppb		84
40) 1,1,2-Trichloroethane	11.187	97	37653	0.49	ppb	#	79
41) Tetrachloroethene	11.364	166	40572	0.50	ppb		87
42) 2-Hexanone	11.645	43	75224	0.50	ppb		92

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00501005.D
Acq On : 21 Jun 2021 10:48 am
Operator : TEC
Sample : 0.5 ppb ical voc
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 15:08:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

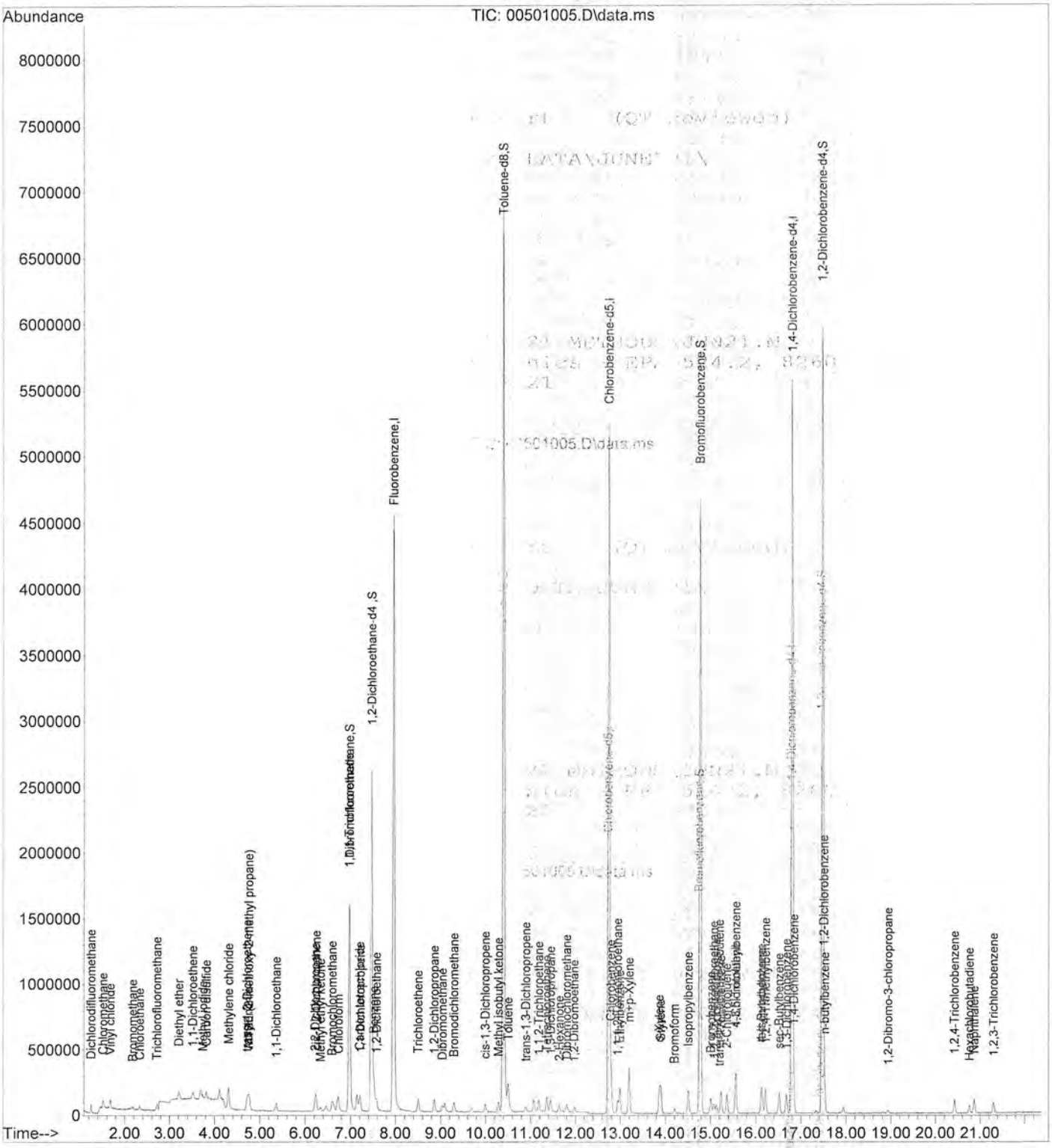
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 1,3-Dichloropropane	11.449	76	67082	0.46	ppb		91
44) Dibromochloromethane	11.807	129	41775	0.49	ppb		81
45) 1,2-Dibromoethane	11.977	107	33640	0.46	ppb		96
46) Chlorobenzene	12.794	112	104742	0.48	ppb		80
47) 1,1,1,2-Tetrachloroethane	12.946	131	37293	0.46	ppb		82
48) Ethylbenzene	12.994	91	193170	0.49	ppb		90
49) m+p-Xylene	13.197	91	298307	0.97	ppb		98
50) o-Xylene	13.868	91	161230	0.50	ppb		96
51) Styrene	13.900	104	122059	0.48	ppb		87
52) Bromoform	14.202	173	23366	0.46	ppb		91
53) Isopropylbenzene	14.514	105	170137	0.48	ppb		92
55) Bromobenzene	15.012	156	38367	0.46	ppb	#	60
56) n-Propylbenzene	15.235	91	194676	0.49	ppb	#	90
57) 1,3,5-Trimethylbenzene	15.559	105	135713	0.48	ppb		94
58) 2-Chlorotoluene	15.363	91	131736	0.50	ppb	#	84
59) 4-Chlorotoluene	15.561	91	150761	0.49	ppb	#	80
60) tert-Butylbenzene	16.123	91	76657	0.48	ppb		99
61) 1,1,2,2-Tetrachloroethane	15.078	83	53556	0.48	ppb		90
62) trans-1,4-Dichloro-2-b...	15.199	53	5824m	0.45	ppb		
63) 1,2,3-Trichloropropane	15.133	110	19208	0.51	ppb	#	65
64) 1,2,4-Trimethylbenzene	16.215	105	151766	0.51	ppb		91
65) sec-Butylbenzene	16.516	105	157379	0.51	ppb		94
66) 4-Isopropyltoluene	16.126	119	133758	0.50	ppb		94
69) 1,3-Dichlorobenzene	16.684	146	81968	0.51	ppb		98
70) 1,4-Dichlorobenzene	16.848	146	80824	0.49	ppb		80
71) 1,2-Dichlorobenzene	17.508	146	77125	0.49	ppb		86
72) n-butylbenzene	17.525	91	115114	0.50	ppb		95
73) 1,2-Dibromo-3-chloropr...	18.936	157	10779	0.53	ppb		81
74) 1,2,4-Trichlorobenzene	20.426	180	41952	0.52	ppb		86
75) Hexachlorobutadiene	20.757	225	17448	0.56	ppb		90
76) Naphthalene	20.865	128	118055	0.48	ppb		88
77) 1,2,3-Trichlorobenzene	21.307	180	34118	0.51	ppb		84

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00501005.D
Acq On : 21 Jun 2021 10:48 am
Operator : TEC
Sample : 0.5 ppb ical voc
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 15:08:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00601006.D
Acq On : 21 Jun 2021 11:18 am
Operator : TEC
Sample : 2.0 ppb ical voc
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 15:08:39 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	25.204	-0.8	100	0.00
3		Dichlorodifluoromethane	2.000	1.824	8.8	100	0.00
4		Chloromethane	2.000	2.563	-28.2#	100	0.01
5		Vinyl chloride	2.000	1.939	3.0	100	0.00
6		Bromomethane	2.000	1.576	21.2#	100	0.00
7		Chloroethane	2.000	1.833	8.4	100	0.00
8		Trichlorofluoromethane	2.000	1.718	14.1	100	0.00
9		Diethyl ether	2.000	2.120	-6.0	100	0.00
10		1,1-Dichloroethene	2.000	1.977	1.1	100	0.00
11		Acetone	2.000	1.963	1.8	100	0.00
12		Methyl iodide	2.000	2.222	-11.1	100	0.00
13		Carbon disulfide	2.000	2.051	-2.6	100	0.00
14		Methylene chloride	2.000	1.969	1.5	100	0.00
15		MTBE (2-methoxy-2-methyl pr	2.000	2.133	-6.7	100	0.00
16		trans-1,2-Dichloroethene	2.000	2.085	-4.2	100	0.00
17		Acrylonitrile	2.000	2.137	-6.9	99	0.00
18		1,1-Dichloroethane	2.000	2.129	-6.5	100	0.00
19		Methyl ethyl ketone	2.000	2.127	-6.3	100	0.00
20		2,2-Dichloropropane	2.000	2.027	-1.4	100	0.00
21		cis-1,2-Dichloroethene	2.000	2.103	-5.2	100	0.00
22		Bromochloromethane	2.000	2.028	-1.4	100	0.00
23		Chloroform	2.000	2.126	-6.3	100	0.00
24	S	Dibromofluoromethane	25.000	25.202	-0.8	100	0.00
25		1,1,1-Trichloroethane	2.000	1.936	3.2	100	0.00
26		1,1-Dichloropropene	2.000	1.903	4.8	100	0.00
27		Carbon tetrachloride	2.000	1.859	7.1	100	0.00
28		Benzene	2.000	2.094	-4.7	100	0.00
29		1,2-Dichloroethane	2.000	2.095	-4.8	100	0.00
30		Trichloroethene	2.000	2.129	-6.5	100	0.00
31		1,2-Dichloropropane	2.000	2.081	-4.0	100	0.00
32	S	Toluene-d8	25.000	24.981	0.1	100	0.00
33		Dibromomethane	2.000	2.076	-3.8	100	0.00
34		Bromodichloromethane	2.000	2.089	-4.4	100	0.00
35		cis-1,3-Dichloropropene	2.000	1.977	1.1	100	0.00
36		Methyl isobutyl ketone	2.000	2.043	-2.2	100	0.00
37		Toluene	2.000	2.065	-3.2	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	2.000	1.958	2.1	100	0.00
40		1,1,2-Trichloroethane	2.000	2.093	-4.6	100	0.00
41		Tetrachloroethene	2.000	2.011	-0.6	100	0.00
42		2-Hexanone	2.000	2.079	-4.0	100	0.00
43		1,3-Dichloropropane	2.000	2.085	-4.2	100	0.00
44		Dibromochloromethane	2.000	2.021	-1.0	100	0.00
45		1,2-Dibromoethane	2.000	2.015	-0.8	100	0.00
46		Chlorobenzene	2.000	2.112	-5.6	100	0.00
47		1,1,1,2-Tetrachloroethane	2.000	2.028	-1.4	100	0.00
48		Ethylbenzene	2.000	2.052	-2.6	100	0.00
49		m+p-Xylene	4.000	4.085	-2.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00601006.D
Acq On : 21 Jun 2021 11:18 am
Operator : TEC
Sample : 2.0 ppb ical voc
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 15:08:39 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	2.000	2.037	-1.8	100	0.00
51		Styrene	2.000	2.028	-1.4	100	0.00
52		Bromoform	2.000	1.973	1.3	100	0.00
53		Isopropylbenzene	2.000	2.007	-0.4	100	0.00
54	S	Bromofluorobenzene	25.000	24.777	0.9	100	0.00
55		Bromobenzene	2.000	2.090	-4.5	100	0.00
56		n-Propylbenzene	2.000	1.947	2.6	100	0.00
57		1,3,5-Trimethylbenzene	2.000	2.023	-1.2	100	0.00
58		2-Chlorotoluene	2.000	2.070	-3.5	100	0.00
59		4-Chlorotoluene	2.000	2.035	-1.8	100	0.00
60		tert-Butylbenzene	2.000	1.965	1.7	100	0.00
61		1,1,2,2-Tetrachloroethane	2.000	2.084	-4.2	100	0.00
62		trans-1,4-Dichloro-2-butene	2.000	2.073	-3.6	98	0.00
63		1,2,3-Trichloropropane	2.000	2.164	-8.2	100	0.00
64		1,2,4-Trimethylbenzene	2.000	2.036	-1.8	100	0.00
65		sec-Butylbenzene	2.000	1.895	5.2	100	0.00
66		4-Isopropyltoluene	2.000	1.944	2.8	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	19.240	-1.3	100	0.00
69		1,3-Dichlorobenzene	2.000	2.066	-3.3	100	0.00
70		1,4-Dichlorobenzene	2.000	2.098	-4.9	100	0.00
71		1,2-Dichlorobenzene	2.000	2.108	-5.4	100	0.00
72		n-butylbenzene	2.000	1.938	3.1	100	0.00
73		1,2-Dibromo-3-chloropropane	2.000	1.995	0.2	100	0.00
74		1,2,4-Trichlorobenzene	2.000	2.062	-3.1	100	0.00
75		Hexachlorobutadiene	2.000	1.811	9.5	100	0.00
76		Naphthalene	2.000	2.015	-0.8	100	0.00
77		1,2,3-Trichlorobenzene	2.000	2.022	-1.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00601006.D
Acq On : 21 Jun 2021 11:18 am
Operator : TEC
Sample : 2.0 ppb ical voc
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 15:08:39 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.963	96	5339868	25.00	ppb		0.00
38) Chlorobenzene-d5	12.748	117	4028920	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	2058600	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.472	65	2652417	25.20	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	100.80%			
24) Dibromofluoromethane	6.981	111	1482795	25.20	ppb		0.00
Spiked Amount 25.000			Recovery =	100.80%			
32) Toluene-d8	10.402	98	5981159	24.98	ppb		0.00
Spiked Amount 25.000			Recovery =	99.92%			
54) Bromofluorobenzene	14.772	95	2465265	24.78	ppb		0.00
Spiked Amount 25.000			Recovery =	99.12%			
68) 1,2-Dichlorobenzene-d4	17.475	M152	2290967	19.24	ppb		0.00
Spiked Amount 19.000			Recovery =	101.26%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.259	85	174295	1.82	ppb		99
4) Chloromethane	1.524	50	400013	2.56	ppb		94
5) Vinyl chloride	1.690	62	254215	1.94	ppb		96
6) Bromomethane	2.182	96	46598	1.58	ppb		95
7) Chloroethane	2.341	64	103197	1.83	ppb		97
8) Trichlorofluoromethane	2.723	101	203815	1.72	ppb		92
9) Diethyl ether	3.224	59	190064	2.12	ppb	#	67
10) 1,1-Dichloroethene	3.527	61	252608	1.98	ppb	#	71
11) Acetone	3.694	43	284378	1.96	ppb		97
12) Methyl iodide	3.750	142	61349	2.22	ppb		93
13) Carbon disulfide	3.819	76	321445	2.05	ppb		100
14) Methylene chloride	4.315	84	161309	1.97	ppb		97
15) MTBE (2-methoxy-2-meth...	4.765	73	612531	2.13	ppb	#	60
16) trans-1,2-Dichloroethene	4.721	61	321149	2.09	ppb	#	57
17) Acrylonitrile	4.751	53	146181m	2.14	ppb		
18) 1,1-Dichloroethane	5.371	63	405986	2.13	ppb		91
19) Methyl ethyl ketone	6.342	43	203545	2.13	ppb		75
20) 2,2-Dichloropropane	6.228	77	274920	2.03	ppb		98
21) cis-1,2-Dichloroethene	6.246	96	167910	2.10	ppb		96
22) Bromochloromethane	6.603	130	89231	2.03	ppb		93
23) Chloroform	6.741	83	323184	2.13	ppb		95
25) 1,1,1-Trichloroethane	6.970	97	272218	1.94	ppb		84
26) 1,1-Dichloropropene	7.217	75	222119	1.90	ppb		86
27) Carbon tetrachloride	7.205	117	207322	1.86	ppb		94
28) Benzene	7.530	78	732871	2.09	ppb		99
29) 1,2-Dichloroethane	7.588	62	382330	2.09	ppb		97
30) Trichloroethene	8.510	130	177202	2.13	ppb	#	87
31) 1,2-Dichloropropane	8.862	63	248968	2.08	ppb	#	80
33) Dibromomethane	9.045	174	93283	2.08	ppb	#	74
34) Bromodichloromethane	9.300	83	263411	2.09	ppb		97
35) cis-1,3-Dichloropropene	9.999	75	284721	1.98	ppb		81
36) Methyl isobutyl ketone	10.288	43	452968	2.04	ppb		88
37) Toluene	10.505	91	715202	2.06	ppb		96
39) trans-1,3-Dichloropropene	10.898	75	204322	1.96	ppb		85
40) 1,1,2-Trichloroethane	11.188	97	164630	2.09	ppb		91
41) Tetrachloroethene	11.366	166	166053	2.01	ppb		96

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00601006.D
Acq On : 21 Jun 2021 11:18 am
Operator : TEC
Sample : 2.0 ppb ical voc
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 15:08:39 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

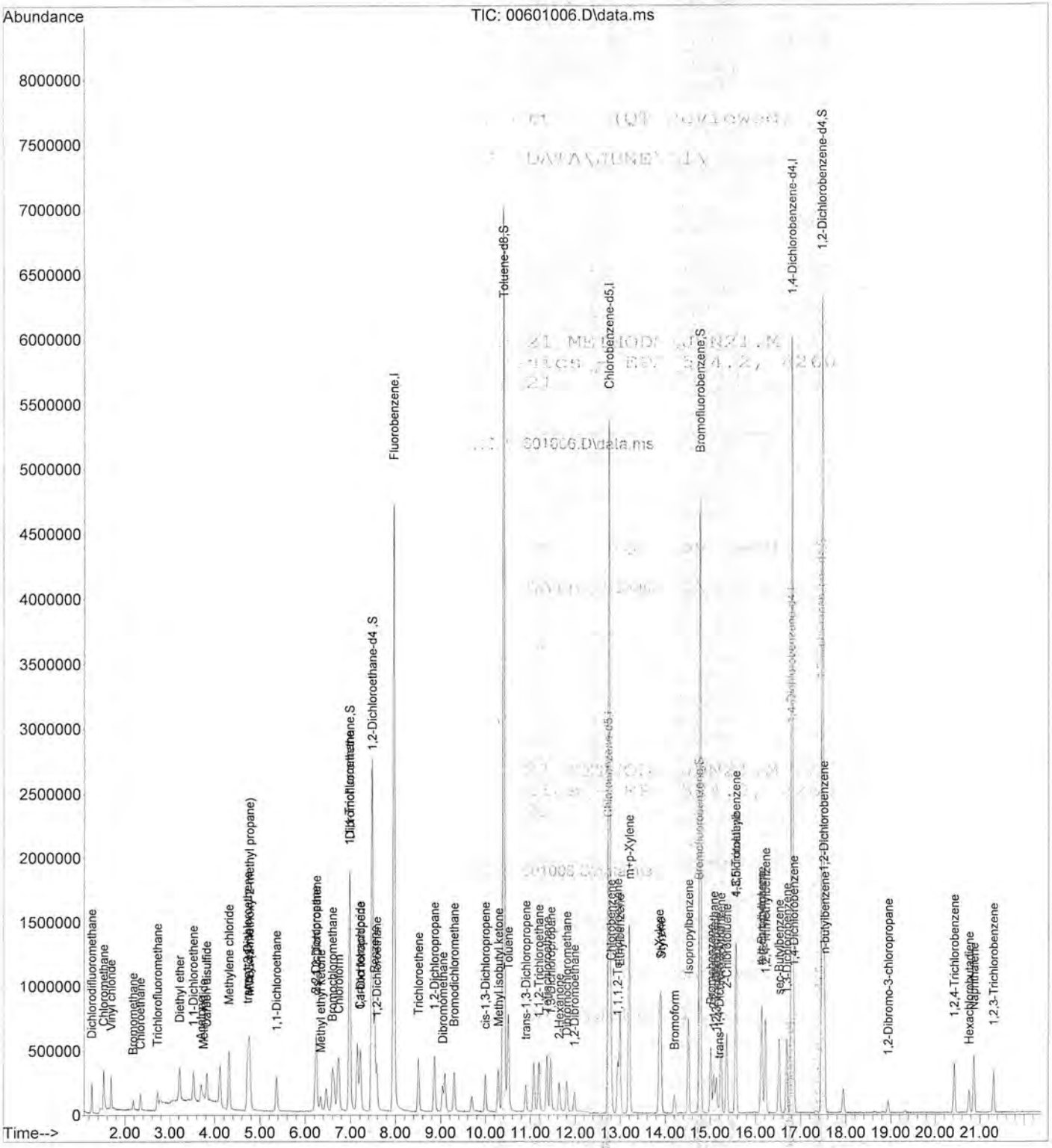
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.642	43	318173	2.08	ppb		88
43) 1,3-Dichloropropane	11.451	76	308465	2.08	ppb		99
44) Dibromochloromethane	11.808	129	176134	2.02	ppb		95
45) 1,2-Dibromoethane	11.977	107	151084	2.02	ppb		97
46) Chlorobenzene	12.795	112	468183	2.11	ppb		86
47) 1,1,1,2-Tetrachloroethane	12.946	131	168378	2.03	ppb	#	79
48) Ethylbenzene	12.994	91	825211	2.05	ppb		91
49) m+p-Xylene	13.197	91	1289164	4.08	ppb		93
50) o-Xylene	13.868	91	678827	2.04	ppb		97
51) Styrene	13.900	104	526074	2.03	ppb		99
52) Bromoform	14.203	173	102566	1.97	ppb		97
53) Isopropylbenzene	14.514	105	727531	2.01	ppb		98
55) Bromobenzene	15.012	156	179559	2.09	ppb	#	63
56) n-Propylbenzene	15.235	91	794158	1.95	ppb		96
57) 1,3,5-Trimethylbenzene	15.559	105	586745	2.02	ppb		97
58) 2-Chlorotoluene	15.362	91	556576	2.07	ppb	#	85
59) 4-Chlorotoluene	15.561	91	636065	2.03	ppb		95
60) tert-Butylbenzene	16.123	91	318509	1.97	ppb		96
61) 1,1,2,2-Tetrachloroethane	15.078	83	236436	2.08	ppb		94
62) trans-1,4-Dichloro-2-b...	15.199	53	28623m	2.07	ppb		
63) 1,2,3-Trichloropropane	15.132	110	83109	2.16	ppb		88
64) 1,2,4-Trimethylbenzene	16.214	105	616274	2.04	ppb		95
65) sec-Butylbenzene	16.516	105	598659	1.90	ppb		98
66) 4-Isopropyltoluene	16.126	119	532462	1.94	ppb		89
69) 1,3-Dichlorobenzene	16.684	146	339013	2.07	ppb		95
70) 1,4-Dichlorobenzene	16.848	146	352456	2.10	ppb		95
71) 1,2-Dichlorobenzene	17.508	146	337699	2.11	ppb		93
72) n-butylbenzene	17.526	91	456283	1.94	ppb		93
73) 1,2-Dibromo-3-chloropr...	18.937	157	41225	1.99	ppb		100
74) 1,2,4-Trichlorobenzene	20.425	180	169722	2.06	ppb		88
75) Hexachlorobutadiene	20.757	225	57961	1.81	ppb		89
76) Naphthalene	20.865	128	500661	2.01	ppb		86
77) 1,2,3-Trichlorobenzene	21.307	180	137581	2.02	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00601006.D
Acq On : 21 Jun 2021 11:18 am
Operator : TEC
Sample : 2.0 ppb ical voc
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 15:08:39 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00701007.D
Acq On : 21 Jun 2021 11:47 am
Operator : TEC
Sample : 5.0 ppb ical voc
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 15:08:42 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	24.886	0.5	100	0.00
3		Dichlorodifluoromethane	5.000	4.560	8.8	100	0.00
4		Chloromethane	5.000	5.082	-1.6	100	0.00
5		Vinyl chloride	5.000	4.916	1.7	100	0.00
6		Bromomethane	5.000	4.785	4.3	100	0.00
7		Chloroethane	5.000	5.089	-1.8	100	0.00
8		Trichlorofluoromethane	5.000	4.796	4.1	100	0.00
9		Diethyl ether	5.000	5.025	-0.5	100	0.00
10		1,1-Dichloroethene	5.000	4.883	2.3	100	0.00
11		Acetone	5.000	5.239	-4.8	100	0.00
12		Methyl iodide	5.000	5.181	-3.6	100	0.00
13		Carbon disulfide	5.000	4.829	3.4	100	0.00
14		Methylene chloride	5.000	5.135	-2.7	100	0.00
15		MTBE (2-methoxy-2-methyl pr	5.000	5.181	-3.6	100	0.00
16		trans-1,2-Dichloroethene	5.000	5.030	-0.6	100	0.00
17		Acrylonitrile	5.000	5.250	-5.0	100	0.00
18		1,1-Dichloroethane	5.000	5.055	-1.1	100	0.00
19		Methyl ethyl ketone	5.000	5.139	-2.8	100	0.00
20		2,2-Dichloropropane	5.000	4.923	1.5	100	0.00
21		cis-1,2-Dichloroethene	5.000	5.139	-2.8	100	0.00
22		Bromochloromethane	5.000	5.040	-0.8	100	0.00
23		Chloroform	5.000	5.113	-2.3	100	0.00
24	S	Dibromofluoromethane	25.000	24.762	1.0	100	0.00
25		1,1,1-Trichloroethane	5.000	4.932	1.4	100	0.00
26		1,1-Dichloropropene	5.000	4.849	3.0	100	0.00
27		Carbon tetrachloride	5.000	4.778	4.4	100	0.00
28		Benzene	5.000	5.096	-1.9	100	0.00
29		1,2-Dichloroethane	5.000	5.119	-2.4	100	0.00
30		Trichloroethene	5.000	5.088	-1.8	100	0.00
31		1,2-Dichloropropane	5.000	5.117	-2.3	100	0.00
32	S	Toluene-d8	25.000	25.048	-0.2	100	0.00
33		Dibromomethane	5.000	5.085	-1.7	100	0.00
34		Bromodichloromethane	5.000	5.061	-1.2	100	0.00
35		cis-1,3-Dichloropropene	5.000	5.027	-0.5	100	0.00
36		Methyl isobutyl ketone	5.000	5.130	-2.6	100	0.00
37		Toluene	5.000	5.107	-2.1	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	5.000	4.835	3.3	100	0.00
40		1,1,2-Trichloroethane	5.000	5.083	-1.7	100	0.00
41		Tetrachloroethene	5.000	5.060	-1.2	100	0.00
42		2-Hexanone	5.000	5.163	-3.3	100	0.00
43		1,3-Dichloropropane	5.000	5.077	-1.5	100	0.00
44		Dibromochloromethane	5.000	4.965	0.7	100	0.00
45		1,2-Dibromoethane	5.000	5.037	-0.7	100	0.00
46		Chlorobenzene	5.000	5.082	-1.6	100	0.00
47		1,1,1,2-Tetrachloroethane	5.000	5.057	-1.1	100	0.00
48		Ethylbenzene	5.000	5.108	-2.2	100	0.00
49		m+p-Xylene	10.000	10.140	-1.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00701007.D
Acq On : 21 Jun 2021 11:47 am
Operator : TEC
Sample : 5.0 ppb ical voc
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 15:08:42 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	5.000	5.104	-2.1	100	0.00
51		Styrene	5.000	5.018	-0.4	100	0.00
52		Bromoform	5.000	5.116	-2.3	100	0.00
53		Isopropylbenzene	5.000	5.010	-0.2	100	0.00
54	S	Bromofluorobenzene	25.000	24.831	0.7	100	0.00
55		Bromobenzene	5.000	5.142	-2.8	100	0.00
56		n-Propylbenzene	5.000	4.938	1.2	100	0.00
57		1,3,5-Trimethylbenzene	5.000	5.039	-0.8	100	0.00
58		2-Chlorotoluene	5.000	5.051	-1.0	100	0.00
59		4-Chlorotoluene	5.000	5.053	-1.1	100	0.00
60		tert-Butylbenzene	5.000	4.932	1.4	100	0.00
61		1,1,2,2-Tetrachloroethane	5.000	5.136	-2.7	100	0.00
62		trans-1,4-Dichloro-2-butene	5.000	4.712	5.8	101	0.00
63		1,2,3-Trichloropropane	5.000	4.973	0.5	100	0.00
64		1,2,4-Trimethylbenzene	5.000	5.026	-0.5	100	0.00
65		sec-Butylbenzene	5.000	4.852	3.0	100	0.00
66		4-Isopropyltoluene	5.000	4.950	1.0	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	19.047	-0.2	100	0.00
69		1,3-Dichlorobenzene	5.000	5.077	-1.5	100	0.00
70		1,4-Dichlorobenzene	5.000	5.109	-2.2	100	0.00
71		1,2-Dichlorobenzene	5.000	5.109	-2.2	100	0.00
72		n-butylbenzene	5.000	4.892	2.2	100	0.00
73		1,2-Dibromo-3-chloropropane	5.000	5.160	-3.2	100	0.00
74		1,2,4-Trichlorobenzene	5.000	4.929	1.4	100	0.00
75		Hexachlorobutadiene	5.000	4.879	2.4	100	0.00
76		Naphthalene	5.000	5.008	-0.2	100	0.00
77		1,2,3-Trichlorobenzene	5.000	5.071	-1.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00701007.D
Acq On : 21 Jun 2021 11:47 am
Operator : TEC
Sample : 5.0 ppb ical voc
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 15:08:42 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.961	96	5376425	25.00	ppb		0.00
38) Chlorobenzene-d5	12.747	117	4073521	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	2050671	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.468	65	2636903	24.89	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	99.56%			
24) Dibromofluoromethane	6.978	111	1466855	24.76	ppb		0.00
Spiked Amount 25.000			Recovery =	99.04%			
32) Toluene-d8	10.400	98	6038227	25.05	ppb		0.00
Spiked Amount 25.000			Recovery =	100.20%			
54) Bromofluorobenzene	14.771	95	2498021	24.83	ppb		0.00
Spiked Amount 25.000			Recovery =	99.32%			
68) 1,2-Dichlorobenzene-d4	17.474	152	2259135	19.05	ppb		0.00
Spiked Amount 19.000			Recovery =	100.26%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.252	85	438737	4.56	ppb		100
4) Chloromethane	1.521	50	794404	5.08	ppb		91
5) Vinyl chloride	1.683	62	649025	4.92	ppb		99
6) Bromomethane	2.179	96	141399	4.78	ppb		100
7) Chloroethane	2.334	64	288435	5.09	ppb		96
8) Trichlorofluoromethane	2.720	101	572814	4.80	ppb		95
9) Diethyl ether	3.217	59	458557	5.03	ppb	#	58
10) 1,1-Dichloroethene	3.520	61	628330	4.88	ppb	#	72
11) Acetone	3.694	43	460730	5.24	ppb		97
12) Methyl iodide	3.749	142	2146585	5.18	ppb		97
13) Carbon disulfide	3.819	76	761820	4.83	ppb		100
14) Methylene chloride	4.312	84	1365702	5.13	ppb		93
15) MTBE (2-methoxy-2-meth...	4.763	73	1498029	5.18	ppb		66
16) trans-1,2-Dichloroethene	4.716	61	779954	5.03	ppb	#	58
17) Acrylonitrile	4.747	53	361537	5.25	ppb		89
18) 1,1-Dichloroethane	5.368	63	970656	5.05	ppb		89
19) Methyl ethyl ketone	6.337	43	495065	5.14	ppb		76
20) 2,2-Dichloropropane	6.226	77	672179	14.92	ppb		99
21) cis-1,2-Dichloroethene	6.246	96	413195	5.14	ppb		93
22) Bromochloromethane	6.600	130	223263	5.04	ppb		96
23) Chloroform	6.739	83	782688	5.11	ppb		98
25) 1,1,1-Trichloroethane	6.969	97	698129	4.93	ppb		81
26) 1,1-Dichloropropene	7.215	75	570012	4.85	ppb		88
27) Carbon tetrachloride	7.204	117	536536	4.78	ppb		99
28) Benzene	7.528	78	1795509	5.10	ppb		97
29) 1,2-Dichloroethane	7.582	62	940848	5.12	ppb		97
30) Trichloroethene	8.511	130	426482m	5.09	ppb		
31) 1,2-Dichloropropane	8.860	63	616225	5.12	ppb	#	80
33) Dibromomethane	9.047	174	230094m	5.08	ppb		
34) Bromodichloromethane	9.299	83	642512	5.06	ppb		94
35) cis-1,3-Dichloropropene	9.999	75	728841	5.03	ppb		89
36) Methyl isobutyl ketone	10.286	43	1145411	5.13	ppb		92
37) Toluene	10.503	91	1781158	5.11	ppb		98
39) trans-1,3-Dichloropropene	10.898	75	524206	4.84	ppb		90
40) 1,1,2-Trichloroethane	11.185	97	404231	5.08	ppb		94
41) Tetrachloroethene	11.365	166	422543	5.06	ppb		95

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00701007.D
Acq On : 21 Jun 2021 11:47 am
Operator : TEC
Sample : 5.0 ppb ical voc
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 15:08:42 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

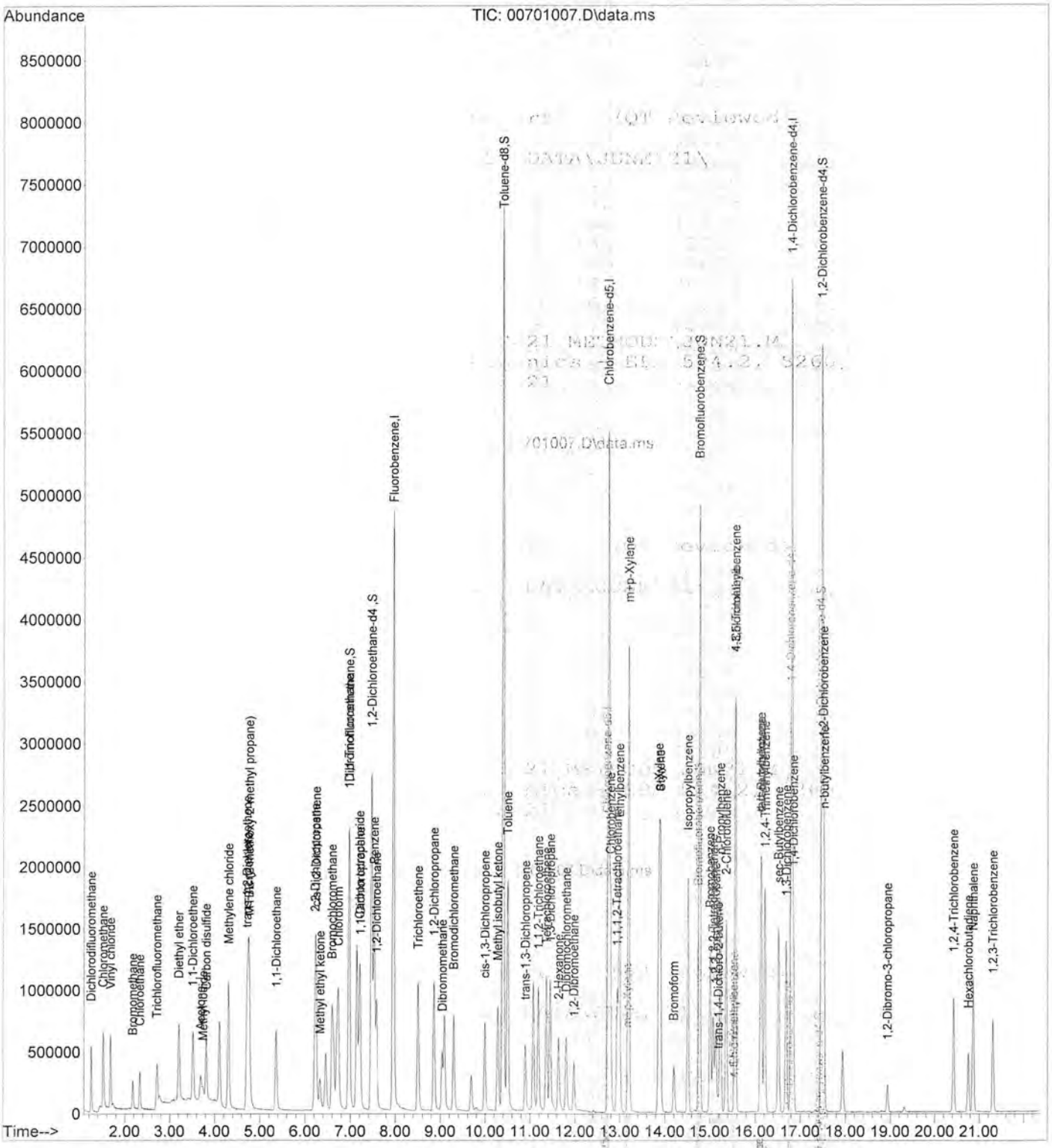
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.638	43	798867	5.16	ppb		88
43) 1,3-Dichloropropane	11.449	76	759453	5.08	ppb		98
44) Dibromochloromethane	11.806	129	437513	4.97	ppb		92
45) 1,2-Dibromoethane	11.976	107	381782	5.04	ppb		98
46) Chlorobenzene	12.794	112	1138760	5.08	ppb		89
47) 1,1,1,2-Tetrachloroethane	12.946	131	424551	5.06	ppb		91
48) Ethylbenzene	12.993	91	2076879	5.11	ppb		91
49) m+p-Xylene	13.196	91	3235630	10.14	ppb		93
50) o-Xylene	13.867	91	1719508	5.10	ppb		91
51) Styrene	13.898	104	1315987	5.02	ppb		94
52) Bromoform	14.202	173	271541	5.12	ppb		93
53) Isopropylbenzene	14.514	105	1835918	5.01	ppb		95
55) Bromobenzene	15.011	156	446735	5.14	ppb	#	56
56) n-Propylbenzene	15.234	91	2036258	4.94	ppb		99
57) 1,3,5-Trimethylbenzene	15.559	105	1477435	5.04	ppb		99
58) 2-Chlorotoluene	15.362	91	1373126	5.05	ppb	#	86
59) 4-Chlorotoluene	15.560	91	1597214	5.05	ppb		89
60) tert-Butylbenzene	16.123	91	808119	4.93	ppb		96
61) 1,1,2,2-Tetrachloroethane	15.078	83	588986	5.14	ppb		92
62) trans-1,4-Dichloro-2-b...	15.194	53	71153m	4.71	ppb		
63) 1,2,3-Trichloropropane	15.131	110	193106	4.97	ppb		84
64) 1,2,4-Trimethylbenzene	16.213	105	1538275	5.03	ppb		99
65) sec-Butylbenzene	16.515	105	1549709	4.85	ppb		96
66) 4-Isopropyltoluene	16.126	119	1370543	4.95	ppb		92
69) 1,3-Dichlorobenzene	16.683	146	829869	5.08	ppb		87
70) 1,4-Dichlorobenzene	16.847	146	855045	5.11	ppb		95
71) 1,2-Dichlorobenzene	17.507	146	815351	5.11	ppb		96
72) n-butylbenzene	17.526	91	1147465	4.89	ppb		93
73) 1,2-Dibromo-3-chloropr...	18.937	157	106242	5.16	ppb		79
74) 1,2,4-Trichlorobenzene	20.424	180	404113	4.93	ppb		91
75) Hexachlorobutadiene	20.756	225	155515	4.88	ppb		84
76) Naphthalene	20.864	128	1239590	5.01	ppb		89
77) 1,2,3-Trichlorobenzene	21.307	180	343766	5.07	ppb		100

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00701007.D
Acq On : 21 Jun 2021 11:47 am
Operator : TEC
Sample : 5.0 ppb ical voc
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 15:08:42 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00801008.D
Acq On : 21 Jun 2021 12:17 pm
Operator : TEC
Sample : 7.5 ppb ical voc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 15:08:45 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	25.218	-0.9	100	0.00
3		Dichlorodifluoromethane	7.500	8.143	-8.6	100	0.00
4		Chloromethane	7.500	7.460	0.5	100	0.00
5		Vinyl chloride	7.500	7.893	-5.2	100	0.00
6		Bromomethane	7.500	8.050	-7.3	100	0.00
7		Chloroethane	7.500	7.790	-3.9	100	0.00
8		Trichlorofluoromethane	7.500	8.254	-10.1	100	0.00
9		Diethyl ether	7.500	7.455	0.6	100	0.00
10		1,1-Dichloroethene	7.500	7.944	-5.9	100	0.00
11		Acetone	7.500	7.815	-4.2	100	0.00
12		Methyl iodide	7.500	7.459	0.5	100	0.00
13		Carbon disulfide	7.500	7.723	-3.0	100	0.00
14		Methylene chloride	7.500	7.491	0.1	100	0.00
15		MTBE (2-methoxy-2-methyl pr	7.500	7.433	0.9	100	0.00
16		trans-1,2-Dichloroethene	7.500	7.667	-2.2	100	0.00
17		Acrylonitrile	7.500	7.271	3.1	100	0.00
18		1,1-Dichloroethane	7.500	7.611	-1.5	100	0.00
19		Methyl ethyl ketone	7.500	7.274	3.0	100	0.00
20		2,2-Dichloropropane	7.500	7.737	-3.2	100	0.00
21		cis-1,2-Dichloroethene	7.500	7.675	-2.3	100	0.00
22		Bromochloromethane	7.500	7.535	-0.5	100	0.00
23		Chloroform	7.500	7.482	-0.2	100	0.00
24	S	Dibromofluoromethane	25.000	25.278	-1.1	100	0.00
25		1,1,1-Trichloroethane	7.500	7.804	-4.1	100	0.00
26		1,1-Dichloropropene	7.500	7.937	-5.8	100	0.00
27		Carbon tetrachloride	7.500	7.936	-5.8	100	0.00
28		Benzene	7.500	7.535	-0.5	100	0.00
29		1,2-Dichloroethane	7.500	7.504	-0.1	100	0.00
30		Trichloroethene	7.500	7.566	-0.9	100	0.00
31		1,2-Dichloropropane	7.500	7.544	-0.6	100	0.00
32	S	Toluene-d8	25.000	25.197	-0.8	100	0.00
33		Dibromomethane	7.500	7.481	0.3	100	0.00
34		Bromodichloromethane	7.500	7.512	-0.2	100	0.00
35		cis-1,3-Dichloropropene	7.500	7.616	-1.5	100	0.00
36		Methyl isobutyl ketone	7.500	7.347	2.0	100	0.00
37		Toluene	7.500	7.611	-1.5	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	7.500	7.515	-0.2	100	0.00
40		1,1,2-Trichloroethane	7.500	7.442	0.8	100	0.00
41		Tetrachloroethene	7.500	7.678	-2.4	100	0.00
42		2-Hexanone	7.500	7.353	2.0	100	0.00
43		1,3-Dichloropropane	7.500	7.445	0.7	100	0.00
44		Dibromochloromethane	7.500	7.392	1.4	100	0.00
45		1,2-Dibromoethane	7.500	7.413	1.2	100	0.00
46		Chlorobenzene	7.500	7.539	-0.5	100	0.00
47		1,1,1,2-Tetrachloroethane	7.500	7.417	1.1	100	0.00
48		Ethylbenzene	7.500	7.490	0.1	100	0.00
49		m+p-Xylene	15.000	15.099	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00801008.D
Acq On : 21 Jun 2021 12:17 pm
Operator : TEC
Sample : 7.5 ppb ical voc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 15:08:45 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	7.500	7.450	0.7	100	0.00
51		Styrene	7.500	7.505	-0.1	100	0.00
52		Bromoform	7.500	7.465	0.5	100	0.00
53		Isopropylbenzene	7.500	7.687	-2.5	100	0.00
54	S	Bromofluorobenzene	25.000	25.201	-0.8	100	0.00
55		Bromobenzene	7.500	7.515	-0.2	100	0.00
56		n-Propylbenzene	7.500	7.701	-2.7	100	0.00
57		1,3,5-Trimethylbenzene	7.500	7.634	-1.8	100	0.00
58		2-Chlorotoluene	7.500	7.456	0.6	100	0.00
59		4-Chlorotoluene	7.500	7.501	-0.0	100	0.00
60		tert-Butylbenzene	7.500	7.746	-3.3	100	0.00
61		1,1,2,2-Tetrachloroethane	7.500	7.378	1.6	100	0.00
62		trans-1,4-Dichloro-2-butene	7.500	7.812	-4.2	100	0.00
63		1,2,3-Trichloropropane	7.500	7.285	2.9	100	0.00
64		1,2,4-Trimethylbenzene	7.500	7.457	0.6	100	0.00
65		sec-Butylbenzene	7.500	7.783	-3.8	100	0.00
66		4-Isopropyltoluene	7.500	7.668	-2.2	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	19.081	-0.4	100	0.00
69		1,3-Dichlorobenzene	7.500	7.592	-1.2	100	0.00
70		1,4-Dichlorobenzene	7.500	7.488	0.2	100	0.00
71		1,2-Dichlorobenzene	7.500	7.609	-1.5	100	0.00
72		n-butylbenzene	7.500	7.841	-4.5	100	0.00
73		1,2-Dibromo-3-chloropropane	7.500	7.388	1.5	100	0.00
74		1,2,4-Trichlorobenzene	7.500	7.876	-5.0	100	0.00
75		Hexachlorobutadiene	7.500	7.945	-5.9	100	0.00
76		Naphthalene	7.500	7.758	-3.4	100	0.00
77		1,2,3-Trichlorobenzene	7.500	7.729	-3.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00801008.D
Acq On : 21 Jun 2021 12:17 pm
Operator : TEC
Sample : 7.5 ppb ical voc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 15:08:45 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.960	96	5278122	25.00	ppb		0.00
38) Chlorobenzene-d5	12.747	117	4046799	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	2041145	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.468	65	2623212	25.22	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	100.88%			
24) Dibromofluoromethane	6.977	111	1470085	25.28	ppb		0.00
Spiked Amount 25.000			Recovery =	101.12%			
32) Toluene-d8	10.400	98	5963215	25.20	ppb		0.00
Spiked Amount 25.000			Recovery =	100.80%			
54) Bromofluorobenzene	14.771	95	2518661	25.20	ppb		0.00
Spiked Amount 25.000			Recovery =	100.80%			
68) 1,2-Dichlorobenzene-d4	17.474	152	2252701	19.08	ppb		0.00
Spiked Amount 19.000			Recovery =	100.42%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.252	85	769202	8.14	ppb		98
4) Chloromethane	1.518	50	1139295	7.46	ppb		93
5) Vinyl chloride	1.680	62	1022974	7.89	ppb		96
6) Bromomethane	2.178	96	231804	8.05	ppb		92
7) Chloroethane	2.334	64	433429	27.79	ppb		95
8) Trichlorofluoromethane	2.720	101	967766	28.25	ppb		91
9) Diethyl ether	3.213	59	660586	27.46	ppb	#	60
10) 1,1-Dichloroethene	3.520	61	1003415	7.94	ppb	#	72
11) Acetone	3.694	43	586977	7.82	ppb		100
12) Methyl iodide	3.749	142	209961	7.46	ppb		95
13) Carbon disulfide	3.819	76	1196172	7.72	ppb		100
14) Methylene chloride	4.310	84	506718	7.49	ppb		95
15) MTBE (2-methoxy-2-meth...	4.760	73	2109734	7.43	ppb	#	61
16) trans-1,2-Dichloroethene	4.716	61	1167232	27.67	ppb	#	59
17) Acrylonitrile	4.745	53	491499	7.27	ppb	#	82
18) 1,1-Dichloroethane	5.367	63	1434854	27.61	ppb		92
19) Methyl ethyl ketone	6.336	43	687843	7.27	ppb		78
20) 2,2-Dichloropropane	6.225	77	1037093	7.74	ppb		99
21) cis-1,2-Dichloroethene	6.245	96	605754	7.67	ppb		96
22) Bromochloromethane	6.600	130	327708	7.53	ppb		98
23) Chloroform	6.738	83	1124365	7.48	ppb		99
25) 1,1,1-Trichloroethane	6.969	97	1084453	7.80	ppb		85
26) 1,1-Dichloropropene	7.215	75	915950	7.94	ppb		89
27) Carbon tetrachloride	7.203	117	874803	7.94	ppb		100
28) Benzene	7.527	78	2606015	7.53	ppb		99
29) 1,2-Dichloroethane	7.581	62	1353881	7.50	ppb		98
30) Trichloroethene	8.508	130	622565	7.57	ppb	#	84
31) 1,2-Dichloropropane	8.860	63	891965	7.54	ppb	#	82
33) Dibromomethane	9.040	174	1332356m	7.48	ppb		
34) Bromodichloromethane	9.299	83	936271	7.51	ppb		96
35) cis-1,3-Dichloropropene	9.998	75	1084013	7.62	ppb		88
36) Methyl isobutyl ketone	10.285	43	1610357	7.35	ppb		89
37) Toluene	10.504	91	2606227	7.61	ppb		98
39) trans-1,3-Dichloropropene	10.897	75	829475	7.52	ppb		91
40) 1,1,2-Trichloroethane	11.186	97	587994	7.44	ppb		93
41) Tetrachloroethene	11.365	166	636940	7.68	ppb		92

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00801008.D
Acq On : 21 Jun 2021 12:17 pm
Operator : TEC
Sample : 7.5 ppb ical voc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 15:08:45 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

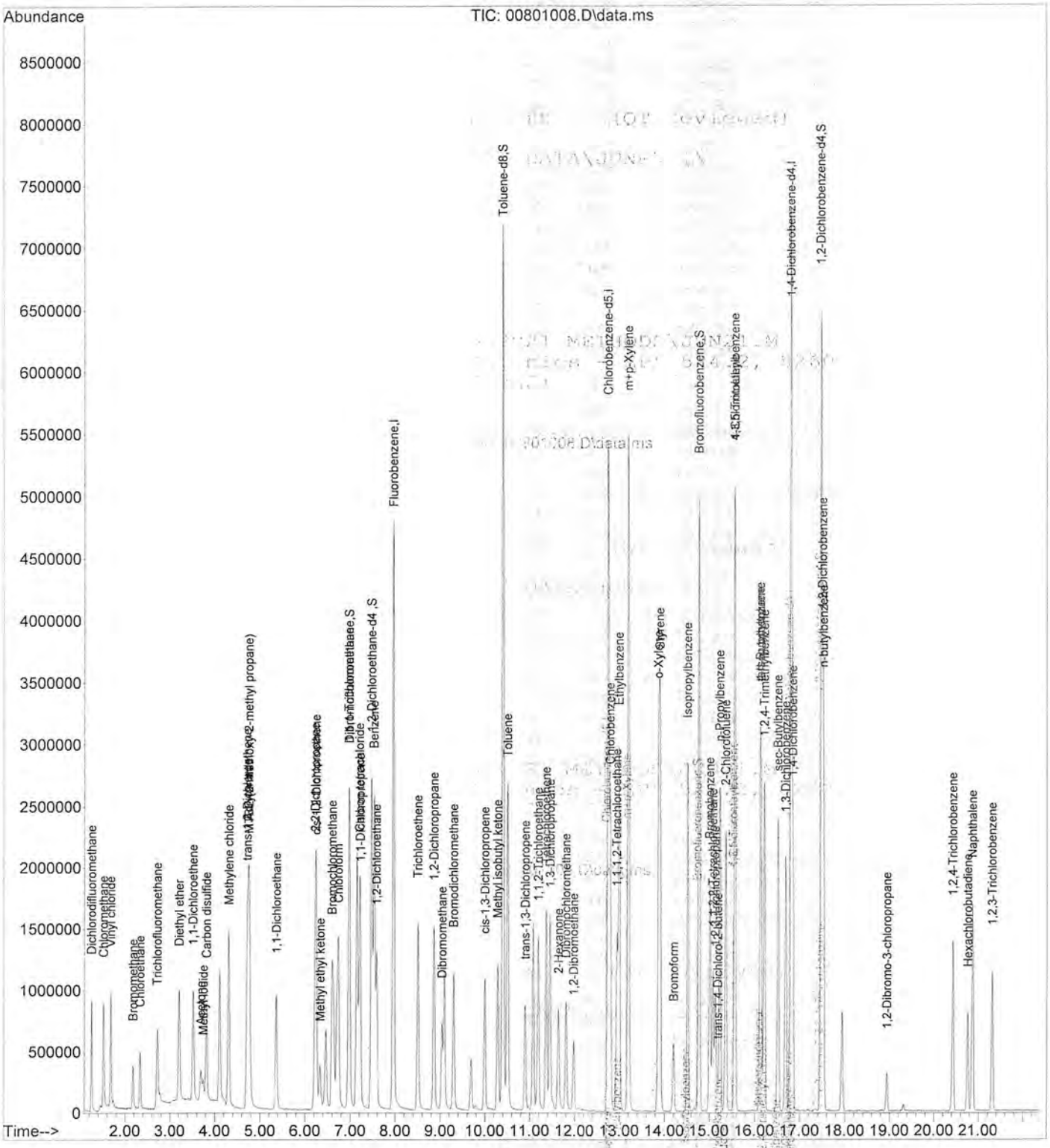
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.637	43	1130274	7.35	ppb		88
43) 1,3-Dichloropropane	11.449	76	1106321	7.44	ppb		99
44) Dibromochloromethane	11.807	129	647084	7.39	ppb		94
45) 1,2-Dibromoethane	11.976	107	558264	7.41	ppb		93
46) Chlorobenzene	12.794	112	1678275	7.54	ppb		89
47) 1,1,1,2-Tetrachloroethane	12.946	131	618677	7.42	ppb		95
48) Ethylbenzene	12.993	91	3025625	7.49	ppb		90
49) m+p-Xylene	13.196	91	4786239	15.10	ppb		94
50) o-Xylene	13.867	91	2493250	7.45	ppb		91
51) Styrene	13.898	104	1955496	7.51	ppb		98
52) Bromoform	14.202	173	396448	7.46	ppb		95
53) Isopropylbenzene	14.514	105	2798323	7.69	ppb		95
55) Bromobenzene	15.011	156	648668	7.52	ppb	#	55
56) n-Propylbenzene	15.234	91	3154883	7.70	ppb		95
57) 1,3,5-Trimethylbenzene	15.558	105	2223437	7.63	ppb		96
58) 2-Chlorotoluene	15.361	91	2013642	7.46	ppb		91
59) 4-Chlorotoluene	15.560	91	2355096	7.50	ppb	#	87
60) tert-Butylbenzene	16.122	91	1260767	7.75	ppb		96
61) 1,1,2,2-Tetrachloroethane	15.078	83	840598	7.38	ppb		96
62) trans-1,4-Dichloro-2-b...	15.189	53	127556m	7.81	ppb		
63) 1,2,3-Trichloropropane	15.132	110	281036	7.29	ppb		81
64) 1,2,4-Trimethylbenzene	16.214	105	2267579	7.46	ppb		99
65) sec-Butylbenzene	16.515	105	2469294	7.78	ppb		95
66) 4-Isopropyltoluene	16.126	119	2109228	7.67	ppb		93
69) 1,3-Dichlorobenzene	16.683	146	1235161	7.59	ppb		93
70) 1,4-Dichlorobenzene	16.847	146	1247383	7.49	ppb		96
71) 1,2-Dichlorobenzene	17.507	146	1208635	7.61	ppb		97
72) n-butylbenzene	17.526	91	1830717	7.84	ppb		95
73) 1,2-Dibromo-3-chloropr...	18.937	157	151396	7.39	ppb		82
74) 1,2,4-Trichlorobenzene	20.424	180	642668	7.88	ppb		95
75) Hexachlorobutadiene	20.757	225	252066	7.94	ppb	#	86
76) Naphthalene	20.864	128	1911403	7.76	ppb		89
77) 1,2,3-Trichlorobenzene	21.307	180	521474	7.73	ppb		93

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00801008.D
Acq On : 21 Jun 2021 12:17 pm
Operator : TEC
Sample : 7.5 ppb ical voc
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 15:08:45 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00901009.D
Acq On : 21 Jun 2021 12:47 pm
Operator : TEC
Sample : 10 ppb ical voc
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 15:08:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	25.024	-0.1	100	0.00
3		Dichlorodifluoromethane	10.000	10.436	-4.4	100	0.00
4		Chloromethane	10.000	9.987	0.1	100	0.00
5		Vinyl chloride	10.000	9.659	3.4	100	0.00
6		Bromomethane	10.000	9.888	1.1	100	0.00
7		Chloroethane	10.000	9.580	4.2	100	0.00
8		Trichlorofluoromethane	10.000	10.046	-0.5	100	0.00
9		Diethyl ether	10.000	9.751	2.5	100	0.00
10		1,1-Dichloroethene	10.000	9.984	0.2	100	0.00
11		Acetone	10.000	9.316	6.8	100	0.00
12		Methyl iodide	10.000	9.417	5.8	100	0.00
13		Carbon disulfide	10.000	9.608	3.9	100	0.00
14		Methylene chloride	10.000	9.944	0.6	100	0.00
15		MTBE (2-methoxy-2-methyl pr	10.000	9.737	2.6	100	0.00
16		trans-1,2-Dichloroethene	10.000	9.580	4.2	100	0.00
17		Acrylonitrile	10.000	9.432	5.7	100	0.00
18		1,1-Dichloroethane	10.000	9.626	3.7	100	0.00
19		Methyl ethyl ketone	10.000	9.346	6.5	100	0.00
20		2,2-Dichloropropane	10.000	9.832	1.7	100	0.00
21		cis-1,2-Dichloroethene	10.000	9.732	2.7	100	0.00
22		Bromochloromethane	10.000	9.863	1.4	100	0.00
23		Chloroform	10.000	9.669	3.3	100	0.00
24	S	Dibromofluoromethane	25.000	25.085	-0.3	100	0.00
25		1,1,1-Trichloroethane	10.000	9.788	2.1	100	0.00
26		1,1-Dichloropropene	10.000	9.962	0.4	100	0.00
27		Carbon tetrachloride	10.000	9.936	0.6	100	0.00
28		Benzene	10.000	9.549	4.5	100	0.00
29		1,2-Dichloroethane	10.000	9.847	1.5	100	0.00
30		Trichloroethene	10.000	9.521	4.8	100	0.00
31		1,2-Dichloropropane	10.000	9.706	2.9	100	0.00
32	S	Toluene-d8	25.000	25.101	-0.4	100	0.00
33		Dibromomethane	10.000	9.688	3.1	100	0.00
34		Bromodichloromethane	10.000	9.724	2.8	100	0.00
35		cis-1,3-Dichloropropene	10.000	10.041	-0.4	100	0.00
36		Methyl isobutyl ketone	10.000	9.463	5.4	100	0.00
37		Toluene	10.000	9.659	3.4	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	10.000	10.023	-0.2	100	0.00
40		1,1,2-Trichloroethane	10.000	9.704	3.0	100	0.00
41		Tetrachloroethene	10.000	9.732	2.7	100	0.00
42		2-Hexanone	10.000	9.448	5.5	100	0.00
43		1,3-Dichloropropane	10.000	9.783	2.2	100	0.00
44		Dibromochloromethane	10.000	9.749	2.5	100	0.00
45		1,2-Dibromoethane	10.000	9.854	1.5	100	0.00
46		Chlorobenzene	10.000	9.675	3.2	100	0.00
47		1,1,1,2-Tetrachloroethane	10.000	9.875	1.3	100	0.00
48		Ethylbenzene	10.000	9.635	3.7	100	0.00
49		m+p-Xylene	20.000	19.361	3.2	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00901009.D
Acq On : 21 Jun 2021 12:47 pm
Operator : TEC
Sample : 10 ppb ical voc
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 15:08:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	10.000	9.743	2.6	100	0.00
51		Styrene	10.000	9.837	1.6	100	0.00
52		Bromoform	10.000	9.814	1.9	100	0.00
53		Isopropylbenzene	10.000	9.835	1.6	100	0.00
54	S	Bromofluorobenzene	25.000	24.933	0.3	100	0.00
55		Bromobenzene	10.000	9.847	1.5	100	0.00
56		n-Propylbenzene	10.000	9.786	2.1	100	0.00
57		1,3,5-Trimethylbenzene	10.000	9.790	2.1	100	0.00
58		2-Chlorotoluene	10.000	9.661	3.4	100	0.00
59		4-Chlorotoluene	10.000	9.699	3.0	100	0.00
60		tert-Butylbenzene	10.000	9.860	1.4	100	0.00
61		1,1,2,2-Tetrachloroethane	10.000	9.725	2.8	100	0.00
62		trans-1,4-Dichloro-2-butene	10.000	10.151	-1.5	100	0.00
63		1,2,3-Trichloropropane	10.000	9.519	4.8	100	0.00
64		1,2,4-Trimethylbenzene	10.000	9.715	2.9	100	0.00
65		sec-Butylbenzene	10.000	9.864	1.4	100	0.00
66		4-Isopropyltoluene	10.000	9.829	1.7	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	18.902	0.5	100	0.00
69		1,3-Dichlorobenzene	10.000	9.700	3.0	100	0.00
70		1,4-Dichlorobenzene	10.000	9.744	2.6	100	0.00
71		1,2-Dichlorobenzene	10.000	9.798	2.0	100	0.00
72		n-butylbenzene	10.000	9.985	0.2	100	0.00
73		1,2-Dibromo-3-chloropropane	10.000	9.420	5.8	100	0.00
74		1,2,4-Trichlorobenzene	10.000	9.927	0.7	100	0.00
75		Hexachlorobutadiene	10.000	9.794	2.1	100	0.00
76		Naphthalene	10.000	9.855	1.4	100	0.00
77		1,2,3-Trichlorobenzene	10.000	9.887	1.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00901009.D
Acq On : 21 Jun 2021 12:47 pm
Operator : TEC
Sample : 10 ppb ical voc
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 15:08:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.960	96	5153269	25.00	ppb		0.00
38) Chlorobenzene-d5	12.747	117	3904538	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	1996778	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.468	65	2541440	25.02	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	100.08%			
24) Dibromofluoromethane	6.978	111	1424310	25.08	ppb		0.00
Spiked Amount 25.000			Recovery =	100.32%			
32) Toluene-d8	10.400	98	5799952	25.10	ppb		0.00
Spiked Amount 25.000			Recovery =	100.40%			
54) Bromofluorobenzene	14.770	95	2404253	24.93	ppb		0.00
Spiked Amount 25.000			Recovery =	99.72%			
68) 1,2-Dichlorobenzene-d4	17.473	152	2183102	18.90	ppb		0.00
Spiked Amount 19.000			Recovery =	99.47%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.252	85	962457	10.44	ppb		98
4) Chloromethane	1.518	50	1481583	9.99	ppb		94
5) Vinyl chloride	1.680	62	1222324	9.66	ppb		97
6) Bromomethane	2.175	96	276843	9.89	ppb		98
7) Chloroethane	2.331	64	520396	9.58	ppb		94
8) Trichlorofluoromethane	2.720	101	1149912	10.05	ppb		92
9) Diethyl ether	3.216	59	843539	9.75	ppb	#	60
10) 1,1-Dichloroethene	3.520	61	1231262	9.98	ppb	#	73
11) Acetone	3.694	43	649674	9.32	ppb		99
12) Methyl iodide	3.749	142	261738	9.42	ppb		94
13) Carbon disulfide	3.819	76	1452977	9.61	ppb		100
14) Methylene chloride	4.312	84	644122	9.94	ppb		97
15) MTBE (2-methoxy-2-meth...	4.761	73	2698297	9.74	ppb	#	63
16) trans-1,2-Dichloroethene	4.716	61	1423879	9.58	ppb	#	59
17) Acrylonitrile	4.746	53	622541	9.43	ppb	#	83
18) 1,1-Dichloroethane	5.368	63	1771829	9.63	ppb		90
19) Methyl ethyl ketone	6.335	43	862948	9.35	ppb		77
20) 2,2-Dichloropropane	6.225	77	1286720	9.83	ppb		99
21) cis-1,2-Dichloroethene	6.245	96	749942	9.73	ppb		92
22) Bromochloromethane	6.600	130	418826	9.86	ppb		99
23) Chloroform	6.738	83	1418660	9.67	ppb		99
25) 1,1,1-Trichloroethane	6.969	97	1328076	9.79	ppb		85
26) 1,1-Dichloropropene	7.216	75	1122411	9.96	ppb		92
27) Carbon tetrachloride	7.204	117	1069339	9.94	ppb		99
28) Benzene	7.528	78	3224556	9.55	ppb		98
29) 1,2-Dichloroethane	7.582	62	1734591	9.85	ppb		98
30) Trichloroethene	8.508	130	1764898	9.52	ppb	#	83
31) 1,2-Dichloropropane	8.860	63	1120392	9.71	ppb	#	80
33) Dibromomethane	9.043	174	420208	9.69	ppb	#	65
34) Bromodichloromethane	9.299	83	1183304	9.72	ppb		92
35) cis-1,3-Dichloropropene	9.998	75	1395385	10.04	ppb		86
36) Methyl isobutyl ketone	10.285	43	2025111	9.46	ppb		87
37) Toluene	10.504	91	3229106	9.66	ppb		97
39) trans-1,3-Dichloropropene	10.897	75	1091514	10.02	ppb		87
40) 1,1,2-Trichloroethane	11.185	97	739767	9.70	ppb		93
41) Tetrachloroethene	11.365	166	778928	9.73	ppb		94

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00901009.D
Acq On : 21 Jun 2021 12:47 pm
Operator : TEC
Sample : 10 ppb ical voc
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 15:08:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

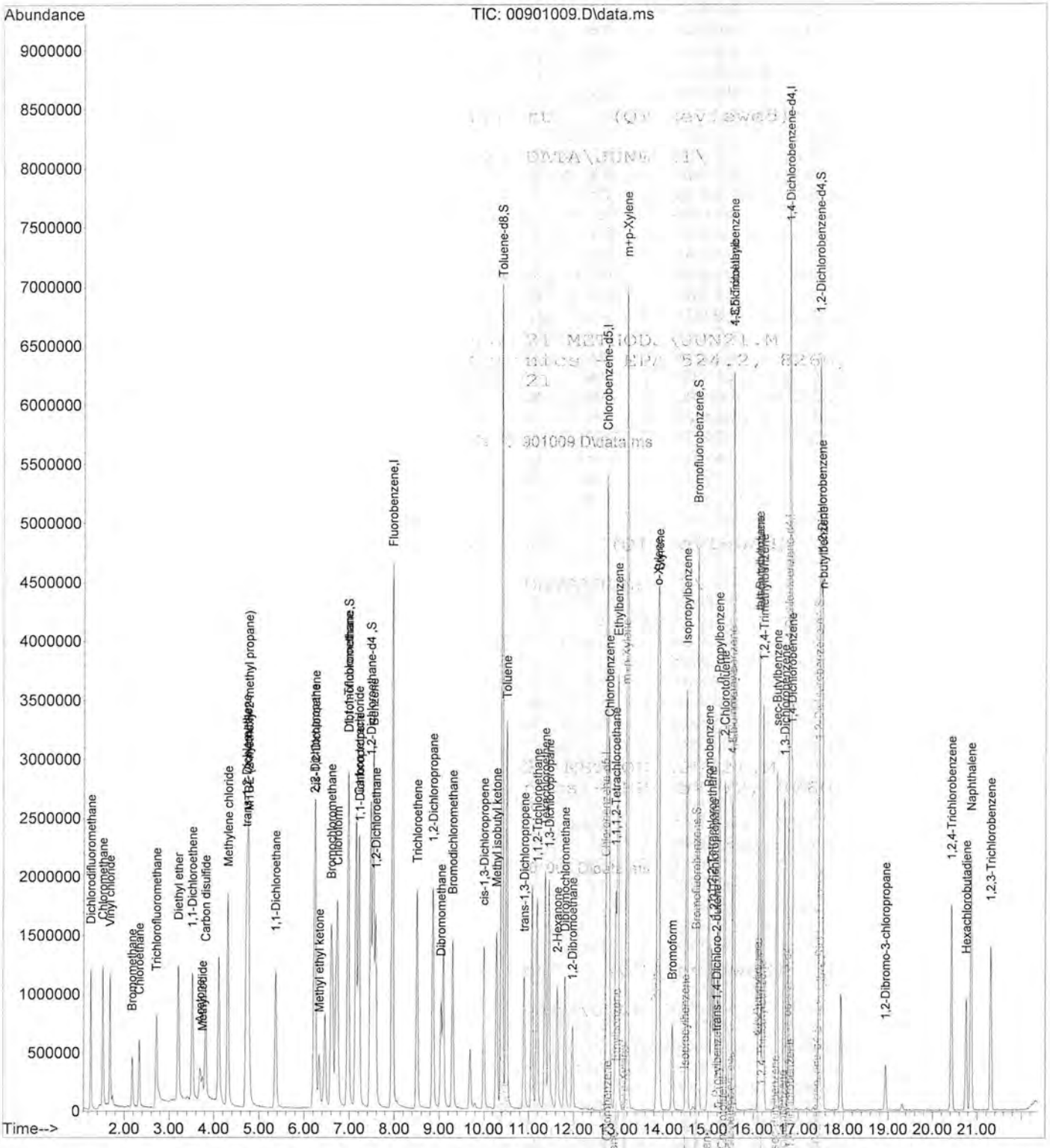
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.637	43	1401391	9.45	ppb		90
43) 1,3-Dichloropropane	11.449	76	1402753	9.78	ppb		98
44) Dibromochloromethane	11.806	129	823360	9.75	ppb		97
45) 1,2-Dibromoethane	11.976	107	715956	9.85	ppb		98
46) Chlorobenzene	12.793	112	2078106	9.67	ppb		89
47) 1,1,1,2-Tetrachloroethane	12.945	131	794688	9.87	ppb		90
48) Ethylbenzene	12.992	91	3755289	9.63	ppb		90
49) m+p-Xylene	13.195	91	5921512	19.36	ppb		92
50) o-Xylene	13.867	91	3145962	9.74	ppb		94
51) Styrene	13.898	104	2472876	9.84	ppb		95
52) Bromoform	14.202	173	506530	9.81	ppb		100
53) Isopropylbenzene	14.513	105	3454562	9.84	ppb		97
55) Bromobenzene	15.010	156	820017	9.85	ppb	#	58
56) n-Propylbenzene	15.234	91	3868022	9.79	ppb		96
57) 1,3,5-Trimethylbenzene	15.558	105	2751116	9.79	ppb		98
58) 2-Chlorotoluene	15.361	91	2517423	9.66	ppb		88
59) 4-Chlorotoluene	15.560	91	2938308	9.70	ppb		89
60) tert-Butylbenzene	16.123	91	1548474	9.86	ppb		99
61) 1,1,2,2-Tetrachloroethane	15.077	83	1069091	9.73	ppb		93
62) trans-1,4-Dichloro-2-b...	15.189	53	169742m	10.15	ppb		
63) 1,2,3-Trichloropropane	15.131	110	354310	9.52	ppb		89
64) 1,2,4-Trimethylbenzene	16.213	105	2850152	9.71	ppb		98
65) sec-Butylbenzene	16.515	105	3019674	9.86	ppb		94
66) 4-Isopropyltoluene	16.126	119	2608653	9.83	ppb		94
69) 1,3-Dichlorobenzene	16.683	146	1543776	9.70	ppb		89
70) 1,4-Dichlorobenzene	16.847	146	1588061	9.74	ppb		94
71) 1,2-Dichlorobenzene	17.506	146	1522471	9.80	ppb		98
72) n-butylbenzene	17.525	91	2280667	9.99	ppb		96
73) 1,2-Dibromo-3-chloropr...	18.936	157	188849	9.42	ppb		96
74) 1,2,4-Trichlorobenzene	20.424	180	792470	9.93	ppb		89
75) Hexachlorobutadiene	20.756	225	303990	9.79	ppb		89
76) Naphthalene	20.864	128	2375114	9.85	ppb		89
77) 1,2,3-Trichlorobenzene	21.307	180	652581	9.89	ppb		94

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 00901009.D
Acq On : 21 Jun 2021 12:47 pm
Operator : TEC
Sample : 10 ppb ical voc
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 15:08:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01001010.D
Acq On : 21 Jun 2021 1:17 pm
Operator : TEC
Sample : 15 ppb ical voc
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 15:08:51 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	24.702	1.2	100	0.00
3		Dichlorodifluoromethane	15.000	15.323	-2.2	100	0.00
4		Chloromethane	15.000	14.629	2.5	100	0.00
5		Vinyl chloride	15.000	14.586	2.8	100	0.00
6		Bromomethane	15.000	14.957	0.3	100	0.00
7		Chloroethane	15.000	14.631	2.5	100	0.00
8		Trichlorofluoromethane	15.000	15.453	-3.0	100	0.00
9		Diethyl ether	15.000	14.411	3.9	100	0.00
10		1,1-Dichloroethene	15.000	14.814	1.2	99	0.00
11		Acetone	15.000	15.853	-5.7	101	0.00
12		Methyl iodide	15.000	14.415	3.9	101	0.00
13		Carbon disulfide	15.000	14.423	3.8	100	0.00
14		Methylene chloride	15.000	14.847	1.0	100	0.00
15		MTBE (2-methoxy-2-methyl pr	15.000	14.743	1.7	100	0.00
16		trans-1,2-Dichloroethene	15.000	14.572	2.9	100	0.00
17		Acrylonitrile	15.000	15.246	-1.6	100	0.00
18		1,1-Dichloroethane	15.000	14.658	2.3	100	0.00
19		Methyl ethyl ketone	15.000	15.534	-3.6	99	0.00
20		2,2-Dichloropropane	15.000	14.680	2.1	100	0.00
21		cis-1,2-Dichloroethene	15.000	14.664	2.2	100	0.00
22		Bromochloromethane	15.000	14.775	1.5	100	0.00
23		Chloroform	15.000	14.610	2.6	100	0.00
24	S	Dibromofluoromethane	25.000	24.518	1.9	100	0.00
25		1,1,1-Trichloroethane	15.000	15.002	-0.0	100	0.00
26		1,1-Dichloropropene	15.000	15.207	-1.4	100	0.00
27		Carbon tetrachloride	15.000	15.204	-1.4	100	0.00
28		Benzene	15.000	14.708	1.9	100	0.00
29		1,2-Dichloroethane	15.000	14.960	0.3	100	0.00
30		Trichloroethene	15.000	14.529	3.1	100	0.00
31		1,2-Dichloropropane	15.000	14.559	2.9	100	0.00
32	S	Toluene-d8	25.000	24.861	0.6	100	0.00
33		Dibromomethane	15.000	14.735	1.8	100	0.00
34		Bromodichloromethane	15.000	14.651	2.3	100	0.00
35		cis-1,3-Dichloropropene	15.000	15.285	-1.9	100	0.00
36		Methyl isobutyl ketone	15.000	15.657	-4.4	100	0.00
37		Toluene	15.000	14.830	1.1	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	15.000	15.154	-1.0	100	0.00
40		1,1,2-Trichloroethane	15.000	15.120	-0.8	100	0.00
41		Tetrachloroethene	15.000	15.069	-0.5	100	0.00
42		2-Hexanone	15.000	15.609	-4.1	100	0.00
43		1,3-Dichloropropane	15.000	15.301	-2.0	100	0.00
44		Dibromochloromethane	15.000	15.213	-1.4	100	0.00
45		1,2-Dibromoethane	15.000	15.628	-4.2	100	0.00
46		Chlorobenzene	15.000	14.981	0.1	100	0.00
47		1,1,1,2-Tetrachloroethane	15.000	15.286	-1.9	100	0.00
48		Ethylbenzene	15.000	14.977	0.2	100	0.00
49		m+p-Xylene	30.000	30.142	-0.5	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01001010.D
Acq On : 21 Jun 2021 1:17 pm
Operator : TEC
Sample : 15 ppb ical voc
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 15:08:51 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	15.000	14.941	0.4	100	0.00
51		Styrene	15.000	15.038	-0.3	100	0.00
52		Bromoform	15.000	15.442	-2.9	100	0.00
53		Isopropylbenzene	15.000	15.127	-0.8	100	0.00
54	S	Bromofluorobenzene	25.000	25.207	-0.8	100	0.00
55		Bromobenzene	15.000	15.116	-0.8	100	0.00
56		n-Propylbenzene	15.000	15.277	-1.8	100	0.00
57		1,3,5-Trimethylbenzene	15.000	15.107	-0.7	100	0.00
58		2-Chlorotoluene	15.000	15.045	-0.3	100	0.00
59		4-Chlorotoluene	15.000	15.085	-0.6	100	0.00
60		tert-Butylbenzene	15.000	15.290	-1.9	100	0.00
61		1,1,2,2-Tetrachloroethane	15.000	15.471	-3.1	100	0.00
62		trans-1,4-Dichloro-2-butene	15.000	14.900	0.7	100	0.00
63		1,2,3-Trichloropropane	15.000	15.316	-2.1	100	0.00
64		1,2,4-Trimethylbenzene	15.000	14.998	0.0	100	0.00
65		sec-Butylbenzene	15.000	15.236	-1.6	100	0.00
66		4-Isopropyltoluene	15.000	15.176	-1.2	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	19.132	-0.7	100	0.00
69		1,3-Dichlorobenzene	15.000	14.718	1.9	100	0.00
70		1,4-Dichlorobenzene	15.000	14.894	0.7	100	0.00
71		1,2-Dichlorobenzene	15.000	14.940	0.4	100	0.00
72		n-butylbenzene	15.000	15.152	-1.0	100	0.00
73		1,2-Dibromo-3-chloropropane	15.000	15.630	-4.2	100	0.00
74		1,2,4-Trichlorobenzene	15.000	14.911	0.6	100	0.00
75		Hexachlorobutadiene	15.000	15.103	-0.7	100	0.00
76		Naphthalene	15.000	15.671	-4.5	100	0.00
77		1,2,3-Trichlorobenzene	15.000	15.221	-1.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01001010.D
Acq On : 21 Jun 2021 1:17 pm
Operator : TEC
Sample : 15 ppb ical voc
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 15:08:51 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.960	96	5253255	25.00	ppb		0.00
38) Chlorobenzene-d5	12.747	117	3942802	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	2025396	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.467	65	2557467	24.70	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	98.80%			
24) Dibromofluoromethane	6.977	111	1419150	24.52	ppb		0.00
Spiked Amount 25.000			Recovery =	98.08%			
32) Toluene-d8	10.400	98	5856049	24.86	ppb		0.00
Spiked Amount 25.000			Recovery =	99.44%			
54) Bromofluorobenzene	14.771	95	2454465	25.21	ppb		0.00
Spiked Amount 25.000			Recovery =	100.84%			
68) 1,2-Dichlorobenzene-d4	17.474	152	2241327	19.13	ppb		0.00
Spiked Amount 19.000			Recovery =	100.68%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.252	85	1440657	15.32	ppb		97
4) Chloromethane	1.514	50	2191130	14.63	ppb		93
5) Vinyl chloride	1.680	62	1881578	14.59	ppb		96
6) Bromomethane	2.175	96	421945	14.96	ppb		94
7) Chloroethane	2.334	64	810214	14.63	ppb		95
8) Trichlorofluoromethane	2.716	101	1803263	15.45	ppb		92
9) Diethyl ether	3.210	59	1270849	14.41	ppb	#	59
10) 1,1-Dichloroethene	3.520	61	1862433	14.81	ppb		74
11) Acetone	3.687	43	1002372	15.85	ppb		98
12) Methyl iodide	3.749	142	420103	14.41	ppb		96
13) Carbon disulfide	3.812	76	2223497	14.42	ppb		100
14) Methylene chloride	4.310	84	958601	14.85	ppb		98
15) MTBE (2-methoxy-2-meth...	4.761	73	4164942	14.74	ppb	#	63
16) trans-1,2-Dichloroethene	4.715	61	2207942	14.57	ppb	#	60
17) Acrylonitrile	4.745	53	1025731	15.25	ppb	#	80
18) 1,1-Dichloroethane	5.366	63	2750415	14.66	ppb		90
19) Methyl ethyl ketone	6.334	43	1462139	15.53	ppb		76
20) 2,2-Dichloropropane	6.224	77	1958447	14.68	ppb		100
21) cis-1,2-Dichloroethene	6.244	96	1151905	14.66	ppb		94
22) Bromochloromethane	6.600	130	639563	14.78	ppb		97
23) Chloroform	6.738	83	2185226	14.61	ppb		98
25) 1,1,1-Trichloroethane	6.968	97	2074985	15.00	ppb		87
26) 1,1-Dichloropropene	7.215	75	1746616	15.21	ppb		90
27) Carbon tetrachloride	7.203	117	1668069	15.20	ppb		98
28) Benzene	7.527	78	5062958	14.71	ppb		99
29) 1,2-Dichloroethane	7.581	62	2686385	14.96	ppb		97
30) Trichloroethene	8.507	130	1189821	14.53	ppb	#	83
31) 1,2-Dichloropropane	8.860	63	1713240	14.56	ppb	#	81
33) Dibromomethane	9.042	174	651494	14.73	ppb	#	69
34) Bromodichloromethane	9.299	83	1817414	14.65	ppb		97
35) cis-1,3-Dichloropropene	9.997	75	2165271	15.28	ppb		88
36) Methyl isobutyl ketone	10.284	43	3415616	15.66	ppb		88
37) Toluene	10.503	91	5054032	14.83	ppb		96
39) trans-1,3-Dichloropropene	10.897	75	1741904	15.15	ppb		88
40) 1,1,2-Trichloroethane	11.185	97	1163942	15.12	ppb		95
41) Tetrachloroethene	11.365	166	1217960	15.07	ppb		93

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01001010.D
Acq On : 21 Jun 2021 1:17 pm
Operator : TEC
Sample : 15 ppb ical voc
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 15:08:51 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

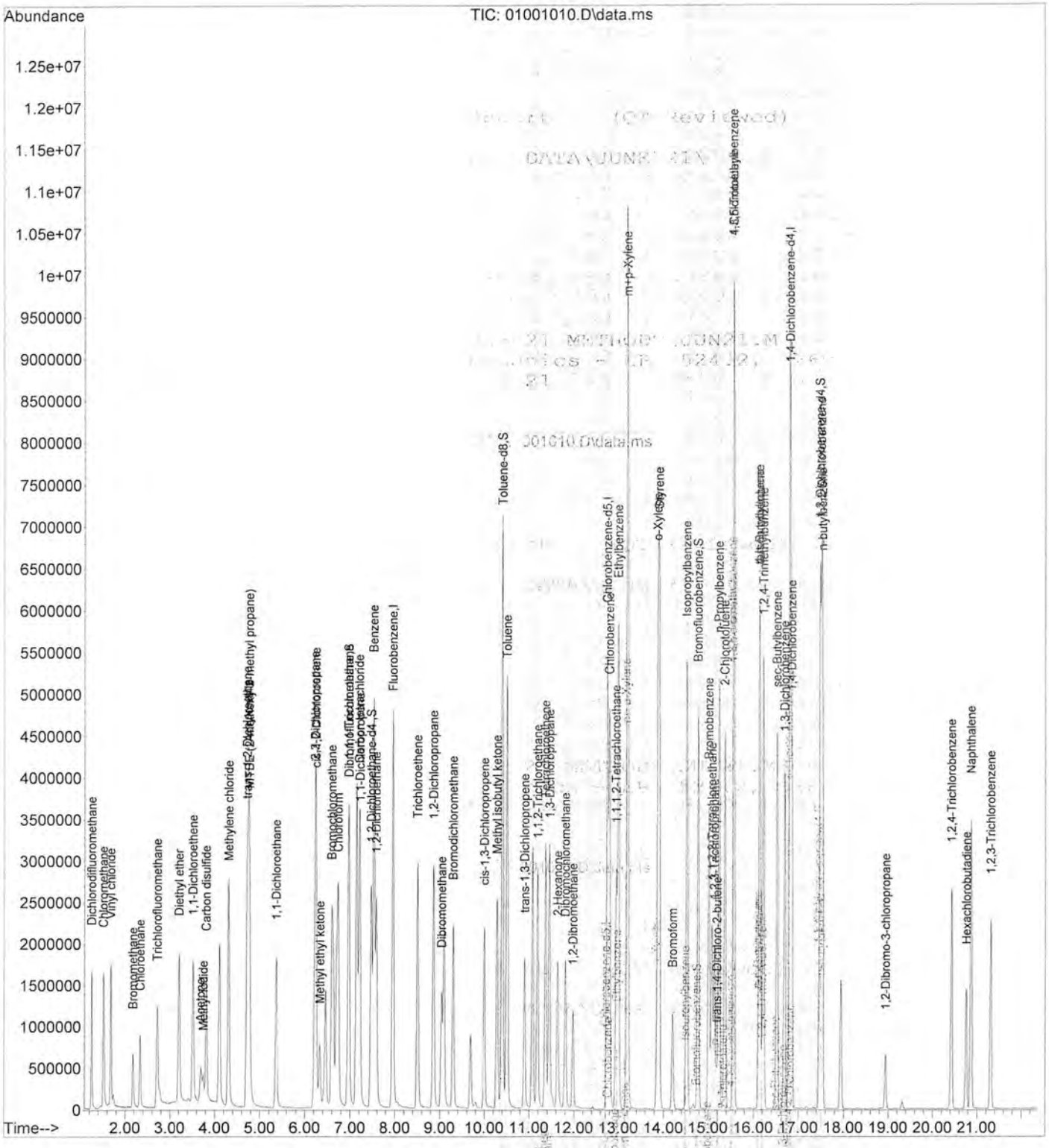
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.635	43	2337803	15.61	ppb		89
43) 1,3-Dichloropropane	11.449	76	2215365	15.30	ppb		99
44) Dibromochloromethane	11.806	129	1297435	15.21	ppb		97
45) 1,2-Dibromoethane	11.976	107	1146626	15.63	ppb		96
46) Chlorobenzene	12.794	112	3249428	14.98	ppb		88
47) 1,1,1,2-Tetrachloroethane	12.946	131	1242263	15.29	ppb		86
48) Ethylbenzene	12.993	91	5894622	14.98	ppb		91
49) m+p-Xylene	13.196	91	9309477	30.14	ppb		92
50) o-Xylene	13.867	91	4871701	14.94	ppb		93
51) Styrene	13.898	104	3817385	15.04	ppb		97
52) Bromoform	14.202	173	818567	15.44	ppb		98
53) Isopropylbenzene	14.514	105	5365265	15.13	ppb		96
55) Bromobenzene	15.011	156	1271149	15.12	ppb	#	58
56) n-Propylbenzene	15.235	91	6097872	15.28	ppb		94
57) 1,3,5-Trimethylbenzene	15.558	105	4286842	15.11	ppb		98
58) 2-Chlorotoluene	15.362	91	3958872	15.04	ppb		89
59) 4-Chlorotoluene	15.560	91	4614814m	15.09	ppb		
60) tert-Butylbenzene	16.123	91	2424861	15.29	ppb		96
61) 1,1,2,2-Tetrachloroethane	15.077	83	1717428	15.47	ppb		92
62) trans-1,4-Dichloro-2-b...	15.189	53	281129m	14.90	ppb		
63) 1,2,3-Trichloropropane	15.132	110	575650	15.32	ppb		84
64) 1,2,4-Trimethylbenzene	16.214	105	4443165	15.00	ppb		100
65) sec-Butylbenzene	16.516	105	4709824	15.24	ppb		95
66) 4-Isopropyltoluene	16.127	119	4067100	15.18	ppb		92
69) 1,3-Dichlorobenzene	16.683	146	2375831	14.72	ppb		94
70) 1,4-Dichlorobenzene	16.847	146	2462007	14.89	ppb		95
71) 1,2-Dichlorobenzene	17.507	146	2354652	14.94	ppb		96
72) n-butylbenzene	17.526	91	3510355	15.15	ppb	#	94
73) 1,2-Dibromo-3-chloropr...	18.937	157	317827	15.63	ppb		95
74) 1,2,4-Trichlorobenzene	20.425	180	1207430	14.91	ppb		93
75) Hexachlorobutadiene	20.757	225	475457	15.10	ppb		89
76) Naphthalene	20.864	128	3831141	15.67	ppb		89
77) 1,2,3-Trichlorobenzene	21.308	180	1019017	15.22	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01001010.D
Acq On : 21 Jun 2021 1:17 pm
Operator : TEC
Sample : 15 ppb ical voc
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 15:08:51 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01101011.D
Acq On : 21 Jun 2021 1:47 pm
Operator : TEC
Sample : 20 ppb ical voc
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 15:08:54 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	24.625	1.5	100	0.00
3		Dichlorodifluoromethane	20.000	19.620	1.9	100	0.00
4		Chloromethane	20.000	18.756	6.2	100	0.00
5		Vinyl chloride	20.000	19.514	2.4	100	0.00
6		Bromomethane	20.000	20.917	-4.6	100	0.00
7		Chloroethane	20.000	19.034	4.8	100	0.00
8		Trichlorofluoromethane	20.000	20.107	-0.5	100	0.00
9		Diethyl ether	20.000	19.336	3.3	100	0.00
10		1,1-Dichloroethene	20.000	19.736	1.3	100	0.00
11		Acetone	20.000	18.026	9.9	100	0.00
12		Methyl iodide	20.000	20.791	-4.0	100	-0.01
13		Carbon disulfide	20.000	19.297	3.5	100	0.00
14		Methylene chloride	20.000	20.110	-0.5	100	0.00
15		MTBE (2-methoxy-2-methyl pr	20.000	19.400	3.0	100	0.00
16		trans-1,2-Dichloroethene	20.000	19.767	1.2	100	0.00
17		Acrylonitrile	20.000	18.510	7.4	100	0.00
18		1,1-Dichloroethane	20.000	19.887	0.6	100	0.00
19		Methyl ethyl ketone	20.000	18.147	9.3	100	0.00
20		2,2-Dichloropropane	20.000	20.278	-1.4	100	0.00
21		cis-1,2-Dichloroethene	20.000	19.855	0.7	100	0.00
22		Bromochloromethane	20.000	19.798	1.0	100	0.00
23		Chloroform	20.000	19.923	0.4	100	0.00
24	S	Dibromofluoromethane	25.000	25.136	-0.5	100	0.00
25		1,1,1-Trichloroethane	20.000	20.154	-0.8	100	0.00
26		1,1-Dichloropropene	20.000	20.402	-2.0	100	0.00
27		Carbon tetrachloride	20.000	20.464	-2.3	100	0.00
28		Benzene	20.000	19.770	1.2	100	0.00
29		1,2-Dichloroethane	20.000	19.909	0.5	100	0.00
30		Trichloroethene	20.000	19.757	1.2	100	0.00
31		1,2-Dichloropropane	20.000	19.690	1.5	100	0.00
32	S	Toluene-d8	25.000	24.639	1.4	100	0.00
33		Dibromomethane	20.000	19.712	1.4	100	0.00
34		Bromodichloromethane	20.000	19.904	0.5	100	0.00
35		cis-1,3-Dichloropropene	20.000	20.766	-3.8	100	0.00
36		Methyl isobutyl ketone	20.000	18.637	6.8	100	0.00
37		Toluene	20.000	19.688	1.6	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	20.000	20.345	-1.7	100	0.00
40		1,1,2-Trichloroethane	20.000	19.801	1.0	100	0.00
41		Tetrachloroethene	20.000	19.743	1.3	100	0.00
42		2-Hexanone	20.000	18.399	8.0	100	0.00
43		1,3-Dichloropropane	20.000	20.023	-0.1	100	0.00
44		Dibromochloromethane	20.000	20.345	-1.7	100	0.00
45		1,2-Dibromoethane	20.000	20.106	-0.5	100	0.00
46		Chlorobenzene	20.000	19.917	0.4	100	0.00
47		1,1,1,2-Tetrachloroethane	20.000	20.593	-3.0	100	0.00
48		Ethylbenzene	20.000	20.093	-0.5	100	0.00
49		m+p-Xylene	40.000	40.358	-0.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01101011.D
Acq On : 21 Jun 2021 1:47 pm
Operator : TEC
Sample : 20 ppb ical voc
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 15:08:54 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	20.000	20.107	-0.5	100	0.00
51		Styrene	20.000	20.189	-0.9	100	0.00
52		Bromoform	20.000	19.678	1.6	100	0.00
53		Isopropylbenzene	20.000	20.148	-0.7	100	0.00
54	S	Bromofluorobenzene	25.000	24.926	0.3	100	0.00
55		Bromobenzene	20.000	20.114	-0.6	100	0.00
56		n-Propylbenzene	20.000	20.218	-1.1	100	0.00
57		1,3,5-Trimethylbenzene	20.000	20.042	-0.2	100	0.00
58		2-Chlorotoluene	20.000	19.839	0.8	100	0.00
59		4-Chlorotoluene	20.000	20.037	-0.2	100	0.00
60		tert-Butylbenzene	20.000	20.223	-1.1	100	0.00
61		1,1,2,2-Tetrachloroethane	20.000	19.102	4.5	100	0.00
62		trans-1,4-Dichloro-2-butene	20.000	19.648	1.8	100	0.00
63		1,2,3-Trichloropropane	20.000	18.856	5.7	100	0.00
64		1,2,4-Trimethylbenzene	20.000	19.809	1.0	100	0.00
65		sec-Butylbenzene	20.000	20.247	-1.2	100	0.00
66		4-Isopropyltoluene	20.000	20.186	-0.9	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	18.724	1.5	100	0.00
69		1,3-Dichlorobenzene	20.000	19.741	1.3	100	0.00
70		1,4-Dichlorobenzene	20.000	19.836	0.8	100	0.00
71		1,2-Dichlorobenzene	20.000	19.551	2.2	100	0.00
72		n-butylbenzene	20.000	20.228	-1.1	100	0.00
73		1,2-Dibromo-3-chloropropane	20.000	18.331	8.3	100	0.00
74		1,2,4-Trichlorobenzene	20.000	19.187	4.1	100	0.00
75		Hexachlorobutadiene	20.000	20.128	-0.6	100	0.00
76		Naphthalene	20.000	18.480	7.6	100	0.00
77		1,2,3-Trichlorobenzene	20.000	18.795	6.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01101011.D
Acq On : 21 Jun 2021 1:47 pm
Operator : TEC
Sample : 20 ppb ical voc
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 15:08:54 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.959	96	5356789	25.00	ppb		0.00
38) Chlorobenzene-d5	12.746	117	4003881	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	2035616	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.466	65	2599701	24.62	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	98.48%			
24) Dibromofluoromethane	6.976	111	1483617	25.14	ppb		0.00
Spiked Amount 25.000			Recovery =	100.56%			
32) Toluene-d8	10.399	98	5918117	24.64	ppb		0.00
Spiked Amount 25.000			Recovery =	98.56%			
54) Bromofluorobenzene	14.771	95	2464769	24.93	ppb		0.00
Spiked Amount 25.000			Recovery =	99.72%			
68) 1,2-Dichlorobenzene-d4	17.474	152	2204589	18.72	ppb		0.00
Spiked Amount 19.000			Recovery =	98.53%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.249	85	1881008	19.62	ppb		98
4) Chloromethane	1.511	50	2840137	18.76	ppb		94
5) Vinyl chloride	1.677	62	2566913	19.51	ppb		95
6) Bromomethane	2.172	96	593450	20.92	ppb		97
7) Chloroethane	2.331	64	1074794	19.03	ppb		96
8) Trichlorofluoromethane	2.718	101	2392572	20.11	ppb		92
9) Diethyl ether	3.212	59	1738855	19.34	ppb	#	60
10) 1,1-Dichloroethene	3.520	61	2530063	19.74	ppb		74
11) Acetone	3.687	43	1137430	18.03	ppb		98
12) Methyl iodide	3.743	142	639823	20.79	ppb		99
13) Carbon disulfide	3.812	76	3033410	19.30	ppb		100
14) Methylene chloride	4.308	84	1304552	20.11	ppb		98
15) MTBE (2-methoxy-2-meth...	4.759	73	5588441	19.40	ppb	#	63
16) trans-1,2-Dichloroethene	4.714	61	3054054	19.77	ppb	#	60
17) Acrylonitrile	4.742	53	1269932	18.51	ppb	#	80
18) 1,1-Dichloroethane	5.365	63	3804982	19.89	ppb		91
19) Methyl ethyl ketone	6.331	43	1741723	18.15	ppb		77
20) 2,2-Dichloropropane	6.225	77	2758540	20.28	ppb		99
21) cis-1,2-Dichloroethene	6.243	96	1590487	19.86	ppb		93
22) Bromochloromethane	6.598	130	873862	19.80	ppb		99
23) Chloroform	6.737	83	3038615	19.92	ppb		99
25) 1,1,1-Trichloroethane	6.968	97	2842602	20.15	ppb		84
26) 1,1-Dichloropropene	7.215	75	2389501	20.40	ppb		90
27) Carbon tetrachloride	7.203	117	2289490	20.46	ppb		97
28) Benzene	7.527	78	6939792	19.77	ppb		98
29) 1,2-Dichloroethane	7.581	62	3645410	19.91	ppb		97
30) Trichloroethene	8.508	130	1649831	19.76	ppb	#	84
31) 1,2-Dichloropropane	8.860	63	2362723	19.69	ppb	#	81
33) Dibromomethane	9.041	174	888724	19.71	ppb	#	70
34) Bromodichloromethane	9.298	83	2517604	19.90	ppb		96
35) cis-1,3-Dichloropropene	9.997	75	2999778	20.77	ppb		86
36) Methyl isobutyl ketone	10.283	43	4145953	18.64	ppb		89
37) Toluene	10.503	91	6842185	19.69	ppb		97
39) trans-1,3-Dichloropropene	10.896	75	2478925	20.34	ppb		88
40) 1,1,2-Trichloroethane	11.185	97	1547913	19.80	ppb		94
41) Tetrachloroethene	11.365	166	1620466	19.74	ppb		91

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01101011.D
Acq On : 21 Jun 2021 1:47 pm
Operator : TEC
Sample : 20 ppb ical voc
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 15:08:54 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

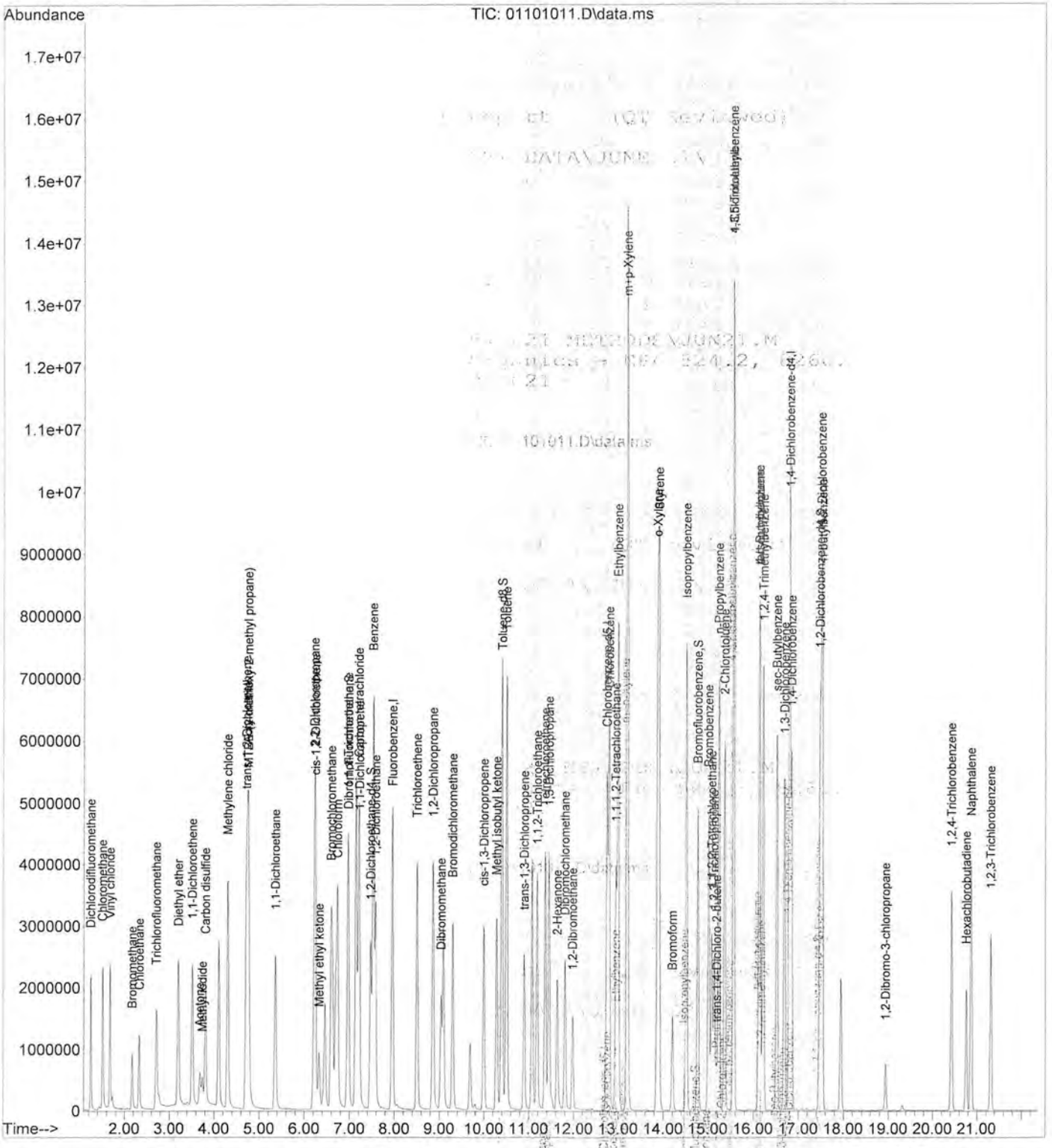
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.635	43	2798446	18.40	ppb		87
43) 1,3-Dichloropropane	11.448	76	2943882	20.02	ppb		100
44) Dibromochloromethane	11.806	129	1762018	20.35	ppb		93
45) 1,2-Dibromoethane	11.975	107	1498028	20.11	ppb		97
46) Chlorobenzene	12.793	112	4386821	19.92	ppb		88
47) 1,1,1,2-Tetrachloroethane	12.946	131	1699437	20.59	ppb		93
48) Ethylbenzene	12.992	91	8030881	20.09	ppb		91
49) m+p-Xylene	13.196	91	12657732	40.36	ppb		93
50) o-Xylene	13.867	91	6657478	20.11	ppb		92
51) Styrene	13.898	104	5204349	20.19	ppb		96
52) Bromoform	14.202	173	1072707	19.68	ppb		98
53) Isopropylbenzene	14.514	105	7256854	20.15	ppb		96
55) Bromobenzene	15.011	156	1717613	20.11	ppb	#	60
56) n-Propylbenzene	15.235	91	8194875	20.22	ppb		96
57) 1,3,5-Trimethylbenzene	15.558	105	5775537	20.04	ppb		99
58) 2-Chlorotoluene	15.362	91	5301302	19.84	ppb	#	87
59) 4-Chlorotoluene	15.560	91	6224597	20.04	ppb	#	88
60) tert-Butylbenzene	16.123	91	3256762	20.22	ppb		98
61) 1,1,2,2-Tetrachloroethane	15.078	83	2153376	19.10	ppb		94
62) trans-1,4-Dichloro-2-b...	15.189	53	416030m	19.65	ppb		
63) 1,2,3-Trichloropropane	15.132	110	719674	18.86	ppb		91
64) 1,2,4-Trimethylbenzene	16.213	105	5959353	19.81	ppb		96
65) sec-Butylbenzene	16.515	105	6355691	20.25	ppb		95
66) 4-Isopropyltoluene	16.126	119	5493442	20.19	ppb		91
69) 1,3-Dichlorobenzene	16.683	146	3202884	19.74	ppb		89
70) 1,4-Dichlorobenzene	16.847	146	3295543	19.84	ppb		94
71) 1,2-Dichlorobenzene	17.507	146	3096940	19.55	ppb		96
72) n-butylbenzene	17.526	91	4710035	20.23	ppb	#	95
73) 1,2-Dibromo-3-chloropr...	18.937	157	374624	18.33	ppb		96
74) 1,2,4-Trichlorobenzene	20.425	180	1561465	19.19	ppb		90
75) Hexachlorobutadiene	20.757	225	636877	20.13	ppb		89
76) Naphthalene	20.864	128	4540448	18.48	ppb		89
77) 1,2,3-Trichlorobenzene	21.307	180	1264696	18.80	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01101011.D
Acq On : 21 Jun 2021 1:47 pm
Operator : TEC
Sample : 20 ppb ical voc
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 15:08:54 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01201012.D
Acq On : 21 Jun 2021 2:17 pm
Operator : TEC
Sample : 30 ppb ical voc
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 15:08:57 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.00
2	S	1,2-Dichloroethane-d4	25.000	25.004	-0.0	100	0.00
3		Dichlorodifluoromethane	30.000	29.432	1.9	100	0.00
4		Chloromethane	30.000	31.028	-3.4	100	0.00
5		Vinyl chloride	30.000	29.290	2.4	100	0.00
6		Bromomethane	30.000	29.344	2.2	100	0.00
7		Chloroethane	30.000	29.168	2.8	100	0.00
8		Trichlorofluoromethane	30.000	30.891	-3.0	100	0.00
9		Diethyl ether	30.000	28.733	4.2	100	0.00
10		1,1-Dichloroethene	30.000	29.849	0.5	100	0.00
11		Acetone	30.000	31.411	-4.7	100	0.00
12		Methyl iodide	30.000	29.969	0.1	100	0.00
13		Carbon disulfide	30.000	28.803	4.0	100	0.00
14		Methylene chloride	30.000	30.005	-0.0	100	0.00
15		MTBE (2-methoxy-2-methyl pr	30.000	29.055	3.2	100	0.00
16		trans-1,2-Dichloroethene	30.000	29.469	1.8	100	0.00
17		Acrylonitrile	30.000	30.399	-1.3	100	0.00
18		1,1-Dichloroethane	30.000	29.384	2.1	100	0.00
19		Methyl ethyl ketone	30.000	31.522	-5.1	100	0.00
20		2,2-Dichloropropane	30.000	30.289	-1.0	100	0.00
21		cis-1,2-Dichloroethene	30.000	29.373	2.1	100	0.00
22		Bromochloromethane	30.000	29.031	3.2	100	0.00
23		Chloroform	30.000	29.740	0.9	100	0.00
24	S	Dibromofluoromethane	25.000	25.097	-0.4	100	0.00
25		1,1,1-Trichloroethane	30.000	30.331	-1.1	100	0.00
26		1,1-Dichloropropene	30.000	30.228	-0.8	100	0.00
27		Carbon tetrachloride	30.000	31.293	-4.3	100	0.00
28		Benzene	30.000	29.686	1.0	100	0.00
29		1,2-Dichloroethane	30.000	29.929	0.2	100	0.00
30		Trichloroethene	30.000	29.239	2.5	100	0.00
31		1,2-Dichloropropane	30.000	28.932	3.6	100	0.00
32	S	Toluene-d8	25.000	24.888	0.4	100	0.00
33		Dibromomethane	30.000	29.850	0.5	100	0.00
34		Bromodichloromethane	30.000	29.654	1.2	100	0.00
35		cis-1,3-Dichloropropene	30.000	31.556	-5.2	100	0.00
36		Methyl isobutyl ketone	30.000	31.535	-5.1	100	0.00
37		Toluene	30.000	29.850	0.5	100	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.00
39		trans-1,3-Dichloropropene	30.000	29.747	0.8	100	0.00
40		1,1,2-Trichloroethane	30.000	29.915	0.3	100	0.00
41		Tetrachloroethene	30.000	29.624	1.3	100	0.00
42		2-Hexanone	30.000	31.267	-4.2	100	0.00
43		1,3-Dichloropropane	30.000	30.625	-2.1	100	0.00
44		Dibromochloromethane	30.000	30.660	-2.2	100	0.00
45		1,2-Dibromoethane	30.000	31.337	-4.5	100	0.00
46		Chlorobenzene	30.000	29.753	0.8	100	0.00
47		1,1,1,2-Tetrachloroethane	30.000	30.884	-2.9	100	0.00
48		Ethylbenzene	30.000	30.091	-0.3	100	0.00
49		m+p-Xylene	60.000	60.481	-0.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01201012.D
Acq On : 21 Jun 2021 2:17 pm
Operator : TEC
Sample : 30 ppb ical voc
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 15:08:57 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	30.000	29.990	0.0	100	0.00
51		Styrene	30.000	30.652	-2.2	100	0.00
52		Bromoform	30.000	30.048	-0.2	100	0.00
53		Isopropylbenzene	30.000	30.239	-0.8	100	0.00
54	S	Bromofluorobenzene	25.000	25.190	-0.8	100	0.00
55		Bromobenzene	30.000	30.351	-1.2	100	0.00
56		n-Propylbenzene	30.000	30.781	-2.6	100	0.00
57		1,3,5-Trimethylbenzene	30.000	30.460	-1.5	100	0.00
58		2-Chlorotoluene	30.000	29.872	0.4	100	0.00
59		4-Chlorotoluene	30.000	30.185	-0.6	100	0.00
60		tert-Butylbenzene	30.000	30.372	-1.2	100	0.00
61		1,1,2,2-Tetrachloroethane	30.000	30.615	-2.0	100	0.00
62		trans-1,4-Dichloro-2-butene	30.000	30.171	-0.6	100	0.00
63		1,2,3-Trichloropropane	30.000	30.345	-1.1	100	0.00
64		1,2,4-Trimethylbenzene	30.000	29.808	0.6	100	0.00
65		sec-Butylbenzene	30.000	30.263	-0.9	100	0.00
66		4-Isopropyltoluene	30.000	30.317	-1.1	100	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	18.694	1.6	100	0.00
69		1,3-Dichlorobenzene	30.000	29.476	1.7	100	0.00
70		1,4-Dichlorobenzene	30.000	29.742	0.9	100	0.00
71		1,2-Dichlorobenzene	30.000	29.247	2.5	100	0.00
72		n-butylbenzene	30.000	29.727	0.9	100	0.00
73		1,2-Dibromo-3-chloropropane	30.000	30.660	-2.2	100	0.00
74		1,2,4-Trichlorobenzene	30.000	28.437	5.2	100	0.00
75		Hexachlorobutadiene	30.000	28.651	4.5	100	0.00
76		Naphthalene	30.000	31.016	-3.4	100	0.00
77		1,2,3-Trichlorobenzene	30.000	29.374	2.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01201012.D
Acq On : 21 Jun 2021 2:17 pm
Operator : TEC
Sample : 30 ppb ical voc
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 15:08:57 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.959	96	5322229	25.00	ppb		0.00
38) Chlorobenzene-d5	12.746	117	4014757	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	2064410	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.467	65	2622686	25.00	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	100.00%			
24) Dibromofluoromethane	6.976	111	1471722	25.10	ppb		0.00
Spiked Amount 25.000			Recovery =	100.40%			
32) Toluene-d8	10.399	98	5939210	24.89	ppb		0.00
Spiked Amount 25.000			Recovery =	99.56%			
54) Bromofluorobenzene	14.770	95	2497643	25.19	ppb		0.00
Spiked Amount 25.000			Recovery =	100.76%			
68) 1,2-Dichlorobenzene-d4	17.474	152	2232146	18.69	ppb		0.00
Spiked Amount 19.000			Recovery =	98.37%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.249	85	2803514	29.43	ppb		97
4) Chloromethane	1.511	50	4548157	31.03	ppb		95
5) Vinyl chloride	1.677	62	3827975	29.29	ppb		94
6) Bromomethane	2.172	96	810863	29.34	ppb		97
7) Chloroethane	2.331	64	1636453	29.17	ppb		94
8) Trichlorofluoromethane	2.713	101	3652017	30.89	ppb		97
9) Diethyl ether	3.214	59	2567183	28.73	ppb	#	61
10) 1,1-Dichloroethene	3.520	61	3801857	29.85	ppb	#	73
11) Acetone	3.687	43	1835605	31.41	ppb		97
12) Methyl iodide	3.750	142	961580	29.97	ppb		95
13) Carbon disulfide	3.812	76	4498544	28.80	ppb		100
14) Methylene chloride	4.308	84	1897236	30.00	ppb		97
15) MTBE (2-methoxy-2-meth...	4.760	73	8315763	29.06	ppb	#	61
16) trans-1,2-Dichloroethene	4.714	61	4523583	29.47	ppb	#	60
17) Acrylonitrile	4.744	53	2072107	30.40	ppb	#	81
18) 1,1-Dichloroethane	5.365	63	5585862	29.38	ppb		91
19) Methyl ethyl ketone	6.332	43	3005937	31.52	ppb		76
20) 2,2-Dichloropropane	6.225	77	4093891	30.29	ppb		99
21) cis-1,2-Dichloroethene	6.243	96	2337673	29.37	ppb		96
22) Bromochloromethane	6.599	130	1273160	29.03	ppb		98
23) Chloroform	6.738	83	4506708	29.74	ppb		100
25) 1,1,1-Trichloroethane	6.968	97	4250255	30.33	ppb		85
26) 1,1-Dichloropropene	7.215	75	3517511	30.23	ppb		90
27) Carbon tetrachloride	7.203	117	3478397	31.29	ppb		100
28) Benzene	7.527	78	10353054	29.69	ppb		100
29) 1,2-Dichloroethane	7.581	62	5444843	29.93	ppb		97
30) Trichloroethene	8.508	130	2425903	29.24	ppb	#	84
31) 1,2-Dichloropropane	8.860	63	3449302	28.93	ppb	#	80
33) Dibromomethane	9.042	174	1337124	29.85	ppb	#	67
34) Bromodichloromethane	9.298	83	3726687	29.65	ppb		97
35) cis-1,3-Dichloropropene	9.997	75	4529075	31.56	ppb		88
36) Methyl isobutyl ketone	10.283	43	6969994	31.54	ppb		90
37) Toluene	10.503	91	10306669	29.85	ppb		96
39) trans-1,3-Dichloropropene	10.895	75	3910844	29.75	ppb		89
40) 1,1,2-Trichloroethane	11.184	97	2344879	29.91	ppb		94
41) Tetrachloroethene	11.365	166	2438059	29.62	ppb		94

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01201012.D
Acq On : 21 Jun 2021 2:17 pm
Operator : TEC
Sample : 30 ppb ical voc
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 15:08:57 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

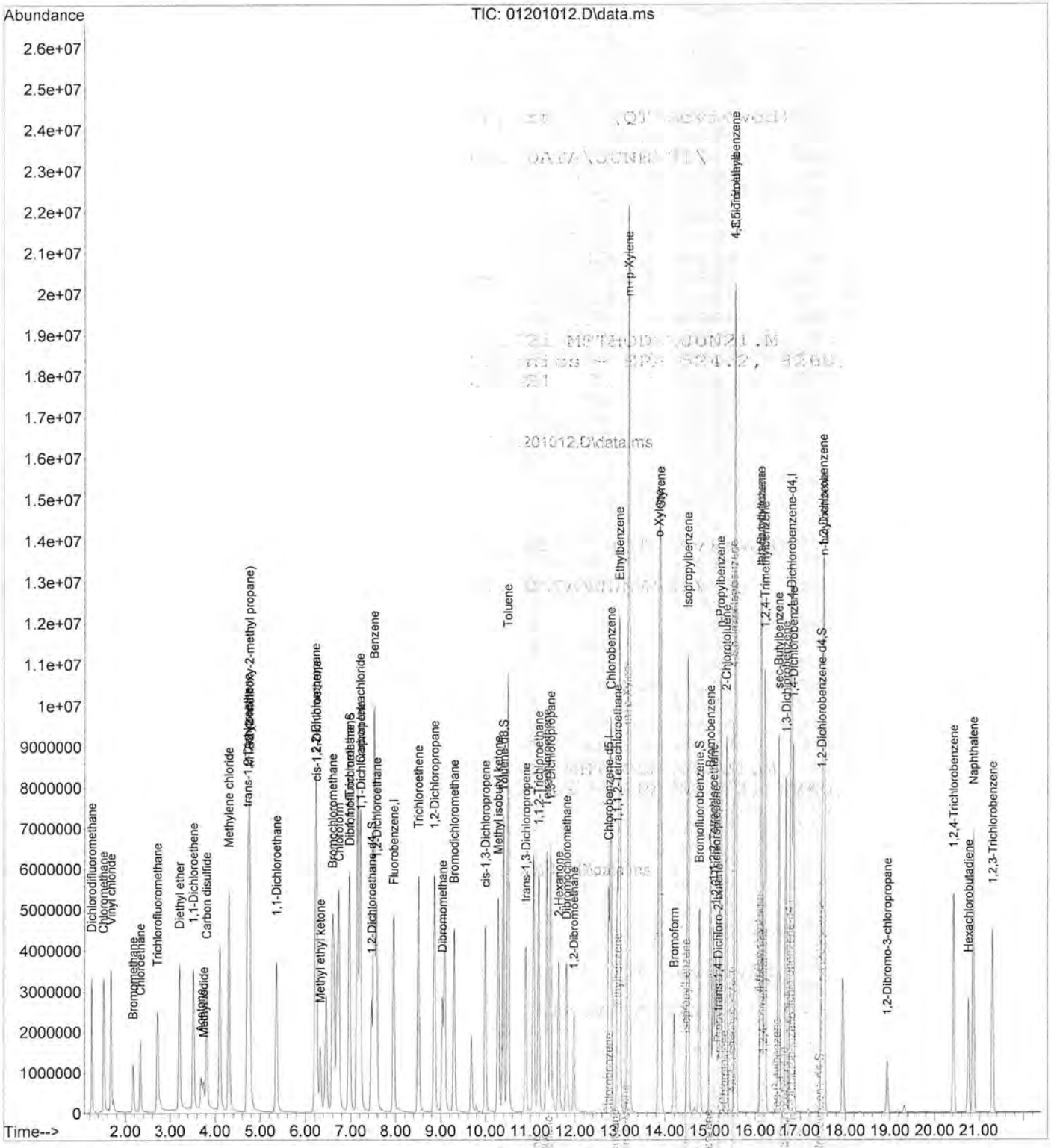
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.633	43	4768469	31.27	ppb		89
43) 1,3-Dichloropropane	11.448	76	4514988	30.63	ppb		99
44) Dibromochloromethane	11.806	129	2662507	30.66	ppb		96
45) 1,2-Dibromoethane	11.975	107	2341123	31.34	ppb		96
46) Chlorobenzene	12.793	112	6571096	29.75	ppb		88
47) 1,1,1,2-Tetrachloroethane	12.945	131	2555651	30.88	ppb		91
48) Ethylbenzene	12.992	91	12059506	30.09	ppb		91
49) m+p-Xylene	13.196	91	19020456	60.48	ppb		94
50) o-Xylene	13.866	91	9956966	29.99	ppb		91
51) Styrene	13.898	104	7922856	30.65	ppb		97
52) Bromoform	14.201	173	1692808	30.05	ppb		98
53) Isopropylbenzene	14.513	105	10920889	30.24	ppb		98
55) Bromobenzene	15.010	156	2598843	30.35	ppb	#	60
56) n-Propylbenzene	15.234	91	12510440	30.78	ppb		96
57) 1,3,5-Trimethylbenzene	15.558	105	8801518	30.46	ppb		96
58) 2-Chlorotoluene	15.361	91	8003827	29.87	ppb		89
59) 4-Chlorotoluene	15.559	91	9402672	30.18	ppb	#	88
60) tert-Butylbenzene	16.123	91	4904534	30.37	ppb		96
61) 1,1,2,2-Tetrachloroethane	15.077	83	3460518	30.61	ppb		94
62) trans-1,4-Dichloro-2-b...	15.185	53	775520m	30.17	ppb		
63) 1,2,3-Trichloropropane	15.131	110	1161344	30.35	ppb		89
64) 1,2,4-Trimethylbenzene	16.213	105	8991981	29.81	ppb		98
65) sec-Butylbenzene	16.516	105	9525818	30.26	ppb		96
66) 4-Isopropyltoluene	16.127	119	8273174	30.32	ppb		91
69) 1,3-Dichlorobenzene	16.683	146	4849835	29.48	ppb		90
70) 1,4-Dichlorobenzene	16.847	146	5011348	29.74	ppb		94
71) 1,2-Dichlorobenzene	17.507	146	4698418	29.25	ppb		98
72) n-butylbenzene	17.526	91	7019718	29.73	ppb		95
73) 1,2-Dibromo-3-chloropr...	18.936	157	635457	30.66	ppb		95
74) 1,2,4-Trichlorobenzene	20.424	180	2346983	28.44	ppb		89
75) Hexachlorobutadiene	20.757	225	919351	28.65	ppb		90
76) Naphthalene	20.864	128	7728417	31.02	ppb		88
77) 1,2,3-Trichlorobenzene	21.307	180	2004492	29.37	ppb		99

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01201012.D
Acq On : 21 Jun 2021 2:17 pm
Operator : TEC
Sample : 30 ppb ical voc
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 15:08:57 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01601016.D
Acq On : 21 Jun 2021 4:19 pm
Operator : TEC
Sample : hcl blk
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 21 16:48:17 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

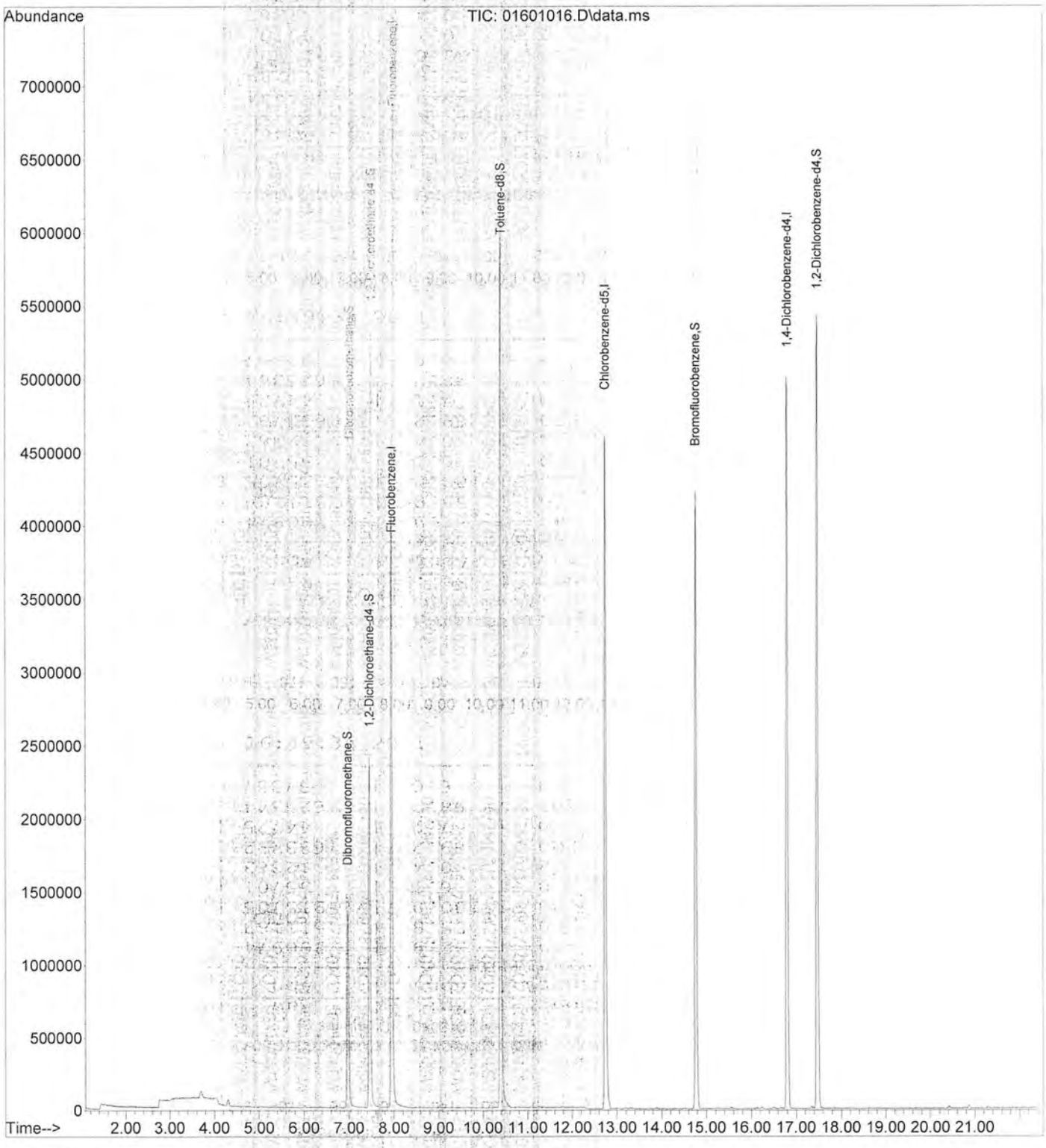
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.959	96	4471412	25.00	ppb	0.00
38) Chlorobenzene-d5	12.747	117	3463576	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	1809638	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.468	65	2329992	26.44	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	105.76%		
24) Dibromofluoromethane	6.976	111	1246353	25.30	ppb	0.00
Spiked Amount 25.000			Recovery =	101.20%		
32) Toluene-d8	10.399	98	5114698	25.51	ppb	0.00
Spiked Amount 25.000			Recovery =	102.04%		
54) Bromofluorobenzene	14.770	95	2182950	25.52	ppb	0.00
Spiked Amount 25.000			Recovery =	102.08%		
68) 1,2-Dichlorobenzene-d4	17.473	152	1986948	18.98	ppb	0.00
Spiked Amount 19.000			Recovery =	99.89%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01601016.D
Acq On : 21 Jun 2021 4:19 pm
Operator : TEC
Sample : hcl blk
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 21 16:48:17 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01701017.D
Acq On : 21 Jun 2021 4:49 pm
Operator : TEC
Sample : 10 ppb icv voc
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 17:15:37 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	91	0.00
2	S	1,2-Dichloroethane-d4	25.000	25.769	-3.1	94	0.00
3		Dichlorodifluoromethane	10.000	10.209	-2.1	89	0.00
4		Chloromethane	10.000	10.047	-0.5	92	0.00
5		Vinyl chloride	10.000	9.623	3.8	91	0.00
6		Bromomethane	10.000	8.160	18.4	75	0.00
7		Chloroethane	10.000	9.793	2.1	93	0.00
8		Trichlorofluoromethane	10.000	11.103	-11.0	101	0.00
9		Diethyl ether	10.000	9.935	0.6	93	0.00
10		1,1-Dichloroethene	10.000	10.515	-5.2	96	0.00
11		Acetone	10.000	10.730	-7.3	101	0.00
12		Methyl iodide	10.000	11.207	-12.1	110	-0.01
13		Carbon disulfide	10.000	8.827	11.7	84	0.00
14		Methylene chloride	10.000	10.094	-0.9	92	0.00
15		MTBE (2-methoxy-2-methyl pr	10.000	10.041	-0.4	94	0.00
16		trans-1,2-Dichloroethene	10.000	9.971	0.3	95	0.00
17		Acrylonitrile	10.000	10.399	-4.0	100	0.00
18		1,1-Dichloroethane	10.000	10.112	-1.1	96	0.00
19		Methyl ethyl ketone	10.000	11.123	-11.2	108	0.00
20		2,2-Dichloropropane	10.000	10.786	-7.9	100	0.00
21		cis-1,2-Dichloroethene	10.000	10.181	-1.8	95	0.00
22		Bromochloromethane	10.000	10.156	-1.6	94	0.00
23		Chloroform	10.000	10.101	-1.0	95	0.00
24	S	Dibromofluoromethane	25.000	25.299	-1.2	92	0.00
25		1,1,1-Trichloroethane	10.000	10.468	-4.7	97	0.00
26		1,1-Dichloropropene	10.000	10.541	-5.4	96	0.00
27		Carbon tetrachloride	10.000	10.504	-5.0	96	0.00
28		Benzene	10.000	10.022	-0.2	96	0.00
29		1,2-Dichloroethane	10.000	10.319	-3.2	95	0.00
30		Trichloroethene	10.000	9.872	1.3	94	0.00
31		1,2-Dichloropropane	10.000	9.903	1.0	93	0.00
32	S	Toluene-d8	25.000	25.313	-1.3	92	0.00
33		Dibromomethane	10.000	10.099	-1.0	95	0.00
34		Bromodichloromethane	10.000	10.060	-0.6	94	0.00
35		cis-1,3-Dichloropropene	10.000	10.338	-3.4	94	0.00
36		Methyl isobutyl ketone	10.000	11.169	-11.7	108	0.00
37		Toluene	10.000	10.281	-2.8	97	0.00
38	I	Chlorobenzene-d5	25.000	25.000	0.0	92	0.00
39		trans-1,3-Dichloropropene	10.000	11.001	-10.0	101	0.00
40		1,1,2-Trichloroethane	10.000	10.251	-2.5	97	0.00
41		Tetrachloroethene	10.000	10.205	-2.1	96	0.00
42		2-Hexanone	10.000	11.829	-18.3	115	0.00
43		1,3-Dichloropropane	10.000	10.440	-4.4	98	0.00
44		Dibromochloromethane	10.000	10.169	-1.7	96	0.00
45		1,2-Dibromoethane	10.000	10.584	-5.8	98	0.00
46		Chlorobenzene	10.000	10.154	-1.5	96	0.00
47		1,1,1,2-Tetrachloroethane	10.000	10.481	-4.8	97	0.00
48		Ethylbenzene	10.000	10.201	-2.0	97	0.00
49		m+p-Xylene	20.000	20.607	-3.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01701017.D
Acq On : 21 Jun 2021 4:49 pm
Operator : TEC
Sample : 10 ppb icv voc
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 17:15:37 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Min. RRF : 0.100 Min. Rel. Area : 30% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 130%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50		o-Xylene	10.000	10.286	-2.9	97	0.00
51		Styrene	10.000	10.343	-3.4	96	0.00
52		Bromoform	10.000	10.577	-5.8	99	0.00
53		Isopropylbenzene	10.000	10.363	-3.6	96	0.00
54	S	Bromofluorobenzene	25.000	25.483	-1.9	94	0.00
55		Bromobenzene	10.000	10.684	-6.8	99	0.00
56		n-Propylbenzene	10.000	10.467	-4.7	98	0.00
57		1,3,5-Trimethylbenzene	10.000	10.591	-5.9	99	0.00
58		2-Chlorotoluene	10.000	10.211	-2.1	97	0.00
59		4-Chlorotoluene	10.000	10.512	-5.1	99	0.00
60		tert-Butylbenzene	10.000	10.648	-6.5	99	0.00
61		1,1,2,2-Tetrachloroethane	10.000	11.342	-13.4	107	0.00
62		trans-1,4-Dichloro-2-butene	10.000	12.789	-27.9	122	0.00
63		1,2,3-Trichloropropane	10.000	11.093	-10.9	107	0.00
64		1,2,4-Trimethylbenzene	10.000	10.397	-4.0	98	0.00
65		sec-Butylbenzene	10.000	10.729	-7.3	100	0.00
66		4-Isopropyltoluene	10.000	10.571	-5.7	98	0.00
67	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	94	0.00
68	S	1,2-Dichlorobenzene-d4	19.000	18.718	1.5	93	0.00
69		1,3-Dichlorobenzene	10.000	10.226	-2.3	99	0.00
70		1,4-Dichlorobenzene	10.000	10.159	-1.6	98	0.00
71		1,2-Dichlorobenzene	10.000	10.402	-4.0	100	0.00
72		n-butylbenzene	10.000	10.348	-3.5	97	0.00
73		1,2-Dibromo-3-chloropropane	10.000	11.937	-19.4	119	0.00
74		1,2,4-Trichlorobenzene	10.000	10.761	-7.6	102	0.00
75		Hexachlorobutadiene	10.000	10.591	-5.9	102	0.00
76		Naphthalene	10.000	11.821	-18.2	113	0.00
77		1,2,3-Trichlorobenzene	10.000	11.222	-12.2	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01701017.D
Acq On : 21 Jun 2021 4:49 pm
Operator : TEC
Sample : 10 ppb icv voc
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 17:15:37 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.958	96	4694413	25.00	ppb		0.00
38) Chlorobenzene-d5	12.746	117	3575745	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	1877054	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.466	65	2384076	25.77	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	103.08%			
24) Dibromofluoromethane	6.975	111	1308582	25.30	ppb		0.00
Spiked Amount 25.000			Recovery =	101.20%			
32) Toluene-d8	10.398	98	5328202	25.31	ppb		0.00
Spiked Amount 25.000			Recovery =	101.24%			
54) Bromofluorobenzene	14.770	95	2250381	25.48	ppb		0.00
Spiked Amount 25.000			Recovery =	101.92%			
68) 1,2-Dichlorobenzene-d4	17.473	152	2032222	18.72	ppb		0.00
Spiked Amount 19.000			Recovery =	98.53%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.249	85	857699	10.21	ppb		98
4) Chloromethane	1.511	50	1357541	10.05	ppb		95
5) Vinyl chloride	1.676	62	1109318	9.62	ppb		95
6) Bromomethane	2.169	96	208948	8.16	ppb		91
7) Chloroethane	2.328	64	484627	9.79	ppb		99
8) Trichlorofluoromethane	2.710	101	1157802	11.10	ppb		96
9) Diethyl ether	3.213	59	1782956	9.94	ppb	#	60
10) 1,1-Dichloroethene	3.513	61	1181285	10.51	ppb	#	70
11) Acetone	3.694	43	657571	10.73	ppb		98
12) Methyl iodide	3.743	142	286662	11.21	ppb		97
13) Carbon disulfide	3.812	76	1216016	8.83	ppb		100
14) Methylene chloride	4.306	84	595081	10.09	ppb		100
15) MTBE (2-methoxy-2-meth...	4.760	73	2534821	10.04	ppb	#	61
16) trans-1,2-Dichloroethene	4.712	61	1350091	9.97	ppb	#	57
17) Acrylonitrile	4.745	53	625202	10.40	ppb	#	78
18) 1,1-Dichloroethane	5.364	63	1695504	10.11	ppb		91
19) Methyl ethyl ketone	6.336	43	935552	11.12	ppb		76
20) 2,2-Dichloropropane	6.223	77	1285832	10.79	ppb		98
21) cis-1,2-Dichloroethene	6.241	96	714679	10.18	ppb		95
22) Bromochloromethane	6.598	130	392858	10.16	ppb		97
23) Chloroform	6.736	83	1350101	10.10	ppb		100
25) 1,1,1-Trichloroethane	6.966	97	1293830	10.47	ppb		85
26) 1,1-Dichloropropene	7.214	75	1081916	10.54	ppb		87
27) Carbon tetrachloride	7.200	117	1029886	10.50	ppb		97
28) Benzene	7.525	78	3082868	10.02	ppb		98
29) 1,2-Dichloroethane	7.579	62	1655927	10.32	ppb		96
30) Trichloroethene	8.505	130	1722410	9.87	ppb	#	85
31) 1,2-Dichloropropane	8.858	63	1041436	9.90	ppb	#	82
33) Dibromomethane	9.040	174	399026	10.10	ppb	#	71
34) Bromodichloromethane	9.298	83	1115091	10.06	ppb		95
35) cis-1,3-Dichloropropene	9.997	75	1308685	10.34	ppb		86
36) Methyl isobutyl ketone	10.284	43	2177335	11.17	ppb		89
37) Toluene	10.502	91	3131126	10.28	ppb		97
39) trans-1,3-Dichloropropene	10.895	75	1106598	11.00	ppb		86
40) 1,1,2-Trichloroethane	11.184	97	715637	10.25	ppb		91
41) Tetrachloroethene	11.363	166	748070	10.21	ppb		93

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01701017.D
Acq On : 21 Jun 2021 4:49 pm
Operator : TEC
Sample : 10 ppb icv voc
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 17:15:37 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

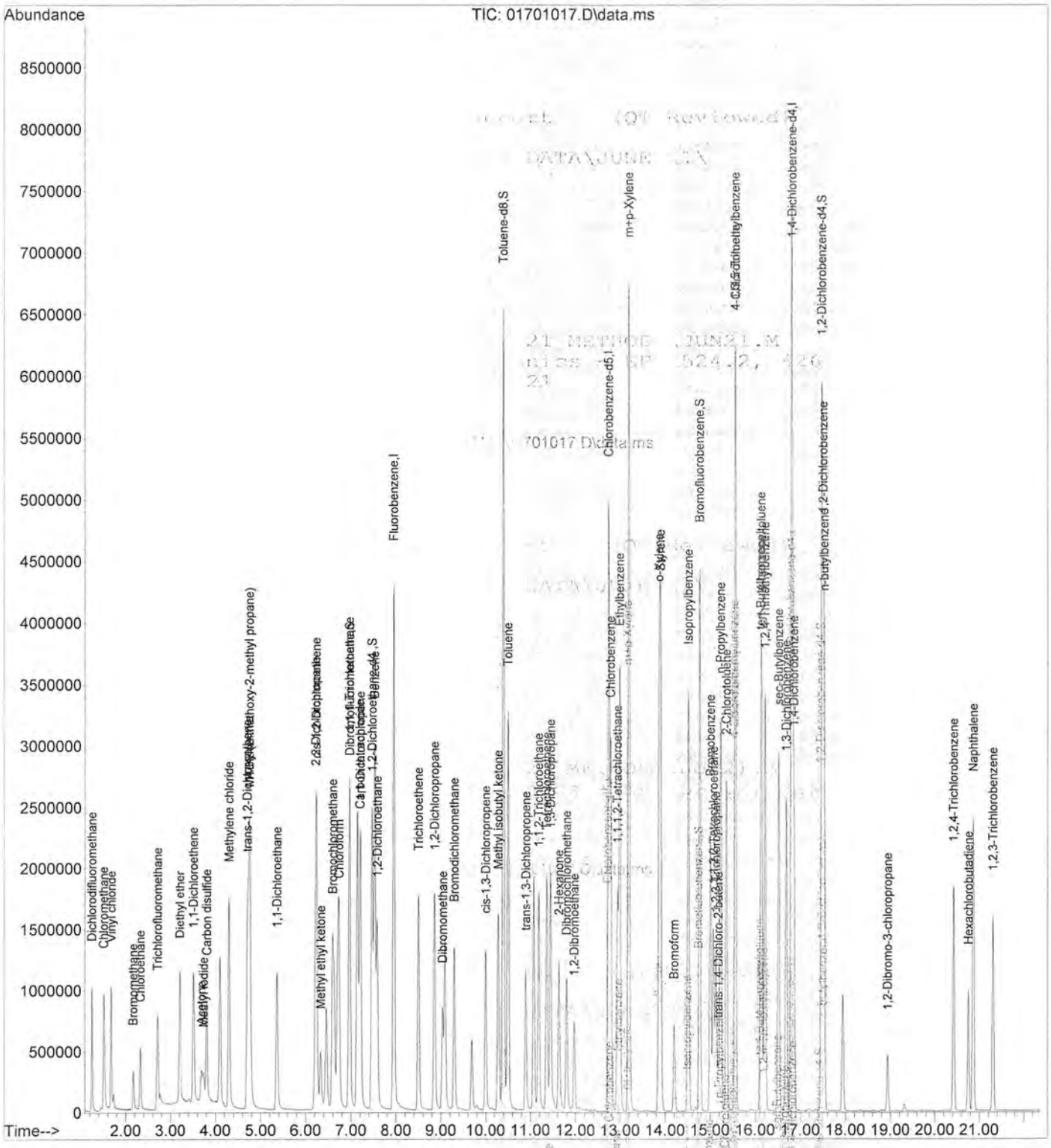
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.636	43	1606733	11.83	ppb		88
43) 1,3-Dichloropropane	11.447	76	1370906	10.44	ppb		98
44) Dibromochloromethane	11.806	129	786541	10.17	ppb		97
45) 1,2-Dibromoethane	11.975	107	704216	10.58	ppb		99
46) Chlorobenzene	12.792	112	1997404	10.15	ppb		86
47) 1,1,1,2-Tetrachloroethane	12.945	131	772453	10.48	ppb		93
48) Ethylbenzene	12.992	91	3641180	10.20	ppb		94
49) m+p-Xylene	13.195	91	5771903	20.61	ppb		93
50) o-Xylene	13.866	91	3041732	10.29	ppb		92
51) Styrene	13.898	104	2381076	10.34	ppb		97
52) Bromoform	14.201	173	501093	10.58	ppb		97
53) Isopropylbenzene	14.513	105	3333236	10.36	ppb		95
55) Bromobenzene	15.010	156	814776	10.68	ppb	#	60
56) n-Propylbenzene	15.234	91	3788952	10.47	ppb		94
57) 1,3,5-Trimethylbenzene	15.557	105	2725726	10.59	ppb		97
58) 2-Chlorotoluene	15.360	91	2436824	10.21	ppb		90
59) 4-Chlorotoluene	15.559	91	2916499	10.51	ppb		91
60) tert-Butylbenzene	16.122	91	1531495	10.65	ppb		94
61) 1,1,2,2-Tetrachloroethane	15.077	83	1141834	11.34	ppb		98
62) trans-1,4-Dichloro-2-b...	15.185	53	208625m	12.79	ppb		
63) 1,2,3-Trichloropropane	15.131	110	378115	11.09	ppb		92
64) 1,2,4-Trimethylbenzene	16.213	105	2793436	10.40	ppb		99
65) sec-Butylbenzene	16.515	105	3007908	10.73	ppb	#	94
66) 4-Isopropyltoluene	16.126	119	2569336	10.57	ppb		93
69) 1,3-Dichlorobenzene	16.682	146	1529912	10.23	ppb		93
70) 1,4-Dichlorobenzene	16.846	146	1556321	10.16	ppb		92
71) 1,2-Dichlorobenzene	17.506	146	1519407	10.40	ppb		96
72) n-butylbenzene	17.525	91	2221730	10.35	ppb	#	94
73) 1,2-Dibromo-3-chloropr...	18.936	157	224952	11.94	ppb		92
74) 1,2,4-Trichlorobenzene	20.424	180	807563	10.76	ppb		98
75) Hexachlorobutadiene	20.756	225	309000	10.59	ppb		89
76) Naphthalene	20.864	128	2678280	11.82	ppb		89
77) 1,2,3-Trichlorobenzene	21.307	180	696278	11.22	ppb		91

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 01701017.D
Acq On : 21 Jun 2021 4:49 pm
Operator : TEC
Sample : 10 ppb icv voc
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 21 17:15:37 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02001020.D
Acq On : 21 Jun 2021 6:21 pm
Operator : TEC
Sample : mbf0547-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 07:54:17 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

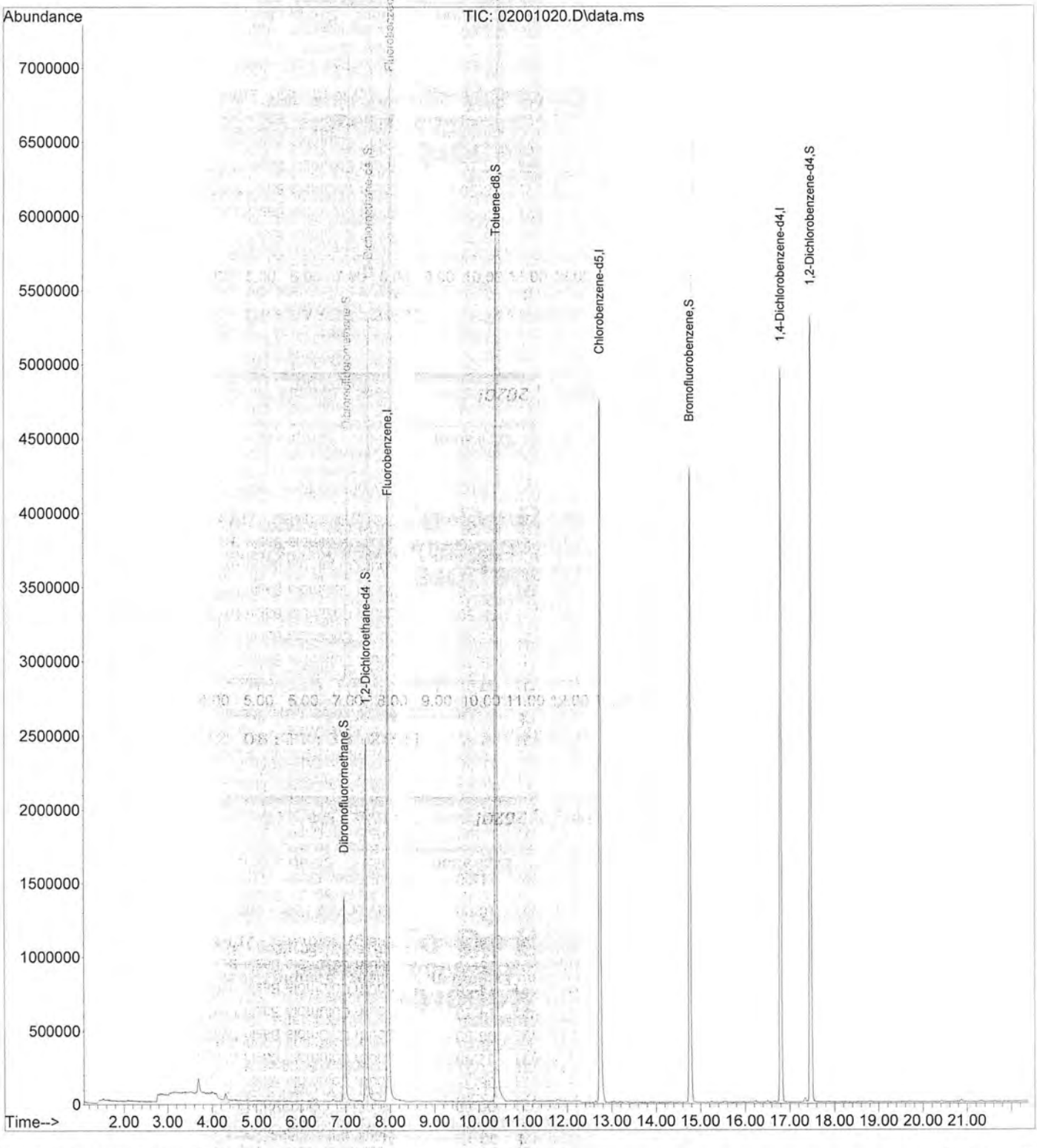
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.959	96	4519703	25.00	ppb	0.00
38) Chlorobenzene-d5	12.747	117	3492237	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	1804376	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.468	65	2414638	27.11	ppb	0.00
Spiked Amount 25.000	Range 85 - 115			Recovery =	108.44%	
24) Dibromofluoromethane	6.975	111	1257361	25.25	ppb	0.00
Spiked Amount 25.000				Recovery =	101.00%	
32) Toluene-d8	10.399	98	5013089	24.74	ppb	0.00
Spiked Amount 25.000				Recovery =	98.96%	
54) Bromofluorobenzene	14.770	95	2196861	25.47	ppb	0.00
Spiked Amount 25.000				Recovery =	101.88%	
68) 1,2-Dichlorobenzene-d4	17.473	152	1978510	18.96	ppb	0.00
Spiked Amount 19.000				Recovery =	99.79%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02001020.D
Acq On : 21 Jun 2021 6:21 pm
Operator : TEC
Sample : mbf0547-13
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 07:54:17 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02101021.D
Acq On : 21 Jun 2021 6:51 pm
Operator : TEC
Sample : mbf0547-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 22 07:54:20 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

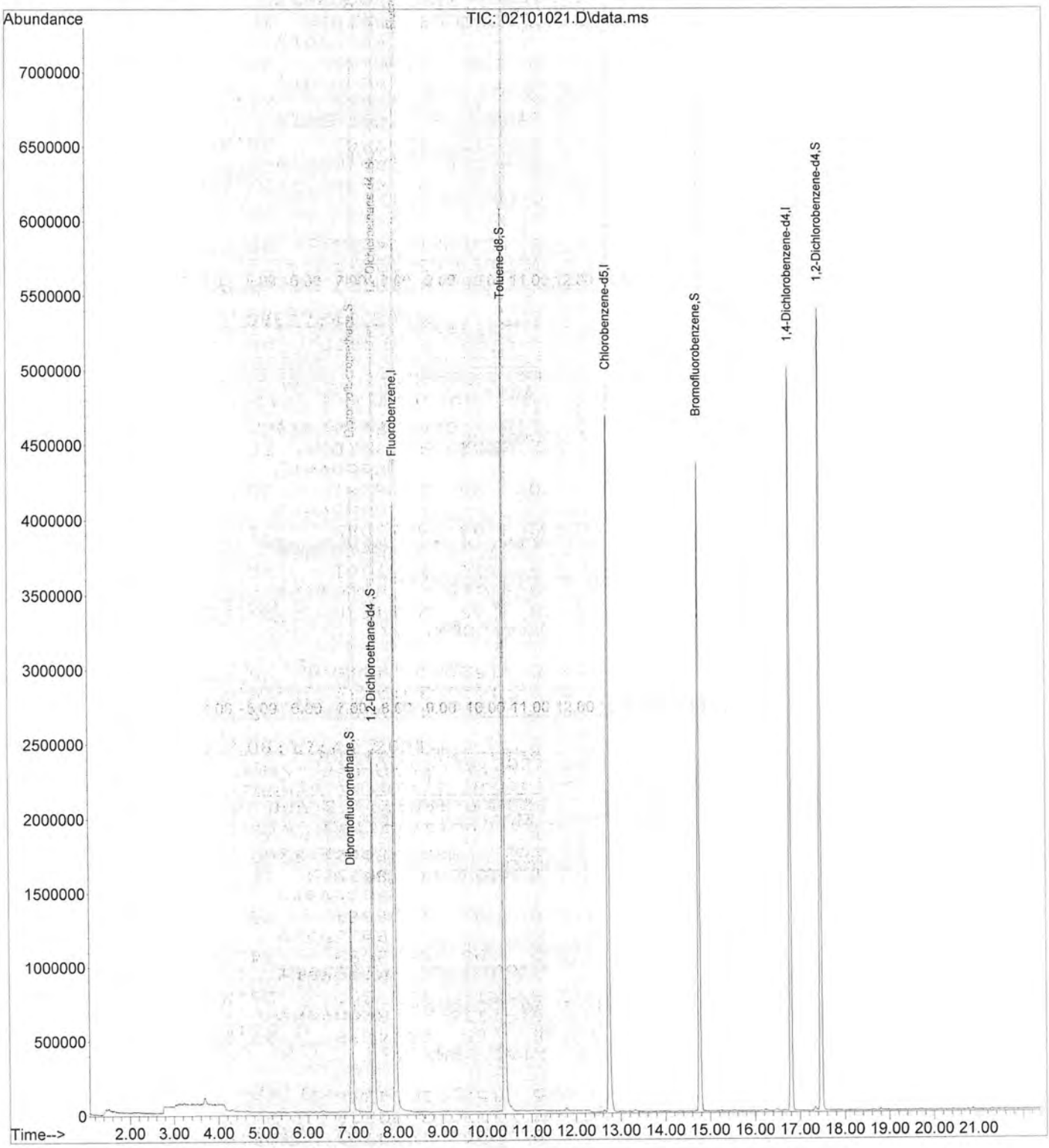
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.958	96	4486341	25.00	ppb	0.00
38) Chlorobenzene-d5	12.746	117	3454408	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	1765424	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.467	65	2407778	27.23	ppb	0.00
Spiked Amount 25.000	Range 85 - 115			Recovery =	108.92%	
24) Dibromofluoromethane	6.976	111	1273147	25.76	ppb	0.00
Spiked Amount 25.000				Recovery =	103.04%	
32) Toluene-d8	10.399	98	4936407	24.54	ppb	0.00
Spiked Amount 25.000				Recovery =	98.16%	
54) Bromofluorobenzene	14.770	95	2164962	25.38	ppb	0.00
Spiked Amount 25.000				Recovery =	101.52%	
68) 1,2-Dichlorobenzene-d4	17.473	152	1945557	19.05	ppb	0.00
Spiked Amount 19.000				Recovery =	100.26%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02101021.D
Acq On : 21 Jun 2021 6:51 pm
Operator : TEC
Sample : mbf0547-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 22 07:54:20 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02201022.D
Acq On : 21 Jun 2021 7:21 pm
Operator : TEC
Sample : mbf0547-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 22 07:54:24 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.960	96	4242267	25.00	ppb	0.00
38) Chlorobenzene-d5	12.748	117	3240185	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1695382	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.469	65	2289093	27.38	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	109.52%		
24) Dibromofluoromethane	6.977	111	1222802	26.16	ppb	0.00
Spiked Amount 25.000			Recovery =	104.64%		
32) Toluene-d8	10.400	98	4635687	24.37	ppb	0.00
Spiked Amount 25.000			Recovery =	97.48%		
54) Bromofluorobenzene	14.772	95	2047556	25.59	ppb	0.00
Spiked Amount 25.000			Recovery =	102.36%		
68) 1,2-Dichlorobenzene-d4	17.474	152	1885637	19.23	ppb	0.00
Spiked Amount 19.000			Recovery =	101.21%		

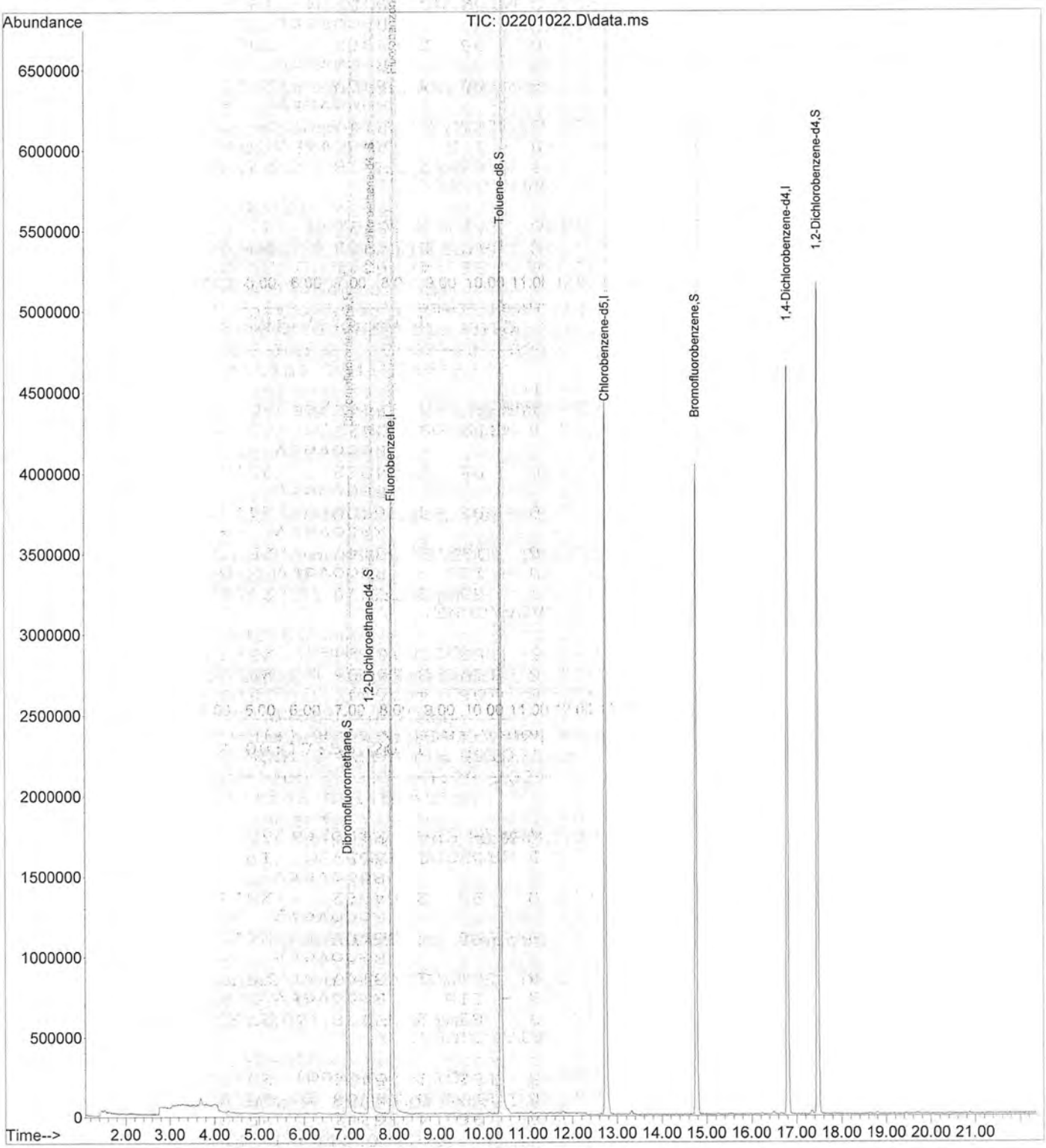
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02201022.D
Acq On : 21 Jun 2021 7:21 pm
Operator : TEC
Sample : mbf0547-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 22 07:54:24 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02301023.D
Acq On : 21 Jun 2021 7:51 pm
Operator : TEC
Sample : mbf0547-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 22 07:54:28 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

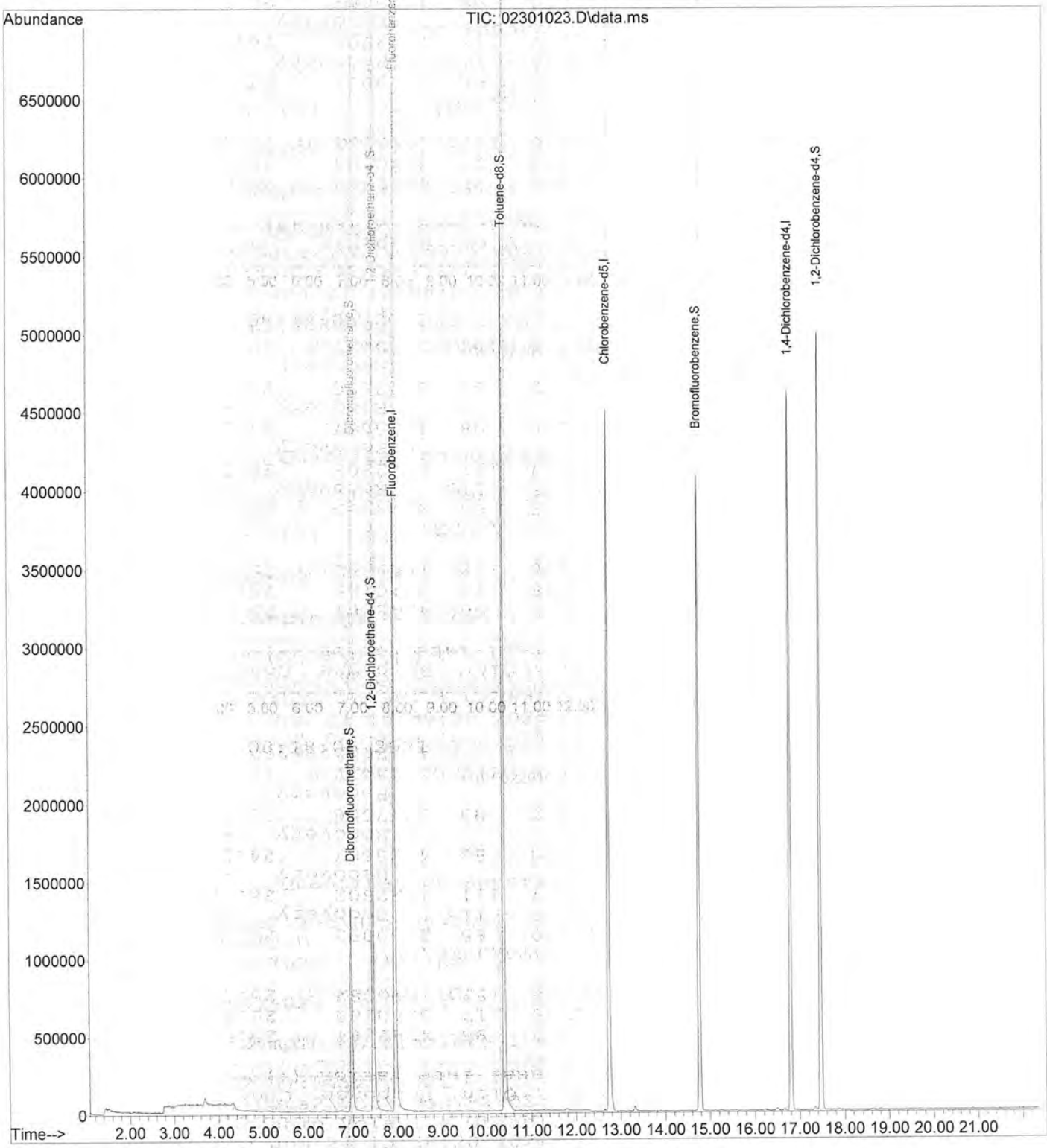
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.959	96	4358022	25.00	ppb	0.00
38) Chlorobenzene-d5	12.747	117	3336634	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.805	152	1654024	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.469	65	2344782	27.30	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	109.20%		
24) Dibromofluoromethane	6.978	111	1221369	25.44	ppb	0.00
Spiked Amount 25.000			Recovery =	101.76%		
32) Toluene-d8	10.400	98	4780694	24.47	ppb	0.00
Spiked Amount 25.000			Recovery =	97.88%		
54) Bromofluorobenzene	14.771	95	2057100	24.96	ppb	0.00
Spiked Amount 25.000			Recovery =	99.84%		
68) 1,2-Dichlorobenzene-d4	17.474	152	1849550	19.33	ppb	0.00
Spiked Amount 19.000			Recovery =	101.74%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02301023.D
Acq On : 21 Jun 2021 7:51 pm
Operator : TEC
Sample : mbf0547-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 22 07:54:28 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02401024.D
Acq On : 21 Jun 2021 8:20 pm
Operator : TEC
Sample : mbf0547-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 22 07:54:32 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

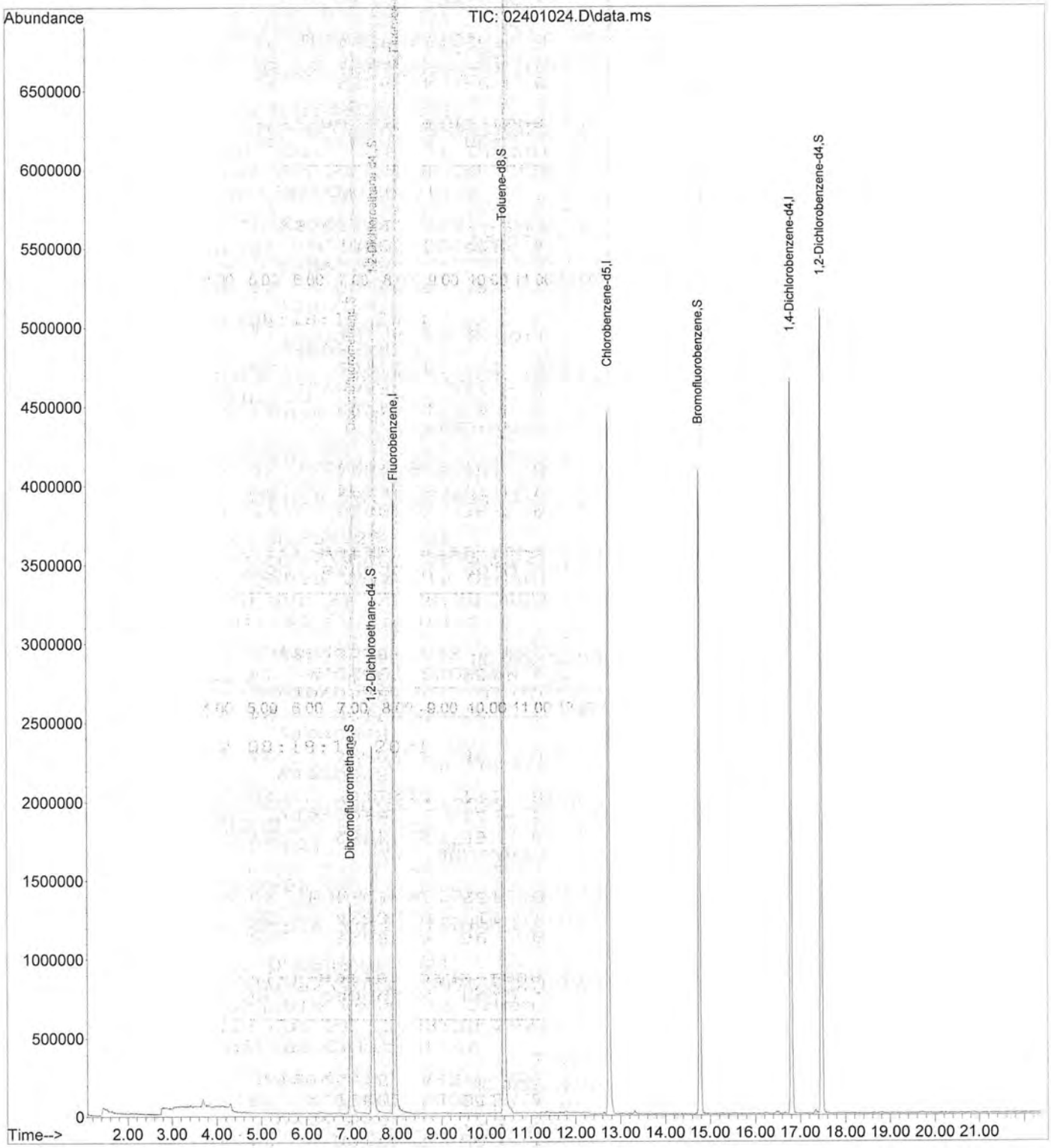
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.960	96	4332807	25.00	ppb	0.00
38) Chlorobenzene-d5	12.747	117	3312578	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1661882	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.469	65	2318234	27.15	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 108.60%			
24) Dibromofluoromethane	6.977	111	1215192	25.45	ppb	0.00
Spiked Amount 25.000			Recovery = 101.80%			
32) Toluene-d8	10.400	98	4732425	24.36	ppb	0.00
Spiked Amount 25.000			Recovery = 97.44%			
54) Bromofluorobenzene	14.771	95	2056503	25.14	ppb	0.00
Spiked Amount 25.000			Recovery = 100.56%			
68) 1,2-Dichlorobenzene-d4	17.474	152	1835798	19.10	ppb	0.00
Spiked Amount 19.000			Recovery = 100.53%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02401024.D
Acq On : 21 Jun 2021 8:20 pm
Operator : TEC
Sample : mbf0547-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 22 07:54:32 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02501025.D
Acq On : 21 Jun 2021 8:50 pm
Operator : TEC
Sample : mbf0547-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 22 07:54:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

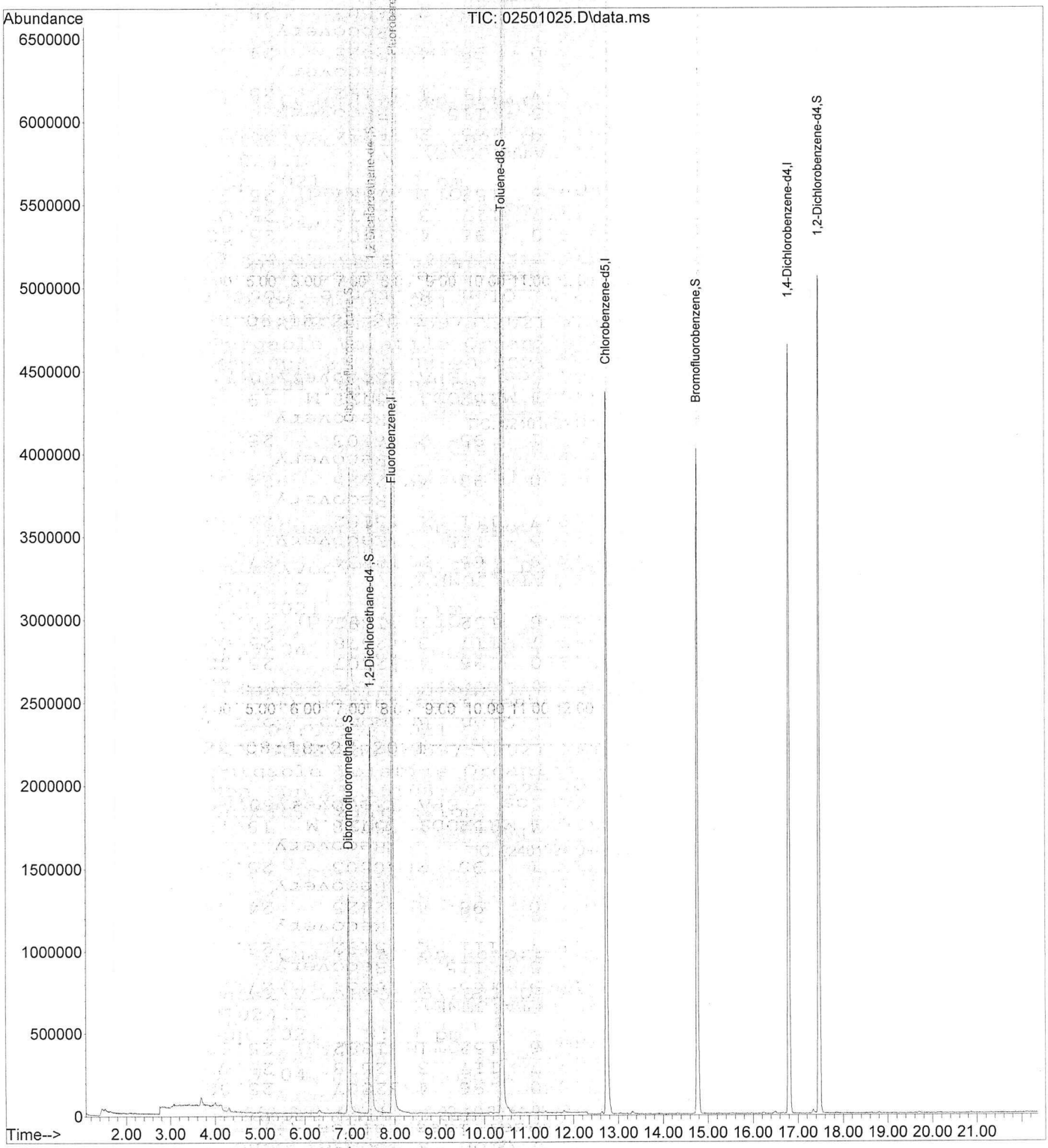
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.960	96	4204324	25.00	ppb	0.00
38) Chlorobenzene-d5	12.748	117	3237656	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1657552	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.469	65	2335497	28.19	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 112.76%			
24) Dibromofluoromethane	6.978	111	1232533	26.61	ppb	0.00
Spiked Amount 25.000			Recovery = 106.44%			
32) Toluene-d8	10.401	98	4572154	24.25	ppb	0.00
Spiked Amount 25.000			Recovery = 97.00%			
54) Bromofluorobenzene	14.771	95	2051659	25.66	ppb	0.00
Spiked Amount 25.000			Recovery = 102.64%			
68) 1,2-Dichlorobenzene-d4	17.474	152	1834770	19.14	ppb	0.00
Spiked Amount 19.000			Recovery = 100.74%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02501025.D
Acq On : 21 Jun 2021 8:50 pm
Operator : TEC
Sample : mbf0547-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 22 07:54:36 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02601026.D
Acq On : 21 Jun 2021 9:19 pm
Operator : TEC
Sample : mbf0547-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 22 07:54:40 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

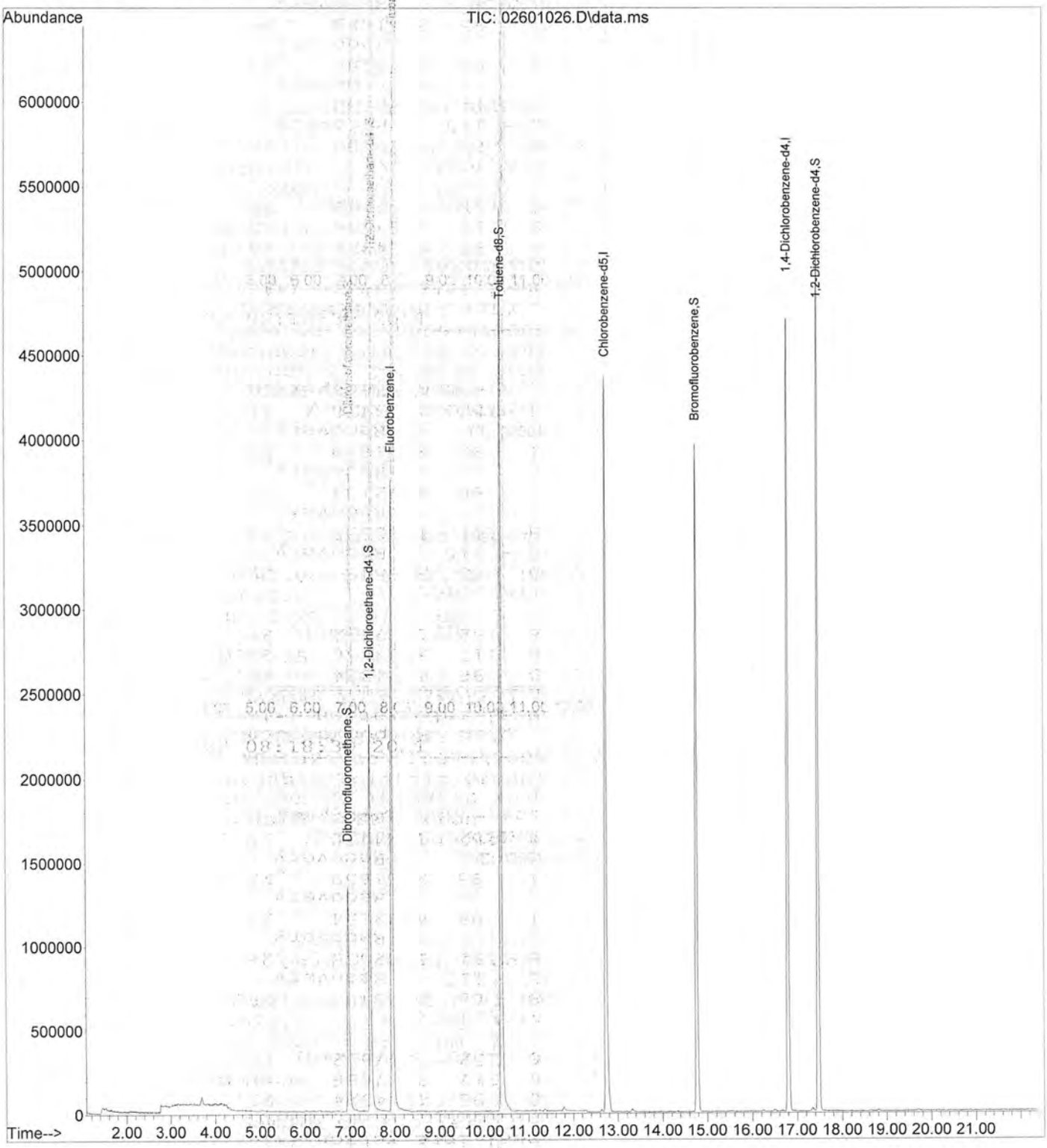
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.961	96	4167247	25.00	ppb	0.00
38) Chlorobenzene-d5	12.748	117	3232089	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.807	152	1668333	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.471	65	2336973	28.45	ppb	0.00
Spiked Amount 25.000	Range 85 - 115			Recovery =	113.80%	
24) Dibromofluoromethane	6.978	111	1228653	26.76	ppb	0.00
Spiked Amount 25.000				Recovery =	107.04%	
32) Toluene-d8	10.401	98	4456668	23.85	ppb	0.00
Spiked Amount 25.000				Recovery =	95.40%	
54) Bromofluorobenzene	14.772	95	2032405	25.46	ppb	0.00
Spiked Amount 25.000				Recovery =	101.84%	
68) 1,2-Dichlorobenzene-d4	17.475	152	1854960	19.22	ppb	0.00
Spiked Amount 19.000				Recovery =	101.16%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02601026.D
Acq On : 21 Jun 2021 9:19 pm
Operator : TEC
Sample : mbf0547-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 22 07:54:40 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02701027.D
Acq On : 21 Jun 2021 9:49 pm
Operator : TEC
Sample : mbf0547-07
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 22 07:54:44 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

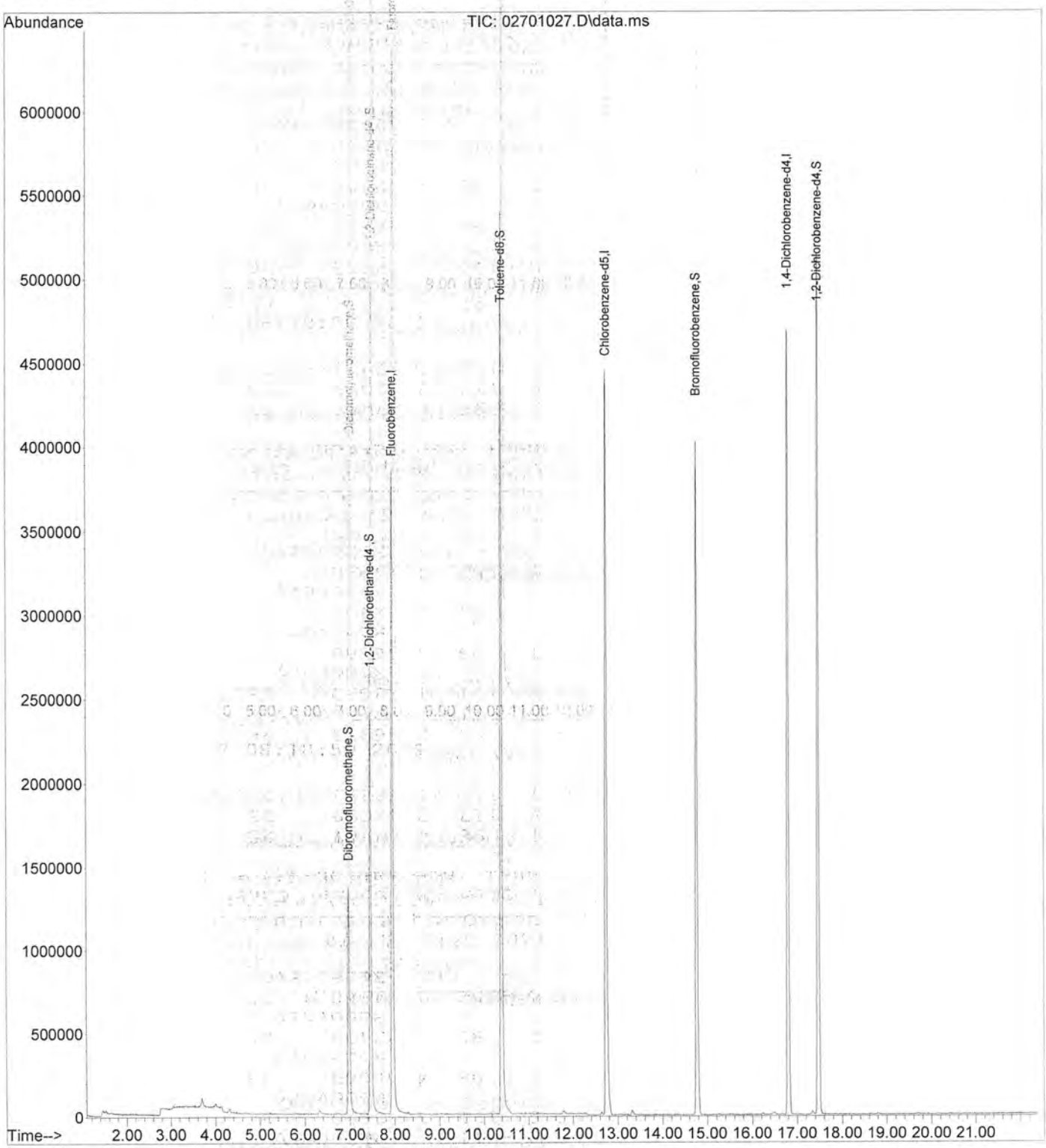
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.961	96	4200107	25.00	ppb	0.00
38) Chlorobenzene-d5	12.748	117	3251459	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1661640	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.471	65	2373321	28.67	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	114.68%		
24) Dibromofluoromethane	6.979	111	1241963	26.84	ppb	0.00
Spiked Amount 25.000			Recovery =	107.36%		
32) Toluene-d8	10.402	98	4495515	23.87	ppb	0.00
Spiked Amount 25.000			Recovery =	95.48%		
54) Bromofluorobenzene	14.772	95	2051786	25.55	ppb	0.00
Spiked Amount 25.000			Recovery =	102.20%		
68) 1,2-Dichlorobenzene-d4	17.474	152	1838391	19.13	ppb	0.00
Spiked Amount 19.000			Recovery =	100.68%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02701027.D
Acq On : 21 Jun 2021 9:49 pm
Operator : TEC
Sample : mbf0547-07
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 22 07:54:44 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02801028.D
Acq On : 21 Jun 2021 10:19 pm
Operator : TEC
Sample : mbf0547-08
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 22 07:54:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.961	96	4306577	25.00	ppb	0.00
38) Chlorobenzene-d5	12.748	117	3274201	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1669084	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.470	65	2364678	27.86	ppb	0.00
Spiked Amount 25.000	Range 85 - 115			Recovery =	111.44%	
24) Dibromofluoromethane	6.978	111	1205317	25.40	ppb	0.00
Spiked Amount 25.000				Recovery =	101.60%	
32) Toluene-d8	10.400	98	4598702	23.82	ppb	0.00
Spiked Amount 25.000				Recovery =	95.28%	
54) Bromofluorobenzene	14.772	95	2059373	25.47	ppb	0.00
Spiked Amount 25.000				Recovery =	101.88%	
68) 1,2-Dichlorobenzene-d4	17.474	M152	1854120	19.21	ppb	0.00
Spiked Amount 19.000				Recovery =	101.11%	

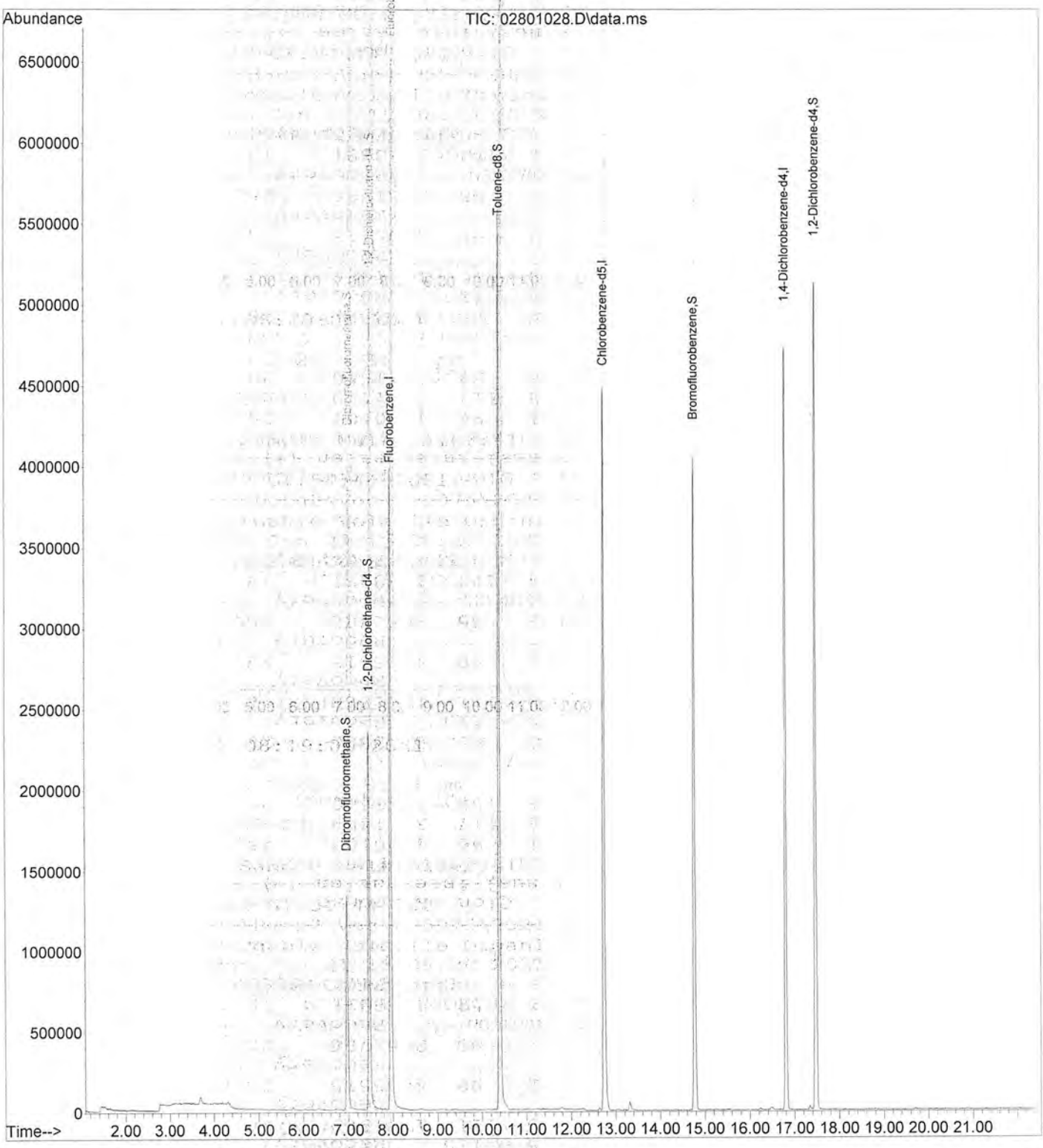
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02801028.D
Acq On : 21 Jun 2021 10:19 pm
Operator : TEC
Sample : mbf0547-08
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 22 07:54:48 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02901029.D
Acq On : 21 Jun 2021 10:48 pm
Operator : TEC
Sample : mbf0547-09
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 22 07:54:52 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

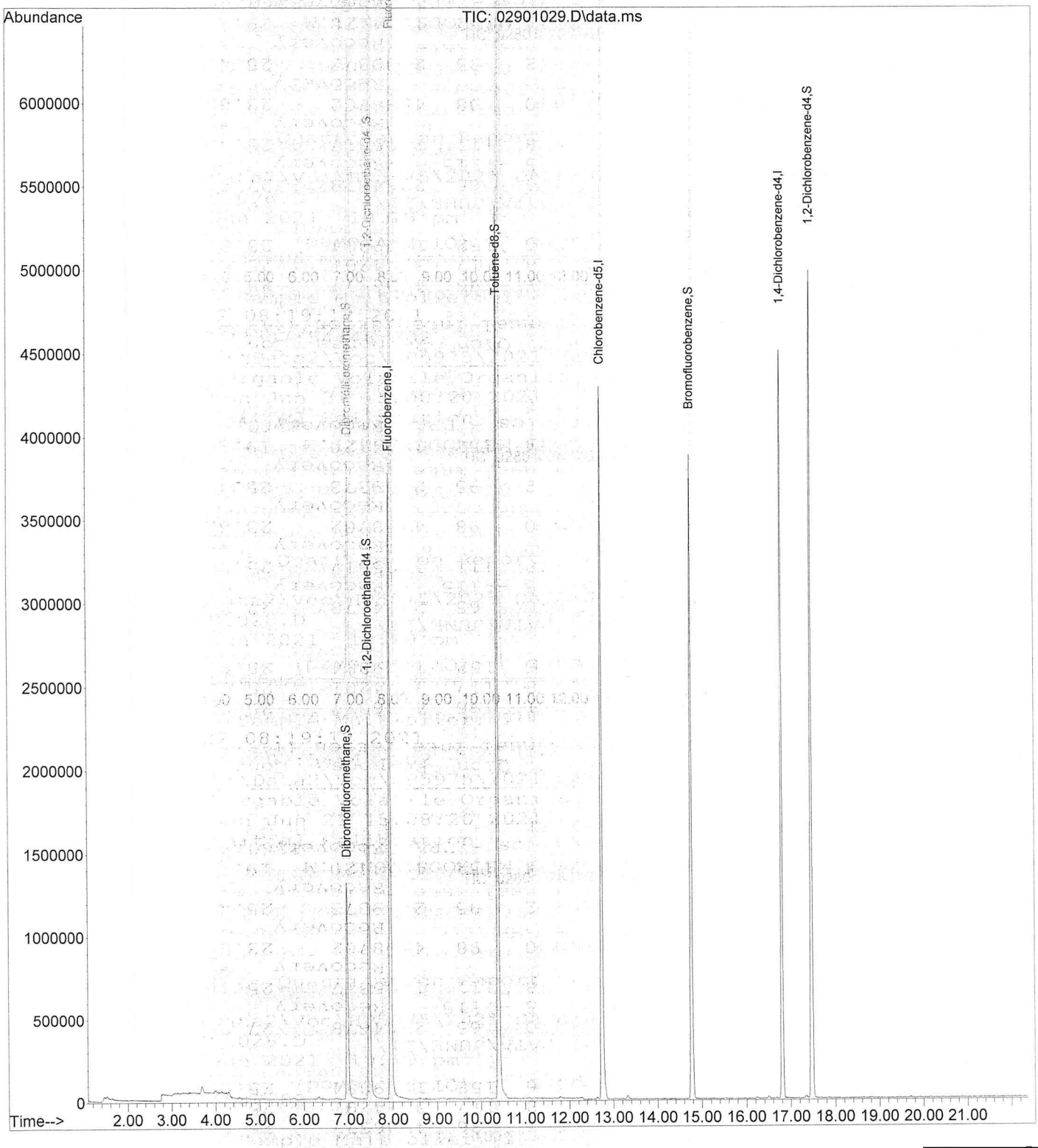
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.961	96	4123489	25.00	ppb	0.00
38) Chlorobenzene-d5	12.748	117	3171757	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.807	152	1615949	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.470	65	2297956	28.28	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	113.12%		
24) Dibromofluoromethane	6.979	111	1193722	26.27	ppb	0.00
Spiked Amount 25.000			Recovery =	105.08%		
32) Toluene-d8	10.401	98	4465133	24.15	ppb	0.00
Spiked Amount 25.000			Recovery =	96.60%		
54) Bromofluorobenzene	14.772	95	1989628	25.40	ppb	0.00
Spiked Amount 25.000			Recovery =	101.60%		
68) 1,2-Dichlorobenzene-d4	17.475	152	1763078	18.86	ppb	0.00
Spiked Amount 19.000			Recovery =	99.26%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 02901029.D
Acq On : 21 Jun 2021 10:48 pm
Operator : TEC
Sample : mbf0547-09
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 22 07:54:52 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03001030.D
Acq On : 21 Jun 2021 11:17 pm
Operator : TEC
Sample : mbf0547-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 22 07:54:56 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

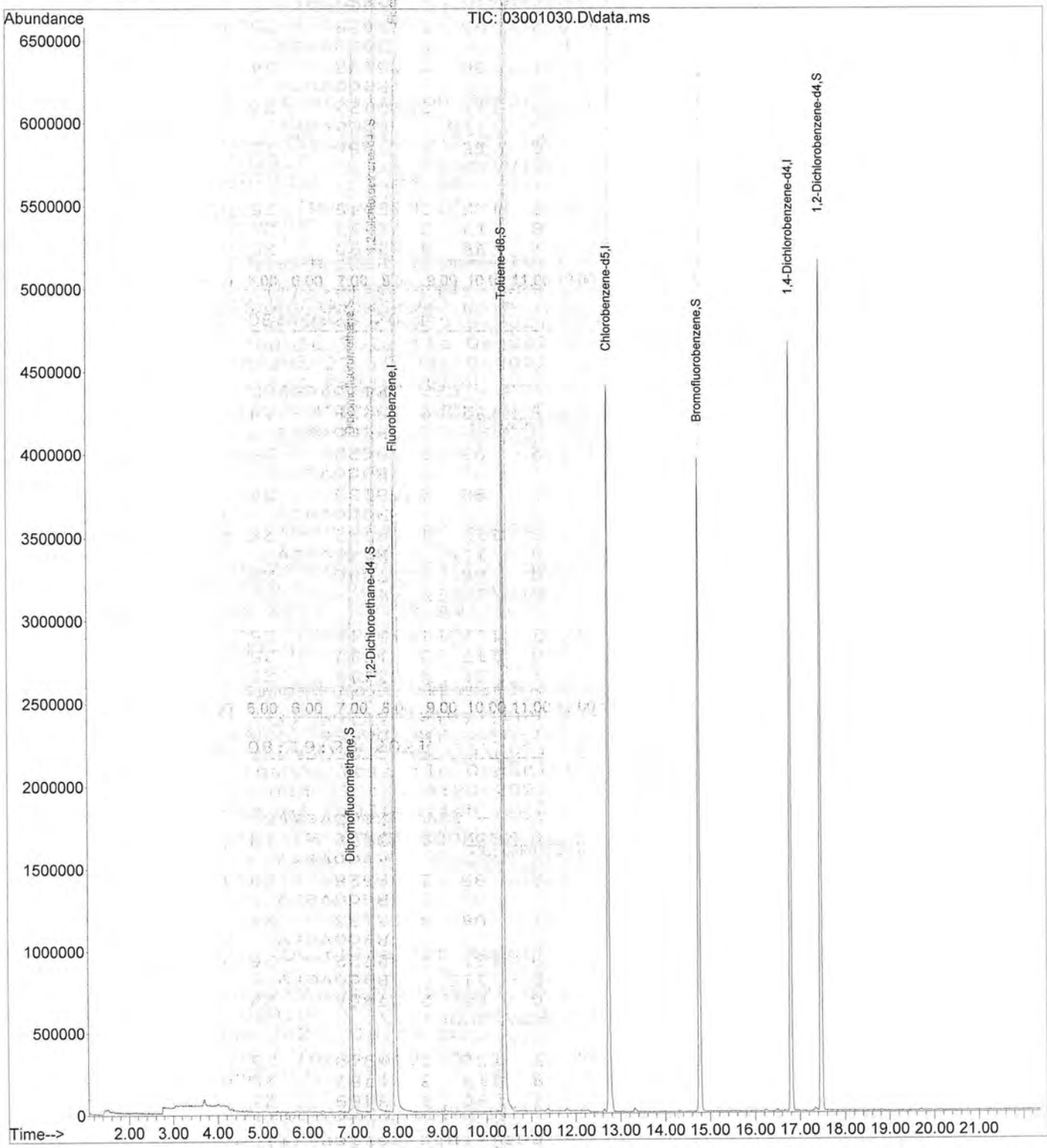
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.962	96	4209087	25.00	ppb	0.00
38) Chlorobenzene-d5	12.749	117	3249760	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.807	152	1640030	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.471	65	2363981	28.50	ppb	0.00
Spiked Amount 25.000	Range 85 - 115			Recovery =	114.00%	
24) Dibromofluoromethane	6.980	111	1206178	26.01	ppb	0.00
Spiked Amount 25.000				Recovery =	104.04%	
32) Toluene-d8	10.402	98	4507152	23.88	ppb	0.00
Spiked Amount 25.000				Recovery =	95.52%	
54) Bromofluorobenzene	14.773	95	2031247	25.31	ppb	0.00
Spiked Amount 25.000				Recovery =	101.24%	
68) 1,2-Dichlorobenzene-d4	17.475	152	1822443	19.21	ppb	0.00
Spiked Amount 19.000				Recovery =	101.11%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03001030.D
Acq On : 21 Jun 2021 11:17 pm
Operator : TEC
Sample : mbf0547-10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 22 07:54:56 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03101031.D
Acq On : 21 Jun 2021 11:47 pm
Operator : TEC
Sample : mbf0547-11
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 22 07:55:00 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

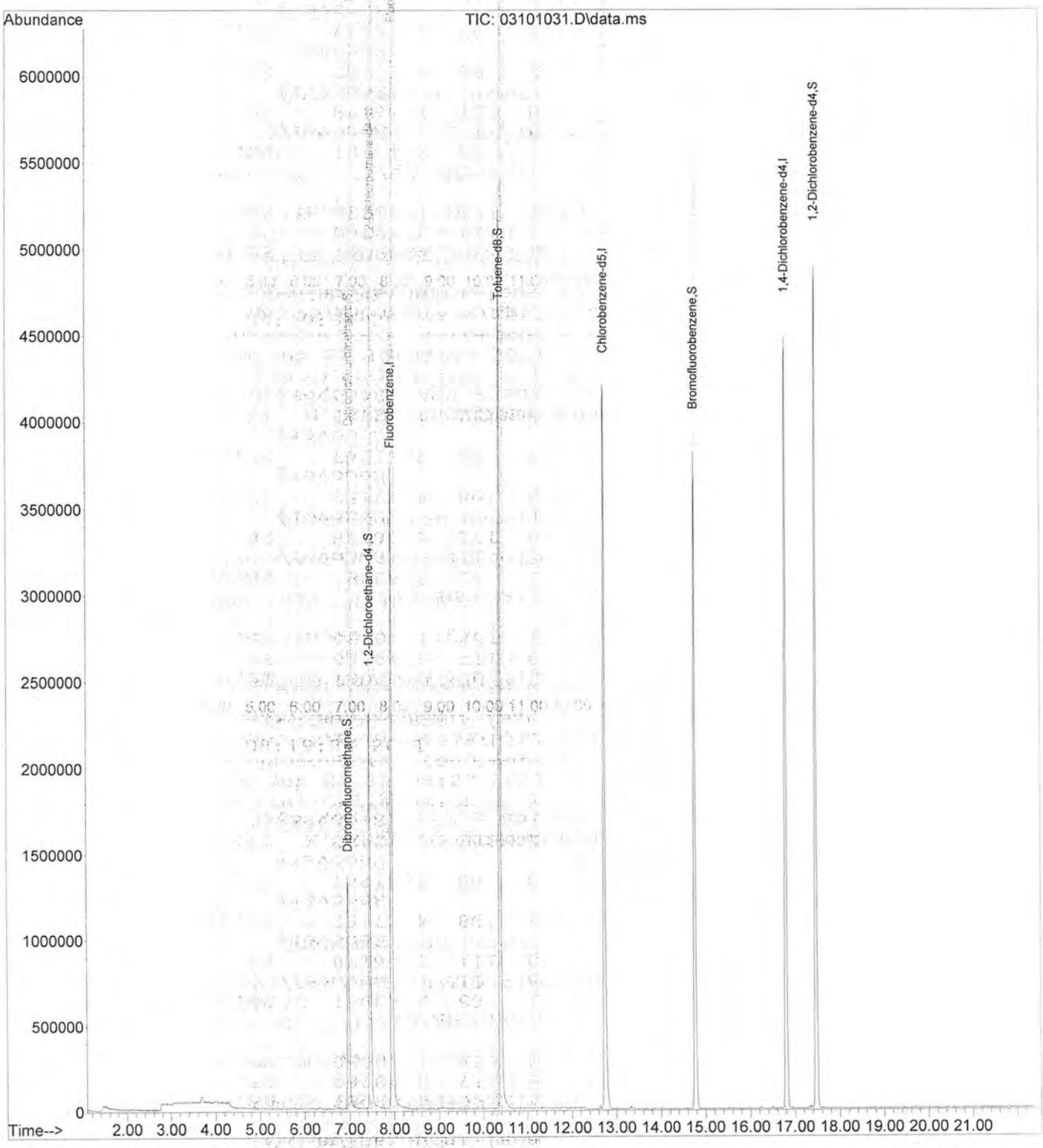
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.961	96	4063224	25.00	ppb	0.00
38) Chlorobenzene-d5	12.749	117	3127414	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.807	152	1566761	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.470	65	2332974	29.13	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	116.52%#		
24) Dibromofluoromethane	6.979	111	1237226	27.64	ppb	0.00
Spiked Amount 25.000			Recovery =	110.56%		
32) Toluene-d8	10.402	98	4354560	23.90	ppb	0.00
Spiked Amount 25.000			Recovery =	95.60%		
54) Bromofluorobenzene	14.773	95	1960948	25.39	ppb	0.00
Spiked Amount 25.000			Recovery =	101.56%		
68) 1,2-Dichlorobenzene-d4	17.475	152	1729010	19.08	ppb	0.00
Spiked Amount 19.000			Recovery =	100.42%		
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03101031.D
Acq On : 21 Jun 2021 11:47 pm
Operator : TEC
Sample : mbf0547-11
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jun 22 07:55:00 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03201032.D
Acq On : 22 Jun 2021 12:16 am
Operator : TEC
Sample : mbf0547-12
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 22 07:55:03 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

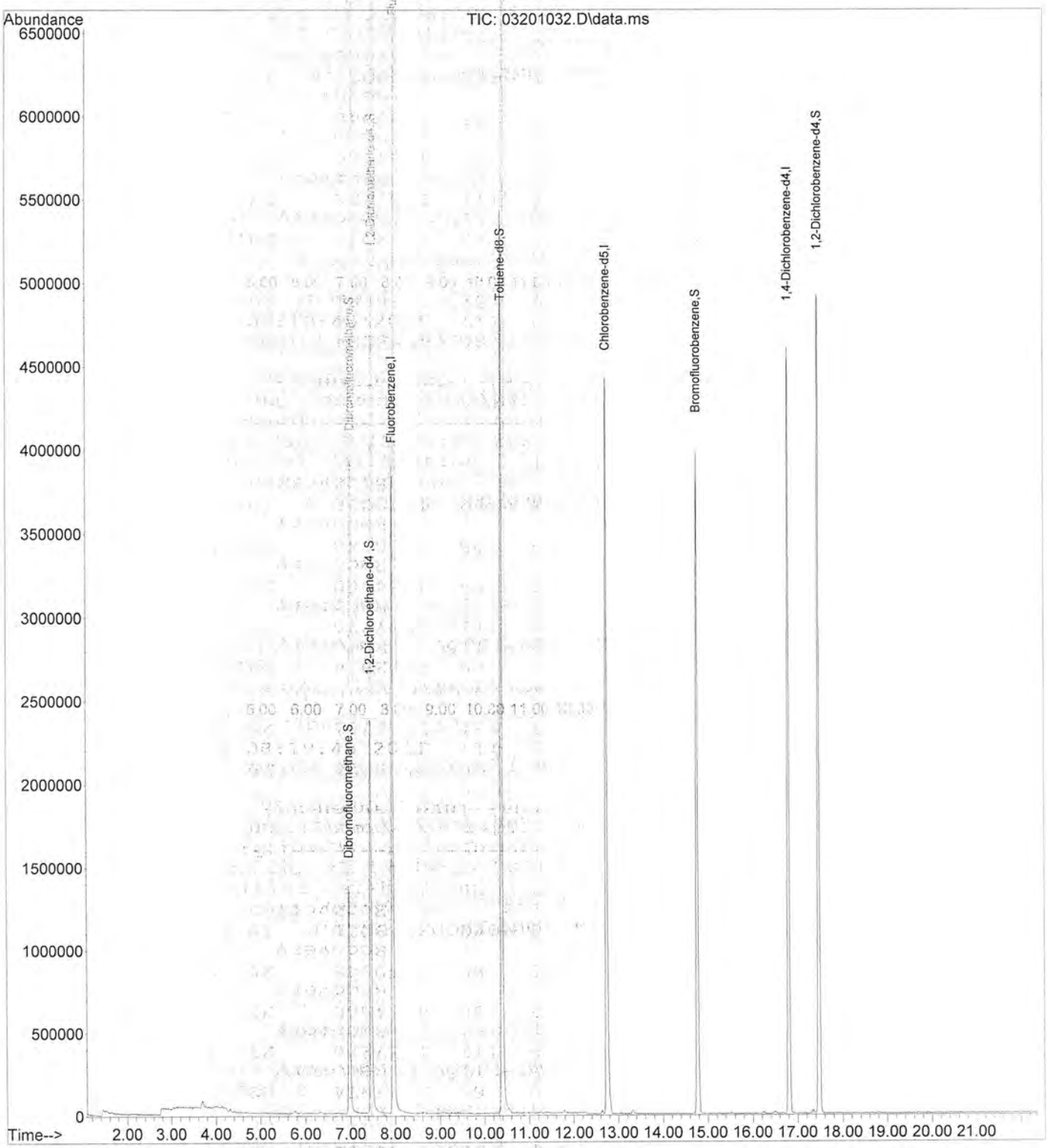
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.962	96	4241252	25.00	ppb	0.00
38) Chlorobenzene-d5	12.749	117	3215348	25.00	ppb	0.00
67) 1,4-Dichlorobenzene-d4	16.807	152	1617741	25.00	ppb	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	7.471	65	2413303	28.87	ppb	0.00
Spiked Amount 25.000	Range 85 - 115			Recovery =	115.48%#	
24) Dibromofluoromethane	6.980	111	1240173	26.54	ppb	0.00
Spiked Amount 25.000				Recovery =	106.16%	
32) Toluene-d8	10.402	98	4487575	23.60	ppb	0.00
Spiked Amount 25.000				Recovery =	94.40%	
54) Bromofluorobenzene	14.772	95	2017762	25.41	ppb	0.00
Spiked Amount 25.000				Recovery =	101.64%	
68) 1,2-Dichlorobenzene-d4	17.475	152	1782560	19.05	ppb	0.00
Spiked Amount 19.000				Recovery =	100.26%	
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03201032.D
Acq On : 22 Jun 2021 12:16 am
Operator : TEC
Sample : mbf0547-12
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jun 22 07:55:03 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03301033.D
Acq On : 22 Jun 2021 12:46 am
Operator : TEC
Sample : ms mbf0547-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 22 07:55:07 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.962	96	4359426	25.00	ppb		0.00
38) Chlorobenzene-d5	12.748	117	3268996	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1637723	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.469	65	2370619	27.59	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	110.36%			
24) Dibromofluoromethane	6.979	111	1233610	25.68	ppb		0.00
Spiked Amount 25.000			Recovery =	102.72%			
32) Toluene-d8	10.401	98	4586007	23.46	ppb		0.00
Spiked Amount 25.000			Recovery =	93.84%			
54) Bromofluorobenzene	14.771	95	2072771	25.67	ppb		0.00
Spiked Amount 25.000			Recovery =	102.68%			
68) 1,2-Dichlorobenzene-d4	17.475	152	1801039	19.01	ppb		0.00
Spiked Amount 19.000			Recovery =	100.05%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.255	85	848823	10.88	ppb		95
4) Chloromethane	1.518	50	1075604	8.55	ppb		93
5) Vinyl chloride	1.686	62	1061210	9.91	ppb		95
6) Bromomethane	2.182	96	261868	11.09	ppb		99
7) Chloroethane	2.337	64	475002	10.34	ppb		96
8) Trichlorofluoromethane	2.723	101	1139946	11.77	ppb		92
9) Diethyl ether	3.216	59	780035	10.66	ppb	#	59
10) 1,1-Dichloroethene	3.527	61	1113842	10.68	ppb		74
11) Acetone	3.694	43	576149	9.93	ppb		99
12) Methyl iodide	3.749	142	271823	11.43	ppb		97
13) Carbon disulfide	3.819	76	1347751	10.54	ppb		100
14) Methylene chloride	4.314	84	474082	8.57	ppb		91
15) MTBE (2-methoxy-2-meth...	4.761	73	2416297	10.31	ppb	#	61
16) trans-1,2-Dichloroethene	4.720	61	1278890	10.17	ppb	#	60
17) Acrylonitrile	4.746	53	511247	9.16	ppb	#	78
18) 1,1-Dichloroethane	5.369	63	1601219	10.28	ppb		91
19) Methyl ethyl ketone	6.335	43	740793	9.48	ppb		75
20) 2,2-Dichloropropane	6.229	77	1170637	10.57	ppb		99
21) cis-1,2-Dichloroethene	6.246	96	662586	10.16	ppb		94
22) Bromochloromethane	6.602	130	358928	9.99	ppb		94
23) Chloroform	6.741	83	1305184	10.52	ppb		97
25) 1,1,1-Trichloroethane	6.971	97	1282948	11.18	ppb		85
26) 1,1-Dichloropropene	7.217	75	1007009	10.57	ppb		89
27) Carbon tetrachloride	7.206	117	1016350	11.16	ppb		98
28) Benzene	7.529	78	2884886	10.10	ppb		100
29) 1,2-Dichloroethane	7.583	62	1662093	11.15	ppb		98
30) Trichloroethene	8.509	130	690328	10.16	ppb	#	86
31) 1,2-Dichloropropane	8.861	63	1010256	10.35	ppb	#	83
33) Dibromomethane	9.044	174	359898	9.81	ppb	#	69
34) Bromodichloromethane	9.300	83	1087842	10.57	ppb		97
35) cis-1,3-Dichloropropene	9.999	75	1155101	9.83	ppb		84
36) Methyl isobutyl ketone	10.286	43	1866706	10.31	ppb		86
37) Toluene	10.504	91	2582225	9.13	ppb		98
39) trans-1,3-Dichloropropene	10.899	75	797168	8.84	ppb		88
40) 1,1,2-Trichloroethane	11.186	97	630160	9.87	ppb		95
41) Tetrachloroethene	11.366	166	689176	10.28	ppb		96

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03301033.D
Acq On : 22 Jun 2021 12:46 am
Operator : TEC
Sample : ms mbf0547-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 22 07:55:07 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

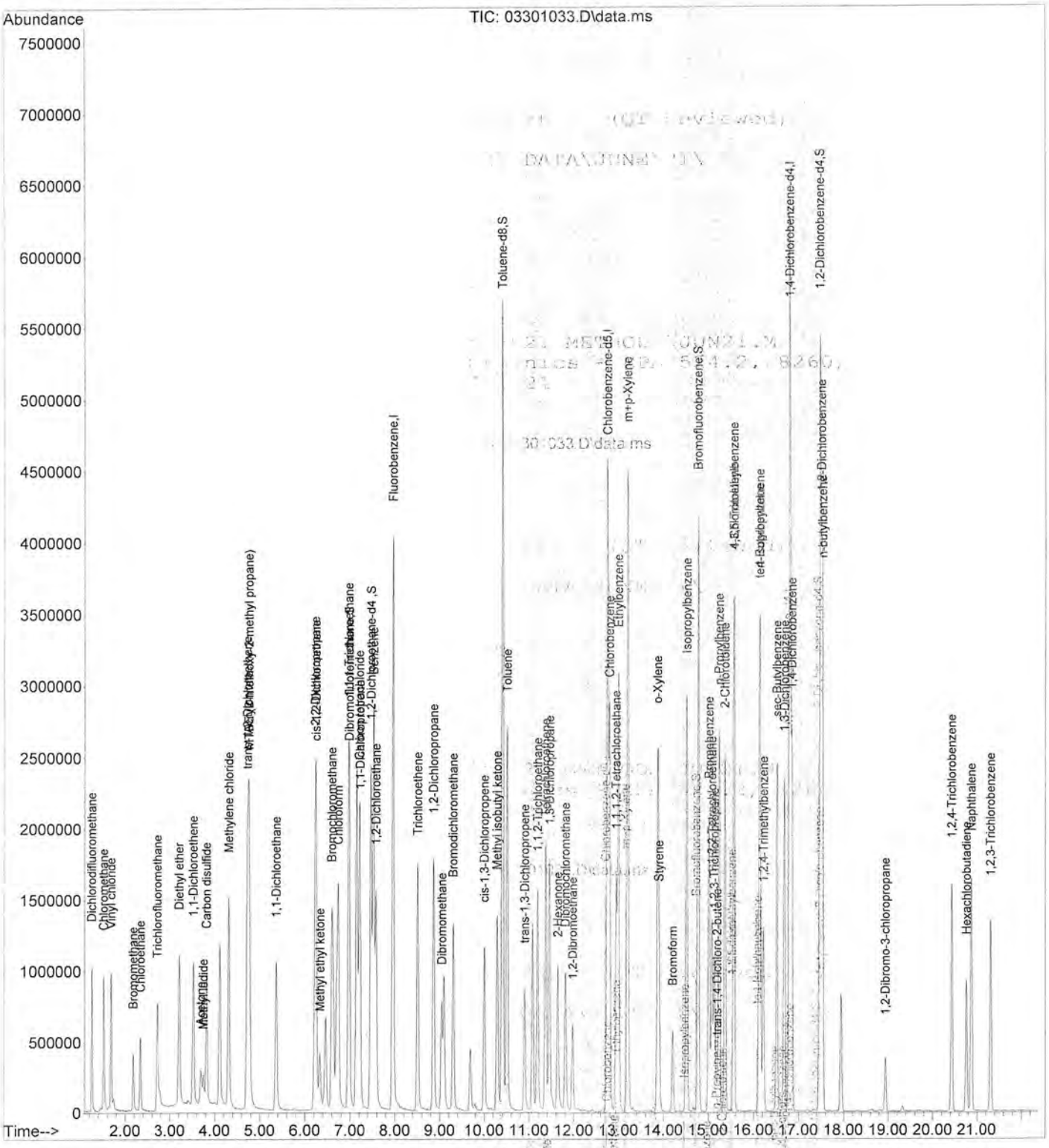
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.639	43	1397761	11.26	ppb		83
43) 1,3-Dichloropropane	11.450	76	1213414	10.11	ppb		98
44) Dibromochloromethane	11.808	129	680991	9.63	ppb		95
45) 1,2-Dibromoethane	11.977	107	599610	9.86	ppb		98
46) Chlorobenzene	12.794	112	1789031	9.95	ppb		88
47) 1,1,1,2-Tetrachloroethane	12.946	131	674449	10.01	ppb		91
48) Ethylbenzene	12.994	91	3044935	9.33	ppb		89
49) m+p-Xylene	13.197	91	3812346	14.89	ppb		94
50) o-Xylene	13.868	91	2156764	7.98	ppb		90
51) Styrene	13.898	104	584714	2.78	ppb		89
52) Bromoform	14.203	173	396487	9.19	ppb		95
53) Isopropylbenzene	14.515	105	2856617	9.71	ppb		95
55) Bromobenzene	15.011	156	702183	10.07	ppb	#	58
56) n-Propylbenzene	15.235	91	3154081	9.53	ppb		94
57) 1,3,5-Trimethylbenzene	15.559	105	959090	4.08	ppb		93
58) 2-Chlorotoluene	15.362	91	2184224	10.01	ppb	#	87
59) 4-Chlorotoluene	15.560	91	2370788m	9.35	ppb		
60) tert-Butylbenzene	16.124	91	1394005	10.60	ppb		95
61) 1,1,2,2-Tetrachloroethane	15.078	83	1004143	10.91	ppb		94
62) trans-1,4-Dichloro-2-b...	15.194	53	122184m	8.99	ppb		
63) 1,2,3-Trichloropropane	15.133	110	323849	10.39	ppb		86
64) 1,2,4-Trimethylbenzene	16.214	105	1073472	4.37	ppb		92
65) sec-Butylbenzene	16.516	105	2526589	9.86	ppb		94
66) 4-Isopropyltoluene	16.127	119	2272791	10.23	ppb		92
69) 1,3-Dichlorobenzene	16.684	146	1306957	10.01	ppb		90
70) 1,4-Dichlorobenzene	16.848	146	1384537	10.36	ppb		92
71) 1,2-Dichlorobenzene	17.508	146	1335442	10.48	ppb		91
72) n-butylbenzene	17.527	91	1882224	10.05	ppb	#	95
73) 1,2-Dibromo-3-chloropr...	18.937	157	178105	10.83	ppb		100
74) 1,2,4-Trichlorobenzene	20.425	180	681440	10.41	ppb		94
75) Hexachlorobutadiene	20.757	225	287106	11.28	ppb		88
76) Naphthalene	20.865	128	1842120	9.32	ppb		90
77) 1,2,3-Trichlorobenzene	21.309	180	577285	10.66	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03301033.D
Acq On : 22 Jun 2021 12:46 am
Operator : TEC
Sample : ms mbf0547-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jun 22 07:55:07 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03401034.D
Acq On : 22 Jun 2021 1:15 am
Operator : TEC
Sample : msd mbf0547-10
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 22 07:55:11 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.962	96	4306545	25.00	ppb		0.00
38) Chlorobenzene-d5	12.748	117	3248748	25.00	ppb		0.00
67) 1,4-Dichlorobenzene-d4	16.806	152	1628766	25.00	ppb		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	7.470	65	2346578	27.65	ppb		0.00
Spiked Amount 25.000	Range 85 - 115		Recovery =	110.60%			
24) Dibromofluoromethane	6.980	111	1232916	25.98	ppb		0.00
Spiked Amount 25.000			Recovery =	103.92%			
32) Toluene-d8	10.401	98	4591477	23.78	ppb		0.00
Spiked Amount 25.000			Recovery =	95.12%			
54) Bromofluorobenzene	14.772	95	2034897	25.36	ppb		0.00
Spiked Amount 25.000			Recovery =	101.44%			
68) 1,2-Dichlorobenzene-d4	17.475	152	1797377	19.08	ppb		0.00
Spiked Amount 19.000			Recovery =	100.42%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.255	85	857443	11.12	ppb		97
4) Chloromethane	1.518	50	1207309	9.73	ppb		95
5) Vinyl chloride	1.683	62	1089409	10.30	ppb		96
6) Bromomethane	2.182	96	275202	11.81	ppb		96
7) Chloroethane	2.337	64	486547	10.72	ppb		99
8) Trichlorofluoromethane	2.720	101	1131761	11.83	ppb		92
9) Diethyl ether	3.217	59	766690	10.60	ppb	#	59
10) 1,1-Dichloroethene	3.527	61	1143655	11.10	ppb	#	72
11) Acetone	3.694	43	573414	10.03	ppb		96
12) Methyl iodide	3.750	142	252354	10.78	ppb		100
13) Carbon disulfide	3.819	76	1314231	10.40	ppb		100
14) Methylene chloride	4.314	84	552558	10.23	ppb		95
15) MTBE (2-methoxy-2-meth...	4.761	73	2424221	10.47	ppb	#	60
16) trans-1,2-Dichloroethene	4.719	61	1308222	10.53	ppb	#	59
17) Acrylonitrile	4.746	53	533579	9.67	ppb	#	81
18) 1,1-Dichloroethane	5.370	63	1626841	10.58	ppb		92
19) Methyl ethyl ketone	6.335	43	749565	9.71	ppb		75
20) 2,2-Dichloropropane	6.228	77	1176127	10.75	ppb		99
21) cis-1,2-Dichloroethene	6.247	96	664082	10.31	ppb		94
22) Bromochloromethane	6.603	130	362155	10.21	ppb		99
23) Chloroform	6.741	83	1315526	10.73	ppb		99
25) 1,1,1-Trichloroethane	6.971	97	1292534	11.40	ppb		85
26) 1,1-Dichloropropene	7.217	75	1024474	10.88	ppb		87
27) Carbon tetrachloride	7.206	117	1025622	11.40	ppb		98
28) Benzene	7.530	78	2867167	10.16	ppb		98
29) 1,2-Dichloroethane	7.583	62	1662840	10.30	ppb		96
30) Trichloroethene	8.509	130	1677380	10.09	ppb	#	84
31) 1,2-Dichloropropane	8.862	63	1011727	10.49	ppb	#	82
33) Dibromomethane	9.044	174	355794	19.82	ppb	#	72
34) Bromodichloromethane	9.301	83	1098102	10.80	ppb		96
35) cis-1,3-Dichloropropene	9.999	75	1188557	10.23	ppb		87
36) Methyl isobutyl ketone	10.286	43	1811066	10.13	ppb		86
37) Toluene	10.505	91	2614565	19.36	ppb		96
39) trans-1,3-Dichloropropene	10.899	75	873109	9.67	ppb		85
40) 1,1,2-Trichloroethane	11.186	97	639809	10.09	ppb		94
41) Tetrachloroethene	11.367	166	684358	10.28	ppb		91

Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03401034.D
Acq On : 22 Jun 2021 1:15 am
Operator : TEC
Sample : msd mbf0547-10
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 22 07:55:11 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

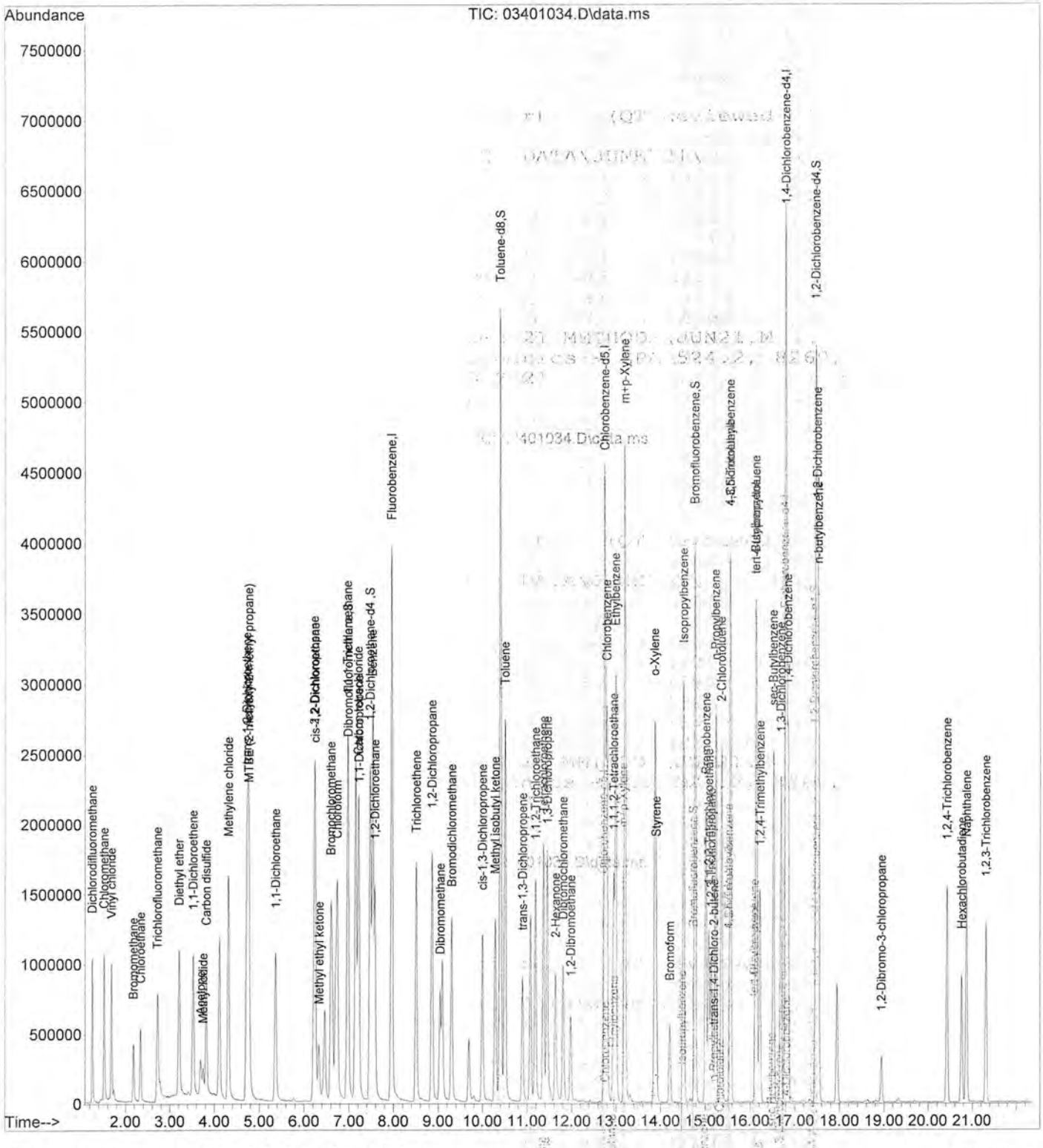
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Hexanone	11.639	43	1276664	10.34	ppb		86
43) 1,3-Dichloropropane	11.450	76	1218547	10.21	ppb		98
44) Dibromochloromethane	11.808	129	686540	9.77	ppb		89
45) 1,2-Dibromoethane	11.977	107	607225	10.04	ppb		95
46) Chlorobenzene	12.795	112	1806742	10.11	ppb		84
47) 1,1,1,2-Tetrachloroethane	12.947	131	678718	10.14	ppb		91
48) Ethylbenzene	12.994	91	3091083	9.53	ppb		90
49) m+p-Xylene	13.197	91	4030610	15.84	ppb		92
50) o-Xylene	13.868	91	2244083	8.35	ppb		91
51) Styrene	13.898	104	757597	3.62	ppb		87
52) Bromoform	14.204	173	396799	9.26	ppb		89
53) Isopropylbenzene	14.515	105	2901603	9.93	ppb		94
55) Bromobenzene	15.012	156	707761	10.21	ppb	#	52
56) n-Propylbenzene	15.235	91	3229945	9.82	ppb		94
57) 1,3,5-Trimethylbenzene	15.559	105	1112930	4.76	ppb		96
58) 2-Chlorotoluene	15.362	91	2219363	10.24	ppb	#	86
59) 4-Chlorotoluene	15.561	91	2397601	9.51	ppb		89
60) tert-Butylbenzene	16.124	91	1427103	10.92	ppb		91
61) 1,1,2,2-Tetrachloroethane	15.078	83	914216	9.99	ppb		97
62) trans-1,4-Dichloro-2-b...	15.194	53	131376m	9.58	ppb		
63) 1,2,3-Trichloropropane	15.132	110	311973	10.07	ppb		86
64) 1,2,4-Trimethylbenzene	16.214	105	1249548	5.12	ppb		95
65) sec-Butylbenzene	16.517	105	2559380	10.05	ppb		94
66) 4-Isopropyltoluene	16.127	119	2292619	10.38	ppb		92
69) 1,3-Dichlorobenzene	16.684	146	1341494	10.33	ppb		92
70) 1,4-Dichlorobenzene	16.848	146	1369763	10.30	ppb		93
71) 1,2-Dichlorobenzene	17.508	146	1310843	10.34	ppb		96
72) n-butylbenzene	17.527	91	1923438	10.32	ppb		93
73) 1,2-Dibromo-3-chloropr...	18.938	157	156254	9.56	ppb		95
74) 1,2,4-Trichlorobenzene	20.426	180	663289	10.19	ppb		93
75) Hexachlorobutadiene	20.757	225	283778	11.21	ppb		88
76) Naphthalene	20.865	128	1711089	8.70	ppb		85
77) 1,2,3-Trichlorobenzene	21.308	180	539878	10.03	ppb		100

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

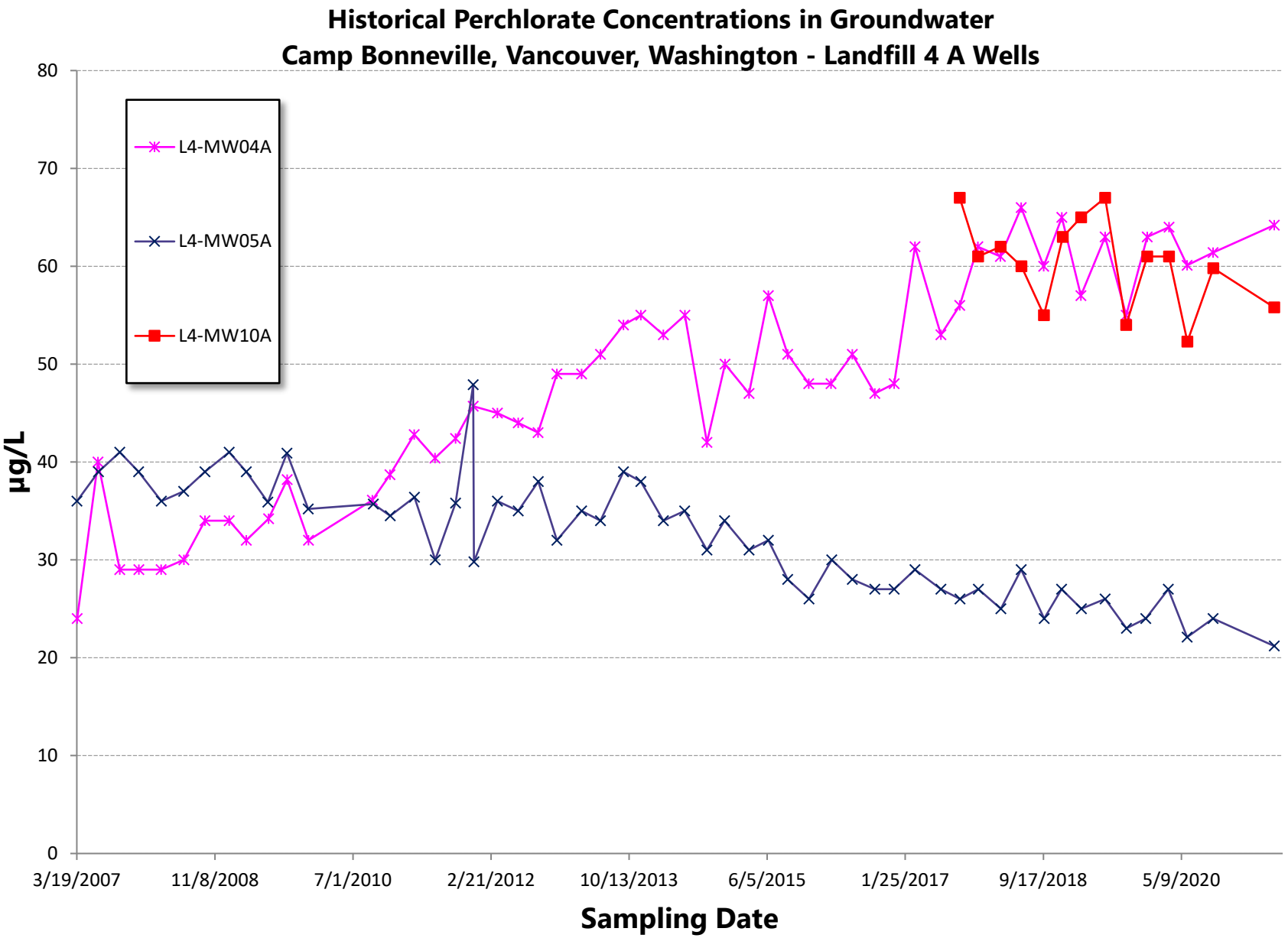
Quantitation Report (QT Reviewed)

Data Path : T:\Data2\Voc\HP5975\2021 DATA\JUNE\21\
Data File : 03401034.D
Acq On : 22 Jun 2021 1:15 am
Operator : TEC
Sample : msd mbf0547-10
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jun 22 07:55:11 2021
Quant Method : T:\Data2\Voc\HP5975\2021 METHODS\JUN21.M
Quant Title : Purgable Volatile Organics - EPA 524.2, 8260, 624
QLast Update : Mon Jun 21 15:08:20 2021
Response via : Initial Calibration

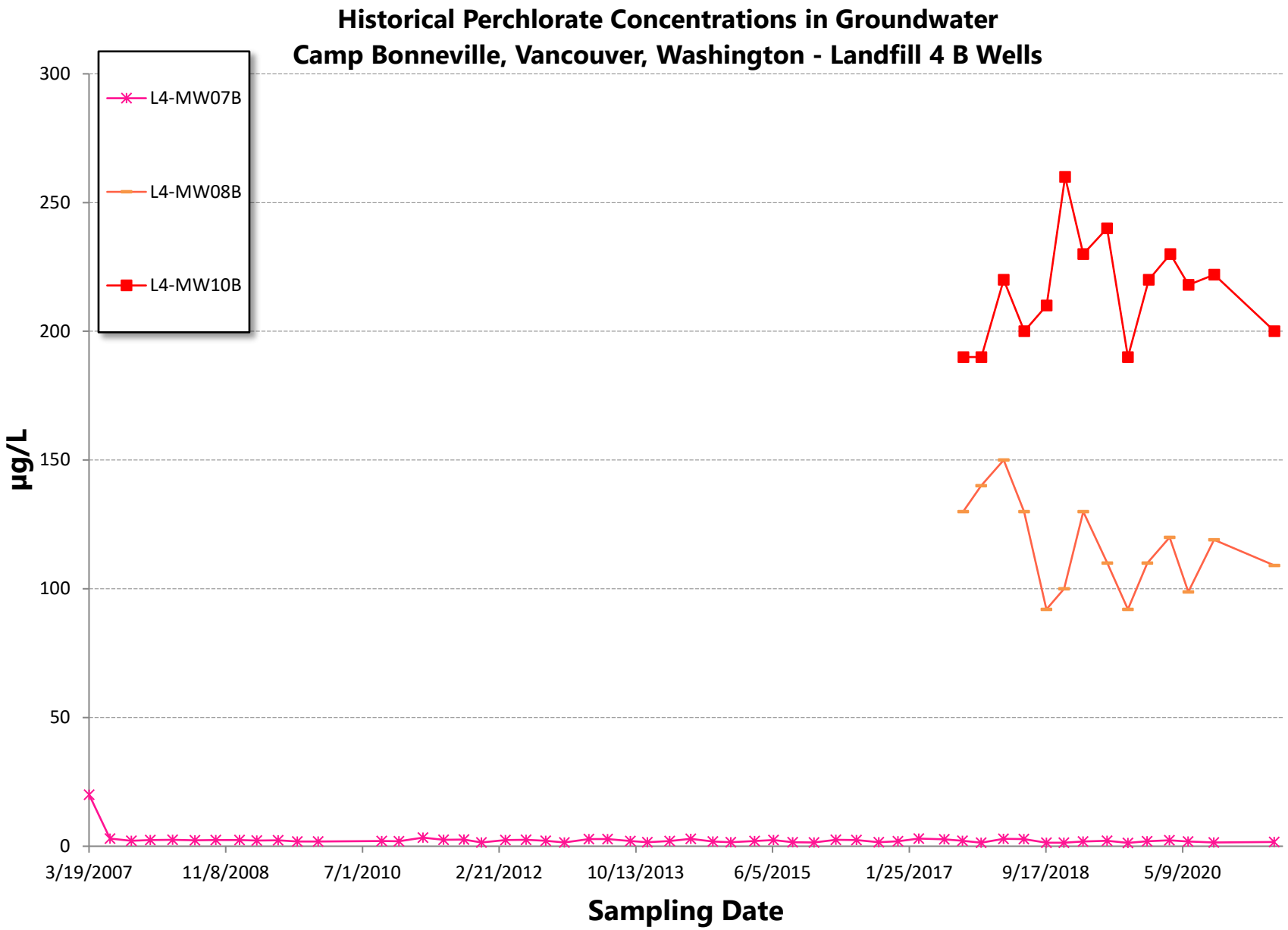


Appendix D
Trend Graphs



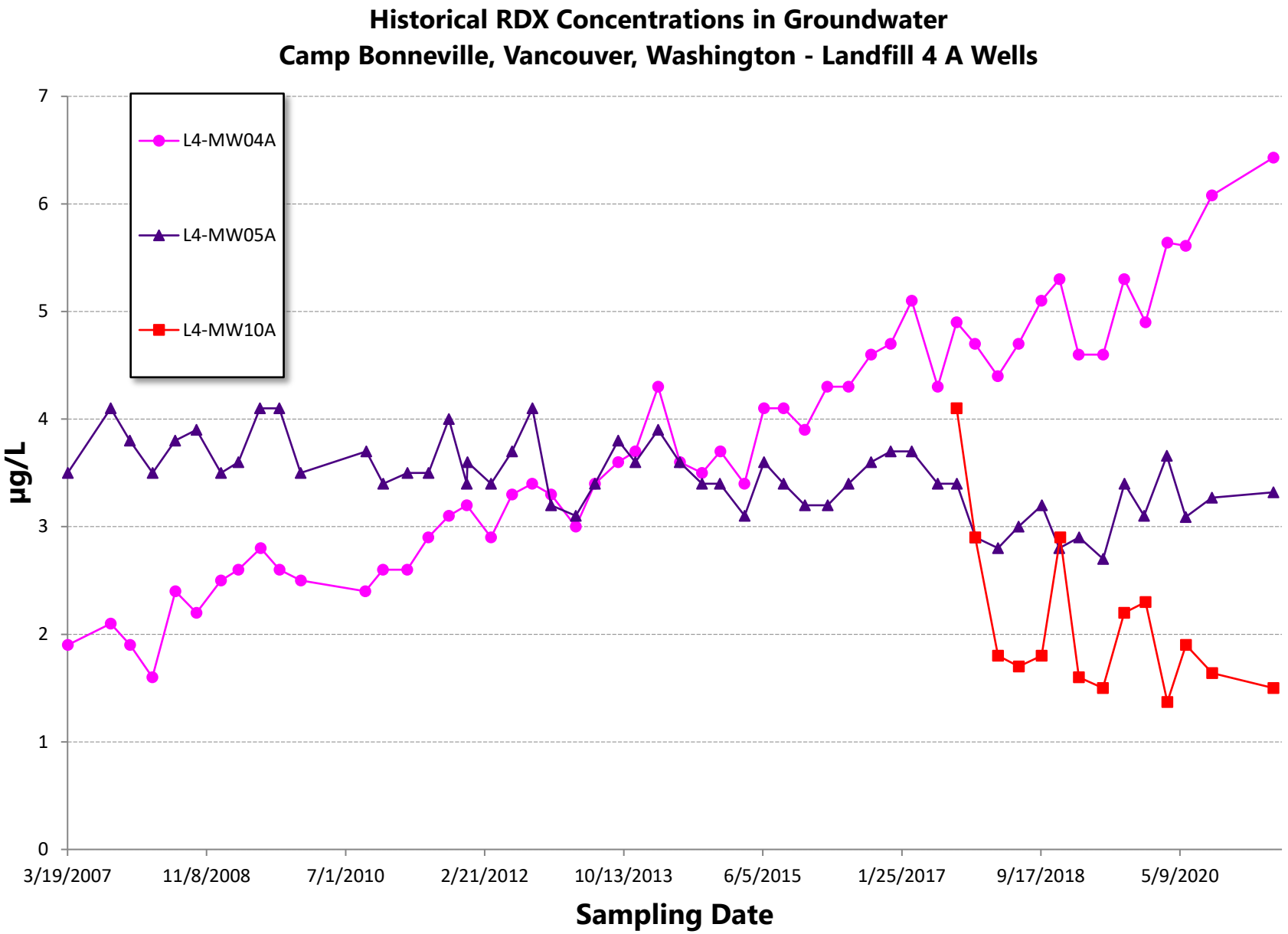
PBS

November 2021
PBS Project 76151.009



PBS

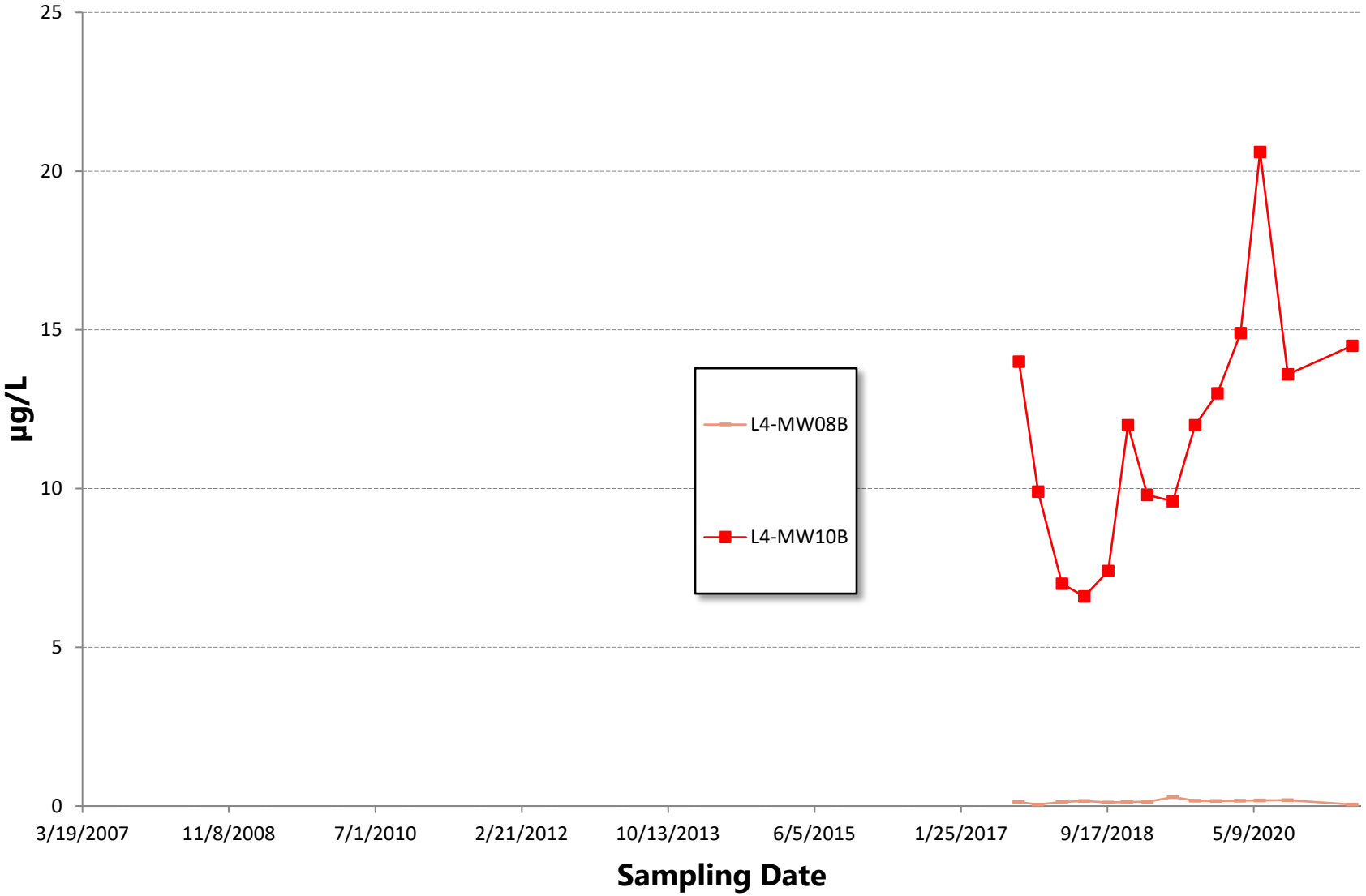
November 2021
PBS Project 76151.009



PBS

November 2021
PBS Project 76151.009

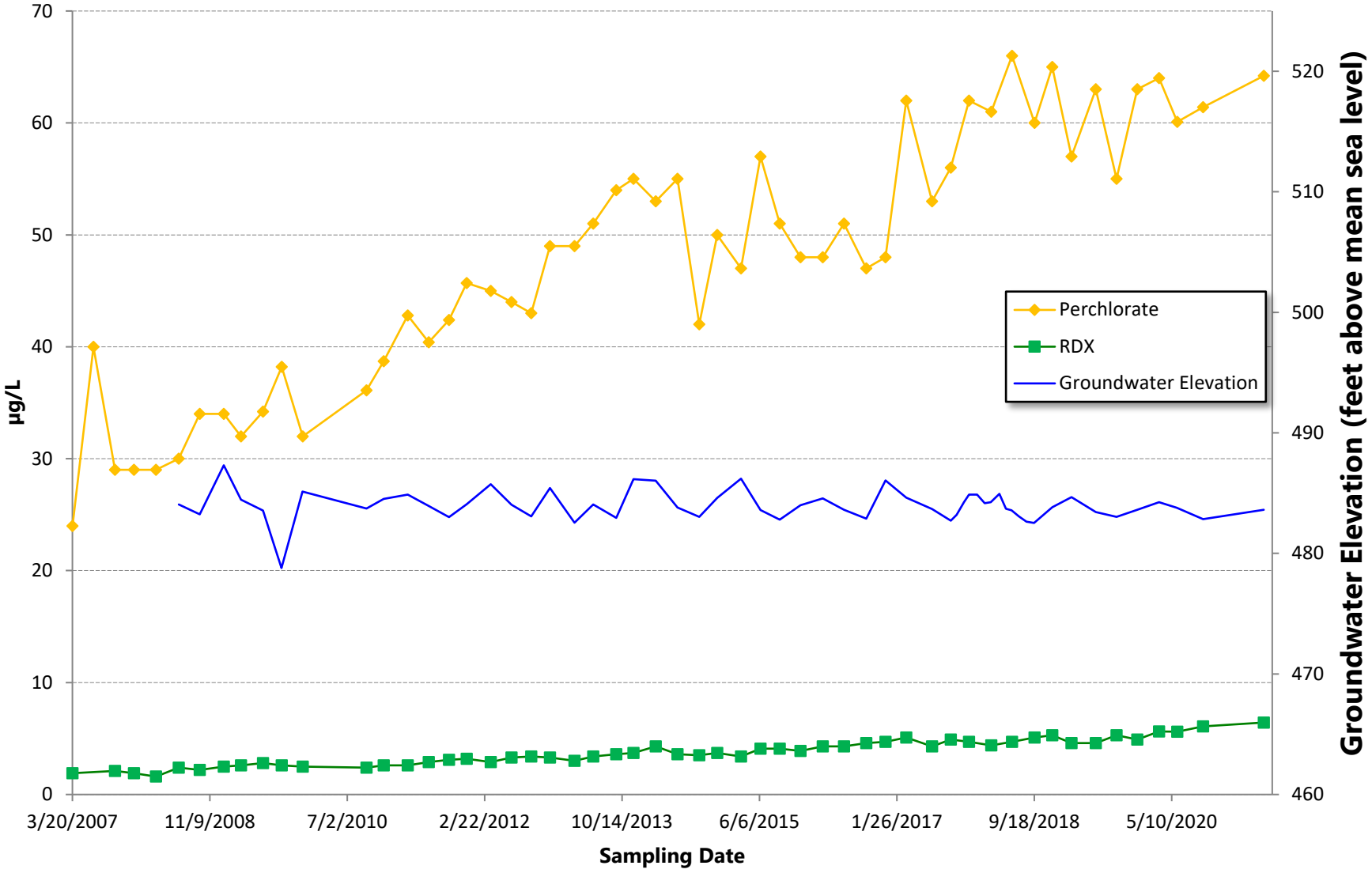
Historical RDX Concentrations in Groundwater
Camp Bonneville, Vancouver, Washington - Landfill 4 B Wells



PBS

November 2021
PBS Project 76151.009

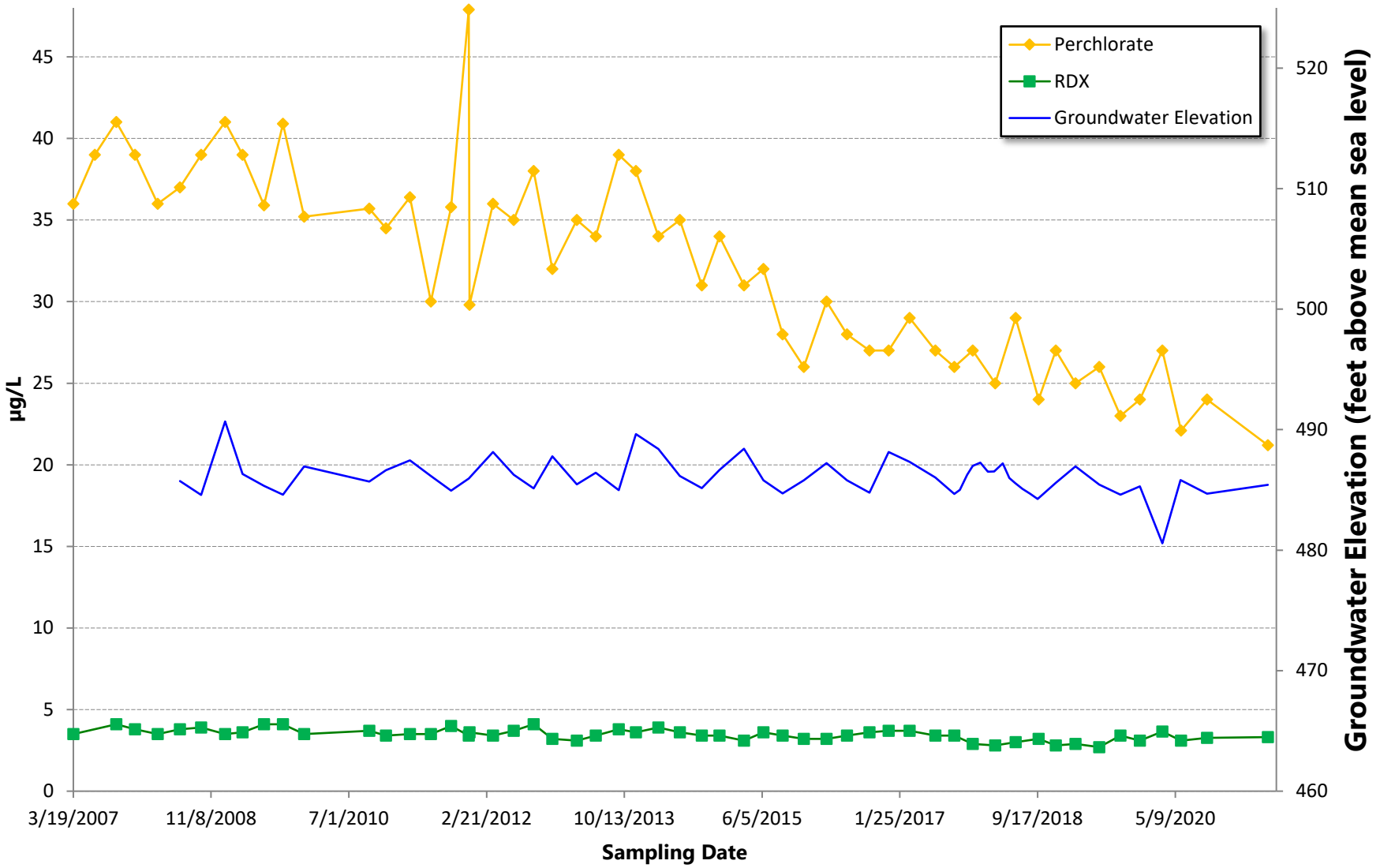
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW04A



PBS

November 2021
PBS Project 76151.009

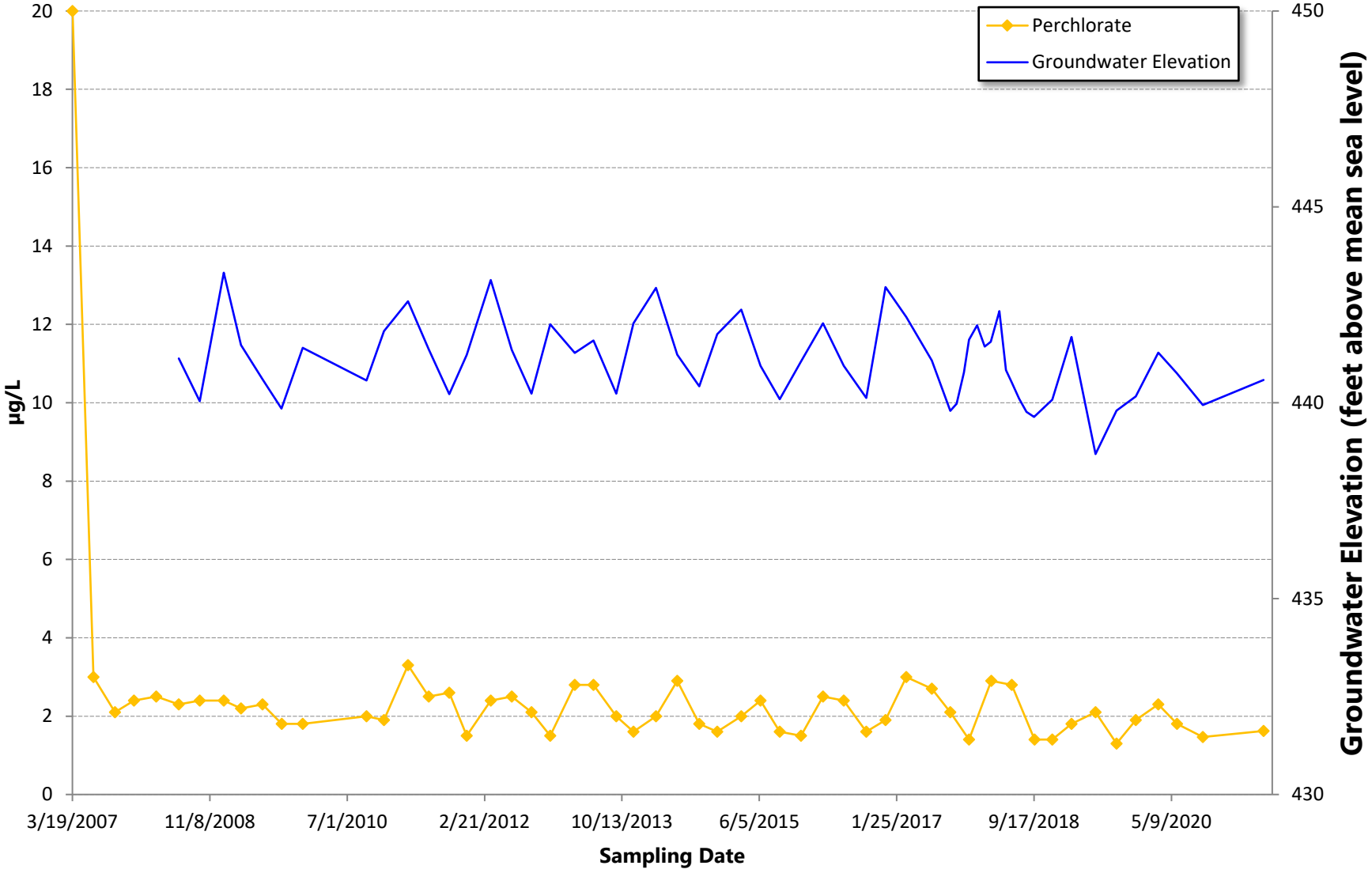
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW05A



PBS

November 2021
PBS Project 76151.009

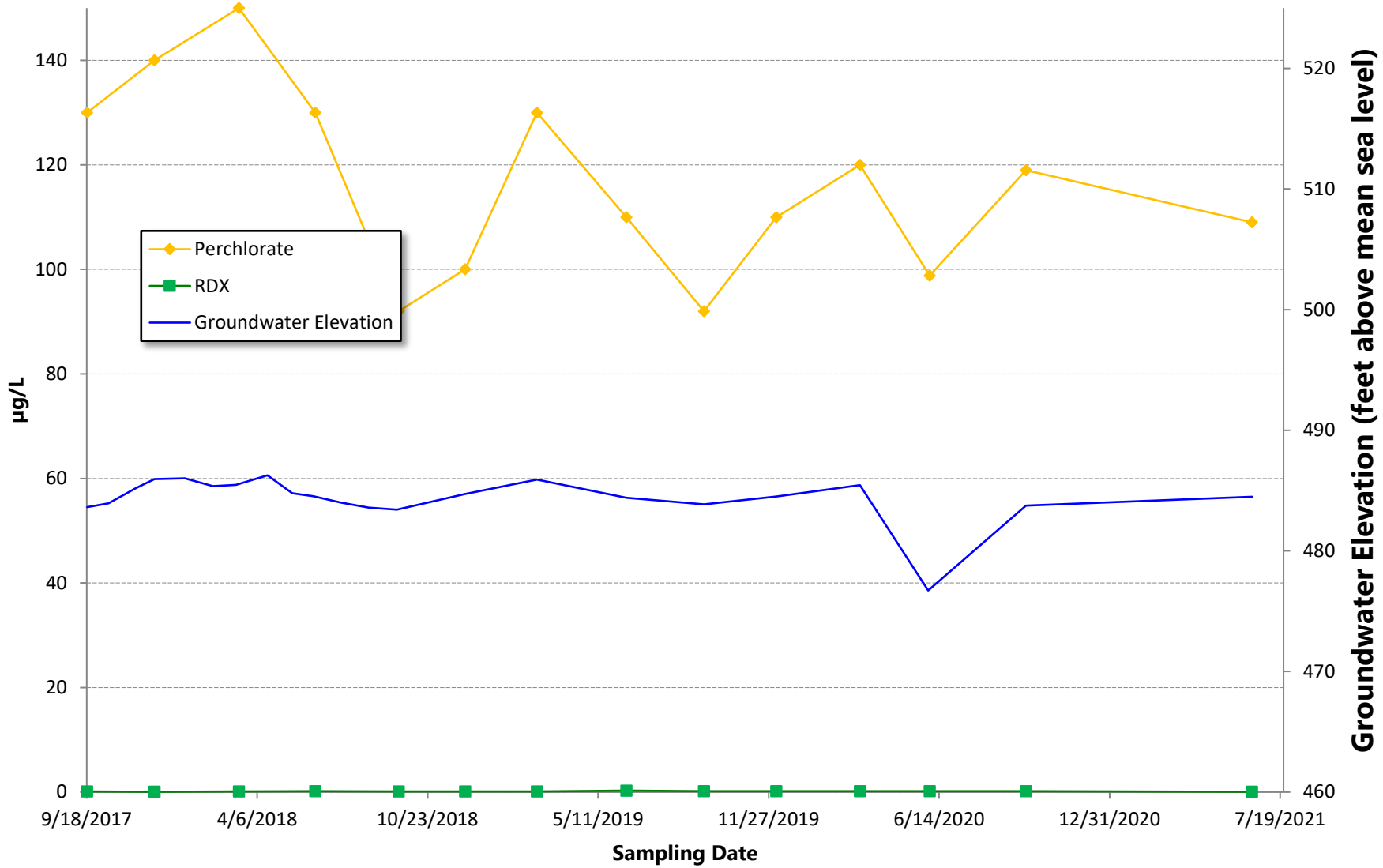
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW07B



PBS

November 2021
PBS Project 76151.009

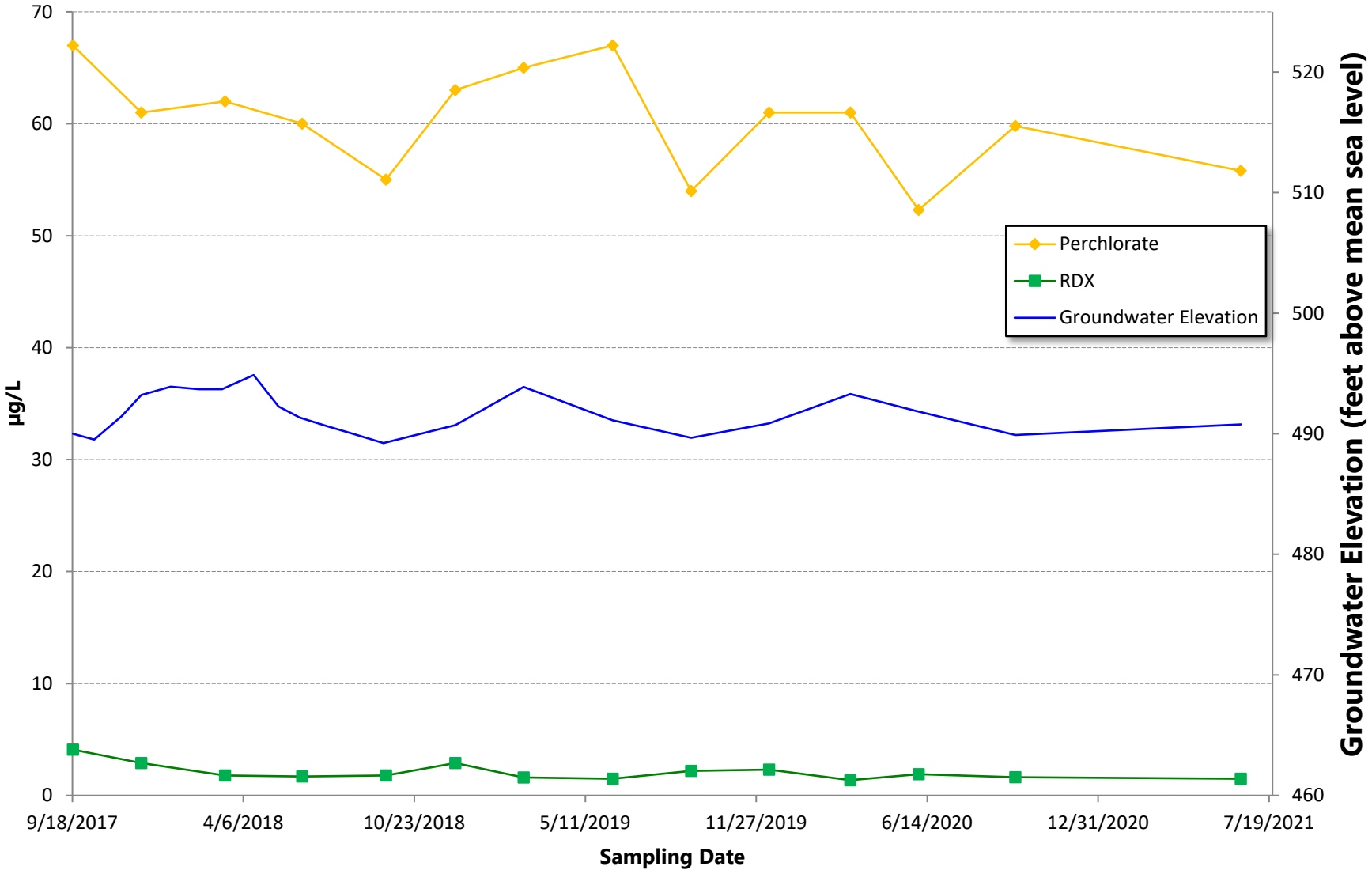
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW08B



PBS

November 2021
PBS Project 76151.009

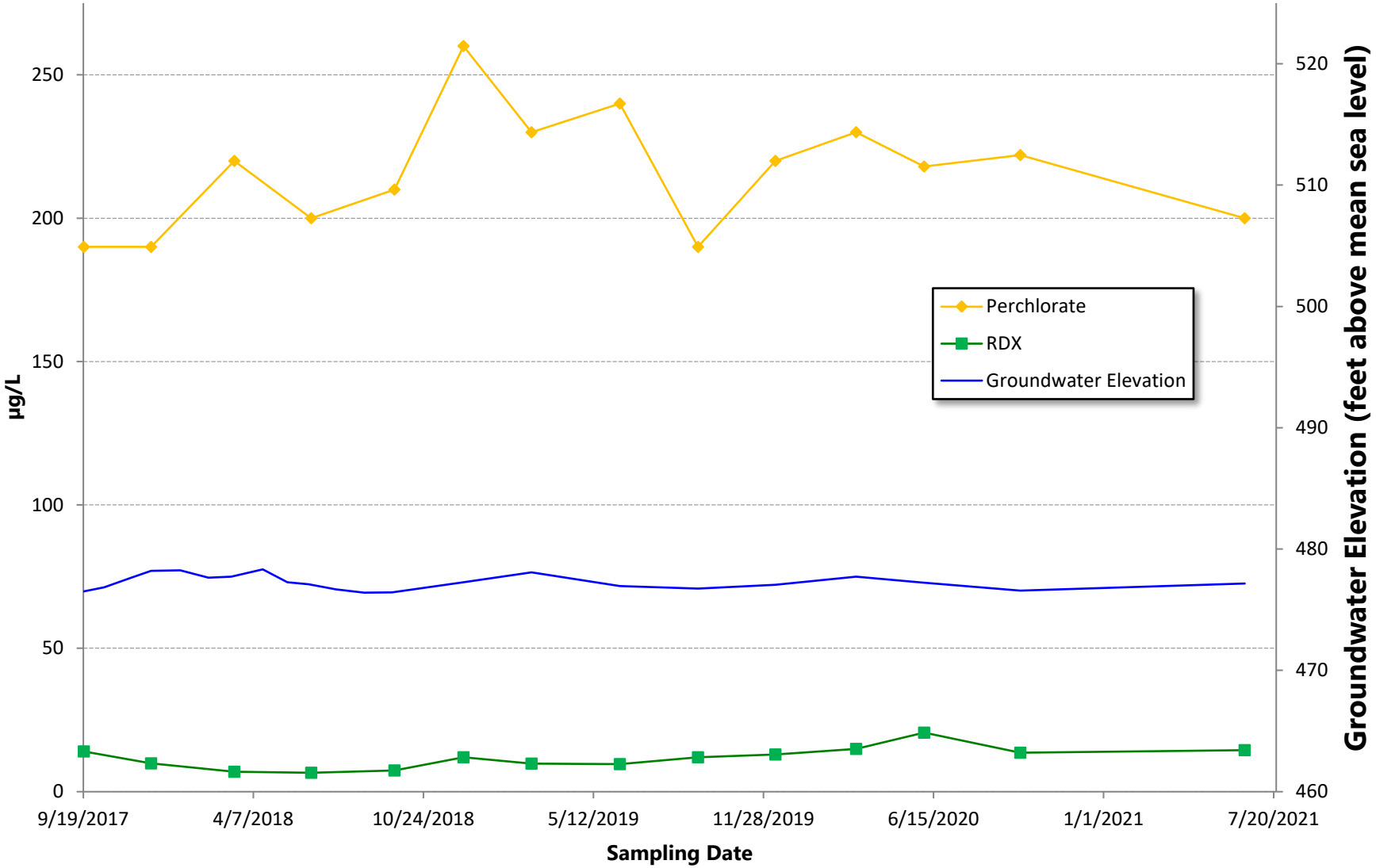
Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW010A



PBS

November 2021
PBS Project 76151.009

Historical Groundwater Concentrations
Camp Bonneville, Vancouver, Washington - Well L4-MW010B



PBS

November 2021
PBS Project 76151.009